



NEWMAN ASSOCIATES



NEWMAN ASSOCIATES

HANGERS • TOOLS • CONSTRUCTION SUPPLIES

508

NEWMAN



Serving New England Since 1964

NEWMAN ASSOCIATES

The Construction Supply Specialist. . . Where Service Comes First

NEWMAN ASSOCIATES, INC.
80 Hudson Road, Canton, MA 02021
(800) 733-0089 • (781) 329-4000 • Fax: (781) 326-4757
www.newmanassoc.com



In 1964

My father began Newman Associates based on a simple premise;

“Provide outstanding customer service by focusing on individual needs.
Deliver to our customers quality products from a complete inventory – at a fair price”.

To this day, that basic premise still remains as the foundation of our company.

With that in mind, I am pleased to welcome you to this newest edition of the Newman catalog. It was assembled through a collaborative effort by members of our team and features products and services to meet the diverse needs of today’s customer. Numerous lines and hundreds of products have been added since our previous edition, making this a convenient and complete “one-stop shopping guide”. The items displayed represent the bulk of what we carry in-house, however, be sure to ask us about products not listed.

I invite you to visit our expansive distribution and custom fabrication facility where we are able to provide everything our friends in the plumbing, heating, electrical and sprinkler trades need underneath one roof. We satisfy everything from product design, to the hangers, fasteners, tools, accessories and supplies required for installation. Our delivery fleet is second to none in providing safe, on-time deliveries directly to the jobsite. Technical assistance and tool repair service is also readily available.

So on behalf of the entire Newman family, I would like to thank you for your business. The growth that we have experienced is rewarding because it shows that our approach to service is what customers look for in a supplier. Whether you are a new customer or an old friend, we know that you have choices and we appreciate your choosing us. Rest assured, we will always strive to improve who we are and what we do, carrying with us the wisdom of the past and a healthy respect for the future.

I consider it a privilege to be building on the tradition set in place by my father so many years ago. More importantly, to be doing so along with a dedicated and experienced staff of individuals willing to go the extra mile to help a customer – the one thing I’m most proud of.

**At Newman Associates, we value every relationship
and look forward to many years of serving you.**

Hank Newman
President

PHD

COPPER COLOR EPOXY FINISH

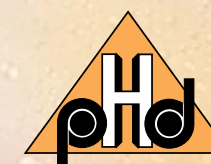


ZINC PLATING + COPPER COATING DOUBLE MEASURE OF CORROSION PROTECTION

PHD’s Copper Color Epoxy Finish Pipe Hangers are zinc plated plus copper-colored epoxy coated to provide a superior protective barrier between copper pipes and metal pipe hangers.

Traditional Copper plating provides no corrosion protection and allows contact between dissimilar metals. This causes a galvanic reaction leading to red rust corrosion.

- ▲ Zinc Plated to .0002” thick
- ▲ Insulates/protects against galvanic reaction from dissimilar metal contact
- ▲ The Copper-colored Epoxy Finish is a powder-coat finish baked at 180 degrees for 20 minutes to withstand corrosion.
- ▲ Withstands red rust corrosion after salt chamber testing for 1,000 hours at 95 degrees.
- ▲ Meets MSS-SP 58 Section 6.3 Specifications



Delivering Quality You Can Depend On

See our detailed PHD Hanger Section - Pages 218 to 280



FALL PROTECTION



1102000 STANDARD VEST STYLE HARNESS

- Lightweight, Delta No-Tangle™ design for added comfort and easy donning
- Spring loaded stand-up back D-ring ensures fast, easy, and safe connections
- Adjustable non-slip chest strap with easy to use pass-thru buckle
- Parachute buckles on lower shoulder straps for quick and easy adjustment
- Tongue buckle leg straps for fast and easy donning
- Polyester webbing construction for added durability
- Plated hardware for corrosion resistance
- Universal sized
- Meets or exceeds all applicable industry standards including OSHA, ANSI and the stringent ANSI Z359



Similar Models:

- 1102008: with side D-rings
- 1102001: with parachute buckle leg straps
- 1102009: with side D-rings and parachute buckle leg straps
- 1101252: size XL
- 1101253: size XXL

1102001 VEST STYLE HARNESS

- Lightweight, Delta No-Tangle™ design for added comfort and easy donning
- Spring loaded stand-up back D-ring ensures fast, easy, and safe connections
- Adjustable non-slip chest strap with easy to use pass-thru buckle
- Parachute buckles on lower shoulder and leg straps for quick and easy adjustment
- Polyester webbing construction for added durability
- Plated hardware for corrosion resistance
- Universal sized
- Meets or exceeds all applicable industry standards including OSHA, ANSI and the stringent ANSI Z359



Similar Model:

- 1101828: with shoulder retrieval D-rings

1110102 EXOFIT XP™

- ExoFit XP™ is a new generation harness providing all day comfort in a harness you can trust
- The industry's first "truly washable" harness with removable padding
- 3-D mesh lining keeps you cool and delivers all-day comfort
- Unique spring loaded "stand-up" dorsal D-ring ensures fast, easy and safe connections
- Ergonomic design incorporates shoulder, hip and leg padding that always stays in place
- Soft edging moves with you preventing uncomfortable rubbing or chafing
- One-handed quick connect buckles and built in belt loops
- Has a memory fit - adjust the harness once and it stays that way
- Built-in belt loops to support a SALA belt or one of your own
- Torso buckles adjust easily, yet hold the straps firmly in place and complete the 5-point adjustment system
- Soft, lightweight polyester webbing is strong without feeling stiff or coarse
- Meets or exceeds all applicable industry standards including OSHA and ANSI including the stringent ANSI Z359



Sizes Available:

- 1110103: X-large 1110101: Medium
- 1110102: Large 1110100: Small

AB17540 FIRST 5 POINT POSITIONING FULL BODY HARNESS

- 1 dorsal D-ring, 2 side-hip positioning D-rings
- Pass-thru buckle leg and chest closures, torso adjusters
- Supple back plaque
- Universal sizing 1.75" wide polyester with blue top, yellow bottom
- Minimum tensile strength >5,000 lbs.
- Zinc plated stamped steel
- Net Weight 2.82 lbs.
- Meets or exceeds OSHA 1926 and ANSI Z359 performance criteria





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FALL PROTECTION



AE57610

FIRST 6' SINGLE LEG SHOCK ABSORBING LANYARD

- Web : 1.75" polyester • Minimum tensile strength >5,000 lbs.
- Hooks : AJ523A Zinc plated stamped steel • Net Weight 2.4 lbs.
- Meets or exceeds OSHA 1926 & ANSI Z359 performance criteria



1220006

EZ STOP® II SHOCK ABSORBING LANYARD

- 1" polyester webbing for durability and longevity
- Easy to use self locking snap hooks at both ends
- Soft cover shock absorber for comfort • 6 ft. in length
- Limits arresting forces to 900 lbs. or less
- Meets or exceeds all applicable industry standards including OSHA, ANSI and the stringent ANSI Z359



Similar Models:

1220256: adjustable in length

1220077: with aluminum hook (2-1/4" opening) at one end

1220007: 3 ft. in length

1220030: 4 ft. in length

1220080: with swivelling snap hook

1220086: with 2000108 carabiner (2" opening on one end)

1220406

EZ STOP® II 100% TIE-OFF SHOCK ABSORBING LANYARD

- 1" polyester webbing for durability and longevity
- Twin-leg 100% tie-off style helps you remain connected at all times
- Easy to use self locking snap hooks at leg ends and center
- Soft cover shock absorber for comfort • 6 ft. in length
- Limits arresting forces to 900 lbs. or less
- Meets or exceeds all applicable industry standards including OSHA, ANSI and the stringent ANSI Z359



Similar Models:

1220416: with self locking snap hook at center and aluminum hooks (2-1/4" opening) at the leg ends.

1221006: with elastic legs and self-locking snaphooks at ends

1003000

TIE-OFF ADAPTOR

- Pass-through design easy, quick attachment
- 1-3/4" polyester strength member (5,000 lb. Min. tensile strength)
- 3" wide polyester wear pad
- 3 ft. in length, other lengths available
- Coated steel hardware for corrosion resistance
- Meets or exceeds all applicable industry standards including OSHA, ANSI and the stringent ANSI Z359



Similar Models:

1002103: adjustable tie-off adaptor

1003006: 6 ft. in length

1002106: 6 ft. adjustable tie-off adaptor

2101630

D-RING WITH ANCHORAGE PLATE

- Can be bolted or welded to structure
- Two 1/2" diameter attachment holes
- Stainless steel construction for durability
- Plate size: 1/4" x 2" x 4-1/4"
- Meets or exceeds all applicable industry standards including OSHA, ANSI and the stringent ANSI Z359



Similar Models:

2101634: with raw steel

2101632: with painted steel

2101636: with stainless steel



FALL PROTECTION



AD111A

REBEL® SELF RETRACTING LIFELINE

- The industry's lightest and most compact 11 foot SRL
- Lightweight and compact aluminum housing construction weighing only 2.8 lbs.
- Best lifeline length-to-weight ratio in the industry
- Unique super strength thin webbing for total security and added length in a compact SRL
- Designed for smooth consistent operation with a unique speed sensing brake that reduces clearance requirements and limits fall arrest forces to 900 lbs. or less
- AJ565A snap hook on lifeline, AJ514A carabiner on housing
- Two year warranty, no recertification necessary
- Meets or exceeds all applicable industry standards including OSHA, ANSI and the stringent ANSI Z359



AD120A

REBEL® SELF RETRACTING LIFELINE

- The industry's lightest and most compact 20 foot SRL
- Lightweight and compact aluminum housing construction weighing only 5.1 lbs.
- Unique super strength thin webbing for total security and added length in a compact SRL
- Designed for smooth consistent operation with a unique speed sensing brake that reduces clearance requirements and limits fall arrest forces to 900 lbs. or less
- AJ520A snap hook on lifeline, AJ514A carabiner on housing
- Also available in 11 ft. length model AD111A (2.8 lbs.) and an 11 ft. cable lifeline model AD211B (5.2 lbs.)
- Two year warranty, no recertification necessary
- Meets or exceeds all applicable industry standards including OSHA, ANSI and the stringent ANSI Z359



AD212AG

30' STEEL CABLE SELF RETRACTING LIFELINE

- 30' (9meter) working length.
- Lightweight device - just under 10 lbs.
- Utilizes 3/16" Galvanized cable
- Zinc coated internal components
- Shock-Resistant thermoplastic casing
- Begins fall arrest within 2 feet
- Red end-of-travel indicator
- Incorporated energy dissipation element
- AJ565A double locking swiveling snaphook on end
- Works horizontally or vertically
- Two year warranty, no recertification necessary
- Complies with OSHA 1926 and ANSI Z359





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FALL PROTECTION



1202754 ROPE LIFELINE ASSEMBLY



DBI-SALA manufactures a complete range of lifelines for use with our rope grabs. They are available in 5/8" or 3/4" polyester or polyester/polypropylene blend rope and in cut lengths or assemblies that include a self locking snap hook at one end. We also offer several styles of counterweights to keep the lifeline taut and optimize performance of the rope grab system.

- 5/8" polyester/polypropylene blend rope for strength and durability
- Self locking snap hook at one end for easy connection to the anchorage
- 30 ft. in length (50, 75 and 100 ft. standard lengths and custom lengths available)
- Meets or exceeds all applicable industry standards including OSHA, ANSI and the stringent ANSI Z 3590

5000335 ROPE GRAB

This DBI/SALA rope grab automatically follow you, giving you greater freedom of movement and virtually hands-free operation. They can be installed or removed at any point on the lifeline. The rope grab utilizes a cam lever as well as a friction sensitive brake to lock the rope grab onto the lifeline in case of a fall, even if the operator holds the device open in a panic situation.



- Revolutionary design is less sensitive to rope variations - it works on worn rope with no nuisance lock-ups
- Mobile type, automatically follows worker providing maximum freedom of movement
- Utilizes both inertia and cam locking system for added safety preventing "panic-grab" situations
- Energy absorbing design reduces the forces generated upon a worker in the even of a fall
- Attach or detach anywhere along the lifeline for added versatility
- Corrosion resistant stainless steel and thermoplastic construction
- Fits 5/8" diameter rope lifeline
- Use with 3 ft. EZ Stop® II shock absorbing lanyard (part#1220007)
- Meets or exceeds all applicable industry standards including OSHA, ANSI and the stringent ANSI Z 359

4100300 VERTICAL NET DEBRIS CONTAINMENT SYSTEM

Increases public safety by preventing falling debris. Vertical Net not only protects from falling debris but also protects workers. Also useful as temporary partitions for crowd control or demolition near building edges by serving as a guardrail.

- 48" high x 100 ft. long with 55 EZ clips and 22 tie-down plates (other sizes available)
- Eliminates the need for a separate mid-rail and toe-board
- Easy to install, remove, relocate and store
- Exceeds strength requirements of OSHA's 200 pound lateral force test
- High visible so you know it is in place even from the ground level
- System comes complete with everything needed, vertical netting, zip clips for easy and secure net installation and tie-down plates to replace toe-boards and firmly set the net into place





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FIRST AID KITS AND STATIONS



SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA



6060

#10 FIRST AID KIT

Weatherproof Plastic Case

Measures: 4-1/2" x 7-1/2" x 2-3/4"



6084

#25 FIRST AID KIT

Weatherproof Plastic Case

Measures: 6-1/2" x 9-1/2" x 2-3/4"



6088

#50 FIRST AID KIT

Weatherproof Plastic Case

Measures: 9-1/2" x 9-1/2" x 2-3/4"

Item Description	#10	#25	#50
ADHESIVE STRIPS, DRESSINGS			
Adhesive Strips (1" x 3")	16	100	100
Gauze Pads (3" x 3") (4" x 4")*	4	5*	10*
Large Wound Pads	1	1	2
Triangular Bandage (40")	1	1	2
Gauze Bandage (4")	1	1	2
Elastic Bandage (2")	0	0	1
Adhesive Tape Rolls 1/2" x 5 yds.	1	1	2
ANTISEPTICS			
Antiseptic Wipes	30	30	60
First Aid / Burn Cream Packets	6	6	12

Item Description	#10	#25	#50
ADDITIONAL PRODUCTS			
Instant Cold Pack	0	1	2
Latex Exam Gloves	4	4	4
Scissors	1	1	1
Forceps	1	1	1
First Aid Instructions	1	1	1
Total Number of Pieces	67	153	200

Contents of all kits meet or exceed ANSI Z308.1-2003 requirements.

EYE & SKIN WASH STATIONS



24-202

SINGLE BOTTLE 32 OZ. STATION

24-201 32 OZ. REPLACEMENT BOTTLE



24-102

DOUBLE BOTTLE 16 OZ. STATION

24-300

DOUBLE BOTTLE 32 OZ. STATION

24-101 16 OZ. REPLACEMENT BOTTLE

24-201 32 OZ. REPLACEMENT BOTTLE



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SAFETY GLASSES



PYRAMEX

REATTA

- Lightweight protection with stylish two-color frame
- Vented lens on both sides allows air to flow away from the lens to prevent fogging
- Slightly adjustable nose-pad secures the glass while providing a pillow soft fit
- Straight back flexible temples provide outstanding fit
- Exceeds ANSI Z 87.1-2003 High Impact requirements
- Lenses provide 99% protection against harmful UV rays



MODELS:

- SBS4810D Clear Lens with Black/Silver Frame
 SBS4810DT (Anti-Fog) Clear Lens with Black/Silver Frame
 SBS4820D Gray Lens with Black/Silver Frame
 SBS4840D Black/Orange Frame
 SBS4870D Silver Mirror Lens with Black Frame
 SBS4880D Indoor/Outdoor Mirror Lens with Black Frame

AVANTE

- Lightweight sports styling contours to the face to provide maximum protection
- Built in rubber nose pads provide comfort fit and protect against slipping
- Straight back flexible temples provide outstanding fit
- Anti-Scratch lenses offer 99% protection against harmful UV rays
- Vented frame increases air flow to prevent fogging
- Exceeds ANSI Z 87.1-2003 High Impact requirements



MODELS:

- SS4510D Clear Lens with Silver Frame
 SS4620D Gray Lens with Silver Frame
 SS4545DD Ice Orange Mirror Lens with Silver Frame
 SS4580D Ice Orange Mirror Lens with Silver Frame
 SSB4510D Clear Lens with Black/Silver Frame
 SSB4520D Gray Lens with Black/Silver Frame
 SSB4570D Silver Mirror Lens with Black/Silver Frame

VENTURE II®

- 9.75 Base curved lens provides full side protection without distracting seams or traditional type side shields
- Nose buds secure the glass and prevent slipping while providing a pillow soft fit
- Lenses are coated for superior scratch resistance
- Indoor/Outdoor mirror lenses are coated with a light gold mirror finish to reduce glare. Commonly used where it is required to move between indoor and outdoor applications
- Exceeds ANSI Z87.1 - 2003 High Impact requirements
- Exceeds CSA Z94.3 standards
- CE EN 166 certified*
- Lenses provide 99% protection against harmful UV rays

MODELS:

- SB1870S* Silver Mirror Lens with Black Frame
 SB1810S* (Anti-Fog) Clear Lens with Black Frame
 SB1810ST Clear Lens with Black Frame
 SB1820S* Gray Lens with Black Frame
 SB1820ST (Anti-Fog) Gray Lens with Black Frame
 SB1875S Blue Mirror Lens with Black Frame
 SB1880S* 1/0 Mirror Lens with Black Frame
 SB1880ST (Anti-Fog) 1/0 Mirror Lens with Black Frame
 SB1880SB 1/0 Mirror Lens with Black Frame (Ballistic)



NEWMAN ASSOCIATES

THE CONSTRUCTION SUPPLY SPECIALIST . . . WHERE SERVICE COMES FIRST



SAFETY GLASSES

ZONE II

- Straight back, rubber coated temple tips
- Lenses filter 99% of harmful UV light
- Built in nose pads elevate frame for precision fit and weightless wear
- Indoor/Outdoor mirror lenses are coated with a light gold mirror finish to reduce glare
Commonly used where it is required to move between indoor and outdoor applications
- ANSI Z87.1-2003 High Impact requirements • CE EN166 Certified*



MODELS:

SB3310E*	Clear Lens with Matte Black Frame	SS336SE	Ice Blue Mirror Lens with Silver Frame
SB336SE	Ice Blue Mirror Lens with Matte Black Frame	SBW3320E	Gray Lens with Blue Wood Frame

FORTRESS®

- Adjustable nose pad provides a comfortable fit for a broad range of bridge sizes
- Meets ANSI Z87.1-2003 High Impact requirements
- Anti-Scratch lenses offer 99% protection against harmful UV rays
- Vented lens allows air to flow away from the lens to prevent fogging
- Lightweight sports styling contour to the face to provide maximum protection
- CE EN166 Certified*



MODELS:

SB3710D*	Clear Lens with Black Frame	SS3720D*	Gray Lens with Silver Frame
SB3770D*	Silver Mirror Lens with Black Frame	SS3770D*	Silver Mirror Lens with Silver Frame
SB3780D*	Indoor / Outdoor Mirror Lens with Black Frame	SS3780D*	Indoor / Outdoor Mirror Lens with Silver Frame

ZTEK®

- Soft, non-slip rubber temple tips • Integrated nose piece
- Lenses are coated for superior scratch resistance
- Lenses provide 99% protection against harmful UV rays
- Indoor/Outdoor mirror lenses are coated with a light gold mirror finish to reduce glare.
Commonly used where it is required to move between indoor and outdoor applications
- Exceeds ANSI Z87.1 - 2003 High Impact requirements
- Exceeds CSA Z94.3 standards • CE EN166 Certified*



MODELS:

S2510S*	Clear Lens with Clear Frame	S2580S*	1/0 Mirror Lens with Indoor / Outdoor Frame
S2510ST	(Anti-Fog) Clear Lens with Clear Frame	S2570S	Silver Mirror Lens with Silver Mirror Frame

ZTEK® RENDEZVOUS READERS

- Crafted from high grade polycarbonate, machined from virgin materials and formed to shape
- Clear Lens, for indoor applications that require impact protection
- Lens/frame design allows air to flow from lens to prevent fogging
- Align lens angle to proper position with ratcheting lens pitch adjustment
- Temples adjust to four different lengths
- Adjustable nose pad conforms to a broad range of bridge sizes
- Clip and tension mounted 9.5 base curved lens eliminates screws or rivets for easy replacement



MODELS:

S2510R15	S2510R20	S2510R25	S2510R10
Clear + 1.5 Lens w/ Black Frame	Clear + 2.0 Lens w/ Black Frame	Clear + 2.5 Lens w/ Black Frame	Clear + 1.0 Lens w/ Black Frame



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SAFETY GLASSES, GOGGLES & ACCESSORIES



S3510SJ OTS®

- Clear Lens with Black Frame
- Lenses provide 99% protection against harmful UV rays
- Exceeds ANSI Z87.1-2003 High Impact requirements
- Lenses are coated for superior scratch resistance
- Lightweight nylon temples that adjust for length and pitch
- Single lens protection encapsulates the eye for superb protection
- Designed to better fit today's prescription eyewear



G201 SAFETY GOGGLES

- General purposes for indoor application that require impact protection
- Lenses provide 99% protection against harmful UV rays
- All goggles available with fog free coating
- Perforated, provides excellent ventilation



CORDS1A BLACK COTTON CORD LANYARD FOR HOLDING EYEGLASSES



LCT20 DELUXE LENS CLEANING STATION

- Anti-fog and anti-static formula
- Contains one 16 oz. spray bottle and 100 low lint tissues
- For glass, plastic and polycarbonate lenses, goggles and faceshields
- Sturdy corrugated construction with easy wall mount design



LCT100 LENS CLEANING TOWELETTES

- Wall mount
- Anti-fog and anti-static formula
- 100 individually packaged
- For glass, plastic and polycarbonate lenses, goggles and faceshields



RESPIRATORY PROTECTION



SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA

8210 3M™ PARTICULATE RESPIRATOR N95

- Approved for protection against solid and liquid particles (95% efficient) excluding those containing oil
- Disposable, Lightweight, Comfortable
- Adjustable noseclip



8233 3M™ PARTICULATE RESPIRATOR N100

- NIOSH'S highest rated filtration efficiency (99.97%) for non-oil based particles
- Excellent Choice for work involving OSHA substance specific particle exposures (lead, arsenic, cadmium, 4,4' - Methylene dianiline)
- Features 3M™ Cool Flow® Valve
- Faceseal ring
- Adjustable straps and lightweight construction



2091 3M™ HALF FACEPIECE RESPIRATOR ASSEMBLY, WITH 3M™ PARTICULATE FILTER

- Reusable
- Comfortable and Soft
- Uses the simple bayonet mounting system with low-profile P100 filters
- Available in 3 sizes (small, medium and large)



6191 SHOWN

8293 3M™ PARTICULATE RESPIRATOR P100

- NIOSH'S highest rated filtration efficiency in a maintenance free respirator.
- Offers protection against solid and liquid particles - including those containing oil.
- Features 3M™ Cool Flow™ Exhalation Valve
- Comfortable faceseal and adjustable straps



ITEM #	DESCRIPTION	SIZE
6191	Half facepiece respirator w/P100 filter	S
6291	Half facepiece respirator w/P100 filter	M
6391	Half facepiece respirator w/P100 filter	L

3M™ PARTICULATE WELDING RESPIRATORS

- Specifically designed for use in work applications where metal fumes are present - welding, brazing, grinding, metal pouring, etc.
- Each filter has at least a 95% efficiency protection against solid and liquid particles - excluding those containing oil
- Disposable - available with faceseal or 3M(TM) Cool Flow(TM) Exhalation Valve
- Also available with organic vapor relief • NIOSH Approved
- All respirators packaged 10 per box

ITEM #	DESCRIPTION
8212	N95 Particulate welding respirator w/faceseal
8214	N95 Particulate respirator w/faceseal & nuisance level OV relief
8512	N95 Particulate welding respirator
8514	N95 Particulate welding respirator w/OV relief
8515	N95 Particulate welding respirator w/Cool Flow™ exhalation valve



8214 SHOWN



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HEARING PROTECTION



DP1001 CORDED EARPLUGS

100 per box / 10 boxes per case

- NRR 29db
- Taper-fit disposable polyurethane ear plugs
- Plug gently expands and self adjusts to all size ear canals
- Available in convenient dispenser box
- Meets ANSI S3.19 requirements



DP1000 UNCORDED PLUGS

- 200 per box
- 10 boxes per case



PM1010 EAR MUFFS

- Soft foam ear cups
- Meets ANSI S3.19 requirements
- NRR 25db
- Durable padded nylon headband



PM3010 EAR MUFFS

- Soft foam ear cups
- Meets ANSI S3.19 requirements



BODY PROTECTION

PROLINE™ KNEE PADS

All purpose Knee Pads designed with a short plastic cap allowing user to swivel and maneuver easily on working surfaces. 1/2" Thick High Density Rubber Padding. Made with Du Pont Cordura® Nylon. Color: Navy/White Cap

50900 Velcro® Fastening System



50903 AltaLok™ Buckle Fastening System



ALTA® offers the AltaLok™ buckle on selected knee pads. The patented "easy-on/easy-off" fastening system lets the user adjust 'em once ... and leave 'em alone. This unique buckle is fully adjustable to fit most any size knee, and is designed for long wear and lasting comfort.

ALTA
INDUSTRIES

The Top Choice of Professionals



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HEAD AND FACE PROTECTION



PYRAMEX

4 POINT RATCHET STYLE CAP

- 4 point nylon Ratchet suspension is easy to adjust-allows the wearer to modify the fit while wearing
- Shell Constructed from High Density Polyethylene
- Low profile design
- Rain trough on sides and back of helmet channel moisture away
- Soft brow pad is replaceable and washable
- Universal accessory slots fit cap mounted ear muffs and chin straps
- Meets ANS1 Z89.1 standards, Type 1 - Class C, G, and E

Part No.	Color
HP14110	White
HP14112	Black
HP14120	Red
HP14130	Yellow
HP14135	Green
HP14140	Orange
HP14141	High Visibility Orange
HP14160	Blue



4 POINT FULL BRIM STYLE HARD HAT

- Ratchet suspension is easy to adjust-allows the wearer to modify the fit while wearing
- Rain trough on sides and back of helmet channel moisture away
- Low profile design
- Shell Constructed from High Density Polyethylene
- Universal accessory slots fit cap mounted ear muffs and chin straps
- Soft brow pad is replaceable and washable
- Meets ANS1 Z89.1 standards, Type 1 - Class C, G, and E

Part No.	Color
HP24110	White
HP24111	Black
HP24120	Red
HP24130	Yellow
HP24135	Green
HP24140	Orange
HP24141	High Visibility Orange
HP24160	Blue



PERSONALIZE YOUR HARD HATS!

Provide us with your logo and we will display it on the front or either side of the hard hat. A minimum purchase of four cases is required. Contact your Newman Representative for more information.

HHAA HARD HAT ADAPTER

- Constructed from lightweight aluminum with protective plastic coated tension spring
- Universal sizing fits on the brim of most hard hats and accommodates a variety of faceshields



HGB BLACK RATCHET HEADGEAR

- Constructed from durable nylon • Universal pegs will accommodate a wide variety of faceshields
- Ratchet style adjustment for easy fit • Pivoting action allows user to lift faceshield while wearing



FACESHIELD VISORS

S1010	8" x 15" X .040", Polyethylene clear faceshield
S1020	8" x 15" X .040", Polycarbonate clear faceshield



CAUTION: ALL FACESHIELDS MUST BE WORN WITH PROTECTIVE SPECTACLES OR GOGGLES



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HARD HAT WINTER LINERS



3000442

WINTER LINER 225 PLUS

- Blue quilted nylon shell with fastener straps
- Three layers of thick foam



3000441

WINTER LINER 400

- Full head and neck coverage with extra-long nape and wrap-around collar
- 100% cotton, denim exterior
- Thick, sherpa lining for maximum warmth



3000443

WINTER LINER

- Thinsulate inner panels and red heavyweight fleece lining
- Full head and neck coverage with extra-wide wrapped collar
- Shoulder-length liner can be tucked into jacket
- 100% cotton, denim exterior with black fastener



FLASHTEX ARCTIC 2-IN-1 SPORT

- Great coverage reduces drafting
- Top section: fleece with elastic around face; bottom section: spun polyester

3004789: Royal Blue/Red Arctic 2-in-1 Sport
3004788: Silver/Navy Blue Arctic 2-in-1 Sport



WINDGARD AA-7

- Cap Style
- Keeps wind out, traps warmth and prevents moisture build-up
- Knitted flame resistant treated spun polyester

3005341: Red
3000434: Navy Blue
3000435: Orange



3000436

WINDGARD AA-8

- Hat Style
- For 360 degree brim hats



WINDGARD AA-9

- Hat-Style full-face and neck cap

3005342: Red
3000437: Navy Blue





RAINGEAR AND WORK WEAR

SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA



6900 35MM PVC / POLYESTER RAINGEAR

100% waterproof industrial raingear made from 35mm heavy-duty PVC/Polyester fabric. Three-piece Rainsuit consists of jacket, detachable hood and bib overall. The jacket features reinforced patch pockets, and ventilated cape back for comfort and coolness. Excellent for industrial and consumer applications.

HIGH VISIBILITY ULTRA-FLEECE LINED, CLASS 2 JACKET

The American worker is on the job on the coldest days and Abel stands up to the task by providing this nylon jacket with an 11 oz. Ultra Fleece lining.

Meets ANSI/ISEA 107-199 requirements for class-2 safety garment. 360 reflectivity provides full body outline. Available in fluorescent orange and lime with two 3M®-Brand silver reflective stripes.

The jacket features a high collar for protection against wind and rain, triple needle stitching at sleeve and waist, bar tacking at the pockets for extra support, fleece lining for comfort and warmth and an acrylic coated nylon that passes a US Government water proof test.

Cat. No.	Color	Size
8304	Fluorescent Lime	S-2XL
8304B	Fluorescent Lime	3XL-6XL
8305	Fluorescent Orange	S-2XL
8305B	Fluorescent Orange	3XL-6XL



6950 DUR-ABEL OVER-THE-SHOE SLUSH BOOTS

- Heavy duty bar-tread outsoles are long wearing and are designed to self-clean for added traction
- Cushion insole for all day comfort
- Tough, comfortable fabric lining for easy on-off
- Hand-plied rubber construction is 100% waterproof
- Comes in high visibility industrial yellow or black
- 17" high, over-shoe style, extra wide last and top strap with buckle
- Deep seated heel and rugged treaded sole
- Fits comfortably over work shoes
- Adult Sizes: 6 - 18





(800) 733-0089 • (781) 329-4000 • FAX: (781) 326-4757

SAFETY VESTS



8408 BUDGET CLASS II TRAFFIC SAFETY VESTS

- Fluorescent Lime with Silver Stripe
- Micro-mesh polyester material
- Hook and loop closure - one inside pocket
- ANSI-ISEA 107-2004 Compliant for Class II protection

SIZES: S/M, L/XL, 2XL/3XL, 4XL/5XL



PREMIUM CLASS II SURVEYOR'S SAFETY VESTS



8410

- Fluorescent Lime with Silver Stripe
- Solid polyester front and micro-mesh polyester back material
- Zip front and 5 pockets
- ANSI-ISEA 107-2004 Compliant for Class II protection



8412

- Fluorescent Lime with 3" Orange-Silver-Orange Stripe
- Solid polyester material
- Zip front and 10 pockets
- ANSI-ISEA 107-2004 Compliant for Class II protection

SIZES: S/M (26" - 38"), L (38" - 42"), XL (42" - 46"), 2XL (48" - 52"), 3XL (52" - 56")

REFLECTIVE STRIPE ALL-PURPOSE VEST

100% soft, pliable polyester mesh in fluorescent lime or orange bound in black cloth binding with hook and loop closure. 1" x 8" elastic side strap. 1" silver reflective stripe on front and back. New, tighter woven mesh material allows for breathability and most images to be screened directly on the vest's surface.

CAT. NO.	DESCRIPTION
8420	Lime with silver reflective stripe
8421	Orange with lime reflective stripe

SIZES: One Size Fits Most (26" - 50"), 2-3XL (50" - 58"), 4-5XL (60" - 72")

**Vests And Jackets Can Be Personalized
With Your Company Name!**

Ask your Newman Representative for details.





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LEATHER PALM, KNIT & COATED GLOVES



SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA

LEATHER PALM

5Y

- Side split cowhide
- Patched palm
- Rubberized short cuff
- Limited quantities
- Size L



6DP

- Select shoulder split cowhide
- Padded reinforced palm
- Rubberized short cuff
- Size L



5FB

- Select shoulder split cowhide
- Full leather back
- Plasticized short cuff
- Size L



5AB

- Select shoulder split cowhide
- Plasticized short cuff
- Sizes S-XL

JERSEY KNIT

1109

- 9 oz. brown jersey
- Sizes S, L

3 Pack Available



KEVLAR® KNIT

KN-18G

- Kevlar® knit gloves
- Cut and abrasion-resistant
- Size L



KN-18G/D

- Gripping dots
- Size L

COATED

2401

- Polyurethane (PU) coated
- 13 gauge nylon
- Sizes M-XL

AccuFlex™
PU



Handy Handz

2300

- Atlas™ brand
- Rubber coated cotton/ polyester string knit
- Sizes S-XL



2500

- Nitrile coated • 13 gauge nylon
- Sizes M-XL



Handy Handz

5112

- Sandy finish PVC • 12" long
- Double dipped • Size L



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(800) 733-0089 • (781) 329-4000 • FAX: (781) 326-4757

DRIVING AND WINTER GLOVES



DRIVING GLOVES

17

- Premium top grain elkskin
- Inside seam
- Keystone thumb
- Unlined
- Sizes S-XL



9P

- Grain pigskin
- Inside seam
- Keystone thumb
- Unlined
- Sizes S-XL



91

- Top grain white cowhide
- Inside seam • Keystone thumb
- Unlined
- Sizes S-XL



9GB

- Grain goatskin / split cowhide
- Inside seam
- Keystone thumb
- Unlined
- Sizes S-XL

9GDP

- Top grain goatskin
- Inside seam
- Padded reinforced palm
- Keystone Thumb
- Unlined
- Sizes S-XL



NEW

WINTER INSULATED

15FH-MAX

- Grain goatskin palm • Polar fleece back
- Waterproof lining • MultiBlend™ insulation
- Sure grip reinforcements • Storm cuff
- Sizes S-2XL

15FH-SFTYMAX

- Safety orange with reflective
- Sizes S-XL

**Fuzzy Hand®
MAX**



5LWP

- Select shoulder split cowhide
- MultiBlend™ insulation
- Waterproof lining
- Blue, Sizes L-XL

5LWP-BLK, Size L
5LWP-RED, Size L
5LWP-GRN, Size L



5LP

- Grain pigskin
- MultiBlend™ insulation
- Sizes S-XL





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LEATHER AND SPECIALTY GLOVES



SYNTHETIC LEATHER TOOL HANDZ™

99PLUS-BLK

- Titan2™ synthetic leather palm
- Reinforced palm and fingers
- Snug spandex fit
- Sizes S-2XL



SPECIALTY TOOL HANDZ™

98SB

- Titan2™ synthetic leather palm
- Shock-absorbing anti-vibration palm with sure grips
- Snug Spandex/neoprene fit
- Sizes M-2XL



GENUINE LEATHER TOOL HANDZ™

99DEER

- Grain deerskin palm
- Single palm dexterity
- Sweat wipe
- Snug Spandex / neoprene fit
- Sizes S-XL



99TR

- Titan2™ synthetic leather palm
- High tack silicone grip
- Sweat wipe
- Snug spandex fit
- Sizes S-XL



19C

- Grain cowhide palm
- Single Palm dexterity
- Heavy spandex back
- Wing thumb
- Size M-XL



98F

- Titan2™ synthetic leather palm
- Exposed 2 fingertips and thumb
- Padded sure grips
- Sweat wipe
- Snug spandex/neoprene fit
- Sizes M-XL



SAFETY PRODUCTS

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SPECIALTY ITEMS SERVICES & DATA



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PROTECTIVE AND DISPOSABLE GLOVES

Ansell

80-400

POWERFLEX® T HI VIZ YELLOW™

- High Visibility • Bright blue crinkled palm provides added grip
- Insulated for temperatures as low as 25 C or -13 F
- Perfect for Construction, cold storage, unheated warehouses, yard and field work, municipal work and freight handling applications
- Sizes, 7, 8, 9 and 10



11-600

HYFLEX LITE® GLOVES

- Dexterity
- Knit-Lined, Dipped, Color-Coded Cuff
- Ideal for the electronics industry and computer assembly
- Sizes M, L and XL



80-100

POWERFLEX® GLOVES

- Cut, abrasion and puncture resistant • Superior wet and dry grip with unbelievable comfort
- Ergonomically designed with soft gray, seamless poly/cotton knit liner
- Uncoated back allows air to circulate keeping hands cooler and drier
- Fully coated thumb provided added protection
- Perfect for general maintenance, shipping and receiving, assembly, concrete and brick handling, and lumber handling
- Sizes M, L and XL



69-120

CONFORM® LATEX GLOVES

- 5 mil, 100% natural rubber latex • Provides high degree of dexterity with strength and comfort
- Component materials comply with FDA Regulations for food and contact.
- Perfect for Intricate parts handling, quality control, electronics assembly and light-duty maintenance and cleanup applications.
- Available in three styles and two colors.
- Sizes S-XL

This product contains natural rubber latex which may cause allergic reactions in some individuals.





WELDING GLOVES



SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA

PREMIUM STICK WELDING GLOVES

850

- Grain elkskin leather
- Flame-resistant Nomex® lined back
- Unlined reversed grain palm
- Thumb strap and specially tanned cowhide rigid cuff
- Kevlar® stitched
- Sizes S-XL



750 Pearl

720 Grain Cowhide

HIGH QUALITY STICK WELDING GLOVES

320

- Side split cowhide
- Wide palm and thumb reinforcements
- CushionCore™ lining
- Kevlar® stitched
- Size: S-2XL



320LH

- Left hand only
- Size L

MIG WELDING GLOVES

Mighty MIG champion

39CHMP

- Grain pigskin
- CushionCore™ lined back
- 4.5 inch cowhide leather protective cuff
- Kevlar® stitched
- Sizes S-XL



Mighty MIG champion

27

- Premium heavyweight grain pigskin
- Unlined
- 4.5 inch cowhide leather protective cuff
- Kevlar® stitched
- Sizes S-XL



TIG WELDING GLOVES



35KF

- Grain kidskin
- CushionCore™ lined back
- Unlined palm
- Seamless index finger and reinforced palm rest
- Straight thumb and long cuff
- Kevlar® stitched
- Sizes S-XL



ultraTIG™

34KE

- Value-grade kidskin
- Unlined relaxed fit
- Seamless index finger and straight thumb
- Short cuff
- Flame-resistant Kevlar® stitched
- Sizes S-XL





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PROTECTIVE WORK WEAR



HYBRID™ JACKETS



FRB9-30C/BS

- 30" length 9oz. FR with side split cowhide sleeves
- Royal blue/brown
- Sizes: S-3XL

F930C/GS

- Green/green version
- Sizes S-3XL



STANDARD LEATHER JACKETS

30WC

- 30" length side split cowhide
- Outside pocket - Corduroy-lined collar
- Gusseted underarms
- Satin-lined inside shoulders
- Scribe pockets
- Kevlar® stitched
- Sizes S-4XL

26WJ

- 26" length
- Sizes S-4XL

36WC

- 36" length
- Sizes S-4XL



FLAME RESISTANT JACKETS, SHOP COATS AND COVERALLS

F9-30C

- 9 oz, green
- USA-treated flame resistant cotton
- Protected inside pocket
- Reinforced snaps
- Adjustable Wrists
- Reinforced Bib Snaps
- Sizes S-4XL
- Available Lengths: 30", 36", 42" and 50"

*Other colors available:
Brown, Navy, Red, Orange*



F9-32CA/PT

- 9 oz, green
- USA-treated flame resistant cotton
- Snap front with cover flap
- Pass-through front pockets
- Inside chest pocket
- Rear pockets
- Sizes S-4XL

Also available in Navy



DUPONT™ TYVEK® COVERALLS

- Offer the balance of protection, durability, and comfort
- Ideal for applications when dry particulates are hazardous, including spray-painting and lead remediation
- Provides durable protection and comfort
- Packaged 25 per case.

ITEM

TY120SWH
TY122SWH
TY125SWH
TY127SWH

DESCRIPTION

Zipper front
Elastic wrists, attached hood and boots, zipper front
Elastic wrists/ankles, zipper front
Elastic wrists/ankles, attached hood, zipper front

SIZE

S-XL, 2XL, 3XL, 4XL
S-XL, 2XL, 3XL, 4XL
S-XL, 2XL, 3XL, 4XL
S-XL, 2XL, 3XL, 4XL



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GENERAL PROTECTION

CAUTION / BARRICADE TAPES



YCT CAUTION TAPE

RDT RED DANGER TAPE

- Made of strong polyethylene
- Available in yellow and red with black print
- All standard wordings available
- Available in 300 ft., 500 ft. and 1000 ft. lengths
- Standard thickness 1.5, 2.0, 2.5 and 4.0 mil.

Custom prints with your logo are also available.
Contact your Newman representative for pricing.

SIGNAL HORN

Model# MSN MIGHTY SONIC HORN

POWERFUL!

Delivers a piercing 120dB blast at 10 feet

EASY!

Convenient push-button operation

UNBREAKABLE!

Guaranteed durable high-impact trumpet

- Lightweight, Portable and Long-Lasting Safety Horn
- Totally independent of any other power source
- 100% ozone-safe and non-flammable

ALSO AVAILABLE:

Model# MSNR

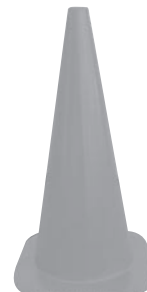
MIGHTY SONIC HORN, 8 OZ. REFILL



TRAFFIC CONES

12" AND 18" TRAFFIC CONES

- Molded from polyvinyl chloride (PVC)
- Fluorescent orange for maximum visibility for all weather conditions
- Cones with or without reflective band
- 12" Cone weighs 1-1/2 lbs.
- 18" Cone weighs 3 lbs.



18" Cone



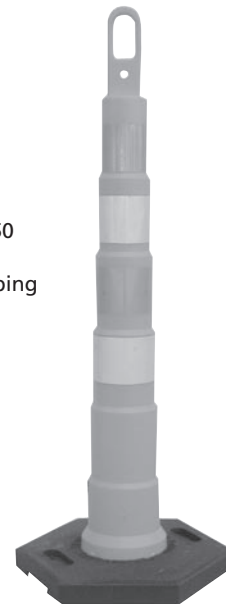
28" Reflective Cone

28" AND 36" TRAFFIC CONES

- Molded from polyvinyl chloride (PVC)
- Fluorescent orange for maximum visibility for all weather conditions
- Cones with or without reflective bands
- Cones with reflective collars are recessed and are designed to prolong the life of the cone collar
- 28" Cone weighs 7 lbs.
- 36" Cone weighs 10 lbs.

42" TRAFFIC CONES

- Features a break-away design NCHRP-350 compliant ballasted by 16 lbs. base
- Open handle provides capabilities of roping off an area with caution tape or rope
- Molded hole at top for barricade light
- Pre-stripped with 2 each 4" orange and 2 each 4" white reflective stripes



42" Reflective Cone

CATALOG NO.	DESCRIPTION
TC-12	12" Cone Plain
TC-12R	12" Cone Reflector
TC-18	18" Cone Plain
TC-18R	18" Cone Reflector
TC-28	28" Cone Plain
TC-28R	28" Cone Reflector
TC-36	36" Cone Plain
TC-36R	36" Cone Reflector
NAVIGATOR CONE	42" Navigator Cone

SAFETY PRODUCTS

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JOBSITE SAFETY

BARGARD® PROTECTOR CAPS

BARGARD® caps are not designed or intended to provide impact or impalement protection. They are not a substitute for covering vertical reinforcing steel with timber, as recommended by OSHA, and are not recommended for use when protection from falls is required. For additional information on acceptable methods of guarding against impact or impalement, consult OSHA CFR TITLE 29, PART 19120, ANSI A10.9-1983, and your state regulations for specific requirements.

3011839

BARGARD® DISC-10 PROTECTOR CAPS

- Fits rebar #3-7, 3/8" to 7/8" diameter
- Lightweight and chemical resistant
- Stands up to weather and temperature conditions
- Bright orange for visibility



BARGARD® A-20 PROTECTOR CAPS

- Fits rebar 1" to 2-1/4"

3005545: A-20, Lime rebar cap
3005546: A-20, White rebar cap



3005543

BARGARD® A-10 PROTECTOR CAPS

- Fits rebar 3/8" to 1-1/4" diameter
- Also fits inside 1-3/4" ID pipe
- Standard package 100 and 300
- BarGards available in Lime Color Only



PARAGON PRODUCTS

The Best Solution For Covering Open Holes



Safety orange color for easy recognition!

Don't risk an accident...



Safely cover up holes.

HOLE-IN-ONE COVERS

- Prevents accidents and injuries
- Saves time and money
- Reusable / portable
- Sawing, pre-drilling or bolting unnecessary
- Won't damage concrete
- Assembly hardware included
- Only two screwdrivers necessary
- Assembles and removes in seconds
- Beveled edges prevent tripping

1202-4491:
7" Hole-In-One Cover
(Fits 2"-5" Holes)

1202-4490:
15" Hole-In-One Cover
(Fits 4"-12" Holes)

TYPE 1 5 GALLON SAFETY CANS

Eagle galvanized Type I cans meet OSHA requirements and most are either Factory Mutual (FM) approved or listed by Underwriters Laboratories, Inc. (UL). Eagle Safety Containers are manufactured to exacting standards, reflecting sophisticated technology and superior workmanship. Eagle cans feature Lead Free Technology, constructed of 24-gauge hot dipped galvanized steel.



UI-50-S GAS



UI-50-SY DIESEL



UI-50-SB KEROSENE



Various Other Sizes And Styles Of Safety Cans And Funnels Are Also Available. Ask Your Newman Representative.



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FIRE EXTINGUISHERS



Kidde Fire Fighting

**We Provide
Fire Extinguisher
Inspection And
Recharging Services**

**Be Sure To Ask Your
Newman Representative**

Pro Line™
KI466227K

Pro Line™
KI466112K

Pro Line™
KI466204K

Pro Line™
KI466206K

PRO LINE™ EXTINGUISHERS FEATURE METAL VALVES AND STEEL CYLINDERS AND ARE SUITABLE FOR STANDARD INDUSTRIAL APPLICATIONS.

CAT. NO.	DESCRIPTION	SHIP WT.	UNIT HT.	UNIT WIDTH	SHELL DIA.	RATING
KI466227K	2-1/2 lbs. Pro Line™ with Wall Hook	4-1/5 lbs.	15"	5-1/3"	3-1/2"	1A:10B:C
KI466112K	5 lbs. Pro Line™ with Wall Hook	8-1/2 lbs.	16"	7-4/5"	4-1/2"	3A:40B:C
KI466204K	10 lbs. Pro Line™ with Wall Hook	19-1/2 lbs.	21-1/5"	8-1/5"	5-1/10"	4A:60B:C
KI466206K	20 lbs. Pro Line™ with Wall Hook	30-2/5 lbs.	21-3/5"	8-1/3"	7"	10A:80B:C

FIRE EXTINGUISHER ACCESSORIES



WB-20 FIRE GUARD PORTABLE FIRE EXTINGUISHER STAND

- Heavy Duty Weighted Stand & Cabinet
- Reduces Vandalism & Theft
- Portable & Stackable
- Cannot Rust, Will Not Fade
- Breakaway Panel-No Glass to Shatter
- Cylinder Lock
- Lightweight - 30 lbs.
- Reusable - Again & Again
- Optional Battery Operated Alarm



**Strike First
Corporation
of America**



FS-EXTING

OSHA REQUIREMENTS
Fire fighting equipment must be freely accessible at all times, placed in a conspicuous location and well maintained



HOLDER

CATALOG NO.	DESCRIPTION
FS-EXTING	Fire Extinguisher Sign
HOLDER	20 lb. Fire Extinguisher Holder
WB-20	Fire Extinguisher Stand

SAFETY
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CORDLESS TOOLS

Makita
INDUSTRIAL POWER TOOLS

6339DWDE

14.4V 1/2" MXT™ DRIVER-DRILL KIT

- Shift-Lock™ drive system quickly shifts from "drill" to "driver" mode with one touch
- Two-piece ND-31 motor with dual ball bearing for longer motor life
- Ergonomic rubberized grip for comfort and control
- Exclusive refined rare earth magnet produces maximum power
- Two-piece armature and field allows greater serviceability
- 3-Speed design produces 25% faster working speed
- Externally accessible brushes for serviceability and longer motor life
- Locking ratcheting chuck securely grips all bits
- Includes: (2) Battery 1434, Universal charger, Phillips/slotted bit, Side handle, Keyless chuck, Battery cover and Plastic tool case



BDF452HW

18V COMPACT LITHIUM-ION 1/2" DRIVER DRILL KIT

**COMPACT.
LITHIUM-ION
18V POWER.**

- Lithium-Ion battery with the best power-to-weight ratio at 450 in. lbs. of torque
- More compact design at only 8" long and weighs only 3.5 lbs.
- Batteries charge 4X faster in only 15 minutes
- 15-minute Rapid Optimum Charger and battery communicates throughout the charging process using the built-in chip in the battery and built-in CPU chip in the charger. The Charger also uses "Active 3 Control" for current control, thermal control and voltage control
- Built-in LED light illuminates the work area
- Accepts all Lithium-Ion slide-style batteries
- Includes: (2) Compact Lithium-Ion batteries, 15-minute Rapid Charger and Tool case



8444DWDE

18V 1/2" MXT™ HAMMER DRIVER-DRILL KIT

- Powerfull 18V (2.6Ah) Ni-MH battery
- Two-piece ND-31 motor with dual ball bearing for longer motor life
- 16 torque settings • Delivers up to 560 in.lbs. of maximum torque
- Externally accessible brushes for serviceability and longer motor life
- Shift-Lock™ drive system shifts from "hammer drill" to "driver" mode with one touch
- Ergonomic rubberized grip for comfort and control
- Exclusive refined rare earth magnet produces maximum power
- Two-piece armature and field allows greater serviceability
- 3-Speed design produces 25% faster working speed
- Includes: (2) Battery 1834, Universal charger, Phillips/slotted bit, Side handle, Keyless chuck, Battery cover and Plastic tool case



CORDLESS TOOLS



6980FDWDE 12V IMPACT DRIVER

- Powerful efficient impacting 92.5 ft.lbs. (1,110 in.lbs.) for industrial applications
- Impact resistant magnesium alloy gear case provides increased durability
- Efficient impacts per minute (0 - 3,200 IPM)
- True variable speed for smooth increase in speed and complete control
- Powerful (2.6Ah) Ni-MH battery
- Light Up Your Work Surface with High Output LED Power
- Two-piece D-28R motor with dual ball bearings and externally accessible brushes
- Ergonomically designed rubberized pistol grip for comfort and control
- Phosphorescent rubber bumper to locate tool in low light work areas
- Includes: (2) 2.6Ah (Ni-MH) Batteries 1234, Universal Charger, 2 ea. Battery Cover and Tool Case



6935FDWDEX 14.4V IMPACT DRIVER COMBO KIT

- Powerful efficient impacting at 0-3,200 IPM; 103.3 ft.lbs. /1,240 in.lbs.
- Impact resistant magnesium alloy gear case
- True variable speed for smooth increase 0-2,600 RPM
- Powerful (2.6Ah) Nickel-Metal Hydride (Ni-MH) battery
- Two-piece D-28R motor with dual ball bearings
- Externally accessible brushes for greater serviceability
- Built-in LED light illuminates work surface
- Phosphorescent rubber bumper to locate tool in low light
- Includes: (2) 2.6Ah (Ni-MH) batteries 1434, universal charger, 2 ea. battery cover and tool case



**KIT INCLUDES
CORDLESS DRIVER DRILL
AND JOB LIGHT!**

6936FD 18V IMPACT DRIVER

- Powerful efficient impacting at 0-2,600 IPM; 105 ft.lbs. /1,260 in.lbs.
- Impact resistant magnesium alloy gear case provides increased durability
- True variable speed for controlled fastening 0-2,600 RPM
- Powerful (2.6Ah) Nickel-Metal Hydride (Ni-MH) battery
- Phosphorescent rubber bumper to locate tool in low light
- Dual ball bearings and externally accessible brushes
- Ergonomically designed rubberized pistol grip and tool belt hook
- Includes: (2) 2.6Ah (Ni-MH) batteries 1834, universal charger, 2 ea. battery cover and tool case



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LXT LITHIUM-ION CORDLESS TOOLS



MORE POWER

Makita Built, 4-Pole Maximum Torque Motor delivers more efficient power in a compact size

BETTER FIT

Ergonomic shapes fit like a glove with even pressure and easy control

LESS WEIGHT

LXT Lithium-Ion Batteries weigh 40% less than leading professional cordless batteries in a compact design

MORE WORK

LXT Lithium-Ion battery and optimum charging system produces 280% total lifetime work with 2x more cycles. Experience longer run time, 5x lower self-discharge (for use any time) and 16 firm holding contact terminals for constant high power.



3
YEAR

WARRANTY



ALL LXT LITHIUM-ION CORDLESS TOOLS ARE BACKED BY MAKITA'S EXCLUSIVE 3 YEAR WARRANTY

ASK YOUR NEWMAN ASSOCIATES REPRESENTATIVE FOR MORE INFORMATION

BHR240

18V LXT LITHIUM-ION 7/8" SDS-PLUS ROTARY HAMMER KIT

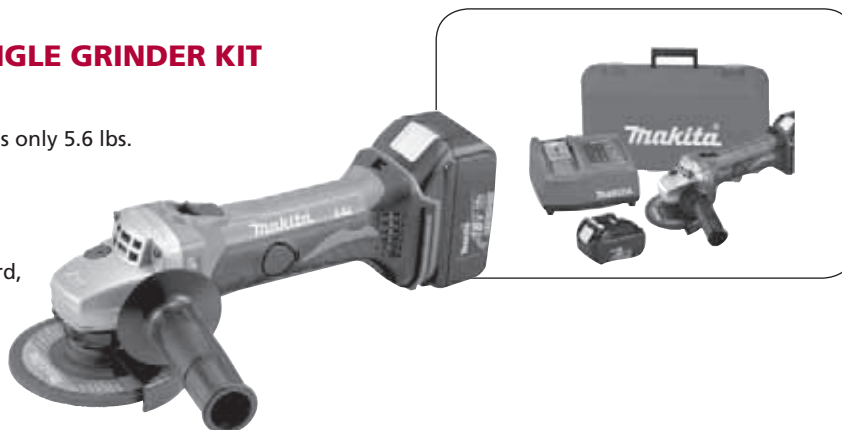
- 3-Mode Switch for rotation only, hammering with rotation, or hammering only
- 2x faster drilling with synchronized RPM and BPM
- Built-in torque limiter clutch disengages if bit jams
- Chisel rotates 360° with 40 different positions
- Compact design at 16-1/8" long and weighs only 7.1 lbs.
- 45-minute Optimum Charger and battery communicate throughout charging process
- Charger uses "Active 3 Control" for current control, thermal control & voltage control
- Includes: (2) LXT Lithium-Ion 3.0Ah batteries, 45-minute optimum charger and Tool case



BGA452

18V LXT LITHIUM-ION CUT-OFF/ANGLE GRINDER KIT

- Produces 50% faster grinding with 10,000 RPM
- Compact design at only 12-1/2" long and weighs only 5.6 lbs.
- Built-in electronic control circuit with L.E.D. warning lights for overload protection
- Slide switch with lock-on
- Includes: (2) LXT Lithium-Ion 3.0Ah batteries, 45-minute optimum charger, cut-off wheel guard, grinding wheel guard, grinding wheel, cut-off wheel and tool case





LXT LITHIUM-ION CORDLESS TOOLS



BJR181 **18V LXT LITHIUM-ION RECIPRO SAW**

- D35 high torque motor delivers 50% faster cutting
- 2,900 SPM; 1-1/8" length of stroke
- Compact design at only 19-5/8" length and weighs only 8.1 lbs.
- Two built-in L.E.D. lights for illuminated work
- One-handed tool-less blade changes and shoe adjustments
- Retractable sky hook for hanging on rafters
- Externally accessible brushes for serviceability
- Includes: (2) LXT Lithium-Ion 3.0Ah batteries, 45-minute optimum charger and blade



BPB180 **18V LXT LITHIUM-ION PORTABLE BAND SAW KIT**

- Adjustable foot protects material & provides positive support
- Compact design at only 20-5/8" long and weighs only 14.1 lbs.
- Two built-in L.E.D. lights with afterglow illuminate the line of cut
- Built-in skyhook and protective rubber bumpers
- Makita built motor delivers 50% faster cutting with 6-setting variable speed dial at 275-530 ft./min.
- Includes: (2) LXT Lithium-Ion 3.0Ah batteries, 45-minute optimum charger, blade and tool case



BSS501 **18V LXT LITHIUM-ION** **5-3/8" CIRCULAR TRIM SAW KIT**

- Compact and lightweight design delivers power that is easy to control
- 2" maximum cutting capacity enables cutting a 2 x 4 in one pass
- Built-in L.E.D. lights for more illuminated work
- Built-in dust blower enhances line of sight and keeps work piece clean
- 25 Minute Optimum Rapid Charger, charges faster to allow less down time
- Includes: General purpose 5-3/8" x 16T carbide-tipped circular saw blade, hex blade wrench #5, rip fence, (2) 18V LXT Lithium-Ion 3.0Ah batteries, 25-minute rapid optimum charger and plastic tool case



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LXT LITHIUM-ION CORDLESS TOOLS



BTD130FW **14.4V LXT LITHIUM-ION IMPACT DRIVER KIT**

- 0-2,400 RPM; 0-3,200 IPM
- 4-pole maximum torque motor delivers 1,240 in. lbs.
- Compact design at only 5-3/4" long and weighs only 3.1 lbs.
- Built-in L.E.D. light for more illuminated work
- 45-minute Optimum Charger has a built-in fan to cool the battery
- Electric brake for immediate stops and minimizes kickback
- 3-year warranty on tool and 1-year warranty on battery
- Includes: (2) LXT Lithium-Ion 3.0Ah Batteries, 45-min. Optimum Charger DC185C and Tool Case



BTD140 **18V LXT LITHIUM-ION IMPACT DRIVER KIT**

- 0-2,300 RPM; 0-3,200 IPM
- 4-pole maximum torque motor delivers 1,280 in. lbs. of efficient torque
- 5-3/4" length and weighs only 3.3 lbs.
- Built-in L.E.D. light for more illuminated work
- Proprietary hammer and anvil are made of highest quality steel and heat hardened
- Electric brake for immediate stops and minimizes kickback
- Includes: (2) LXT Lithium-Ion 3.0Ah batteries, 45-minute optimum charger and tool case



BDF451 **18V LXT LITHIUM-ION 1/2" DRIVER-DRILL KIT**

- 4-pole maximum torque motor delivers 560 in. lbs. of efficient torque
- Compact design at only 9-3/8" length and weighs only 4.6 lbs.
- Two built-in L.E.D. lights for more illuminated work
- 3-Speed design produces 25% faster working speed
- Externally accessible brushes for serviceability
- Includes: (2) LXT Lithium-Ion 3.0Ah batteries, 45-minute optimum charger, screwdriver bits and carrying case



BDF451
DRIVER-DRILL

BHP451
HAMMER
DRIVER DRILL

BHP451 **18V LXT LITHIUM-ION 1/2" HAMMER DRIVER-DRILL**

- Compact design at only 9-7/8" length and weighs only 4.9 lbs.
- Shift-Lock™ drive system quickly shifts from "hammer drill" to "driver" mode with one touch



LXT202 **18V LXT LITHIUM-ION 2-PIECE COMBO KIT**

Model BHP451 - 1/2" Hammer Driver-Drill (See tool features above)
 Model BTD140 - Impact Driver (See tool features above)
 Includes: (2) LXT Lithium-Ion 3.0Ah batteries, 45-minute optimum charger and Case

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LXT LITHIUM-ION CORDLESS COMBO KITS



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LXT401

18V LXT LITHIUM-ION 4-PIECE COMBO KIT

- **Model BHP451:** 1/2" Hammer Driver-Drill with new 4-pole motor for 560 in. lbs. of torque & weighs only 4.9 lbs.
- **Model BTDBSS610:** 6-1/2" Circular Saw has a D35 high torque motor, built-in blower and is 7.1 lbs.
- **Model BJR181:** Recipro Saw with tool-less blade changes & shoe adjustments, skyhook and 8.2 lbs.
- **Model BML185:** 4-Position Flashlight with Xenon bulbs runs 5 hrs.
- Includes: (2) LXT Lithium-Ion 3.0Ah batteries, 45-minute optimum charger and contractor bag



LXT407

18V LXT LITHIUM-ION 4-PIECE COMBO KIT

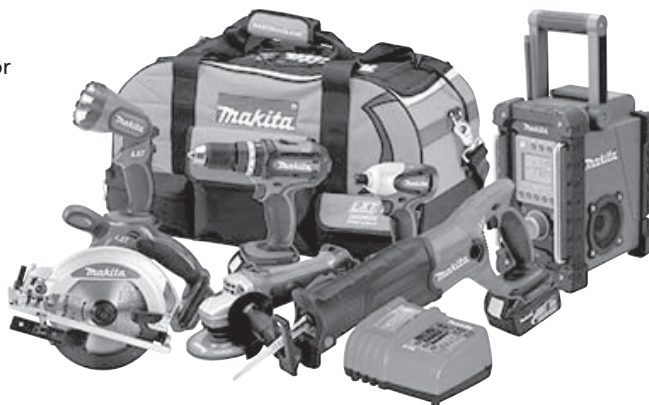
- **Model BHP452:** 1/2" Hammer Driver-Drill has a new 4-pole motor for 450 in. lbs. of torque & weighs only 3.9 lbs.
- **Model BTD140:** Impact Driver is 40% more compact, 1,280 in. lbs. of torque with 0-3,200 IPM and weighs 3.3 lbs .
- **Model BJR182:** Reciprocating Saw with tool-less blade changes & shoe adjustments, skyhook and 8.1 lbs.
- **Model BML185:** 4-Position Flashlight with Xenon bulbs runs 4.3 hrs.
- Includes: (2) LXT Lithium-Ion 3.0Ah batteries, 30-minute rapid charger and contractor bag



LXT700

18V LXT LITHIUM-ION 7-PIECE COMBO KIT

- **Model BHP452:** 1/2" Hammer Driver-Drill has a new 4-pole motor for 450 in. lbs. of torque and weighs only 3.9 lbs.
- **Model BSS610:** 6-1/2" Circular Saw has a D35 high torque motor, built-in blower and is 7.1 lbs.
- **Model BJR182:** Reciprocating Saw with tool-less blade changes and shoe adjustments at only 8.1 lbs.
- **Model BTD140:** Impact Driver is 40% more compact, 1,280 in.lbs. of torque with 0-3,200 IPM and is 3.3 lbs
- **Model BGA452:** 4-1/2" Cordless Cut-Off/Angle Grinder produces an impressive 10,000 RPM for 50% faster grinding
- **Model BMR100:** Rugged weather resistant FM/AM Job Site Radio delivers stereo sound from two powerful 3.25" side-firing drivers
- **Model BML185:** 4-Position Flashlight with Xenon bulbs runs 4.3 hrs.
- Includes: (2) LXT Lithium-Ion 3.0Ah batteries, 30-minute rapid charger, Contractor bag with wheels and telescoping handle





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CORDLESS TOOL CHARGERS AND BATTERIES



NI-MH /NI-CD CHARGER

PART #	DESCRIPTION	CELL TYPE	AMP HOUR	VOLTS	BATTERIES
DC1804	Universal Voltage	Ni-MH/Ni-Cd	1.3	7.2-18	See related battery

AUTOMOTIVE CHARGER

PART #	DESCRIPTION	CELL TYPE	AMP HOUR	VOLTS	BATTERIES
DC1822		Ni-MH/Ni-Cd	1.3-3.0	7.2-18	See related battery

ADVANCED NICKEL-METAL HYDRIDE BATTERIES

LONGER RUN-TIME

Ni-MH batteries have longer run-time than standard Nickel Cadmium (Ni-Cd) batteries

ENVIRONMENTALLY FRIENDLY

Ni-MH batteries are environmentally friendly

NO MEMORY

Makita rechargeable batteries have no "memory effect"

1/PKG PART #	2/PKG PART #	CELL TYPE	AMP HOUR	STYLE	BATTERY	CHARGERS
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12 VOLT BATTERIES

193157-5	—	Ni-MH	2.6	POD	1234	DC1804. DC245A. DC1822. DC1439
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14.4 VOLT BATTERIES

193158-3	194157-8	Ni-MH	2.6	POD	1434	DC1804, DC245A, DC1822, DC1439
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18 VOLT BATTERIES

193159-1	194158-6	Ni-MH	2.6	POD	1834	DC1804. DC245A. DC1822
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LXT LITHIUM-ION CHARGERS AND BATTERIES



LXT LITHIUM-ION OPTIMUM CHARGING SYSTEM

PART #	CELL TYPE	AMP HOUR	BATTERIES
DC18RA	LITHIUM ION	1.3-3.3	See related battery



18V LXT LITHIUM-ION BATTERIES

BUILT-IN MEMORY CHIP

Memorizes the usage history & communicates with the charger

LESS WEIGHT

Li-Ion battery weighs 40% less than Ni-MH or Ni-Cd

1/PKG PART #	2/PKG PART #	CELL TYPE	AMP HOUR	CHARGERS
BL1830	BL1830-2	LITHIUM ION	3.0	DC18SC

ANYTIME CHARGE

Lithium-Ion batteries have no memory effect and can be charged at any time

CHARGING TECHNOLOGY

Controls current, voltage & temperature to maximize battery life



CORDLESS TOOLS

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6539-6 2.4V SCREWDRIVER WITH BATTERY AND CHARGER

- 190 RPM, 2.4 Volt • Reversing, 6 position adjustable clutch
- 5 to 22 in.-lbs. of torque • Adjustable swivel handle for tight applications
- 12 volt automotive charger optional
- Includes: charger, two phillips bits and one slotted bit



9081-22 14.4V 1/4" HEX DRIVER KIT

- Delivering up to 740 in. lbs. of torque and 3,300 impacts per minute
- Light weight - Allows the user to work longer with less fatigue
- Easier to maneuver in tight spaces measuring at 7-1/2 inches in length
- Heavy-duty, die-cast, aluminum gear housing for extreme durability
- Milwaukee exclusive reversible battery pack feature allows the user the option of sliding the battery pack on the tool from two different directions
- Comfortable soft grip handle for improved ergonomics
- Includes: (2) 2.4 AMP-Hr. 14.4V batteries, universal charger and carrying case



6515-27 18V SAWZALL® RECIP SAW

- 18 Volt, 2.4 AMP-hr. Power-Plus battery
- 1" stroke length for aggressive cutting, 0-2000 strokes per minute
- Powerful 18 volt rare earth motor • Cuts up to 72 2x4's on a single charge
- Includes: 18 volt battery, one hour NiCd AC charger, carrying case and two super sawzall® blades



6310-22 18V 6-1/2" CIRCULAR SAW

- 3,200 RPM with electric brake
- Depth of Cut at 90° - 2-1/8" / Depth of Cut at 45° - 1-9/16" / Depth of Cut at 50° - 1-13/32"
- 6-1/2 in. blade easily cuts 2x material at 45 degrees • 2.4 amp.-hr. battery
- Includes: circular saw blade 6-1/2" 24 carbide teeth (1 per pack), 18 volt battery, one hour NiCd AC charger, rip fence kit, allen wrench and carrying case



0625-24 18V 1/2" LOK-TOR™ DRIVER-DRILL KIT

0627-24 18V 1/2" LOK-TOR™ HAMMER DRILL KIT 0-25,500 BPM

BOTH MODELS FEATURE:

- 0-500/0-1,700 RPM • Capacity: 1/2" Steel / 2-1/8" wood
- 495 in.-lbs. of maximum torque • 20 Clutch Settings
- Soft Grip Ergonomic Handle for improved comfort and control
- Patented Reversible Battery allows drill to fit in tight areas and optimizes balance while working overhead
- Clip-Lok™ Belt-Clip frees up both hands for work positioning
- Includes: insert bit no. 2 phillips 1/4", one hour NiCd AC charger, (2) 18 volt batteries, side handle and carrying case



0625-24
DRIVER-DRILL



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V18™ CORDLESS TOOLS



0920-29 V18™ 4 PACK COMBO KIT

- Model 0824-24: Hammer/Driver Drill providing 550 in-lbs of torque
- Model 0819-21: Sawzall® Reciprocating Saw with 0-2700 SPM
- Model 0830-22: 6-1/2" Circular Saw with 3200 RPM for fast, clean cuts
- Model 49-24-0165: Work Light with long lasting reliability
- Kit Includes: (2) 18V Li-ion batteries, 1-hour universal charger and carrying case

V28™ CORDLESS TOOLS



0724-24 V28™ 1/2" HAMMER-DRILL KIT

- 1/2" all-metal, single-sleeve, ratcheting chuck with all carbide jaws
- Enormous 600 in. lbs. of maximum torque and 0-600/0-1,800 rpm
- Comfortable non-slip, soft-grip handle reduces vibration and fatigue
- Exclusive Clip-Lok™ System attaches securely to belt or tool bags and easily releases with one hand
- Includes: (2) 28V batteries, one hour charger, carrying case, clip-lok™ system, side handle and no. 2 phillips bit



0779-22 V28™ 1/2" IMPACT WRENCH KIT

- Delivers 325 ft.lbs of maximum torque • Variable Speed: 0-1450 RPM, 0-2450 IPM
- Forward/Reverse shuttle is conveniently located • Hanger Bracket with solid steel ring
- Magnesium Gearcase for added durability and lighter weight
- Includes: (2) 28V batteries, one hour charger, carrying case, hanger bracket and quick change detent kit



0756-22 V28™ COMPACT 1" SDS ROTARY HAMMER KIT

- 28 Volt high power reversible motor delivers 4,700 BPM and 2.1 ft.-lbs. of impact energy
- Optimal drilling range in concrete is from 3/16" to 3/4"; 1" bit capacity and 2-1/2" thin wall core bit capacity
- Three operating modes - hammer drill, drill only, and chipping
- Soft-grip handle and two finger reversible trigger for maximum comfort
- Includes: (2) 28V batteries, one hour charger, carrying case, side handle and depth gauge

SAFETY PRODUCTS

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CORDLESS TOOL BATTERIES & CHARGERS



48-11-2230

18V, 2.4 AMP-HR. BATTERY

An 18 Volt 2.4 AH Battery for use with all MILWAUKEE 18 Volt Power Plus Driver Drills, Hammer Drills and Circular Saws. More powerful than the 2.0 AH battery for longer run times.



48-59-2818

18V-28V UNIVERSAL CHARGER

- Charges both Lithium-Ion and NiCd Milwaukee Batteries From 18V to 28V
- High visibility LED light displays charge status from across the room
- Charges Li-Ion Batteries in 1 hour or less
- Charges NiCd Batteries in 40 minutes or less
- Pass-Through Plug conserves valuable outlet space



48-11-2232

18V BATTERY VALUE PACK (2 PACK)

- 2.4 AMP hour capacity for longer run time
- Can face forward or in the reversed position for ultimate balance
- New, easy to operate release latches



V18™ AND V28™ LITHIUM-ION

48-11-1830

V18™ LITHIUM-ION BATTERY

- Up to 50% longer run-time with no memory effect
- Consistent "fade-free" power
- Superior cold weather performance which can be used down to -4°F (-20°C).
- Lightweight - 18V power with 14.4V NiCd Battery weight
- Battery requires Li-ion/NiCd Charger 48-59-2818
- Not for use with tools 1108, 3108, 5364, and 6516



48-11-2830

V28™ LITHIUM-ION BATTERY PACK

- Power the entire Milwaukee V28™ System of power tools
- Offers up to twice the run-time of an 18V NiCd or NiMH pack
- Lithium-Ion technology allows consistent fade-free power
- Can be charged at any time regardless of the pack's current charge level
- Fuel Gauge provides ideal way to check the state of the pack
- Born-on-date and performance optimizing circuit
- 2-year warranty



48-59-2818

18V-28V UNIVERSAL CHARGER

- Charges both Lithium-Ion And NiCd Milwaukee Batteries From 18V to 28V
- High visibility LED light displays charge status from across the room
- Charges Li-Ion Batteries in 1 hour or less
- Charges NiCd Batteries in 40 minutes or less
- Pass-Through Plug conserves valuable outlet space



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CORDLESS TOOLS**DEWALT®****DC385K
HEAVY-DUTY XRP™ 18V RECIPROCATING SAW KIT**

- 1-1/8" stroke length and 3,000 spm for faster cutting speed
- Compact and lightweight at 8.2 lbs.
- 4-position blade clamp allows for flush cutting and increased versatility
- Lever-action keyless blade clamp for quick and easy blade changes
- XRP™ extended run-time battery provides long run-time & battery life
- Pivoting adjustable shoe with open top for maximum visibility
- Variable speed with trigger lock for increased blade control
- Includes: 1 hour charger, 18V XRP™ battery, wood cutting reciprocating saw blade and heavy-duty kit box

**DC920KA
HEAVY-DUTY XRP™ 18V 1/2" DRILL / DRIVER KIT**

- 0-450/0-1,450/0-2,000 RPM
- High torque motor delivers 500 in-lbs of maximum torque
- Patented 3-speed transmission features a max 3rd speed at 2,000 rpm
- 1/2" metal ratcheting chuck with carbide jaws helps to prevent bits from slipping
- Includes: 1 hour charger, (2) 18V XRP™ batteries, 360° side handle and heavy-duty kit box

**DC925KA
HEAVY-DUTY XRP™ 18V
1/2" HAMMERDRILL / DRILL / DRIVER KIT**

- 0-450/0-1,450/0-2,000 RPM
- 1/2" ratcheting chuck lock with carbide jaws prevents bits from slipping
- Hammerdrill mode: 34,000 BPM in MAX 3rd speed drills faster holes in masonry
- Includes: 1 hour charger, two 18V XR+ PACK™ batteries, 60° side handle, and heavy-duty kit box

**DC390K
HEAVY-DUTY XRP™ 18V CIRCULAR SAW KIT**

- 3,700 RPM for fast rip cuts and cross cuts
- High strength magnesium shoe and upper guard
- 6-1/2" carbide tipped blade for 2x cutting capacity at 90° and 45°
- 0-50° bevel capacity provides additional capacity for a multitude of applications
- Fan-cooled motor with replaceable brushes for maximum power and durability
- Includes: 1 hour charger, XRP™ battery pack, 16 tooth-carbide saw blade, blade wrench,





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CORDLESS TOOL COMBO KITS



DC4PAKA HEAVY-DUTY 18V XRP™ HAMMERDRILL / CIRCULAR SAW / RECIPROCATING SAW / FLEXIBLE FLOODLIGHT COMBO KIT

Includes: DC925 XRP™ 18V 1/2" hammerdrill/drill/driver, DC390 XRP™ 18V circular saw, DC385 XRP™ 18V reciprocating saw, DW919 18V flexible floodlight, 1 hour charger, (2) 18V XRP™ batteries, 360° side handle, 16-tooth carbide tipped circular saw blade, circular saw rip fence and heavy-duty kit box

DC2PAKCA HEAVY-DUTY 18V XRP™ HAMMERDRILL / RECIPROCATING SAW COMBO KIT

Includes: DC925 XRP™ 18V 1/2" hammerdrill/drill/driver, DC385 XRP™ 18V reciprocating saw, 1 hour charger, (2) 18V XRP™ batteries, 360° side handle and heavy-duty kit box

CORDLESS TOOL BATTERIES & CHARGERS

DC9091 14.4V XRP™ BATTERY PACK

- Powers entire DEWALT® line of 14.4V tools allowing users to run multiple tools off of the same battery pack
- High capacity XRP™ battery has 40% more run-time than standard batteries



DC9096 18V XRP™ BATTERY PACK

- Powers entire DEWALT® line of 18V tools allowing users to run multiple tools off of the same battery pack
- High capacity XRP™ battery has 40% more run-time than standard batteries



DC9310 7.2V-18V NiCd/NiMH/Li-Ion 1 HOUR CHARGER

- Charges all DEWALT® 7.2V - 18V NiCd/NiMH/Li-Ion batteries (except Univolt batteries)
- Charges the battery in 1 hour or less
- The DEWALT® 3-stage charging system provides maximum run-time and extends overall life of the battery
- Diagnostics with LED indicator communicates battery charge status: charged, charging, power line problem, replace pack, and battery too hot or too cold



DC9319 7.2V-18V NiCd/NiMH/Li-Ion 1 HOUR VEHICLE CHARGER

- Charges all DEWALT® 7.2V - 18V NiCd/NiMH/Li-Ion batteries (except Univolt batteries)
- Charges in 1 hour or less from a vehicle's power outlet
- Conveniently charges batteries while driving or on a jobsite
- Automatic shut-off protects excessive discharge of vehicle's battery





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CIRCULAR SAWS



5007FK 7-1/4" CIRCULAR SAW WITH L.E.D. LIGHT

- Powerful 15 AMP AC/DC motor; 5,800 RPM
- On Board L.E.D. Light Illuminates the Line of Cut
- Bevel cuts 0-45° with a 45° cutting capacity of 1-3/4"
- Ball bearing construction for a longer tool life
- Conveniently located shaft lock for easy blade replacement
- Includes: 7-1/4" x 24T carbide-tipped MForce Blade, blade wrench #13, rip fence and plastic tool case

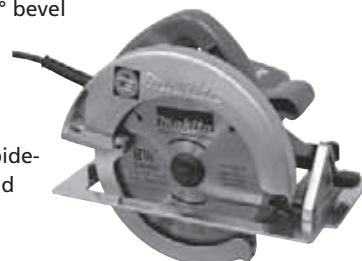


**Also Available:
Model 5007FAK**

Electric brake included

5008FA 8-1/4" CIRCULAR SAW

- Powerful 5,200 RPM, 15 AMP motor
- Two on board LED lights illuminate the line-of-cut
- Well balanced design for superior handling
- Electric brake stops blade quickly
- Bevel cuts 0-45° with a 45° bevel capacity of 2-1/4"
- Conveniently located shaft lock for easy blade replacement
- Includes: 8-1/4" x 24T carbide-tipped blade, rip fence and wrench



5201NA 10-1/4" CIRCULAR SAW

- 3,700 RPM; 12 AMP motor
- Electric brake for maximum productivity
- Cuts 3-3/4" at 90° and 2-1/2" at 45°
- Well balanced and lightweight (18.3 lbs.)
- Precision gearing with ball and needle bearing construction
- Rugged steel base for stability
- Includes: combination blade, rip fence, wrench for flange and wrench for bolt



5402NA 16-5/16" CIRCULAR SAW

- Powerful 2,200 RPM, 15 AMP motor delivers 1,800 max watts out
- Large Capacity for Beam and Timber Cutting
- Blade cuts 6-1/4" at 90° and 4-3/16" at 45°
- Weighs only 28.7 lbs. for ease of operation
- Electric brake for maximum productivity
- Low noise level at only 87dB for quiet operation
- Includes: 32 tooth carbide-tipped blade, hex wrench and rip fence



DW378G 7-1/4" HIGH TORQUE FRAMING SAW

- 15.0 amps
- Lightweight at 13.0 lbs.
- High strength die cast shoe
- Built-in "saw hook"
- 50° bevel capacity
- High torque bevel gear drive
- Carbide saw blade included



DW369CSK 7-1/4" LIGHTWEIGHT CIRCULAR SAW KIT

- 15 Amp, 2,200 W, 5,800 RPM
- High strength base will withstand a 1-story drop
- Electric brake stops blade after use
- 9.8 lb. lightweight tool reduces user fatigue
- 56° beveling capacity with stops at 45° and 22.5°
- Clear line of sight aids in blade visibility from any angle
- Includes: carbide-tipped blade, blade wrench and heavy-duty kit box





CIRCULAR SAWS

6390-21 Kit and 6391-21 Kit - Blade Left 7-1/4" TILT-LOK™ CIRCULAR SAW

- 15 amps, 3.25 peak horsepower motor
- Exclusive adjustable main handle
- Cushion front grip / rear handle
- Convenient bevel scale
- One-touch spindle lock
- MILWAUKEE® durability - steel helical gears, heavy duty armature, glass filled motor housing, aircraft aluminum shoe, extra tough cord set and 22 amp high capacity switch



6405-6 8-1/4" CIRCULAR SAW

- 15 amp motor, AC-DC; 5800 RPM
- Quick height and angle adjustment
- Spindle lock for fast blade changes
- Max. depth of cut: 2-3/4" at 90°, 2-1/8" at 45°
- Lower guard designed for smooth retraction
- All ball and roller bearings and hardened steel gears
- Includes: circular saw blade and 9/16" wrench



HD77 7-1/4" PIVOT DRIVE CIRCULAR SAW

- 13.0 Amps - 4,400 RPM
- Precision machined worm gears
- All ball bearings
- Oil pressure relief bellows prevents leaks
- Blade guard automatically retracts on a 45 degree cut
- Die cast aluminum motor and gear housings
- Large Latch type bevel and depth adjustments
- Heavy gauge rubber 8 foot 3-wire grounded cord



HD5860 8-1/4" WORM DRIVE CIRCULAR SAW

- 13.0 Amps - 4,300 RPM
- Diamond arbor
- Heavy depth scale
- Textured grip handles
- Precision machined worm gears
- SKIL exclusive 60° bevel feature allows acute angle cuts up to 60° in 2x stock in one pass
- 45° bevel detent for quick, precise settings
- AC/DC, double pole 20.0 amp switch
- Heavy gauge rubber 8 foot 3-wire grounded cord



METAL CUTTING CIRCULAR SAWS

4131 7-1/4" METAL CUTTING SAW



- Faster, Cleaner and More Efficient Metal Cutting
- Powerful 13 AMP motor; 3,500 RPM
- CERMET Tipped blade resist heat to outlast traditional carbide-tipped blades
- Virtually spark-free cuts with burr-free ends
- Effortless cutting through single or multiple metal pieces
- 2-1/2" maximum cutting capacity at 90°
- Includes: 36T CERMET tipped blade, hex wrench 5, wrench holder and safety goggles



6370-21 8" METAL CUTTING SAW KIT



- Powerful 13.0 AMP, 3,700 RPM motor
- Premium CERMET-tipped blades cut faster, cleaner and last longer
- 2-9/16" depth of cut at 90° for one-pass cuts through most materials
- Durable blade shield with integral chiptank deflects/collects hot chips and sparks
- Plunge lever for fast, effective plunge cuts
- Exclusive quick-release shield latch for fast waste disposal and blade changes
- Includes: hex blade wrench, circular saw blade and carrying case





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CIRCULAR SAW BLADES

ROCK CARBIDE™ NAIL CUTTING BLADE



BLADE FEATURES:

- Rock Carbide teeth provide maximum resistance for longer life
- Flush ground teeth and reinforced shoulder for enhanced durability
- Anti-stick rim reduces friction and gum-up
- Blade feature 5/8" arbor with diamond knock-out

BULK STOCK CAT. NUMBER	DESCRIPTION	DIAMETER	TEETH	HOOK ANGLE	PKG. QTY.
DW3591B10	Remodeling / Framing	7-1/4"	18	+15	10

SERIES 20™

Thin Kerf Carbide Tipped Blades

EACH BLADE FEATURES:

- Tougher tungsten carbide stays sharper longer
- Anti-stick coating reduces friction and gum-up
- Thin kerf for smoother cuts
- Ribbed heat vents allow blade to run cooler, reducing blade flexing and binding
- All blades feature 5/8" arbor with diamond knock-out

DW3592



DW3578



DW3576



BULK STOCK CAT. NUMBER	DESCRIPTION	DIAMETER	TEETH	HOOK ANGLE	PKG. QTY.
DW3592B10	Fast Cut Framing	7-1/4"	18	+15	10
DW3578B10	Framing	7-1/4"	24	+18	10
DW3576B10	Finishing	7-1/4"	36	+15	10

ABRASIVE SAW BLADES

- Constructed with two pieces of extra-strength fiberglass for long life
- Premium grain for added wheel life and speed of cut
- High quality resin bonds that are 100% inspected before use for product consistency and quality

DW3511



DW3521



CAT. NUMBER	DESCRIPTION	DIAMETER	EDGE THICKNESS	ARBOR SIZE	GRIT
DW3511	Metal Abrasive	7"	1/8"	5/8"-Diamond	A24R
DW3521	Concrete/ Masonry	7"	1/8"	5/8"-Diamond	C24R

MITER SAWS



LS1221

12" COMPOUND MITER SAW

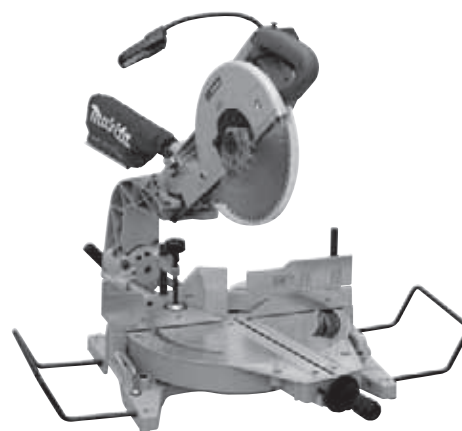
- Powerful 15 AMP motor delivers 4,000 RPM
- Large Cutting Capacity (3-7/8" x 6" at 90°)
- 4-1/2" tall pivoting fence for cutting up to 5-1/2" crown molding
- Positive stops at 9 settings; 15°, 22.5°, 31.6°, 45° right or left and 0°
- Horizontal D-handle design for easy and comfortable operation
- Pivoting fence for supporting larger stock
- Includes: carbide tipped blade, vertical vise, 2 ea. extension wing, socket wrench #13 and dust bag



LS1214F

12" DUAL SLIDE COMPOUND MITER SAW WITH FLUORESCENT LIGHT

- Powerful 15 AMP motor delivers 3,200 RPM
- Fluorescent light illuminates cutting edge with a bulb that lasts 2,000 hours on average
- Dual steel rails with linear ball bearings for accurate vibration-free cutting
- 9 positive stops at 15°, 22.5°, 31.6°, 45° left or right and 0°
- Bevel positive stops at 33.9° and 45° left with 45° right
- Electronic speed control provides for smooth cutting and soft startups
- Smooth easy slide system allows cross cuts up to 12-1/8" wide
- Large, easy to read scale for miter cuts up to 52° right and 47° left
- Includes: 12" x 70T carbide-tipped blade, vertical vise, 2 ea. extension wing, sub-fence, dust bag, socket wrench #13 and triangular rule



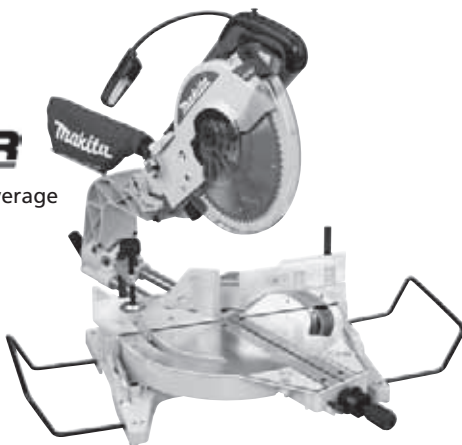
LS1214FL

12" DUAL SLIDE COMPOUND MITER SAW WITH LASER AND FLUORESCENT LIGHT

- Powerful, direct drive 15 AMP motor delivers 3,200 RPM
- Built-in high output fluorescent light illuminates work area and lasts 2,000 hours on average
- Laser clearly indicates line of cut with micro fine adjustments
- Dual steel rails with linear ball bearings for stable, accurate and vibration-free cutting
- 9 positive stops at 15°, 22.5°, 31.6°, 45° left or right and 0°
- Bevel positive stops at 33.9° and 45° left with 45° right
- Electronic speed control provides for smooth cutting and soft startups
- Single cast aluminum base has built-in wrench storage for operator convenience
- Long slide track and wide pivot angle allows cross cuts up to 4 x 12 material
- Large turn base and adjustable pivot fence for supporting larger stock
- Includes: 12" x 70T carbide-tipped blade, vertical vise, dust bag, 2 ea. extension wing, sub-fence, triangular rule and socket wrench #13



LASER





(800) 733-0089 • (781) 329-4000 • FAX: (781) 326-4757

MITER SAWS



LS1013F 10" DUAL SLIDE COMPOUND MITER SAW WITH FLUORESCENT LIGHT

- Powerful 15 AMP motor delivers 3,700 RPM
- Fluorescent light illuminates cutting edge with a bulb that lasts 2,000 hours on average
- Miter cuts 52° right and 47° left with 9 positive stops at 15°, 22.5°, 31.6°, 45° left or right and 0°
- Dual steel rails with linear ball bearings for accurate vibration-free cutting
- Smooth cutting and startups with electronic speed control
- Easy slide system allows cross cuts up to 12" wide
- Includes: 10" x 70T MakBlade Plus®, vertical vise, 2 ea. extension wing, dust bag, socket wrench #13 and triangular rule



LS1013FL 10" DUAL SLIDE COMPOUND MITER SAW WITH LASER AND FLUORESCENT LIGHT

- Powerful direct drive 15 AMP motor; 3,700 No Load RPM
- Built-in high output fluorescent light illuminates work area and lasts 2,000 hours on average
- Laser clearly indicates line of cut with micro fine adjustments
- 9 positive stops at 15°, 22.5°, 31.6°, 45° left or right and 0°
- Bevel positive stops at 33.9° and 45° left with 45° right
- Dual steel rails with dual linear ball bearings for accurate vibration-free cutting
- Smooth cutting and startups with electronic speed control
- Smooth easy slide system allows cross cuts up to 4 x 12 material
- Includes: 10" x 70T carbide-tipped blade, vertical vise, dust bag, 2 ea. extension wing, triangular rule and socket wrench #13



LASER



TENRYU

**SEE PAGES
43 AND 44**

THE AREAS
LARGEST STOCK
OF REPLACEMENT BLADES

NEWMAN ASSOCIATES
THE CONSTRUCTION SUPPLY SPECIALIST . . . WHERE SERVICE COMES FIRST



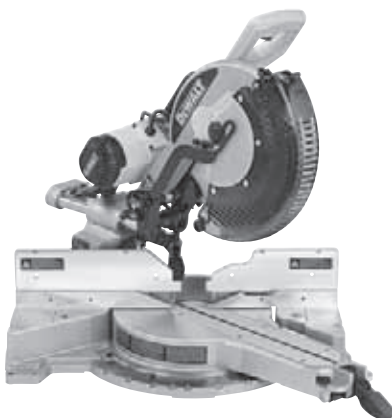
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MITER SAWS



DW715 12" SINGLE-BEVEL COMPOUND MITER SAW

- Powerful 15 Amp motor; 4,000 RPM
- Stainless steel miter detent plate with 11 positive stops
- Tall sliding fence supports crown molding up to 5-1/4" nested
- Bevel Stops at 0°, 33.9°, 45° and 48°
- Bevels 0°-48° to the left and 0°-3° to the right
- 0°-50° left and right miter capacity
- Includes: carbide blade, extension kit, dust bag and blade wrench



DW718 12" DOUBLE-BEVEL SLIDING COMPOUND MITER SAW

- Powerful 15 Amp motor; 3,600 RPM
- Stainless steel miter detent plate with 10 positive stops
- Tall sliding fences support crown molding up to 6-5/8" nested
- Innovative gearbox and belt-drive design
- Double bevel design bevels left and right 0° - 48°
- Positive stops at 0°, 22.5°, 33.9° and 45° - both directions
- Miters 60° to the left and 50° to the right
- Includes: carbide blade, blade wrench, dust bag and vertical material clamp

MITER SAW STAND



DW723 MITER SAW STAND

- Universal design works with all brands of miter saws
- Lightweight aluminum construction (33 lbs.)
- 5-1/2' beam extends to support up to 16 ft. of material and up to 400 lbs.
- Legs provide superior support and fold for easy storage
- Work stops/supports can be repositioned quickly anywhere along the rail
- Non-marring feet on tool mount will not scratch material
- Includes: (2) convertible work supports/stops



SAFETY
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TOOLS &
ACCESSORIES

CONTRACTOR
SUPPLIES

HANGERS
& STRUT

FASTENERS &
THREADED ROD

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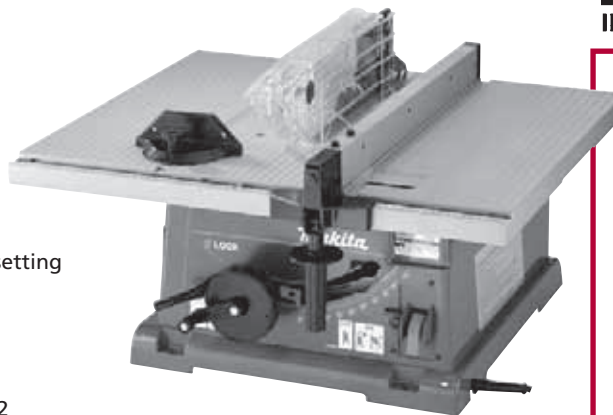
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TABLE SAWS

Makita
INDUSTRIAL POWER TOOLS

2703 10" TABLE SAW

- Weighs only 40 lbs. for easy transporting
- Powerful 15 AMP motor; 4,600 RPM
- Large 27" x 22" table
- Electric brake for maximum productivity
- Dead-on cam locking rip fence
- Large handle for quick and accurate depth setting
- Precise rack and pinion bevel adjustment
- Positive stops at 90° and 45°
- Rips 4x material on a single pass
- Includes: carbide tipped blade, rip fence, miter gauge, wrench #19 and wrench #13-22



**2703X1
INCLUDES STAND**
(192680-7)

**MAKITA PORTA-TABLE ACCESSORIES ARE AVAILABLE TO
CONVERT MODEL 2703 INTO A FULL SIZE TABLE SAW.
CONSULT YOUR NEWMAN REPRESENTATIVE TODAY!**

DEWALT

DW744X 10" PORTABLE TABLE SAW WITH STAND

- 3,650 RPM; 15.0 Amp motor
- 3-1/8" depth of cut at 90° and 2-1/4" at 45°
- Telescoping fence delivers 24-1/2" rip capacity
- Rack & pinion design makes fence adjustments fast, smooth & accurate ensuring that the fence is always parallel to the blade
- 26-1/2" x 19-1/4" table surface provides superior material support
- Telescoping rails retract within the saw top for easy portability
- Dust Collection Port easily connects to a vacuum for efficient dust extraction
- Includes 24-tooth SERIES 20™ carbide blade and stand



DW745 10" COMPACT JOB SITE TABLE SAW

- 15 Amp; 3,850 RPM motor quickly rips through hardwoods
- Rack & Pinion fence design for fast and accurate adjustment
- Telescoping fence rails retract to create a portable package
- 16" of rip easily cuts a variety of larger trim materials
- Durable metal roll cage base and adjustable rear feet
- Blade adjusts 0 - 45 degrees for bevel cuts
- Weighing only 45lbs. the DW745 can easily be moved
- Dust port allows for 2-1/2" vacuum hook up
- Includes: miter gauge, push stick, 10" 24t carbide blade, and blade guard





SAW BLADES

POWER TOOL SERIES

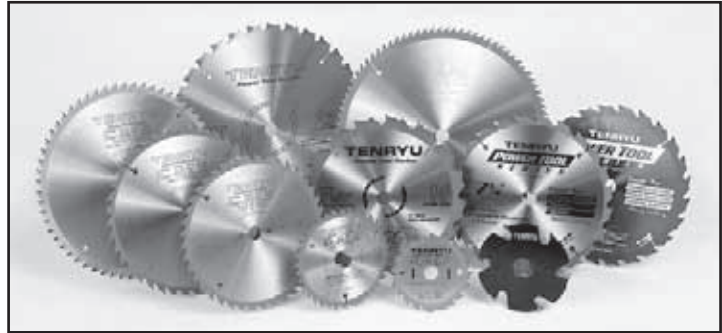
TENRYU

More variety, better quality and greater value.

Tenryu's Power Tool Series for the Contractor is a comprehensive line of blades for portable and stationary power tools.

BLADE FEATURES:

- Fully hardened, expertly tensioned tool steel bodies
- High-grade, C-3, fine-grain tungsten carbide tips resist erosion
- Aggressive rake angles for maximum cutting speed and efficiency
- Thin kerf for less waste and lighter cutting performance
- Can be resharpened for extended blade life.



MODEL #	DIA (INCH)	TEETH	ARBOR (INCH)	GRIND	KERF (INCH)	RAKE	APPLICATION
PT-11536	4-1/2	36	3/8	ATAF	.063	15	For clean and easy trim work on the Porter Cable trim saw.
PT-16524	6-1/2	24	5/8KO	ATB	.079	20	For woodworking on 6-1/2" corded saws. FAST!
PT-16540	6-1/2	40	5/8KO	ATB	.079	20	For finer cuts on corded 6-1/2" saws.
PT-18524-P	7-1/4	24	5/8KO	ATB	.070	20	BULLFROG. For pressure treated or wet lumber. URETHANE COATED.
PT-18540	7-1/4	40	5/8KO	ATB	.073	27	Spectacular INSERTED TOOTH finish blade.
PT-21018	8-1/4	18	5/8KO	ATB	.075	25	Fast cutting on table or circular saws. INSERTED TOOTH DESIGN.
PT-21040	8-1/4	40	5/8KO	ATB	.079	15	The tremendously popular blade for table or portable saws.
PT-21060	8-1/4	60	5/8KO	ATAF	.079	12	For fine cuts in wood with a table saw or circular saw.
PT-21660-1	8-1/2	60	5/8	ATAF	.079	5	A super performer on 8-1/2" miter saws.
PT-25550	10	50	5/8	ATAF	.091	15	INSERTED TEETH. For use on miter saws.
PT-30560	12	60	1	ATAF	.094	3	Thin kerf. Outstanding value. Excellent woodworking miter or radial arm saw blade for thick stock.
PT-30580	12	80	1	ATAF	.09"	5	Thin kerf. Fine cut-off blade for woodworking on miter or radial arm saws for medium stock.
PT-30524	12"	24	1	FTG	.134"	-8	Rescue blades for rescue squads & fire dept.
PT-35524	14"	24	1	FTG	.142"	-8	Fast cuts in wood, non-ferrous & sheet metal Rescue blades for rescue squads & fire dept. Fast cuts in wood, non-ferrous & sheet metal.



THE SILENCER SERIES

Smoother cuts, cleaner edges, quieter cutting and longer sharp-life.

BLADE FEATURES:

- New vibration dampening system featuring patented TENRYU resin bond filled laser cut body slots.
- Meticulous, hand hammer plate tensioning for a flatter blade and truer cuts

MODEL #	DIA (INCH)	TEETH	ARBOR (INCH)	GRIND	KERF (INCH)	RAKE	APPLICATION
SL-21660	8-1/2	60	5/8	ATAF	.079	5	Extra smooth cuts on 8-1/2" slide-miter saws
SL-25572	10	72	5/8	ATAF	.110	10	Extra smooth cuts in various thickness wood
SL-305100	12	100	1	ATAF	.110	5	Extra smooth cuts in various thickness wood

SAFETY PRODUCTS

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HANGERS & STRUT

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SAW BLADES

TENRYU

ALUMI-CUT



Tenryu's best value for your non-ferrous metal cutting needs.

Excellent results in aluminum, copper, brass and other non-ferrous metals.
Also good for woodworking and plastic cutting when needed.

BLADE FEATURES:

- Fully-hardened, expertly-tensioned tool steel bodies for true and accurate cuts
- Appropriate triple-chip grind pattern for non-ferrous metals
- Quality carbide ground to precision

MODEL #	DIA (INCH)	TEETH	ARBOR (INCH)	GRIND	KERF (INCH)	RAKE	APPLICATION
AC-21660D	8-1/2	60	5/8	TCG	.087	0	Non-ferrous for all 8-1/4" saws
AC-25580D	10	80	5/8	TCG	.094	0	Non-ferrous miter/RAS/table saws
AC-255100D	10	100	5/8	TCG	.094	0	Non-ferrous miter/RAS/table saws
AC-305100D	12	100	1	TCG	.110	0	Non-ferrous miter/RAS/table saws
AC-355100D	14	100	1	TCG	.118	0	Non-ferrous miter/RAS/table saws
AC-380100D	15	100	1	TCG	.118	0	Non-ferrous metal
AC-18560D*	7-1/4	60	5/8 KO	TCG	.079	0	Non-ferrous metal and also works in plastic

* Also for cutting laminated flooring such as Pergo®

RAPID-CUT



Tenryu's premium heavy duty multi-purpose blades.

BLADE FEATURES:

- Individually hand-hammered, fully heat hardened steel plates for flat, true, wobble-free operation
- Aggressive grind angles for easy performance in heavy-duty jobs.
Honing carried out at 400 grit to limit microchipping
- Large, high-grade carbide tips selected for long life in woodworking applications
- Ample side clearance provides for air flow between carbide and workpiece — limits likelihood of burning even in heavy rips

MODEL #	DIA (INCH)	TEETH	ARBOR (INCH)	GRIND	KERF (INCH)	RAKE	APPLICATION
RS-25540	10	40	5/8	ATAF	.118	15	For woodworking and economically priced
RS-25550-2	10	50	5/8	ATBR	.126	10	Super quiet planer combination blade
RS-25560D	10	60	5/8	TCG	.125	10	Durable in variety of wood materials and can rip

STEEL-PRO



Carbide-tipped saw blades cut steel faster, cleaner and easier. Save time, money and the environment.

EACH BLADE FEATURES:

- Super-flat plates and specially formulated carbide tips with a modified triple-chip grind give fast, clean cuts
- High quality cuts without the clouds of dust and scorch marks associated with friction blades
- Cool cuts that leave the workpiece edge free of burrs
- Reduced cost-per-cut and maximized performance for the operator as a result of fewer blade changes

MODEL #	DIA (INCH)	TEETH	ARBOR (INCH)	GRIND	KERF (INCH)	RAKE	APPLICATION
PRF-18536BWK	7-1/4	36	5/8" KO	MTCG	.079	0	Mild steel 1/8" to 1/4" thickness.
PRF-18548BWK	7-1/4	48	5/8" KO	MTCG	.079	0	Mild steel up to 1/8" thickness.
PRF-18548BW2	7-1/4	48	20mm	ATB	.079	0	Mild steel up to 1/8" thick. Fits Jancy, Evolution® Saw.
PRF-20348CBN	8	48	5/8	ATB	.087	0	For ferrous metal cutting. Genral application.
PRF-30560DS•	12	60	1	TCG	.094	0	Steel-Pro Select for low vibration cuts and less noise in mild steel.
PRF-35572DS•	14	72	1	TCG	.094	0	Steel-Pro Select for low vibration cuts and less noise in mild steel.

• These blades are for use on low RPM "dry-cut" chop saws only.

SAFETY PRODUCTS

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JIG SAWS AND JIG SAW BLADES



4341FCT BARREL HANDLE JIG SAW WITH L.E.D. LIGHT



- Powerful 6.3 AMP motor; lightweight (5.3 lbs.)
- Variable speed (800 - 2,800 SPM) for controlled cutting
- Built-in shock-proof L.E.D. light illuminates cutting edge
- "Tool-less" push-in lock system for fast blade changes
- Electronic speed control dial and soft start feature
- Accepts Tang shank blades
- 4-Position cut settings (3 orbital, 1 straight)
- Barrel grip design allows for closer to work cutting
- Includes: 2 ea. blade set, anti-splintering device, cover plate and plastic case



1587AVSK ORBITAL ACTION JIG SAW KIT



- Die-cast aluminum footplate includes steel insert
- Variable speed dial sets desired maximum speed
- Adjustable footplate tilts left and right up to 45° for bevel cutting
- Optional vacuum adapter kit includes clear plastic chip shield, vacuum adapter tube and footplate insert covers
- Includes: no-mar plastic footplate insert and plastic carrying case



DW331K HEAVY-DUTY VARIABLE SPEED TOP-HANDLE JIG SAW



- Powerful 6.5 Amp motor; 500-3,100 SPM
- 4-position orbital action
- Lever-action keyless blade change for fast, easy replacement
- Innovative flush cutting blade system for flush cuts without up cutting
- Integrated dust blower maintains visibility of cut line
- Non-marring shoe cover protects soft or glossy materials
- Includes: blades and heavy-duty carrying case

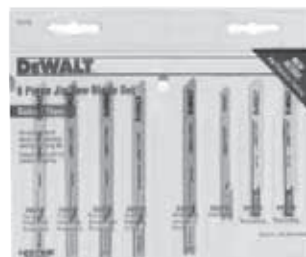
JIG SAW BLADES - 5 PACKS



CAT. NO.	LENGTH	TEETH / IN.	APPLICATION	SHANK
DW3700H	4"	6	FAST WOOD CUTTING HCS	U
DW3703H	4"	6	FAST, CLEAN WOOD CUTTING HCS	U
DW3705H	4"	8	ALUMINUM/FIBERGLASS HCS	U
DW3710H	4"	10	FINE FINISH WOOD CUTTING HCS	U
DW3712H	4"	10	DOWNCUTTING HCS	U
DW3715H	3"	12	SCROLLING HCS	U
DW3720-5	3"	14	THICK METAL CUTTING BIMETAL	U
DW3724-5	3"	18	MEDIUM METAL CUTTING BIMETAL	U
DW3726-5	3"	24	THIN METAL CUTTING BIMETAL	U
DW3728-5	3"	36	SHEET METAL CUTTING BIMETAL	U
DW3750H	4"	6	FAST WOOD CUTTING HCS	T
DW3753H	4"	6	FAST, CLEAN WOOD CUTTING HCS	T
DW3755H	4"	8	ALUMINUM/FIBERGLASS HCS	T
DW3760H	4"	10	FINE FINISH WOOD CUTTING HCS	T
DW3762H	4"	10	DOWNCUTTING HCS	T
DW3765H	3"	12	SCROLLING HCS	T
DW3770-5	3"	14	THICK METAL CUTTING BIMETAL	T
DW3774-5	3"	18	MEDIUM METAL CUTTING BIMETAL	T
DW3776-5	3"	24	THIN METAL CUTTING BIMETAL	T

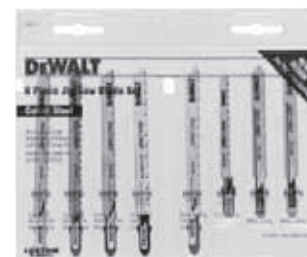
BI-METAL JIG SAW BLADE SETS

DW3790



8 PIECE U-SHANK

DW3791



8 PIECE T-SHANK



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PORTABLE BAND SAWS

Makita
INDUSTRIAL POWER TOOLS

2107F PORTABLE BAND SAW

- Large 4-3/4" x 4-3/4" Cutting Capacity
- Powerful 6.5 AMP motor delivers 200 - 350 ft./min. cutting speed
- Variable speed dial for setting maximum cutting speed
- Accepts standard 44-7/8" x 1/2" blade
- Includes: 1 ea. band saw blade, hex wrench and wrench holder



2107FK PORTABLE BAND SAW KIT

Includes: tool case

DEWALT

D28770K DEEP CUT VARIABLE SPEED BAND SAW KIT

- Lightweight and well-balanced design
- Powerful 6.0 Amp motor
- 4-3/4" deep cut capacity for round or rectangular stock
- Durable and adjustable material guide
- Speed control knob to adjust blade speed
- Ergonomic soft grip back handle • Integrated hang hook
- Includes: hex wrench, standard 44-7/8" x 1/2" x .020" blade and heavy-duty carrying case



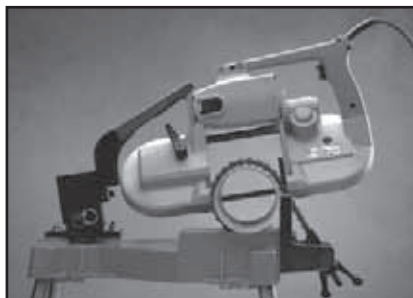
6230 DEEP CUT PORTABLE ELECTRIC BAND SAW

- Powerful 6.0 AMP; 120V AC only • Large 4-3/4" X 4-3/4" Capacity • Trigger speed control: 0-350 SFPM
- Open line of sight for more accurate cut • Uses Standard 44-7/8" X 1/2" X .020" Band Saw Blades
- Cuts pipes, bolts, rebar, angle iron, tracks and other profiles in a variety of materials
- High torque worm gear and chain drive mechanism is self-lubricated for maximum wear resistance
- Includes: one 14T Super-Tough® Bi-metal blade

Milwaukee



6232-6 - Model 6230 with impact resistant carrying case



48-08-0260 PORTABLE BAND SAW TABLE For All Milwaukee Band Saws

Converts Milwaukee's portable band saws to stationary units. Can be mounted on a work bench or used on the job with 3/4" diameter pipe for legs (not included). Heavy duty clamping chain and crank nut easily secures all shapes of material. Net weight 34 lbs.



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BI-METAL BAND SAW BLADES



10 TEETH/INCH	10/14 TEETH/INCH	14 TEETH/INCH	14/18 TEETH/INCH	18 TEETH/INCH	24 TEETH/INCH
FOR CUTTING STOCK 5/16" TO 1/2"*	FOR CUTTING STOCK 3/16" TO 1/2"*	FOR CUTTING STOCK 3/16" TO 5/16"*	FOR CUTTING STOCK 5/32" TO 5/16"*	FOR CUTTING STOCK 5/32" TO 3/16"*	FOR CUTTING STOCK UP TO 5/32"*

* REFER TO **RECOMMENDED USE** FOR TYPES OF BLADES.

BI-METAL MILWAUKEE SUPER TOUGH®

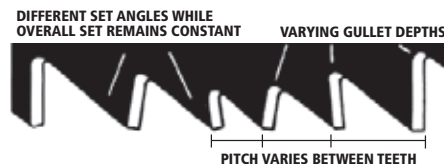
Bi-metal Blades outlast conventional blades up to 3 times, requiring fewer blade changes. Extremely hard and uniform tooth point is electron beam welded to a tough durable backing with high flex life for faster cutting, longer blade life.

BI-METAL MULTI-PITCH BLADES

designed with varying set angles and gullet depths to break up the harmonic vibrations generated in cutting, resulting in smoother, quieter cutting and longer blade life.

CATALOG NUMBER	QTY. / PKG.	DIAMETER OR WALL THICKNESS	TEETH / INCH	RECOMMENDED USE
48-39-0500	1	5/16" & UP	10	HIGH SPEED CUTTING
48-39-0501	3	5/16" & UP	10	OF ALUMINUM, ANGLE
48-39-0502	100	5/16" & UP	10	IRON, BRONZE, BRASS,
48-39-0510	1	3/16" - 5/16"	14	COPPER, GALVANIZED
48-39-0511	3	3/16" - 5/16"	14	PIPE, MILD STEEL.
48-39-0512	100	3/16" - 5/16"	14	TOUGHER STEELS
48-39-0520	1	5/32" - 3/16"	18	INCLUDING STAINLESS,
48-39-0521	3	5/32" - 3/16"	18	CHROME, TUNGSTEN
48-39-0522	100	5/32" - 3/16"	18	STEEL PLUS OTHER
48-39-0530	1	UP TO 5/32"	24	PROBLEM MATERIAL
48-39-0531	3	UP TO 5/32"	24	AT SLOW SPEED.
48-39-0532	100	UP TO 5/32"	24	

MULTI-PITCH BLADE DESIGN



CATALOG NUMBER	QTY. / PKG.	DIAMETER OR WALL THICKNESS	TEETH / INCH	RECOMMENDED USE
48-39-0500	1	3/16" - 1/2"	10/14	DESIGNED FOR INTERRUPTED CUTTING APPLICATIONS (TUBING, STRUCTURALS, ETC.) ALSO PRODUCTION CUTTING OF SOLIDS IN A VARIETY OF SIZES OR SHAPES.
48-39-0501	3	3/16" - 1/2"	10/14	
48-39-0502	100	3/16" - 1/2"	10/14	
48-39-0510	1	5/32" - 5/16"	14/18	
48-39-0511	3	5/32" - 5/16"	14/18	
48-39-0512	100	5/32" - 5/16"	14/18	



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We're Constantly Adding New Products To Our Inventory.
If You Need An Item That Is Not Listed In This Catalog

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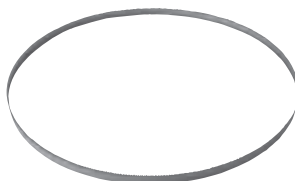
PORTABLE BAND SAW BLADES

LENOX®

THE MASTER-BAND® PREMIUM

portable saw blade standard which is .023 thick, has enhanced beam strength that reduces blade deflection and twist. Its 8% cobalt high speed cutting edge resists higher cutting temperatures.

An additional 30% in width of the tool steel tooth makes for stronger teeth and less tooth strippage on most difficult cutting applications.


3 PER PACK

Length x Width x Thickness Inches (mm)	Product Number	Teeth Per Inch (25mm)	Applications
3' 8-7/8" (44-7/8") x 1/2" x .023 1140 x 13 x .58mm	80114-38-EW-10/14	10/14	1/4" & larger
	80115-38-EW-14	14	3/16" – 3/8"
	80112-38-EW-14/18	14/18	1/8" – 5/16"
	80116-38-EW-18	18	3/32" – 1/4"
	80117-38-EW-24	24	up to 1/8"
3' 8-7/8" (44-7/8") x 1/2" x .025 1140 x 13 x .64mm	80143-385-EW-8/12	8/12	3/8" – 1/2"
	80144-385-EW-10/14	10/14	1/4" & larger
	80145-385-EW-14	14	3/16" – 3/8"
	80142-385-EW-14/18	14/18	1/8" – 5/16"
	82310-385-EW-18	18	3/32" – 1/4"
4' 5-3/4" (53-3/4") x 1/2" x .023 1365 x 13 x .58mm	80119-45-EW-10/14	10/14	1/4" & larger
	80120-45-EW-14	14	3/16" – 3/8"
	80123-45-EW-14/18	14/18	1/8" – 5/16"
	80121-45-EW-18	18	3/32" – 1/4"
	80122-45-EW-24	24	up to 1/8"
4' 5-3/4" (53-3/4") x 1/2" x .025 1365 x 13 x .64mm	80146-455-EW-10/14	10/14	1/4" & larger
	80147-455-EW-14/18	14/18	1/8" – 5/16"
4' 6" (54") x 1/2" x .025 1370 x 13 x .64mm	80148-54-EW-6/10	6/10	1/2" & larger
	80723-54-EW-8/12	8/12	3/8" – 1/2"
	80724-54-EW-10/14	10/14	1/4" & larger
	80141-54-EW-14/18	14/18	1/8" – 5/16"
	80150-54-EW-18	18	3/32" – 1/4"

Shaded areas indicate Tuff Tooth™

68040

ProTool LUBE®

Professional Lubricant Spray for Cutting Tools

- Unique synthetic emulsion
- Water-soluble
- Biodegradable, non-toxic

- Contains no silicone, chlorine or sulfur
- Contains rust & corrosion inhibitors
- Spray directly on tool edge

Can be applied to virtually any drilling operation or cutting tool: Vari-Bits®, drill bits, boring bits, augers, portable band saws, hole saws, Leaders®, reciprocating and jig saw blades, hand saws, circular saws and other cutting tools and accessories





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RECIPROCATING SAWS

JR3060T RECIPROCATING SAW



- Powerful 12 AMP motor; 0-2,800 SPM
- Variable speed for increased cutting efficiency
- Long 1-1/4" stroke for faster cutting
- All ball and needle bearings for longer tool life
- Tool-less blade change and shoe adjustment
- Externally accessible brushes for easy maintenance
- Includes: 1 ea. blade and plastic tool case

JR3070CT RECIPROCATING SAW



- Powerful 15 AMP motor; 0-2,800 SPM
- Electronic speed control maintains constant speed under load
- 4-position orbital/straight cutting action
- Variable speed dial for presetting maximum speed
- Unique clutch assembly helps protect the gears should the blade bind
- Long 1-1/4" stroke for faster cutting
- Tool-less blade change and shoe adjustment
- Includes: 1 ea. blade and plastic tool case



9748 VARIABLE-SPEED, DUAL ACTION QUIK-CHANGE® TIGER SAW® KIT

- Extra-heavy-duty 11.5 AMP motor
- Electronic variable speed, 0-2,600 SPM
- Full 1 1/8" cutting stroke length cuts more stock in less time
- Quik-Change® blade clamp for keyless blade changes
- Quik-Change® front shoe can be extended to utilize more of the blade's teeth
- Allows for orbital cutting in wood and reciprocating cutting in metal
- Includes: Heavy-duty case and operating manual.



PORTER-CABLE

Not sure which blade will get the job done?

We stock a variety of reciprocating saw blades from industry leaders. See pages 50 to 52.

Don't forget to protect your eyes!



For safety with style.

See Pages 6 to 8



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RECIPROCATING SAWS AND BLADES

DEWALT®

DW304PK RECIPROCATING SAW KIT



- Powerful 10 AMP Motor; 0-2,800 SPM
- 1-1/8" stroke length deliver fast cutting
- 4-position blade clamp allows for flush cutting
- Lever-action keyless blade clamp for quick blade changing
- Variable speed trigger provides improved control
- Includes: metal cutting blade and heavy-duty carrying case

DW311K RECIPROCATING SAW KIT



- 13 AMP; 0-2,700 SPM
- 1-1/8" stroke length for fast and efficient cutting
- Keyless blade clamp for quick and easy blade changes
- Keyless adjustable shoe easily adjusts depth of cut
- Variable speed control dial matches correct speed for the application
- Anti-slip comfort grip handle for increased comfort
- Includes: metal cutting blade and heavy-duty carrying case

WOOD CUTTING BLADES

- Reinforced tooth for increased durability when cutting through nails and other foreign objects
- +6 degree hook angle for fast, aggressive cuts
- Anti-stick coating minimizes friction and gum-up
- Raker tooth design increases tooth contact area for faster cuts
- 5 per pack

TAPER BACK



CAT. NO.	LENGTH	TEETH/IN.
DW4802	6"	6
DW4803	9"	6
DW4804	12"	6
DW4806	6"	10
DW4847	6"	5/8
DW4848	9"	5/8
DW4849	12"	5/8

STRAIGHT BACK



CAT. NO.	LENGTH	TEETH/IN.
DW4845	6"	10/14
DW4846	8"	10/14

DRYWALL / PLASTER CUTTING BLADES

- V-shaped tooth form reduces tearing of drywall or plaster
- Specially formulated anti-stick coating minimizes friction and gum-up
- Tough, flexible bi-metal design reduces blade breakage
- 5 per pack



CAT. NO.	LENGTH	TEETH/IN.
DW4851	6"	6

DEMOLITION BLADES

- Patented tooth design utilizes sharper tooth geometry for faster cut rates
- Aggressive shank angle increases tooth contact and maintains cutting speed as blade wears, delivering longer life
- Taller high speed steel strip (tallest in the industry) reduces breakage and maximizes tooth durability
- Specially formulated anti-stick coating minimizes friction and gum-up for smoother cuts



CAT. NO.	LENGTH	TEETH/IN.
DW4863	9"	6
DW4865	9"	10

METAL CUTTING BLADES

- Patented tooth design utilizes sharper tooth geometry for faster cut rates
- Aggressive shank angle increases tooth contact, maintaining cutting speed as blade wears for longer blade life.
- Specially formulated anti-stick coating minimizes friction and gumming

STRAIGHT BACK



CAT. NO.	LENGTH	TEETH/IN.
DW4808	6"	14
DW4809	8"	14
DW4811	6"	18
DW4813	6"	24
DW4821	8"	18



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RECIPROCATING SAWS AND BLADES

6509-22 HEAVY-DUTY SAWZALL® KIT

- 10 Amps • 0-2800 SPM • All ball and roller bearings
- Uses standard 1/2 in. shank Sawzall® blades
- Rubber boot for superior gripping • Easy access to pivot shoe adjusting screws
- Double bearing wobble plate mechanism for less vibration
- Includes: (2) Super Sawzall® blades, 8' two-wire rubber cord and impact resistant carrying case



6519-22 11 AMP SAWZALL® PLUS RECIP SAW

- Powerful 11 AMP, No Load 2,800 SPM • Gear protection system
- Heavy duty steel Quik-Lok® blade clamp system for easy blade changes
- Uses standard 1/2 in. shank Sawzall® Blades - blades may be clamped upside down for special cutting needs
- Keyless adjustable shoe • Includes: Impact resistant carrying case and Two Super Sawzall® Blades






6523-21 360° ROTATING HANDLE ORBITAL SUPER SAWZALL®

- 360° continuous rotating handle locks at 45° increments • Trigger can stay on while rotating
- High powered 13 amp motor for fast orbital cutting action
- Speed dial for repetitive cuts and counter balance for smoother operation with less vibration
- Quik-Lok® blade clamp and cord for easy field replacement
- Includes: Carrying Case and (2) Super Sawzall® Blades



HIGH PERFORMANCE SUPER SAWZALL® BLADES

THE AX BLADES			
CATALOG NO. 5 PACK	TEETH PER INCH	LENGTH X WIDTH X THICKNESS	RECOMMENDED FOR CUTTING:
48-00-5027	5/8	12 X 1.0 X .062	 DEMOLITION: WOOD AND NAIL EMBEDDED WOOD
48-00-5021	5/8	6 X	
48-00-502	5/8	9 X	
48-00-5026	5/8	12 X	
THE TORCH BLADES			
CATALOG NO. 5 PACK	TEETH PER INCH	LENGTH X WIDTH X THICKNESS	RECOMMENDED FOR CUTTING:
48-00-5782	14	6 X 1.0 X .042	 DEMOLITION, RESCUE AND REMODELING: METAL PIPE, CHANNELS, TUBING, ANGLE IRON UP TO 4", STEEL AND NAIL EMBEDDED WOOD
48-00-5787	14	9 X 1.0 X .042	
48-00-5784	18	6 X 1.0 X .042	
48-00-5788	18	9 X 1.0 X .042	
48-00-5789	18	12 X 1.0 X .042	
THE ICE EDGE BLADES			
CATALOG NO. 5 PACK	TEETH PER INCH	LENGTH X WIDTH X THICKNESS	RECOMMENDED FOR CUTTING:
48-00-4782	14	6 X	 DEMOLITION, RESCUE AND REMODELING: METAL 3/16" TO 1/4", CHANNELS, METAL PIPE AND CAST IRON
48-00-4787	14	9 X	
48-00-4784	18	6 X	
48-00-4788	18	9 X	



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RECIPROCATING SAW BLADES



5 PACK CATALOG NUMBER	25 PACK CATALOG NUMBER	LENGTH x WIDTH x THICKNESS (INCHES)	TEETH PER INCH	APPLICATION	SHAPE
20572-656R	20530-656R	6 x 3/4 x .050	6	Roughing-in work and nail-embedded wood -fast cutting - pipe, structural steel, stainless steel, non-ferrous metal: 3/16" and thicker	
20585-156R	20495-156R	12 x 3/4 x .050	6		
20582-956R	20558-956R	9 x 3/4 x .050	6		
20556-676RC	—	6 x 7/16 x .050	6	Contour cutting in all woods, nail-embedded wood and composition materials	
20560-606R	20492-606R	6 x 3/4 x .035	6	Fast cutting for wood, composition materials, plastics and non-ferrous metal	
20575-634R	—	6 x 3/4 x .050	4	Extra fast cutting in thick, nail-free wood	
20562-610R	20493-610R	6 x 3/4 x .035	10	Nail-embedded wood, composition materials and plastics - pipe, carbon steel, stainless steel: 1/8"-1/4"	
20580-810R	20590-810R	8 x 3/4 x .050	10		
20583-110R	20491-110R	12 x 3/4 x .050	10/14	Non-ferrous metal: 1/8"-1/2" thick	
20520-314RC	—	3-5/8 x 5/16 x .035	14	Contour cutting in wood < 3/4" thick and in metal 3/32"-5/16" thick	
20550-414R	20488-414R	4 x 3/4 x .035	14	Pipe, structural steel, stainless steel: 3/32"-1/4"	
20564-614R	20494-614R	6 x 3/4 x .035	14	Non-ferrous metal: 3/32"-3/8" - hard rubber	
20552-418R	20489-418R	4 x 3/4 x .035	18	Structural steel, pipe, conduit, stainless steel: 1/16"-3/16" thick	
20566-618R	20529-618R	6 x 3/4 x .035	18		
20578-818R	20487-818R	8 x 3/4 x .035	18		Non-ferrous metal: 1/16"-5/16"
21510-118R	21511-118R	12 x 3/4 x .035	18	Contour cutting in metal: 1/16"-1/8"	
20521-318RC	—	3-5/8 x 5/16 x .035	18		
20554-424R	20490-424R	4 x 3/4 x .035	24	All metals less than 1/8" thick - tubing, conduit, trim	
20568-624R	20496-624R	6 x 3/4 x .035	24		
20579-824R	—	8 x 3/4 x .035	24		
20449-456RP	—	4 x 3/4 x .050	6	For plaster, plaster board and lath bi-directional cutting	
20570-636RP	20497-636RP	6 x 3/4 x .050	6		
20577-850R	20534-850R	8 x 3/4 x .050	10/14	Heavy-duty - extended life when cutting pipe, structural steel and stainless steel - fire and rescue Stainless steel: 3/16"-3/4"	
20576-800RG	—	8 x 3/4 x .040	Med. Grit	Master-Grit™ Super hard cutting edge cuts through cast iron, fiberglass, ceramic tile, clay pipe, stone, brick, plaster and marble	



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CHOP SAWS / CUT-OFF SAWS

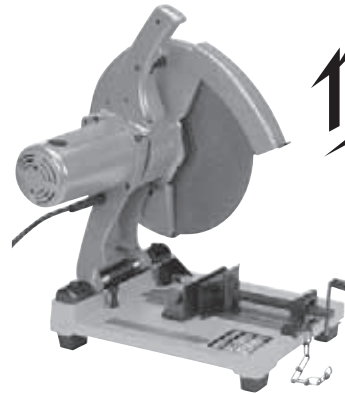


D28715 HEAVY-DUTY 14" CHOP SAW

- Powerful 15.0 Amp/5.5 max HP motor delivers 4,000 RPM
- Quick-Change Keyless Blade Change System
- Patented Quick-Fence™ tool-free, 45° adjustable fence
- Large cutting capacity (5" round / 4-1/2" x 6-1/2" rectangle)
- Quick-Lock vise allows for fast clamping on different size materials
- Soft start extends gear and motor life by reducing start up torque
- Includes: 14" abrasive wheel, blade change wrench, blade bolt and blade washer

6176-20 14" ABRASIVE CUT-OFF MACHINE

- 15 amp, 2400 watts/3.2 maximum horsepower power output
- 3900 RPM • Heavy-duty cast iron base
- Spindle lock for convenient changing of abrasive wheels
- Arm locks down for easy portability when moving this tool to the jobsite
- Includes: vise, abrasive wheel and hex wrench



6190-20 14" DRY-CUT MACHINE

- Powerful 15.0 Amp/4.8 max HP motor; 1,500 RPM
- Utilizes dry cut technology which cuts on average three times faster than an abrasive machine
- Produces little to no sparks when cutting and leaves a virtually burr-free finish
- Tool-free fence and vise system
- Heavy-duty cast aluminum base reinforced with a 1/4" steel plate
- Includes: 72 tooth blade and hex key

STATIONARY CUT-OFF WHEELS

CHOP SAW - PERFORMANCE LINE SG-ELASTIC

Steel
Very Soft Type - Hardness Grade K

Steel
Hard Type - Hardness Grade R



Multipurpose tool for abrasive cutting operations using stationary machines. Aggressive abrasive performance for fast cuts and very long tool life. Provides excellent cutting results on machines with up to 3 KW output.
Abrasive: Aluminum Oxide
PFERD Specification Number
 A 36 K SG-CHOP

Diameter (Inches)	Thickness (Inches)	Bore (Inches)	EDP No.	Max. RPM
12	3/32	1	64501	5,100
14	3/32	1	64502	4,400
16	1/8	1	64503	3,800

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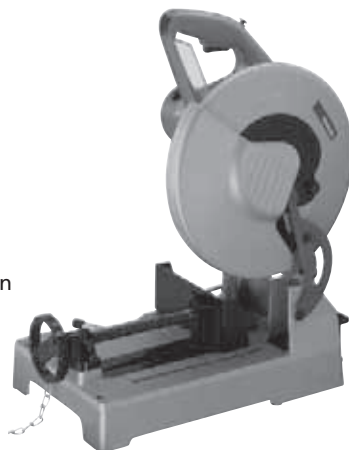
CHOP SAWS / CUT-OFF SAWS



LC1230

12" METAL CUTTING SAW

- 1,300 RPM; 15 Amp • D-shape handle for easy gripping
- Lock-off button prevents accidental starting
- "Tool-less" guide plate adjusts 0 - 45°
- Shaft lock for easy blade changes with just one wrench
- Maximum cutting depth of 4-1/2" with carbide tipped blade
- Includes: carbide tipped blade, socket wrench & switch button



2414NB

14" PORTABLE CUT-OFF SAW

- 3,800 RPM • D-shape handle for easy gripping • Lock-off button to prevent accidental starting
- Guide plate adjusts 45° right and left - 3 locations for various sizes of materials
- Quick release vise for secure stock retention and fast repeated cut-offs
- Includes: 1 ea. abrasive wheel, socket wrench, 2 ea. switch button

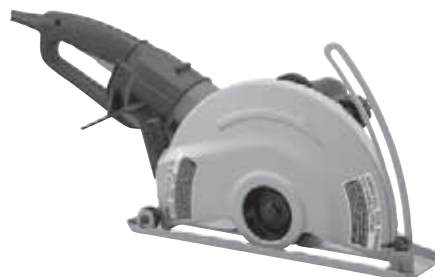


ANGLE CUTTERS

4112H

12" ANGLE CUTTER

- Powerful 15 AMP (AC/DC) motor delivers 5,000 RPM
- 4" cutting capacity with diamond blade or cut-off wheel
- Rubber shield helps keep debris away from operator
- Removable base for a closer edge-to-edge cut
- Guide wheels on the tool guard ensure smooth travel over surfaces
- Tool body position can be adjusted (0 - 80 degrees)
- Externally accessible brushes for greater serviceability
- Includes: tool case and socket wrench



4114

14" ANGLE CUTTER

- Powerful 15 AMP motor delivers 3,500 RPM
- 5" cutting capacity with diamond blade or cut-off wheel
- Built-in vacuum attachment port for removal of dust and debris
- Removable base for a closer edge-to-edge cut
- Guide wheels on the tool guard ensure smooth travel over surfaces
- Tool body position can be adjusted (0 - 80 degrees)
- Lock-on button for continuous operation
- Includes: socket wrench



GRINDERS / SANDERS



9557NB 4-1/2" ANGLE GRINDER

- 7.5 AMP motor; 11,000 no load RPM
- Labyrinth construction seals and protects the motor and bearings
- Small 2.5" circumference barrel grip for added comfort
- Rotatable gear housing rotates 90° for cutting applications
- AC/DC switch for use with alternative power sources
- Includes: 4-1/2" grinding wheel, wheel guard, lock nut, lock nut wrench, side handle and inner flange



9557PB 4-1/2" ANGLE GRINDER

- 7.5 AMP motor, with 10,000 no load RPM
- Small 2.5" circumference barrel grip for added comfort
- Labyrinth construction seals and protects the motor and bearings
- Rotatable gear housing rotates 90° for cutting applications
- AC/DC switch for use with alternative power sources
- Includes: 4-1/2" grinding wheel, wheel guard, lock nut, lock nut wrench, side handle and inner flange



9564CV 4-1/2" ANGLE GRINDER

- 5 stage variable speed control dial; 2,800 -10,500 RPM
- 12 AMP motor design for increased output in a compact tool
- Super Joint System (SJS) helps prevent gear damage
- Electronic limiter stops the motor to prevent burnout
- "Tool-less" wheel guard adjustment for easy clamping
- Labyrinth construction seals and protects the motor and bearings
- Includes: 4-1/2" grinding wheel, lock nut wrench, side handle, lock nut, inner flange and wheel guard



9565 5" ANGLE GRINDER

- Compact, 9.5 AMP motor with a 10,500 no load RPM
- Super Joint System (SJS) helps prevent gear damage
- Larger and improved carbon brush material for longer tool life
- "Tool-less" wheel guard adjustment for easy clamping
- Labyrinth construction seals and protects the motor and bearings
- Includes: 5" grinding wheel, wheel guard, lock nut, lock nut wrench, side handle and inner flange



9565CV 5" ANGLE GRINDER

- Compact, 12 AMP motor design
- 5 stage variable speed control (2,800-10,500 RPM)
- Super Joint System (SJS) helps prevent gear damage
- Larger and improved carbon brush material for longer tool life
- "Tool-less" wheel guard adjustment for easy clamping
- Labyrinth construction seals and protects the motor and bearings
- Includes: 5" grinding wheel, wheel guard, lock nut, lock nut wrench, side handle and inner flange



9566CV 6" INDUSTRIAL CUT-OFF/ANGLE GRINDER

- Compact, 12 AMP motor design
- 5 stage variable speed control (4,000 - 9,000 RPM)
- Super Joint System (SJS) helps prevent gear damage
- Larger and improved carbon brush material for longer tool life
- "Tool-less" wheel guard adjustment for easy clamping
- Labyrinth construction seals and protects the motor and bearings
- Includes: super thin cut-off wheel, lock nut wrench, side handle, inner flange and wheel guard





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GRINDERS / SANDERS

DEWALT®

D28402 HEAVY-DUTY 4-1/2" SMALL ANGLE GRINDER

- 10.0 AMP AC/DC - 11,000 RPM motor
- Dust Ejection System™ ejects dust particles that enter the tool
- Quick-change wheel release for easy wheel removal without a wrench
- Keyless adjustable guard and vibration reducing removable side handle
- Paddle switch lock-off provides the user protection from accidental start up
- Includes: 2-position side handle, depressed center wheel, keyless adjustable guard and wrench



D28144N HEAVY-DUTY 6" HIGH PERFORMANCE CUT-OFF/GRINDER

- 13.0 AMP / 2.3HP / 9,000 RPM DeWalt built G55 (AC) motor
- No-Lock On paddle switch prevents from locking the grinder on
- Dust Ejection System™ ejects damaging dust and debris particles
- Dual Clutch Protection™ prevents the gears from stripping in a wheel pinch/stall
- E-Clutch™ shuts the grinder off when a wheel pinch/stall occurs
- Power-Off™ Overload Protection shuts tool off before overload or burn-up
- Includes: 2-position side handle, Type 27 depressed center wheel, Type 27 keyless adjustable guard, Type 1 cutting wheel, Type 1 keyless adjustable guard and wrench



D28493N HEAVY-DUTY 9" ANGLE GRINDER

- High power 4 HP, 5,000 RPM motor with overload protection
- Keyless adjustable guard allows for guard adjustments without use of tools
- Low profile gearcase allows for work in tight areas
- Automatic turn-off brushes shut down the tool when brushes need replacement
- Low 5,000 RPM speed is optimal for sanding discs and specialty wheels
- 2 wire double insulated 'S' jacket rubber cord for increased durability
- Includes: 9" guard and 5 position side handle



BOSCH

1347A 4-1/2" SMALL ANGLE GRINDER

- 6.0 AMP, 120V AC; 11,000 RPM
- Lock-on/off switch for extended use applications
- Service Minder™ brushes stops tool when maintenance is required
- Spindle lock provides flexibility for mounting most accessories
- Double Insulated with 2-Position auxiliary handle
- Includes: guard, auxiliary handle, flange kit, spanner wrench and abrasive wheel



1853-6 7" / 9" LARGE ANGLE SANDER

- 15 AMPS, 120V AC/DC, 6,000 RPM
- Vibration Control side and main handles reduce vibration up to 60%
- Lock-on/off switch for extended use applications
- Epoxy-coated field windings provides ultimate protection against abrasive dust and metal debris
- Service Minder Brushes, stops tool when preventive maintenance is required
- Includes: vibration control auxiliary handle





GRINDERS / SANDERS

6140-6 4-1/2" SANDER/GRINDER

- 5.5 Amp, 3/4" H.P. motor • 10,000 RPM
- All ball and roller bearing construction
- Optimum speed range for various accessories including resin bonded abrasives, wire brushes, resin fiber discs and abrasive flap discs
- Cast aluminum gear housing with recessed spindle lock allows for fast and easy accessory change with single wrench operation
- Spiral bevel gears for optimum motor torque transfer and improved performance
- Includes: side handle, spanner wrench, grinding disc, Type 27 guard, back flange and flange nut

6148-6 4-1/2" MAGNUM® SANDER/GRINDER

- 8.5 AMP, 1.6 max HP Motor • 10,000 RPM, AC-DC
- Low profile, light weight and ideal for getting into tight spaces
- Spiral bevel gearing for performance and durability
- All ball and roller bearing construction
- Integrated lock-off button is featured in the paddle switch
- The side handle can be attached in three locations
- Tool-free adjustable wheel guard can be moved for greatest operator protection
- Used as a sander when a 4-1/2" backing pad and disc are attached
- Includes: guard, grinding wheel, side handle, flange, flange nut and spanner wrench

6160-20 6" RIGHT ANGLE GRINDER

- 11.0 AMP, 1.9 max HP motor • 120 Volt AC Only; 9000 RPM
- Tachometer feedback provides constant speed and power under load
- Overload protection helps prevent overheating and motor failures
- Soft start reduces start-up torque and improves motor and gear life
- Spiral bevel gearing for performance and durability
- Guards can be rotated in five positions without tools
- The side handle can be attached in three locations
- Includes: side handle, Type 27 guard, abrasive cutting wheel, back flange and flange nut

6065-6 7" / 9" SANDER

- 15 Amp, 3.5 HP motor • 5,000 RPM, AC-DC
- Spiral bevel gears for optimum motor torque transfer and improved performance
- Cast aluminum gear housing with recessed spindle lock allows for fast and easy accessory change with single wrench operation
- All ball and roller bearings construction
- Optimum speed range for various accessories including resin bonded abrasives, wire brushes, resin fiber discs and abrasive flap discs
- Includes: side handle, flange and nylon washer only

6066-6 • Same as 6056-6 except for 6,000 RPM, AC-DC





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SANDER / POLISHER



PW5001C 4" ELECTRONIC WET STONE POLISHER

- Powerful 7.9 AMP motor
- Soft-Start feature for smooth start-up, variable speed
- Pre-setting dial (2,000 - 4,000 RPM) for optimum speed
- High power-to-weight ratio for reduced operator fatigue
- 3 holes at the spindle top evenly spread water to the pad
- Overload switch to protect armature failure
- Includes: a ground fault circuit interrupter (GFCI) plug, head cover and wrench



9227CY 7" ELECTRONIC SANDER - POLISHER

- Variable speed (0-3,000 RPM) dial for maximum control; ideal for ultra slow polishing
- Pre-set speed setting dial (from 600-3,000 RPM) for maximum control
- Easily converts to a sander, side handle for horizontal work
- Fast and powerful polishing for clearcoat finishes
- Lock-on button for continuous use at one speed
- Includes: (1) sanding disc #50, rubber pad, lock nut, lock nut wrench and side handle



Picture shown with optional bonnet which requires optional Hook-and-Loop Pad (743052-5)

DIE GRINDER



GD0800C 1/4" DIE GRINDER

- Super Joint System (SJS) helps prevent gear damage
 - High Power 6.6 AMP Motor, 7,000 - 28,000 no load RPM
 - Slender double-neck die cast aluminum gear housing for easy handling
- Speed control dial for setting the optimal speed for various materials
- Includes: 1/4" collet cone, side handle, wrench #13 and wrench #19



See Die Grinder Wheels on Page 63.



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SURFACE PREPARATION BLADES



GW DRI DISCS®

Premium quality grinding tools with single row, double row or turbo segments. They provide fastest grinding and longest life.

MODEL NO.	DESCRIPTION	CAT. NO.	BLADE DIA.	SEGMENT THICKNESS
GW1	Single rim design for fast removal on concrete, masonry, stone and similar materials.	GW1-4	4"	.625"
		GW1-5	5"	.625"
		GW1-7	7"	.625"
GW2	Double rim design for long life and smooth finish on concrete, masonry, stone and similar materials.	GW2-4	4"	.625"
		GW2-5	5"	.625"
		GW2-7	7"	.625"
GW TURBO	Segmented turbo design for a faster and smoother finish on concrete, masonry, stone and similar materials.	GWTURBO-4	4"	.625"
		GWTURBO-5	5"	.625"
		GWTURBO-7	7"	.625"



LW DRI DISCS®

For fast grinding with extended life; faster material removal rates than abrasives with .200" segments. They provide fast grinding and long life at an economical price.

MODEL NO.	DESCRIPTION	CAT. NO.	BLADE DIA.	SEGMENT THICKNESS
LW1	Single rim design for fast removal on concrete, masonry, stone and similar materials.	LW1-4	4"	—
		LW1-7	7"	—
LW2	Double rim design for long life and smooth finish on concrete, masonry, stone and similar materials.	LW2-4	4"	—
		LW2-7	7"	—
LW TURBO	Segmented turbo design for a faster and smoother finish on concrete, masonry, stone and similar materials.	LWTURBO-4	4"	—
		LWTURBO-7	7"	—



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SMALL DIAMETER BLADES

Husqvarna



	MODEL NO.	BLADE DIA.	SEGMENT THICKNESS
BARRACUDA™ A continuous rim design blade for cutting almost any masonry, tile, stone or hard concrete material. Total Rim Height: .240" diamond depth on 4" to 7" blades and .275" on 8" to 10" blades.	58002	4.5"	.08"
	58004	4"	.08
	58083	8"	.095"
	58088	9"	.095"
	58091	5"	.08"
DT5+ TUCKPOINT BLADE A general purpose blade for small to medium size jobs. DT5+ soft bond is for fast mortar removal between brick and block. Laser welded narrow notched segment configuration with a diamond depth of .315".	542774592	4"	—
	542774593	4.5"	—
	542774594	5"	—
	542774595	7"	—
GOLD CRACK CHASING BLADE A general purpose blade that cleans, routs and repairs cracks in concrete and other materials. Fast cutting and long lasting blade with V-shape laser welded segments. Segment height of .32" and diamond depth of .25".	542776133	—	—

Safety Starts With Us - But Ends With You

Eye, Hearing and Respiratory Protection

See pages 6-10 for product information



3M





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REINFORCED GRINDING WHEELS

PFERD



DEPRESSED CENTER (TYPE 27)

UNIVERSAL LINE PS-FORTE

Steel/Cast Iron/Stainless Steel (INOX)
Soft Type - Hardness Grade L



General purpose grinding wheel for use on all metals.

Abrasive: Aluminum Oxide

Workpiece Materials
Steel, cast iron, stainless steel (INOX)

PFERD Specification Number
A 24 L PSF

PERFORMANCE LINE SG-ELASTIC

Stainless Steel (INOX)
Soft Type - Hardness Grade N-INOX



Special, long life grinding wheel for stainless steel and high temperature alloys.

Abrasive: Special Aluminum Oxide

Workpiece Materials
Stainless steel (INOX)

PFERD Specification Number
A 30 N SG-INOX

Diameter (Inches)	Thickness (Inches)	Arbor/Thread	EDP No.		Max. RPM
4	1/4	5/8	61000	10	15,300
4-1/2	1/4	7/8	61002	10	13,300
5	1/4	7/8	61003	10	12,200
6	1/4	7/8	61011	10	10,200
7	1/4	7/8	61004	10	8,600
9	1/4	7/8	61005	10	6,600
4-1/2	1/4	5/8-11	61001	10	13,300
5	1/4	5/8-11	61008	10	12,200
6	1/4	5/8-11	61012	10	10,200
7	1/4	5/8-11	61006	10	8,600
9	1/4	5/8-11	61007	10	6,600

Diameter (Inches)	Thickness (Inches)	Arbor/Thread	EDP No.		Max. RPM
4	1/4	3/8	61100	10	15,300
4	1/4	5/8	61103	10	15,300
4-1/2	1/8	7/8	61104	10	13,300
4-1/2	1/4	7/8	61105	10	13,300
5	1/4	7/8	61106	10	12,200
6	1/4	7/8	61107	10	10,200
7	1/4	7/8	61108	10	8,600
9	1/4	7/8	61109	10	6,600
4-1/2	1/8	5/8-11	61113	10	13,300
4-1/2	1/4	5/8-11	61114	10	13,300
5	1/4	5/8-11	61111	10	12,200
6	1/4	5/8-11	61116	10	10,200
7	1/4	5/8-11	61110	10	8,600
9	1/4	5/8-11	61112	10	6,600

PERFORMANCE LINE SG-ELASTIC

Masonry/Cast Iron
Soft Type - Hardness Grade N-INOX



For rough surface grinding of castings, and tough and hard aluminum

Abrasive: Silicon Carbide

Workpiece Materials
Cast iron, Casting scale, masonry

PFERD Specification Number
C 24 Q SG

Diameter (Inches)	Thickness (Inches)	Arbor/Thread	EDP No.		Max. RPM
4	1/4	5/8	61500	10	15,300
4-1/2	1/4	7/8	61501	10	13,300
5	1/4	7/8	61502	10	12,200
6	1/4	7/8	61503	10	10,200
7	1/4	7/8	61504	10	8,600
9	1/4	7/8	61505	10	6,600
4-1/2	1/4	5/8-11	61508	10	13,300
5	1/4	5/8-11	61509	10	12,200
6	1/4	5/8-11	61510	10	10,200
7	1/4	5/8-11	61506	10	8,600
9	1/4	5/8-11	61507	10	6,600

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CUT-OFF WHEELS

PFERD



DEPRESSED CENTER (TYPE 27)

Manufactured with heavy duty fiberglass reinforcement for superior strength and lateral stability, PFERD cut-off wheels conform to U.S. and international safety standards.

Choose 3/32" and 1/8" PFERD cut-off wheels for all cut-off needs on steels, aluminum, stainless and alloys, as well as a selection for masonry products. 3/32" provide an excellent balance of fast cutting rates with long service life.

PFERD INOX cut-off wheels are designed specifically for use on stainless steels and high temperature alloys. INOX wheels are manufactured without the use of iron, sulphur or chlorinated fillers, and will not contaminate stainless steel.

PERFORMANCE LINE SG-ELASTIC

Steel, Cast Iron

Hard Type - Hardness Grade S



Performance depressed center cut-off wheels for universal cutting use.

Abrasive: Aluminum Oxide

Workpiece Materials
Steel, cast iron

PFERD Specification Number
A 24/30/46 S SG

Diameter (Inches)	Thickness (Inches)	Arbor/Thread	EDP No.		Max. RPM
4	3/32	5/8	63102	25	15,300
4	1/8	3/8	63101	25	15,200
4-1/2	3/32	7/8	63103	25	13,300
4-1/2	1/8	7/8	63104	25	13,300
5	3/32	7/8	63105	25	12,200
5	1/8	7/8	63106	25	12,200
6	1/8	7/8	63107	25	10,200
7	1/8	7/8	63109	25	8,600
9	1/8	7/8	63111	25	6,600
4-1/2	3/32	5/8-11	63114	10	13,300
4-1/2	1/8	5/8-11	63115	10	13,300
5	3/32	5/8-11	63116	10	12,200
5	1/8	5/8-11	63117	10	12,200
6	1/8	5/8-11	63119	10	10,200
7	1/8	5/8-11	63112	10	8,600
9	1/8	5/8-11	63113	10	6,600

Diameter (Inches)	Thickness (Inches)	Arbor/Thread	EDP No.		Max. RPM
4-1/2	.045	7/8	63162	25	13,300
5	.045	7/8	63163	25	12,200
6	.045	7/8	63164	25	10,200
7	.045	7/8	63165	25	8,600

PERFORMANCE LINE SG-ELASTIC

Stainless Steel (INOX)

Hard Type - Hardness Grade R-INOX



High value, special thin cut-off wheel for stainless steel and high temperature alloys.

Abrasive: Aluminum Oxide

Workpiece Materials
Stainless steel (INOX)

PFERD Specification Number
A 46 R SG-INOX

Diameter (Inches)	Thickness (Inches)	Arbor/Thread	EDP No.		Max. RPM
4-1/2	.045	7/8	63167	25	13,300
5	.045	7/8	63168	25	12,200
6	.045	7/8	63169	25	10,200
7	.045	7/8	63170	25	8,600

SPECIAL/HIGH PERFORMANCE LINE SG-PLUS

Stainless Steel (INOX)

Hard Type - Hardness Grade S-INOX



Superior thin cut-off wheel for maximum performance

Abrasive: Aluminum Oxide

Workpiece Materials
Stainless steel (INOX)

PFERD Specification Number
A 46 S SGP-INOX

Diameter (Inches)	Thickness (Inches)	Arbor/Thread	EDP No.		Max. RPM
4-1/2	.030	7/8	63157	25	13,300
4-1/2	.045	7/8	63172	25	13,300
5	.030	7/8	63158	25	12,200
5	.045	7/8	63173	25	12,200
6	.045	7/8	63174	25	10,200
7	.045	7/8	63175	25	8,600



CUT-OFF WHEELS

PFERD



DIE GRINDER WHEELS – FLAT (TYPE 1) UNIVERSAL LINE PS-FORTE

PFERD thin cut-off wheels cut faster than conventional wheels, leaving a cleaner cut, with minimal burr.

Thin cut-off wheels are ideally suited for thin gauge sheet stock, thin walled tubing and small diameter cross sections. Material should always

be cut at a right angle to the work piece. Larger workpieces require thicker PFERD cut-off wheels (see previous page) for improved lateral stability.

Usage Tip:
.040 recommended for use on sheet stock gauges 19 and higher.

PFERD thin type 1 wheels are fully reinforced, and conform to U.S. safety standards as well as European safety standards which are more stringent than U.S. requirements.

Steel
Soft Type - Hardness Grade P



General purpose tool for use in hand-held cut-off work. Ideal for working in hard-to-reach areas or close quarters

Abrasive: Aluminum Oxide


Workpiece Materials
Steel

Application
Cutting of sheet metal, sections, and solid material

Recommendation for Use

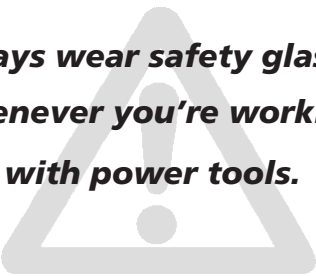
Thin cut-off wheels (1.0/1.6 mm) provide fast and convenient cutting with minimized burr formation. Fully reinforced for use in hand-held cut-off work. Ideal for working in hard-to-reach areas or close quarters.

PFERD Specification Number
A 46/60 P PSF

Diameter (Inches)	Thickness (Inches)	Bore (Inches)	Grit	EDP Number		Max. RPM
4	.040	5/8	60	69940	25	15,200
4-1/2	.040	7/8	60	69945	25	13,300
5	.040	7/8	60	69950	25	12,200
6	.040	7/8	60	69960	25	10,200
7	.040	7/8	60	69970	25	8,600

**Safety starts with us
but ends with you
Protect your eyes!**

**Always wear safety glasses
whenever you're working
with power tools.**



See Pages 6 to 8



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INDUSTRIAL POWER BRUSHES

PFERD

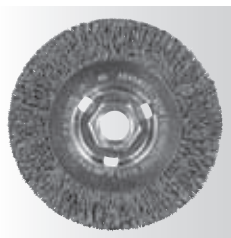

MINIGRINDER WHEELS

Industrial power brushes have been part of the PFERD range of tools for over 60 years. PFERD's line of ADVANCE Brand power and maintenance brushes are market leaders in quality and engineering excellence.

PFERD is pleased to offer a selection of the most widely used industrial power brushes in singular sales promotion self-service packs, featuring a clear plastic clamshell, enclosed information/safety sheet, and individual product labels.

These POP brushes are marked with a "P" in this catalog. To order brushes in POP version, simply add a "P" to the end of the standard 5-digit EDP number.

High Speed Mini Wheel Brushes - Crimped Wire



For weld cleaning, scale, rust, paint, adhesive and oxidation removal, cleaning, light deburring, and flash removal, etc.

Carbon Steel Wire

Diameter (Inches)	Thread Size	Wire Size	EDP No.		MSFS Max. RPM	
			Carbon Steel	Stainless Steel		
4	5/8-11	.014	82195 P		12,500	5/5
4	1/2-13	.014	82196 P		12,500	5/5
4	3/8-24	.014	82197 P		12,500	5/5
4	M10x1.50	.014	82198 P		12,500	5/5
4	M10x1.25	.014	82199 P		12,500	5/5
4	M14x2.0	.014	82200 P		12,500	5/5

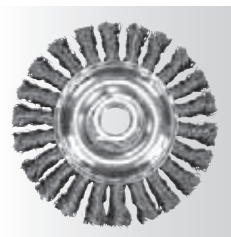
Standard Twist, COMBITWIST®



Innovative COMBITWIST® knot design dramatically improves brush performance over conventional standard twist knot styles. COMBITWIST® knots maintain their form longer, even when used on edges and in corners.

Diameter (Inches)	Thread Size	Wire Size	No. of Knots	EDP No.		MSFS Max. RPM	
				Carbon Steel	Stainless Steel		
4	5/8-11	.014	22	82383 P	82412	20,000	10/5
4	5/8-11	.020	22	82384 P	82413	20,000	10/5
5	5/8-11	.020	24	82680	82749	15,000	10
6	5/8-11	.014	33	82681	-	9,000	10
6	5/8-11	.016	33	82682	82752	9,000	10
6	5/8-11	.023	33	82683	82753	9,000	10

Full Cable Twist



Full cable twist knot wheel brushes with 5/8-11 threaded nut. Narrow face allows better control of surface contact area. Full cable twist is ideal for the toughest brushing applications where surface finish is a low priority.

Diameter (Inches)	Thread Size	Wire Size	No. of Knots	EDP No.		MSFS Max. RPM	
				Carbon Steel	Stainless Steel		
4	5/8-11	.014	22	82165 P	82295 P	20,000	10/5
4	5/8-11	.020	22	82166 P	82296	20,000	10/5
5	5/8-11	.023	24	82474 P	82599 P	15,000	10/5
6	5/8-11	.016	24	82475	82600	10,000	10
6	5/8-11	.016	30	82476 P	82601	10,000	10/5
6	5/8-11	.023	24	82477 P	82602	10,000	10/5
6	5/8-11	.023	30	82478 P	82603	10,000	10/5



INDUSTRIAL POWER BRUSHES



KNOT WHEELS

Stringer Bead Twist



Stringer bead twist knot wheel brushes are tightly twisted for low flex, high impact brushing action. Designed for root and hot pass weld cleaning in pipe joining applications, and for general use where a narrow face, aggressive brush is desired.

Diameter (Inches)	Thread Size	Wire Size	No. of Knots	EDP No.		MSFS Max. RPM	Box Qty
				Carbon Steel	Stainless Steel		
4	5/8-11	.020	32	82186 P	82307 P	20,000	10/5
4-7/8	5/8-11	.020	38	82479	82604	15,000	10
4-7/8	5/8-11	.020	48	82483 P	82608 P	15,000	10/5
4-7/8	7/8"	.020	48	82480	82605	15,000	10
4-7/8	M14x2.0	.020	38	82481	82606	15,000	10
4-7/8	M14x2.0	.020	48	82484 P	82609	15,000	10/5
6	5/8-11	.020	40	82486	82611	12,500	10
6	5/8-11	.020	48	82487 P	82612 P	12,500	10/5
6	5/8-11	.020	56	82488	82613	12,500	10
6	5/8-11	.020	64	82489	82614	12,500	10
6	M14x2.0	.020	56	82490	-	12,500	10
6-7/8	5/8-11	.020	56	82494 P	82619 P	9,000	10/5
6-7/8	5/8-11	.020	72	82495	82620	9,000	10

CUP BRUSHES

COMBITWIST® Knot Wire Cup Brushes - External Nut



Premium knot cup featuring maximum service life, improved balance and fastest removal rates.

COMBITWIST® knot design dramatically improves brush performance over conventional knot cups.

Diameter (Inches)	Thread Size	Wire Size	No. of Knots	EDP No.		MSFS Max. RPM	Box Qty
				Carbon Steel	Stainless Steel		
2-3/4	5/8-11	.014	1	82750 P	82855 P	14,000	5/5
2-3/4	5/8-11	.020	1	82751 P	82856 P	14,000	5/5
3-1/2	5/8-11	.014	1	82401	82430	12,500	1
3-1/2	5/8-11	.020	1	82402	82431	12,500	1
4	5/8-11	.014	1	82716	82789	9,000	1
4	5/8-11	.023	1	82717	82790	9,000	1
4	5/8-11	.035	1	82718	-	9,000	1
5	5/8-11	.014	1	82722	82793	7,000	1
5	5/8-11	.023	1	82723	82794	7,000	1
6	5/8-11	.014	1	82724	82795	6,000	1
6	5/8-11	.023	1	82725	82796	6,000	1
6	5/8-11	.035	1	82726	-	6,000	1

LARGE ORDERS or SMALL ORDERS...

Our Aim Is The Same - A Satisfied Customer



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SHEARS

Makita[®]
INDUSTRIAL POWER TOOLS

JS1300 18 GAUGE STRAIGHT SHEAR



- Powerful 6.5 AMP motor for continuous use in 18 gauge mild steel and 20 gauge stainless
- Pistol grip design for comfort and convenience
- Shear head attachment rotates 360°
- Large variable speed trigger switch for controlled cutting speed
- Lock-on button for continuous operation
- Includes: shear blade set and hex wrench

Milwaukee[®]

6852-20 18 GAUGE SHEAR, 120 AC



- 6.8 AMP Milwaukee motor, trigger speed control: 0-2,500 SPM
- 360° swivel head, with 18 gauge capacity in steel and 20 gauge stainless
- Ergonomic tactile grip for optimal user comfort
- 10 ft. flexible durable runner cord
- Includes: hex wrench

DEWALT[®]

D28605 HEAVY-DUTY 1/2" VARIABLE SPEED CEMENT SHEAR



- Powerful, 6.5 Amp, all ball-bearing motor for increased power and long life
- Head swivels 360° for added cutting convenience
- Variable speed for increased user control
- Reversible dual cutting edge side blades for longer cutting life and increased productivity
- Replaceable center and side blades for longer cutting life and increased productivity



**What you need -
where you need it...**

RAIN OR SHINE!

**RELIABLE DELIVERY SERVICE
FROM OUR WAREHOUSE TO YOUR JOBSITE**

NEWMAN ASSOCIATES
THE CONSTRUCTION SUPPLY SPECIALIST . . . WHERE SERVICE COMES FIRST

PLANERS

N1900B 3-1/4" PLANER KIT

- Redesigned 4 AMP motor with 15,000 No Load RPM
- 3-1/4" Planing Width and 1/32" Planing Depth
- Centerline balance with front and rear grips positioned for better control; helps eliminate gouging and uneven planing
- Lock-on button for continuous operation
- Precision machined aluminum base for planing accuracy
- Equipped with double-edged tungsten-carbide mini blades
- Includes: blade gauge assembly, socket wrench, guide rule, double-edged carbide blade set and plastic tool case



PC1100 4-3/8" WHEEL DIAMETER CONCRETE PLANER

- Powerful 8.5 AMP motor with 10,000 No Load RPM
- For Smooth Finishes on Concrete Surfaces or Leveling of Seams
- Dry cutting diamond wheel for planing without a water feeding system
- Front roller adjusts planing depth • Lock-on button for continuous operation
- Includes: diamond wheel, dust bag, lock nut wrench, screwdriver, lock nut and steel tool case



HEAT GUNS

HG1100 HEAT GUN

- Compact and Lightweight for Easy Handling
- Strips paint and varnish, thaws frozen metal pipes, loosens tile and putty, remelts adhesives and more
- Variable temperature control (250°- 1,100°F) for a wide variety of applications
- 2-speed blower setting (8 or 14 cfm)
- Thermocouple control maintains precise temperature
- Ceramic core protects the heating element for longer tool life



8975-6 HEAT GUN

- Cool air inlet design allows air movement at peak efficiency - even when resting on support stand
- Support stand enables heat gun to be stationary for workbench or assembly work - freeing both hands for use
- Rotate rearhousing to select temperature ranges 140°F - 1040°F
- 3 position rocker switch (off, high and low)
- Dual temperature 570°F and 1000°F



8980 DUAL TEMPERATURE HEAT GUN KIT

- 11.6 amp motor, 120 AC
- Dual Temperature 570° F and 1000° F
- Unique impact resistant heating element
- Three position rocker switch (off, high and low)
- Includes: heat gun accessory assortment





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IMPACT DRIVER AND ACCESSORY KIT



6952 IMPACT DRIVER

- 0-3,100 IPM; 0-3,200 RPM • 2.8 AMP motor with 88.5 ft.lbs. Torque
- Variable Speed, Reversible • 1/4" hex bit shank for fast bit changes
- Reverse switch near trigger for easy one-handed operation
- Lightweight cast aluminum gear housing
- Ergonomically designed handle for comfortable operation
- Externally accessible brushes for easy replacement
- Includes: belt clip and tool case



DW2169 38 PIECE IMPACT READY™ IMPACT DRIVER ACCESSORY KIT

SET CONTAINS:

- (8) #2 Phillips 1" Insert Bits
- (8) #2 Phillips 1" Drywall Insert Bits
- (5) #2 Phillips 2" Power Bits
- (8) #2 Phillips 1" Double-Ended Insert Bits - Patented
- (2) Nutdrivers: 1/4", 5/16"
- (1) 3/8" Socket Adapter
- (4) 3/8" Drive Deep Sockets: 3/8", 7/16", 1/2", 9/16"
- (1) Pivot Holder - Patented
- (1) Magnetic Bit Holder



**RATED UP TO
2,000 IN. LBS.
OF TORQUE**

IMPACT WRENCHES



DW292K HEAVY-DUTY 1/2" IMPACT WRENCH

- 7.5 AMPS / 2,100 RPM / 2,700 BPM • 1/2" detent pin anvil
- 345 ft-lbs of deliverable torque in forward and reverse • AC/DC forward/reverse rocking switch
- Soft grip handle for superior ergonomics • Ball bearing construction for increased durability
- Includes: Heavy-duty kit box

9070-20 1/2" IMPACT WRENCH WITH DETENT PIN SOCKET RETENTION

- Powerful 7.0 amp motor drives at 1800 RPM and 2600 IPM (no load)
- Delivering 300 ft. lbs. of torque and weighing only 6 lbs.
- 120 AC/DC rocker switch for quick selection of forward and reverse
- Balanced feel with ergonomically shaped handle with a soft cushioned grip



9072-22 1/2" VSR IMPACT WRENCH

- Powerful 7.0 amp motor, 600-1800 RPM and 1000-2600 IPM (no load) • 300 ft. lbs. of torque - more torque saves time
- 10 ft. Quik-Lok® 2-wire cord • 120 AC-only variable speed reversing switch with speed setting dial
- Light weight (6 lbs.) with balanced feel and cushioned grip • Pin detent system to securely retain sockets and adapters
- Includes: Carrying Case and 6 Socket Set





IMPACT WRENCHES



6953 1/2" SQUARE DRIVE IMPACT WRENCH

- 0 - 3,000 RPM and High Max Torque (110 ft.lbs.)
- Compact length for easy handling and total operator control
- Reverse switch is located near the trigger ensuring one-handed operation
- Ergonomically designed rubberized grip improves control while minimizing operator fatigue
- Includes: belt clip, plastic carrying case, note: the clip (322045-1) and pin 4 (323675-1) can be purchased as accessories



TW0200 1/2" DRIVE IMPACT WRENCH

- 0 - 2,200 RPM and High Max Torque (150 ft.lbs.)
- Efficient impact system with less vibration and longer tool life
- Compact length for easy handling and total operator control
- Externally accessible brushes for easy inspection and replacement
- Ergonomically designed rubberized grip improves control while minimizing operator fatigue
- Includes: belt clip and plastic carrying case



TW0350 1/2" DRIVE IMPACT WRENCH

- 0-2,000 IPM; 0-2,000 RPM for max. efficiency
- High max torque of 260 ft.lbs. for demanding applications
- Efficient impact system with less vibration
- Impact resistant aluminum gear case
- Compact length for easy handling
- Externally accessible brushes for easy replacement
- Ergonomically designed rubberized grip
- Includes: belt clip and plastic carrying case



6906 3/4" SQUARE DRIVE IMPACT WRENCH (REVERSIBLE)

- Powerful 9 AMP with maximum torque of 433 ft.lbs.
- Precision gearing plus ball and needle bearing construction
- Rocker type reversing switch for easy one-handed forward or reverse operation
- Side handle adjusts 360° for operator convenience at any angle
- Includes: side handle and steel tool case



TW1000 1" IMPACT WRENCH

- 1,500 IPM; 1,400 RPM
- Powerful 12 AMP motor with 738 ft. lbs. torque
- 1" square drive capacity for heavy-duty applications
- Efficient impact system with less vibration
- Durable gear housing protected with rubber boot
- Rocker type forward/reverse switch for one-handed operation
- Externally accessible brushes and ball bearings
- Ergonomically designed rubberized grip
- Side handle rotates 360° for operator convenience
- Includes: side handle and tool case



SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA



(800) 733-0089 • (781) 329-4000 • FAX: (781) 326-4757

SCREWDRIVERS



6825 VARIABLE SPEED, REVERSIBLE, DRYWALL SCREWDRIVER

- 6.5 AMP, 6,000 RPM, hangs drywall 50% faster
- Retractable belt clip attaches to tool belt and also allows operation in tight areas
- Lightweight design (3.2 lbs.) reduces operator fatigue
- Adjustable depth locator assembly with "Sure-Lock" feature for easy and consistent screw depth setting
- Also available with a 50" whip cord and twist-lock plug (model 6825TP)
- Includes: 1 ea. phillips insert bit, magnetic bit holder and nose piece



DW268 HEAVY-DUTY VSR VERSA-CLUTCH™ SCREWDRIVER

- 6.5 AMP with 0-2,500 RPM
- Helical-cut steel, heat-treated gears for long life and durability
- VERSA-CLUTCH® torque adjusts to efficiently drive fasteners without stripping or breaking fastener
- High power motor for metal fastening applications
- Excellent ergonomics offers less user fatigue



Don't forget
BITS AND INSERTS

See Pages 77-81

"One-Stop Shopping"

That's what this catalog is all about!



DRILLS



DP3002

3/8" DRILL

VARIABLE SPEED, REVERSIBLE

- Powerful 7 AMP Motor for Heavy-Duty Industrial Performance
- Variable speed (0-1,200 RPM) for drilling a variety of materials
- Ergonomically designed rubberized grips for positive control
- Reversing switch is conveniently located above the trigger
- Comfortable side handle rotates 360° around the tool
- Includes: drill chuck, chuck key and side handle



DP4000

1/2" DRILL

VARIABLE SPEED, REVERSIBLE

- Powerful 7 AMP motor for Heavy Duty Industrial Performance
- Variable, Reversible speed (0 - 900 RPM) for drilling in a wide variety of materials
- Lightweight cast aluminum gear housing for durability
- Ergonomically designed rubberized grips for positive control
- Comfortable side handle rotates 360°
- Includes: drill chuck, chuck key and side handle



DS4000

1/2" SPADE HANDLE DRILL

- Powerful 9.0 AMP motor; 500 RPM
- Rocker-type reversing switch
- Durable all-metal motor housing
- Ball bearing construction for smooth operation
- Large trigger switch and D-handle rotates 360°
- 12" pipe handle with rubberized grip
- Externally accessible brushes for easy replacement
- Includes: side handle, drill chuck and chuck key



**STOP ANNOYING
DISCONNECTS!**



**The extension cords
that keep you running.**

See Page 182

**CUSTOM IMPRINTING
AVAILABLE!**

*Have your name
and phone number printed
directly on the cord!*



SAFETY
PRODUCTS

TOOLS &
ACCESSORIES

CONTRACTOR
SUPPLIES

HANGERS
& STRUT

FASTENERS &
THREADED ROD

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SERVICES & DATA



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DRILLS



0101-20

1/4" MAGNUM® DRILL – 0-4,000 RPM

- 7.0 Amps
- Variable speed control
- Heavy-duty keyed chuck
- All ball and roller bearings
- 8 ft. 3-wire rubber cord - quick attachment from tool for tangle free carrying and storage
- All metal gear case and diaphragm
- Ergonomic tactile grip and two finger trigger for user comfort and balance
- Includes 8' 3-wire Quik-Lok cord, 1/4" chuck, chuck key and flexible key holder



0233-20

3/8" MAGNUM® DRILL

- 5.5 AMP motor, 120 AC
- 0 to 2800 RPM, trigger speed control with reversing
- Heavy-Duty industrial keyless chuck
- 8 ft. 2-wire rubber cord
- Exclusive brush cartridge system changes brushes in less than one minute
- Includes: slide handle



0200-20

3/8" MAGNUM® DRILL

- Powerful 7.0 AMP motor
- 0-1,200 RPM
- Capacity in steel: 3/8"
- 120 Volts AC Only
- 3/8" Trigger Speed Control Reversing
- Double Gear Train
- Heavy-Duty Industrial Chucks
- High strength, impact resistant handles
- 2-Wire Quik-Lok® Cord Sets - Quick detachment from tool for tangle free carrying and storage. Instant field repair. Tool comes standard w/ 2-wire, 10' 16 gauge rubber construction cord



0234-6

1/2" MAGNUM® DRILL

- Powerful 5.5 Amp Motor - 0-850 RPM
- 1/2" Trigger Speed Control Reversing
- Double gear train
- Capacity in steel: 1/2"
- 120 Volts AC Only
- Heavy-Duty industrial chucks
- Aluminum gear case and diaphragm
- High strength, impact resistant handles
- Removable brush cartridge system



0244-1 – MAGNUM® 0-600 RPM

0299-20

1/2" MAGNUM® DRILL

- Powerful 8.0 amp motor, 120 AC
- 0 to 850 RPM, Variable Speed Control
- Heavy-duty keyed chuck
- All metal gear case and diaphragm
- 8 ft. 3-wire rubber cord
- 360° locking side handle
- Ergonomic textured grip and two finger trigger
- Includes: Side handle and chuck key with holder





DRILLS



SAFETY PRODUCTS

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1660-6 **1/2" COMPACT DRILL** 450 NO LOAD RPM - REVERSING

- Powerful 7 AMP motor • Chrome moly alloy steel for high torque transmission with minimum wear
- Extra long switch and pipe handles afford max leverage for drilling or reaming large holes
- Pipe handle for added control • Capacity in steel: 1/2" / 120 Volts AC-DC
- Glass filled nylon spade and switch handles

1610-1 **1/2" COMPACT DRILL** 650 NO LOAD RPM - REVERSING 1/2" Capacity - 120V AC Only

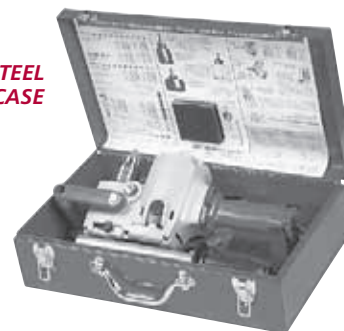
1630-1 **1/2" COMPACT DRILL** 900 NO LOAD RPM - REVERSING 1/2" Capacity - 120V AC Only



1676-6 **1/2" HOLE-HAWG® DRILL** 1200 AND 300 RPM - REVERSING CAN POWER UP TO 4-5/8" SELFEEED BIT IN LOW SPEED DRILL UP TO 1-5/8" SELFEEED BIT IN HIGH SPEED

- Powerful 1.75 AMP Motor
- Heat treated gears • All ball and roller bearings
- Triple Reduction gearing handles up to 4-5/8" selffeed bits
- Functional design puts force in line with chuck
- 2 position pipe handle • 3 position spade handle
- 2 speed gear shift • External brush caps
- Weighs only 10-1/2 lbs.

INCLUDES STEEL CARRYING CASE



COMPACT ELECTROMAGNETIC DRILL PRESS



4270-21 **COMPACT ELECTROMAGNETIC DRILL PRESS KIT**

- Powerful 9.0 AMP 1.1 max HP motor • Light weight, only 26.5 lbs.
- Capacity to cut up to 1-1/2 in. diameter holes thru 2 in. steel with annular cutters, or 1/2 in. dia. holes, 4-1/4 in. deep with twist drill bits
- Strong two-coil magnet • Two positions for feed handle
- Simple two-button control panel - unobstructed by feed handle
- Includes: lubricant spray bottle, nylon safety strap and two hex wrenches



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DRILLS

DEWALT®

D21008K 3/8" VSR DRILL KIT WITH KEYLESS CHUCK

- 6.0 AMP motor, 0-2,500 No Load RPM
- 3/8" ratcheting keyless chuck offers greater bit retention
- Contoured textured handle provides better gripping surface and reduces user fatigue
- Built-in two-way level for drilling accurate vertical and horizontal holes
- Glass-filled nylon housing is durable and impact resistant
- Includes: heavy-duty kit box



DW235G 1/2" VSR DRILL

- 7.8 Amp - 0-850 RPM
- Helical-cut steel, heat treated gears for smooth operation
- Metal gear housing for increased durability
- Two-finger, rubber trigger for increased comfort
- 360° side handle for greater control
- Also available in 220V



DW130V 1/2" SPADE-HANDLE DRILL

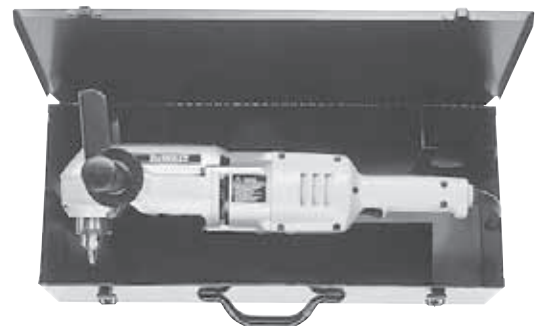
- 9.0 Amps, 120V motor, 0-550 RPM
- Variable speed reversing switch
- 7.5 lbs. weight increases user productivity and decreases user fatigue
- 2-position rear spade handle and 3-position side handle gives greater control for all drilling and mixing applications
- Includes: 3-position side handle, chuck key with holder and 2-position rear spade handle



ANGLE DRILL

DW124K 1/2" STUD & JOIST DRILL KIT

- Powerful 11.5 AMP motor • 2 Speed 300/1200 RPM • 21" overall length
- Mechanical-slip clutch in low gear to prevent bit lock-up
- Adjustable front handle and 2-position side handle for greater control
- 100% ball-bearing construction
- Triple gear reduction provides increased torque and reduces gear stress
- Includes: chuck key with holder, 2-position side handle, bail handle and heavy-duty carrying case





ANGLE DRILLS



DA3010F

3/8" ANGLE DRILL WITH L.E.D. LIGHT

- Powerful 4.0 AMP motor and lightweight (3.1 lbs.)
- Variable speed (0 - 2,400 RPM) for controlled drilling in wood/metal and speedy fastening
- Light up your drilling surface with High Output L.E.D. Power
- Compact (10-5/8" length) design for easy use when working in close quarter applications
- Paddle switch with speed limiting dial to prevent over tightening of fasteners and for easy one-handed operation
- Includes: grip complete, chuck key and key holder



DA4000LR

1/2" ANGLE DRILL

VARIABLE SPEED, REVERSIBLE

- Powerful 7.5 AMP motor for improved performance
- Quick switch drill head for low (0 - 400 RPM) or high (0 - 900 RPM) speed
- Angle attachment rotates 360° to drill in any position
- Angle attachment may be removed and used as a straight drill
- Trigger sensitive variable speed switch for precise control
- Includes: drill head handle, side handle, drill chuck, chuck key, key holder, hex wrench and plastic tool case



DA4031

1/2" ANGLE DRILL

2- SPEED, REVERSIBLE

- Powerful 10 AMP motor
- 2-speed drilling: 1,200 RPM high speed or 300 RPM low speed
- "Sidewinder" handle rotates 90° left or right
- Torque limiter disengages motor should the bit bind (low speed only)
- Adjustable top handle with hex wrench storage
- Includes: chuck key, key holder, drill chuck, hex wrench, side handle grip and plastic tool case

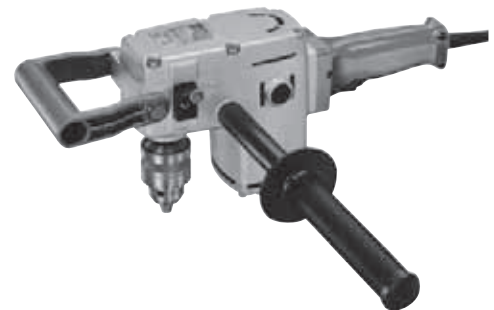


DA6300

1/2" ANGLE DRILL

REVERSIBLE

- Powerful 7.5 AMP, 2 speed (300 RPM or 1,200 RPM) motor
- Lightweight (9.5 lbs.) for easy operation and work in close quarters
- Triple reduction gearing for maximum power
- Rocker type reversing switch for easy one handed change of bit rotation
- Large side handle for controlled drilling
- Includes: drill chuck, chuck key, steel tool case, side handle





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ANGLE DRILLS



1680-21

1/2" SUPER HAWG®

CAN POWER UP TO 4-5/8" SELFEEED BIT IN LOW SPEED - DRILL UP TO 1-5/8" SELFEEED BIT IN HIGH SPEED

- 13 AMP, 120 AC Motor • No Load 450/1,750 RPM
- 90° left-right, Roto-Lok® handle for maximum operating comfort
- Clutch in low speed
- Comfort grip switch handle and gear case w/ front T-bar handle
- Easy turn gear shift knob
- Includes: carrying case and side handle



PLUMBER'S, ELECTRICIAN'S AND VARIABLE SPEED 1/2" REVERSING RIGHT ANGLE DRILL KITS



3300-1 MAGNUM® RIGHT ANGLE DRILL KIT

- Trigger Speed Control Reversing • 7 Amp Motor (Except 3300-1)
- All Ball and Roller Bearings • Helical Cut, Heat Treated Gears • Steel Hardened Shafts
- Durable, Glass Reinforced Nylon Handles • Use With Up to 4-5/8" Selfeed Bits (3107-6 and 3102-6 only)
- Head and Handle Swivel 360° — Can Be Locked Tight in Any Position. Allow 5-1/2" for right angle drill head and chuck
- 3102-6, 3002-1, 3107-6, 3300-1 include Right Angle Drive, 9/16" Open End Wrench, 3/16" Socket Wrench, Chuck Remover Bar, Side Handle and Impact Resistant Case (Steel Case for 3300-1)
- Kits 3300-1 and 3107-6 also contain 8' 3-Wire Quik-Lok® cord set

Model Number	Kit Type	Includes Drill No.	Capacity In Steel	Volts AC Only	Amps	Speed	Drill Only Rpm	RPM w/RAD Low Side	RPM w/RAD High Side	Gear Train	Ship Wt. Lbs.
3002-1	ELECTRICIAN	1001-1	1/2"	120	7.0	SPEED CONTROL	0-600	0-400	0-900	QUADRUPLE	21
3102-6	PLUMBER	1101-1	1/2"	120	7.0	SINGLE	500	335	750	QUADRUPLE	21-1/2
3107-6	VARIABLE	1107-6	1/2"	120	7.0	SPEED CONTROL	0-500	0-335	0-750	QUADRUPLE	21-1/2
3300-1	MAGNUM®	0231-6	1/2"	120	5.5	SPEED CONTROL	0-850	0-565	0-1275	TRIPLE	14

ACCESSORIES

48-03-0007

QUICK CHANGE CHUCK FOR "D" HANDLE DRILLS



Shank - 1/2"-20
Application - 7/16" quick drive shaft

3-WIRE QUIK-LOK® CORD SETS

Quick detachment from tool for tangle free carrying and storage. Instant field repair.
Included with model #'s:

0234-6, 0235-20, 0244-1, 3107-6, 3300-1





INSERT BITS, HOLDERS AND NUT SETTERS

MAGNETIC BIT HOLDERS - 1/4" HEX DRIVE

TYPE MBHM		
DESCRIPTION	LENGTH	P/N
Stainless steel one-piece body with screw cap and o-ring	3"	MBHM-14
	6"	MBHM-14-6
	8"	MBHM-14-8
	12"	MBHM-14-12



TYPE MBH		
DESCRIPTION	LENGTH	P/N
One piece with C-ring	2-3/8"	MBH-14S
	3"	MBH-14L



TYPE EZ LOCK		
DESCRIPTION	LENGTH	P/N
EZ Lock quick-release holder	3"	EZL-14



POWER SCREWDRIVER MAGNETIC NUT SETTERS - 1/4" HEX DRIVE



TYPE MNS					
SHANK:	1-5/8"	2-9/16"	4"	6"	12"
SOCKET SIZE	P/N	P/N	P/N	P/N	P/N
1/4	MNS-14S	MNS-14	MNS-14-4	MNS-14-6	MNS-14-12
5/16	MNS-516S	MNS-516	MNS-516-4	MNS-516-6	MNS-516-12
3/8	MNS-38S	MNS-38	MNS-38-4	MNS-38-6	MNS-38-12
7/16	MNS-716S	MNS-716	MNS-716-4	MNS-716-6	MNS-716-12
1/2	MNS-12S	MNS-12	MNS-12-4	MNS-12-6	MNS-12-12

DOUBLE END BITS



TYPE DE	
SIZE	P/N
#2 and #2 Phillips	DE-PH
#1 and #2 Square	DE-SQ
#2 Phillips and #8 Slotted	DE-PS

POWER SCREWDRIVER PHILLIPS INSERT BIT - SHORT



TYPE PH	
POINT SIZE	P/N
#0	PH0
#1	PH1
#2	PH2
#2 (Drywall style)	PHR2
#3	PH3
#4	PH4



POWER SCREWDRIVER PHILLIPS POWER BIT - LONG - 1/4" HEX DRIVE



TYPE PH		
POINT SIZE	LENGTH	P/N
#1	2	PH1-2
#2	2	PH2-2
#3	2	PH3-2
#1	2-3/4	PH1-234
#2	2-3/4	PH2-234
#3	2-3/4	PH3-234
#1	3-1/2	PH1-312
#2	3-1/2	PH2-312
#3	3-1/2	PH3-312
#1	6	PH1-6
#2	6	PH2-6
#3	6	PH3-6



SLOTTED INSERT BITS



TYPE SL	
SCREW SIZE	P/N
#3F-4R	SL3
#4F-5R	SL4
#5F-6R	SL5
#6F-8R	SL6
#8F-10R	SL8
#10F-12R	SL10
#12F-14R	SL12



SLOTTED 2" POWER BITS



TYPE SL	
SCREW SIZE	P/N
#4F-5R	SL4-2
#5F-6R	SL5-2
#6F-8R	SL6-2
#8F-10R	SL8-2
#10F-12R	SL10-2





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INSERT BITS AND SOCKET EXTENSIONS

SQUARE DRIVE INSERT BITS



TYPE SQ	
POINT SIZE	P/N
#0	SQ0
#1	SQ1
#2	SQ2
#3	SQ3

LONG LENGTH SQUARE DRIVE POWER BITS



TYPE SQ		
POINT SIZE	LENGTH	P/N
#1	2	SQ1-2
#2	2	SQ2-2
#3	2	SQ3-2
#1	2-3/4	SQ1-234
#2	2-3/4	SQ2-234
#3	2-3/4	SQ3-234
#1	3-1/2	SQ1-312
#2	3-1/2	SQ2-312
#3	3-1/2	SQ3-312
#1	6	SQ1-6
#2	6	SQ2-6
#3	6	SQ3-6

HEX INSERT BITS 1/4" HEX DRIVE



TYPE HB	
SIZE	P/N
1/16	HB116
3/32	HB332
1/8	HB18
5/32	HB532
3/16	HB316
7/32	HB732
1/4	HB14
5/16	HB516

POWER SOCKET EXTENSIONS 1/4" HEX DRIVE



TYPE EX	
SIZE	P/N
1/4" hex to 1/4" sq x 1"	EX14-1
1/4" hex to 1/4" sq x 2"	EX14-2
1/4" hex to 1/4" sq x 4"	EX14-4
1/4" hex to 1/4" sq x 6"	EX14-6
1/4" hex to 1/4" sq x 10"	EX14-10
1/4" hex to 3/8" sq x 2"	EX38-2
1/4" hex to 3/8" sq x 4"	EX38-4
1/4" hex to 3/8" sq x 6"	EX38-6
1/4" hex to 3/8" sq x 8"	EX38-8

STAR INSERT BITS 1/4" HEX DRIVE

WITH TAMPER RESISTANT HOLE

- Star Bits are for use with TORX screws



TYPE TX					
SIZE	P/N	P/N	SIZE	P/N	P/N
T6	TX6	TX6S	T20	TX20	TX20S
T7	TX7	TX7S	T25	TX25	TX25S
T8	TX8	TX8S	T27	TX27	TX27S
T9	TX9	TX9S	T30	TX30	TX30S
T10	TX10	TX10S	T40	TX40	TX40S
T15	TX15	TX15S			



STAR POWER BITS 2" LONG - 1/4" HEX DRIVE

WITH TAMPER RESISTANT HOLE

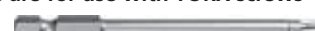
- Star Bits are for use with TORX screws.



TYPE TX			
SIZE	P/N	SIZE	P/N
T6	TX6-2	T20	TX-20-2
T7	TX7-2	T25	TX-25-2
T8	TX-8-2	T27	TX-27-2
T9	TX-9-2	T30	TX-30-2
T10	TX-10-2	T40	TX-40-2
T15	TX-15-2		

STAR POWER BITS 3-1/2" LONG - 1/4" HEX DRIVE

- Star Bits are for use with TORX screws



TYPE TX			
SIZE	P/N	SIZE	P/N
T7	TX7312	T20	TX20312
T8	TX8312	T25	TX25312
T9	TX9312	T27	TX27312
T10	TX10312	T30	TX30312
T15	TX15312	T40	TX40312

STAR POWER BITS 6" LONG - 1/4" HEX DRIVE

- Star Bits are for use with TORX screws



TYPE TX			
SIZE	P/N	SIZE	P/N
T7	TX76	T20	TX206
T8	TX86	T25	TX256
T9	TX96	T27	TX276
T10	TX106	T30	TX306
T15	TX156	T40	TX406



DRILLS AND DRILL SETS

BULL'S EYE SERIES PREMIUM QUALITY JOBBER LENGTH DRILLS

Fractional Sizes, Self-Centering, Split Point Drills, Black & Gold Finish

- Excellent for drilling all types of steel, including stainless
- 135° split point allows easy penetration and self-centering
- Great performance when used with cordless drills
- Reduced shank to 3/8" on all sizes over 3/8" - on carded drills
- Tri-Shank on sizes 3/16" thru 1/2" for positive grip



TYPE JBE: 12 / PKG.	
SIZE	P/N
1/16	JBE-116
5/64	JBE-564
3/32	JBE-332
7/64	JBE-764
1/8	JBE-18
9/64	JBE-964
5/32	JBE-532
11/64	JBE-1164
3/16	JBE-316
13/64	JBE-1364
7/32	JBE-732
15/64	JBE-1564
1/4	JBE-14
17/64	JBE-1764
9/32	JBE-932

TYPE JBE: 6 / PKG.	
SIZE	P/N
19/64	JBE-1964
5/16	JBE-516
21/64	JBE-2164
11/32	JBE-1132
23/64	JBE-2364
3/8	JBE-38
25/64	JBE-2564
13/32	JBE-1332
27/64	JBE-2764
7/16	JBE-716
29/64	JBE-2964
15/32	JBE-1532
31/64	JBE-3164
1/2	JBE-12

GENERAL PURPOSE JOBBER LENGTH DRILLS

Letter Sizes, High Speed, 118° Point, Black Finish



TYPE J3: 12 / PKG.	
SIZE	P/N
A	J3-A
B	J3-B
C	J3-C
D	J3-D
E	J3-E
F	J3-F
G	J3-G

TYPE J3: 6 / PKG.			
SIZE	P/N	SIZE	P/N
I	J3-I	R	J3-R
J	J3-J	S	J3-S
K	J3-K	T	J3-T
L	J3-L	U	J3-U
M	J3-M	V	J3-V
N	J3-N	W	J3-W
O	J3-O	X	J3-X

BULL'S EYE SERIES PREMIUM QUALITY JOBBER LENGTH DRILL SETS



TYPE JBE BLACK/GOLD		
SIZES	SET SIZE	P/N
1/16" to 1/4"	13 pcs.	DS-13BE
1/16" to 1/2"	15 pcs.	DS-15BE
1/16" to 3/8"	21 pcs.	DS-21BE
1/16" to 1/2"	29 pcs.	DS-29BE
1/16" to 1/2"	29 pcs.	DS-29BER 3/8" Shank

COBALT JOBBER LENGTH DRILLS

Fractional Sizes, Cobalt Steel, 135° Split Point Drills



- Designed for stainless steel and all hard-to-drill alloys
- Carded drills over 3/8" have a 3/8" reduced shank



TYPE C1: 12 / PKG		
SIZE	P/N	P/N CARDED
1/64	C1-164	-
1/32	C1-132	-
3/64	C1-364	-
1/16	C1-116	C1-116C
1/64	C1-564	C1-564C
1/32	C1-332	C1-332C
3/64	C1-764	C1-764C
1/16	C1-18	C1-18C
9/64	C1-964	C1-964C
5/32	C1-532	C1-532C
11/64	C1-1164	C1-1164C
3/16	C1-316	C1-316C
13/64	C1-1364	C1-1364C
7/32	C1-732	C1-732C
15/64	C1-1564	C1-1564C
1/4	C1-14	C1-14C
17/64	C1-1764	C1-1764C
9/32	C1-932	C1-932C

TYPE JBE: 6 / PKG		
SIZE	P/N	P/N CARDED
19/64	C1-1964	C1-1964C
5/16	C1-516	C1-516C
21/64	C1-2164	C1-2164C
11/32	C1-1132	C1-1132C
23/64	C1-2364	C1-2364C
3/8	C1-38	C1-38C
25/64	C1-2564	C1-2564C
13/32	C1-1332	C1-1332C
27/64	C1-2764	C1-2764C
7/16	C1-716	C1-716C
29/64	C1-2964	C1-2964C
15/32	C1-1532	C1-1532C
31/64	C1-3164	C1-3164C
1/2	C1-12	C1-12C

HEAVY DUTY JOBBER LENGTH DRILLS

Wire Gauge Sizes, High Speed, 135° Split Point, Black/Gold Finish



TYPE JBE2: 12 / PKG					
SIZE	P/N	SIZE	P/N	SIZE	P/N
1	JBE2-01	15	JBE2-15	29	JBE2-29
2	JBE2-02	16	JBE2-16	30	JBE2-30
3	JBE2-03	17	JBE2-17	31	JBE2-31
4	JBE2-04	18	JBE2-18	32	JBE2-32
5	JBE2-05	19	JBE2-19	33	JBE2-33
6	JBE2-06	20	JBE2-20	34	JBE2-34
7	JBE2-07	21	JBE2-21	35	JBE2-35
8	JBE2-08	22	JBE2-22	36	JBE2-36
9	JBE2-09	23	JBE2-23	37	JBE2-37
10	JBE2-10	24	JBE2-24	38	JBE2-38
11	JBE2-11	25	JBE2-25	39	JBE2-39
12	JBE2-12	26	JBE2-26	40	JBE2-40
13	JBE2-13	27	JBE2-27		
14	JBE2-14	28	JBE2-28		



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DRILLS

AIRCRAFT EXTENSION DRILLS

Type AC6 - 6" Long • Type AC12 - 12" Long
Type AC18 - 18" Long • Type AC24 - 24" Long

TYPE AC				
SIZE	AC6 P/N	AC12 P/N	AC18 P/N	AC24 P/N
1/16	AC6-116	-	-	-
5/64	AC6-564	-	-	-
3/32	AC6-332	-	-	-
7/64	AC6-764	-	-	-
1/8	AC6-18	AC12-18	-	-
9/64	AC6-964	-	-	-
5/32	AC6-532	-	-	-
11/64	AC6-1164	-	-	-
3/16	AC6-316	AC12-316	AC18-316	-
13/64	AC6-1364	-	-	-
7/32	AC6-732	-	-	-
15/64	AC6-1564	-	-	-
1/4	AC6-14	AC12-14	AC18-14	AC24-14
17/64	AC6-1764	-	-	-
9/32	AC6-932	-	-	-
19/64	AC6-1964	-	-	-
5/16	AC6-516	AC12-516	AC18-516	AC24-516
11/32	AC6-1132	-	-	-
3/8	AC6-38	AC12-38	AC18-38	AC24-38
13/32	AC6-1332	-	-	-
7/16	AC6-716	AC12-716	AC18-716	AC24-716
15/32	AC6-1532	-	-	-
1/2	AC6-12	AC12-12	AC18-12	AC24-12



SILVER AND DEMING DRILLS 1/2" SHANK

3 Flats Ground into Shanks
• Packaged individually



TYPE SD3			
SIZE	SD P/N	SIZE	SD P/N
33/64	SD3-3364	51/64	SD3-5164
17/32	SD3-1732	13/16	SD3-1316
35/64	SD3-3564	53/64	SD3-5364
9/16	SD3-916	27/32	SD3-2732
37/64	SD3-3764	55/64	SD3-5564
19/32	SD3-1932	7/8	SD3-78
39/64	SD3-3964	57/64	SD3-5764
5/8	SD3-58	29/32	SD3-2932
41/64	SD3-4164	59/64	SD3-5964
21/32	SD3-2132	15/16	SD3-1516
43/64	SD3-4364	61/64	SD3-6164
11/16	SD3-1116	31/32	SD3-3132
45/64	SD3-4564	63/64	SD3-6364
23/32	SD3-2332	1	SDL3-1
47/64	SD3-4764	1-1/8	SDL3-118
3/4	SD3-34	1-1/4	SDL3-114
49/64	SD3-4964	1-1/2	SDL3-112
25/32	SD3-2532		

SHIP AUGER BITS

- Longer threaded lead screw pulls through the work and requires less pressure to feed
- Packaged individually

TYPE SA9 9" LONG: 1 / PKG.		
SIZE	P/N	
1/4	SA9-14	
5/16	SA9-516	
3/8	SA9-38	
7/16	SA9-716	
1/2	SA9-12	
9/16	SA9-916	
5/8	SA9-58	
11/16	SA9-1116	
3/4	SA9-34	
13/16	SA9-1316	
7/8	SA9-78	
15/16	SA9-1516	
1	SA9-1	
1-1/8	SA9-118	
1-1/4	SA9-114	
1-3/8	SA9-138	
1-1/2	SA9-112	

TYPE SA18 18" LONG: 1 / PKG.		
SIZE	P/N	
3/8	SA18-28	
7/16	SA18-716	
1/2	SA18-12	
9/16	SA18-916	
5/8	SA18-58	
11/16	SA18-1116	
3/4	SA18-34	
13/16	SA18-1316	
7/8	SA18-78	
15/16	SA18-1516	
1	SA18-1	
1-1/8	SA18-118	
1-1/4	SA18-114	
1-3/8	SA18-138	
1-1/2	SA18-112	

WOOD SPADE BITS

- Outside spurs for drilling all types of wood
- Precision ground, hardened steel • Packaged individually



TYPE WS6 6" LONG: 1 / PKG		TYPE WS6 6" LONG: 1 / PKG	
SIZE	P/N	SIZE	P/N
1/4	WS6-14	7/8	WS6-78
5/16	WS6-516	15/16	WS6-1516
3/8	WS6-38	1	WS6-1
7/16	WS6-716	1-1/8	WS6-118
1/2	WS6-12	1-1/4	WS6-114
9/16	WS6-916	1-3/8	WS6-138
5/8	WS6-58	1-1/2	WS6-112
11/16	WS6-1116	WOOD SPADE SET	
3/4	WS6-34	6" LONG: 6 / PACK	
13/16	WS6-1316	SIZES	P/N
		1/4"-1"	WS6

GLASS DRILLS



TYPE GD					
SIZE	P/N	SIZE	P/N	SIZE	P/N
1/8	GD18	1/4	GD14	3/8	GD38
3/16	GD316	5/16	GD516	1/2	GD12



TAPS AND DIES



HIGH SPEED TAPS

- When ordering High Speed Taps, specify P (plug), T (taper) or B (bottom) to the end of the part number.
- When ordering Tap Sets (one each plug, taper and B (bottom) add S to the end of the part number.



TYPE HST 12 / PKG.	
SIZE	P/N
2 - 56NC	HST-256
4 - 40NC	HST-440
5 - 40NC	HST-540
6 - 32NC	HST-632
8 - 32NC	HST-832
10 - 24NC	HST-1024
10 - 32NF	HST-1032
12 - 24NC	HST-1224
12 - 28NF	HST-1228
1/4 - 20NC	HST-1420
1/4 - 28NF	HST-1428
5/16 - 18NC	HST-51618
5/16 - 24NF	HST-51624
3/8 - 16NC	HST-3816
3/8 - 24NF	HST-3824
7/16 - 14NC	HST-71614
7/16 - 20NF	HST-71620

TYPE HST 1 / PKG.	
SIZE	P/N
1/2 - 13NC	HST-1213
1/2 - 20NF	HST-1220
9/16 - 12NC	HST-91612
9/16 - 18NF	HST-91618
5/8 - 11NC	HST-5811
5/8 - 18NF	HST-5818
3/4 - 10NC	HST-3410
3/4 - 16NF	HST-3416
7/8 - 9NC	HST-789
7/8 - 14NF	HST-7814
1 - 8NC	HST-18
1 - 12NF	HST-112
1 - 14	HST-114
1-1/8 - 7	HST-1187
1-1/8 - 12	HST-11812
1-1/4 - 7	HST-1147
1-1/4 - 12	HST-11412
1-3/8 - 6	HST-1386
1-3/8 - 12	HST-13812
1-1/2 - 6	HST-1126
1-1/2 - 12	HST-11212

TAPER PIPE TAPS

Carbon Steel



TYPE PT: 1 / PKG.	
SIZE	P/N
1/8	PT-18
1/4	PT-14
3/8	PT-38
1/2	PT-12
3/4	PT-34
1	PT-1

TYPE PT: 1 / PKG.	
SIZE	P/N
1-1/4	PT-114
1-1/2	PT-112
2	PT-2
2-1/2	PT-212
3	PT-3

TAP WRENCHES



TYPE TW: 1 / PKG.	
SIZE	P/N
0 to 1/4	TW-1
#10 to 3/8	TW-2
#12 to 1/2	TW-3
#10 to 1/2	TW-5
5/32 to 3/4	TW-6
1/4 to 1-1/8	TW-7
3/4 to 1-5/8	TW-8



HEX RETHREAD DIES

- Carbon Steel
- Packaged individually



TYPE HRD: 1 / PKG.					
SIZE	P/N	SIZE	P/N	SIZE	P/N
6 - 32	HRD-632	7/16 - 14	HRD-71614	7/8 - 14	HRD-7814
8 - 32	HRD-832	7/16 - 20	HRD-71620	1 - 8	HRD-18
10 - 24	HRD-1024	1/2 - 13	HRD-1213	1 - 12	HRD-112
10 - 32	HRD-1032	1/2 - 20	HRD-1220	1 - 14	HRD-114
12 - 24	HRD-1224	9/16 - 12	HRD-91612	1-1/8 - 7	HRD-1187
1/4 - 20	HRD-1420	9/16 - 18	HRD-91618	1-1/8 - 12	HRD-11812
1/4 - 28	HRD-1428	5/8 - 11	HRD-5811	1-1/4 - 7	HRD-1147
5/16 - 18	HRD-51618	5/8 - 18	HRD-5818	1-1/4 - 12	HRD-11412
5/16 - 24	HRD-51624	3/4 - 10	HRD-3410	1-1/2 - 6	HRD-1126
3/8 - 16	HRD-3816	3/4 - 16	HRD-3416	1-1/2 - 12	HRD-11212
3/8 - 24	HRD-3824	7/8 - 9	HRD-789		



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BI-METAL HOLE SAWS

**Engineered For Optimum Performance
In Wood And Metal**

LENOX®

30036-36L



THE LENOX® Advantage™

- Added durability**
 Thick backing plate resists damage and increases life.
- Unique tooth configuration**
 Patented VARI-TOOTH® design optimizes cutting for fast cuts and long tool life. Patent no. 5803678.
- Resists tooth strippage**
 Bi-metal construction creates a hardened edge to minimize tooth stripping.
- Use standard arbor**



See
LENOX®
**Hole Saw
 Arbors and
 Accessories
 on Page 85**

Product Number (1 per box)	Product Number (1 per pack)	Diameter (Inches)	Pipe Tap (Inches)	Pipe Entrance (Inches)	Use Arbor Number
30009-9L	-	9/16			1L, 4L or 5L
30010-10L	30110-K10L	5/8			1L, 4L or 5L
30011-11L	-	11/16			1L, 4L or 5L
30012-12L	30112-K12L	3/4	1/2	3/8	1L, 4L or 5L
30098-20MMHS	30198-K20MMHS	25/32			1L, 4L or 5L
30013-13L	-	13/16			1L, 4L or 5L
30014-14L	30114-K14L	7/8	3/4	1/2	1L, 4L or 5L
30015-15L	-	15/16			1L, 4L or 5L
30016-16L	30116-K16L	1			1L, 4L or 5L
30017-17L	30117-K17L	1-1/16			1L, 4L or 5L
30018-18L	30118-K18L	1-1/8	1	3/4	1L, 4L or 5L
30019-19L	-	1-3/16			1L, 4L or 5L
30020-20L	30120-K20L	1-1/4			2L, 3L or 6L
30021-21L	-	1-5/16			2L, 3L or 6L
30022-22L	30122-K22L	1-3/8		1	2L, 3L or 6L
30023-23L	-	1-7/16			2L, 3L or 6L
30024-24L	30124-K24L	1-1/2	1-1/4		2L, 3L, 6L or 7L
30025-25L	-	1-9/16			2L, 3L, 6L or 7L
30026-26L	30126-K26L	1-5/8			2L, 3L, 6L or 7L
30027-27L	-	1-11/16			2L, 3L, 6L or 7L
30028-28L	30128-K28L	1-3/4	1-1/2	1-1/4	2L, 3L, 6L or 7L
30029-29L	-	1-13/16			2L, 3L, 6L or 7L
30030-30L	30130-K30L	1-7/8			2L, 3L, 6L or 7L
30032-32L	30132-K32L	2		1-1/2	2L, 3L, 6L or 7L
30033-33L	-	2-1/16			2L, 3L, 6L or 7L
30034-34L	30134-K34L	2-1/8			2L, 3L, 6L or 7L
30036-36L	30136-K36L	2-1/4	2		2L, 3L, 6L or 7L
30037-37L	-	2-5/16			2L, 3L, 6L or 7L
30038-38L	30138-K38L	2-3/8			2L, 3L, 6L or 7L
30040-40L	30140-K40L	2-1/2		2	2L, 3L, 6L or 7L
30041-41L	-	2-9/16			2L, 3L, 6L or 7L
30042-42L	30142-K42L	2-5/8	2-1/2		2L, 3L, 6L or 7L
30043-43L	30143-K43L	2-11/16			2L, 3L, 6L or 7L
30044-44L	30144-K44L	2-3/4			2L, 3L, 6L or 7L
30046-46L	-	2-7/8			2L, 3L, 6L or 7L
30048-48L	30148-K48L	3		2-1/2	2L, 3L, 6L or 7L
30050-50L	30150-K50L	3-1/8			2L, 3L, 6L or 7L
30052-52L	30152-K52L	3-1/4	3		2L, 3L, 6L or 7L
30054-54L	-	3-3/8			2L, 3L, 6L or 7L
30056-56L	30156-K56L	3-1/2			2L, 3L, 6L or 7L
30058-58L	30158-K58L	3-5/8		3	2L, 3L, 6L or 7L
30060-60L	-	3-3/4	3-1/2		2L, 3L, 6L or 7L
30062-62L	-	3-7/8			2L, 3L, 6L or 7L
30064-64L	30164-K64L	4			2L, 3L, 6L or 7L
30066-66L	30166-K66L	4-1/8		3-1/2	2L, 3L, 6L or 7L
30068-68L	30168-K68L	4-1/4	4		2L, 3L, 6L or 7L
30070-70L	-	4-3/8			2L, 3L, 6L or 7L
30072-72L	30172-K72L	4-1/2	4-1/2		2L, 3L, 6L or 7L
30074-74L	-	4-5/8		4	2L, 3L, 6L or 7L
30076-76L	30176-K76L	4-3/4			2L, 3L, 6L or 7L
30080-80L	-	5			2L, 3L, 6L or 7L
30088-88L	-	5-1/2			2L, 3L, 6L or 7L
30096-96L	-	6			2L, 3L, 6L or 7L



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BI-METAL HOLE SAW KITS



30800-600L

10 PIECE, ELECTRICIAN'S KIT

7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2".

Arbors: 2L, 5L. One 4321 pilot drill.
One arbor adaptor.



30808-600P

10 PIECE, PLUMBER'S KIT

3/4", 7/8", 1-1/8", 1-1/2", 1-3/4", 2-1/4".

Arbors: 2L, 5L. One 4321 pilot drill.
One arbor adaptor.



30801-1200P

17 PIECE, PLUMBER'S KIT

3/4", 7/8", 1-1/8", 1-1/2", 1-3/4", 2-1/4",

2-9/16", 3", 3-1/2", 4", 4-1/4", 4-1/2".
Arbors: 2L, 5L. Two 4321 and
one 56PD pilot drills.

CARBIDE TIPPED HOLE SAWS

30243-43CT

Designed to Cut Abrasive Materials

Product Number	Diameter (Inches)	Pipe Tap (Inches)	Pipe Entrance (Inches)	Use Arbor Number
30211-11CT	11/16			1L or 4L
30212-12CT	3/4	1/2	3/8	1L or 4L
30214-14CT	7/8	3/4	1/2	1L or 4L
30216-16CT	1			1L or 4L
30218-18CT	1-1/8	1	3/4	1L or 4L
30220-20CT	1-1/4			2L
30222-22CT	1-3/8		1	2L
30224-24CT	1-1/2	1-1/4		2L or 7L
30226-26CT	1-5/8			2L or 7L
30228-28CT	1-3/4	1-1/2	1-1/4	2L or 7L
30232-32CT	2		1-1/2	2L or 7L
30234-34CT	2-1/8			2L or 7L
30236-36CT	2-1/4	2		2L or 7L
30238-38CT	2-3/8			2L or 7L
30240-40CT	2-1/2		2	2L or 7L
30241-41CT	2-9/16			2L or 7L
30242-42CT	2-5/8	2-1/2		2L or 7L
30243-43CT	2-11/16			2L or 7L
30248-48CT	3		2-1/2	2L or 7L
30252-52CT	3-1/4	3		2L or 7L
30254-54CT	3-3/8			2L or 7L
30256-56CT	3-1/2			2L or 7L
30258-58CT	3-5/8		3	2L or 7L
30260-60CT	3-3/4	3-1/2		2L or 7L
30264-64CT	4			2L or 7L
30266-66CT	4-1/8		3-1/2	2L or 7L
30268-68CT	4-1/4	4		2L or 7L
30272-72CT	4-1/2			2L or 7L
30276-76CT	4-3/4	4-1/2	4	2L or 7L
30280-80CT	5			2L or 7L
30288-88CT	5-1/2			2L or 7L
30296-96CT	6			2L or 7L
30297-123CT	Carbide Tipped Pilot Drill			1 per pack
30298-65CTPD	Carbide Tipped Pilot Drill			1 per pack



THE LENOX® Advantage™

• Long tool life

Heat resistant carbide teeth for long life in tile and stainless steel.

• Added durability

Thick backing plate resists damage for long life.

• Unique tooth configuration

Engineered design provides ability to cut in stainless steel like no other.

• Use standard arbor

• *Note: We recommend the use of a carbide tipped pilot drill when cutting ceramic wall tile. Pilot drill 123CT fits the 1L, 2L, 4L or 7L arbors. Pilot drill 65CTPD fits the 5L and 6L arbors.*

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ONE TOOTH® ROUGH WOOD HOLE CUTTERS

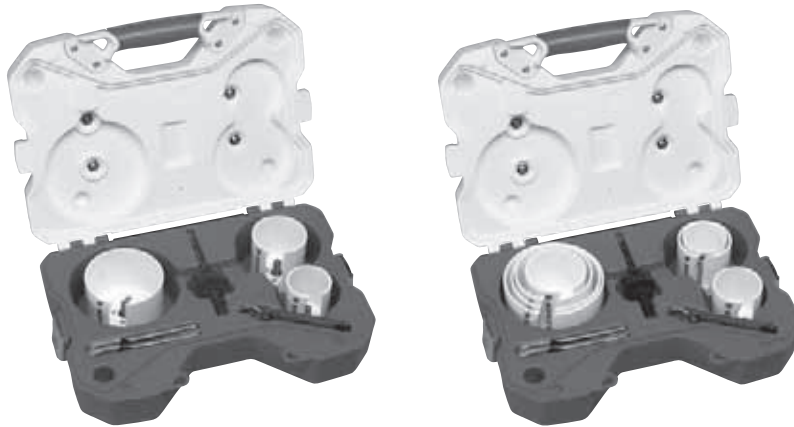
LENOX®

Drills Faster Than Self-Feed Bits

Product Number	Cutter Size (Inches)	Cutting Depth (Inches)	Applications
25434-34HC	2-1/8	2	1-1/2" pipe & lock installation
25436-36HC	2-1/4	2	1-1/2" pipe & 45/90° bend couplings
25441-41HC	2-9/16	2	2" pipe
25444-44HC	2-3/4	2	2" pipe & 45/90° bend couplings
25454-54HC	3-3/8	2	3" duct pipe & bendable duct pipe
25456-56HC	3-5/8	2	3" pipe
25464-64HC	4	2	3" pipe & coupling & dryer vent
25469-69HC	4-5/16	2	4" duct pipe & bendable duct pipe
25474-74HC	4-5/8	2	4" pipe
25480-80HC	5	2	4" pipe & coupling
25487-87HC	5-1/2	2	Toilet flange
25500-00HC	6-1/4	2	6" duct pipe
25310-SB38			3/8" stubby spade bit
25312-DIAF1			Diamond file for re-sharpening



ONE TOOTH® ROUGH WOOD HOLE CUTTER KITS



25476-301G

7 PIECE

One each of ONE TOOTH® HOLE CUTTERS: 2-1/8", 2-9/16", 3-5/8". Arbor: 2L. Diamond file and 3/8" stubby spade bits. Plastic case.

25477-701G

11 PIECE

One each of ONE TOOTH® HOLE CUTTERS: 2-1/8", 2-1/4", 2-9/16", 2-3/4", 3-5/8", 4", 4-5/8". Arbor: 2L. Diamond file and 3/8" stubby spade bits. Plastic case.

THE LENOX® Advantage™

- **Long lasting**
High speed steel tooth can cut over 300 holes before re-sharpening.
- **Cuts fast**
3/8" stubby spade bit helps remove material quickly.
- **Unique cutting application**
Provides the ability to cut at an angle.
- **Rough wood cutting**
Cuts wet, frozen, pressure treated and hardwoods without binding.
- **Easy to use**
Patented design allows for easy plug ejection.
- **Use standard arbor**

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HOLE SAW ARBORS AND ACCESSORIES

Hole Saw Arbors & Accessories for All Your Drilling Needs



LENOX®

THE LENOX® Advantage™

- Added durability**
 Hardened carbon steel for strength through the cross-section
- Starts on contact**
 Split point pilot drill for faster penetration and less walking.
- Simple plug ejection**
 7L arbor is designed with sliding pins to easily eject plugs from hole saws.
- Easy to Use**
 Power groove shank allows arbors to be used in LENOX Uni-Drive Quick Change System. No tool changes required (3L, 5L, 6L and 7L).

Arbors

Product Number	Fits Hole Saws	Shank Type	Shank Size (Inches)
30001-1L	9L-19L	Hex	1/2 & larger
30002-2L	20L-96L	Hex	1/2 & larger
30003-3L	20L-96L	Solid/Hex	1/2 & larger
30004-4L	9L-19L	3 sided	1/4 & larger
30005-5L	9L-19L	Hex	3/8 & larger
30006-6L	20L-96L	Hex	3/8 & larger
30007-7L	24L-96L	Hex	3/8 & larger

Accessories

Product Number	Description	Chuck Size (Inches)	Fits Arbor Number
30850-4321	Pilot Drill (1 per pack)	1/4	1L, 2L or 4L
30853-B4321	Pilot Drill (25 per pack)	1/4	1L, 2L or 4L
30851-56PD	Pilot Drill (1 per pack)	1/4	3L, 5L, 6L or 7L
30297-123CT	Carbide Tipped Pilot Drill (1 per pack)	1/4	1L, 2L, 4L or 7L
30298-65CTPD	Carbide Tipped Pilot Drill (1 per pack)	1/4	5L or 6L
30857-AA1	Arbor Adaptor (5 per pack)		1L, 4L or 5L
30848-18X	18" Extension (1 per pack)	1/2 & larger	1L, 2L or 3L
30847-12X	12" Extension (1 per pack)	1/2 & larger	1L, 2L or 3L
30843-10X*	10" Extension (1 per pack)	3/8 & larger	5L, 6L or 7L
30846-55X	5-1/2" Extension (1 per pack)	1/2 & larger	1L, 2L or 3L

* Fits arbores hole saws



AA1



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BI-METAL HOLE SAWS



- *Optimized tooth design for superior performance while cutting metal*
- *M3 steel provides faster cuts and longer life than the M2 steel of the industry standard product*
- *Versatility of deep-cut style allows users to cut either wood or metal*

Cat. No.	Hole Saw Size	Recommended Speed In Steel RPM
D180012	3/4" (19mm)	460
D180014	7/8" (22mm)	390
D180016	1" (25mm)	350
D180018	1-1/8" (29mm)	300
D180020	1-1/4" (32mm)	275
D180022	1-3/8" (35mm)	250
D180024	1-1/2" (38mm)	230
D180028	1-3/4" (44mm)	195
D180032	2" (51mm)	170
D180034	2-1/8" (54mm)	160
D180036	2-1/4" (57mm)	150

Cat. No.	Hole Saw Size	Recommended Speed In Steel RPM
D180038	2-3/8" (60mm)	140
D180040	2-1/2" (64mm)	135
D180044	2-3/4" (70mm)	125
D180048	3" (76mm)	115
D180056	3-1/2" (89mm)	95
D180058	3-5/8" (92mm)	95
D180064	4" (102mm)	85
D180068	4-1/4" (108mm)	80
D180072	4-1/2" (114mm)	75
D180080	5" (127mm)	65
D180096	6" (152mm)	55

HOLE SAW ACCESSORIES

DEWALT offers a full range of standard and quick change mandrels for versatility in a wide range of hole saw applications. All quick change mandrels utilize hardened steel construction and have been tested through 15,000+ cycles to deliver jobsite durability

DW1803 features a spring-loaded collar that automatically engages drive pins to prevent hole saws from locking to the mandrel and double set screws with a recessed combination head for quick and easy centering bit changes.

DW1808 features the patented DEWALT Pilot Point® tip for faster material penetration, particularly in metal.



DW1803



DW1800

DW1808

Cat#	Description
DW1800	1/4" Mandrel for 9/16" to 1-3/16" Hole Saws
DW1803	7/16" Quick Change Mandrel for 1-1/4" to 6" Hole Saws
DW1808	Long Replacement Pilot Bit for DW1800, DW1802, DWS1803, DW1804 AND DW1818



HOLE SAW KITS

49-22-4066 13 PIECE 4/6 TOOTH PLUMBER'S AND ELECTRICIAN'S KIT

- Consists of 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2" sizes
- Arbor Nos. 49-56-6950, 49-56-7140
- Pilot Drill No. 49-56-8000
- Arbor Spacer No. 49-67-0120
- Arbor Adapter No. 49-56-6560 and sturdy Plastic Case



49-22-4086 17 PIECE 4/6 TOOTH DELUXE ELECTRICIAN'S KIT

- Consists of 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/2", 3" sizes
- Arbor Nos. 49-56-7000, 49-56-7140
- 3 Pilot Drills No. 49-56-8000
- Sturdy plastic case



HOLE SAW ACCESSORIES

PILOT DRILLS 1/4" HIGH SPEED

49-56-8000 For Use with Hole Saw Arbors 49-56-6950, 49-56-7000, 49-56-7055, 49-56-7130 and 49-56-7140. For General Cutting of Wood and Metal.



49-56-8002 With 1/4" Fluting for Light Gauge Metals. For use with Hole Saw Arbors 49-56-6950, 49-56-7000, 49-56-7055, 49-56-7130 and 49-56-7140.



49-56-8003 For Use with Hole Saw Arbors 49-56-6960 and 49-56-6970. For General Cutting of Wood and Metal.



49-56-8010 For use with Hole Saw Arbors 49-56-7010 and 49-56-7150. For General Cutting of Wood and Metal.



1/4" CARBIDE-TIPPED



49-56-8005 For use with Carbide-Tip Hole Saws When Drilling Ceramic Tile. Use with Hole Saw Arbors 49-56-6950, 49-56-7000, 49-56-7055, 49-56-7130 and 49-56-7140.

HEX EXTENSION SHANKS

One Piece 7/16" For Hole Saws, Selffeed Bits and Auger Bits (1" Dia. and Larger) with 7/16" Hex Shank.

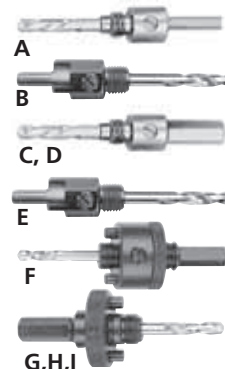


CATALOG NUMBER	REPLACEMENT SET SCREW CATALOG NO.	REPLACEMENT 1/8" SOCKET WRENCH CATALOG NO.	LENGTH
48-28-4001	06-83-2711	49-96-0060	5-1/2"
48-28-4006	06-83-2711	49-96-0060	12"
48-28-4011	06-83-2711	49-96-0060	18"
48-28-4016	06-83-2711	49-96-0060	24"

ARBOR SPECIFICATIONS

CATALOG NUMBER	SHANK	THREAD	STANDARD PILOT	CAN USE 1/4" FLUTE PILOT	CAN USE CARBIDE PILOT	FOR HOLE SAW DIAMETERS
A 49-56-6950*	1/4" Round	1/2" - 20	49-56-8000	49-56-8002	49-56-8005	9/16" - 13/16"
A 49-56-6951 Carbide Pilot*	1/4" Round	1/2" - 20	49-56-8005			9/16" - 13/16"
B 49-56-6960	1/4" 3 Flats	1/2" - 20	49-56-8003			9/16" - 13/16"
C 49-56-7000	7/16" Hex	1/2" - 20	49-56-8000	49-56-8002	49-56-8005	9/16" - 13/16"
D 49-56-7010	3/8" Hex	1/2" - 20	49-56-8010			9/16" - 13/16"
E 49-56-6970	1/4" 3 Flats	5/8" - 18	49-56-8003			1 1/4" - 2"
F 49-56-7055 Push Pins	7/16" Hex	5/8" - 18	49-56-8000	49-56-8002	49-56-8005	1 1/4" & up
H 49-56-7130 Snap Pins	5/8" Hex	5/8" - 18	49-56-8000	49-56-8002	49-56-8005	1 1/4" & up
G 49-56-7140 Snap Pins	7/16" Hex	5/8" - 18	49-56-8000	49-56-8002	49-56-8005	1 1/4" & up
I 49-56-7150 Snap Pins	3/8" Hex	5/8" - 18	49-56-8010			1 1/4" & up

* Arbor Adapter 49-56-6560. Arbor Spacer 49-67-0120 available for use thru 1 1/2" Hole Saw.





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SELFEED BITS AND BIT KITS



49-22-0130

CONTRACTORS' BIT KIT

Complete assortment of the most commonly used MILWAUKEE selffeed bits for big hole drilling. Sizes include 1", 1-1/8", 1-1/4", 1-1/2", 1-3/4", 2-1/8", 2-9/16" diameters. Also 5-1/2" one piece shank and coupling extension and carrying case.



49-22-0065

PLUMBERS' BIT KIT

Complete assortment of the most commonly used MILWAUKEE bits for big hole drilling. Quick change auger sizes include 7/8" (48-13-6552), 1-1/8" (48-13-6554), 1-1/4" (48-13-6555), 1-1/2" (48-13-6557) auger bits and selffeed bits in 1-3/4", 2-1/8", 2-9/16" diameters. Also 5-1/2" one piece - shank and coupling - extension and carrying case.



SELFEED BITS

- All Sizes Have Removable And Replaceable Feed Screws • Two Feed Screws Furnished With Each Bit
- Feed Screw Provides Fast - Effortless Feeding Even In Gummy Woods
- Inside Cutting Plane Shaves Hole Radius For Clean - Smooth Holes Without Pressure

CATALOG NUMBER	DESCRIPTION	SHANK TYPE	RECOMMENDED WITH DRILL MODELS	FOR STD. PIPE SIZES
48-25-1001	1" diameter	7/16" Hex	For 1/2" Pistol grip and larger drills	1/2"
48-25-1121	1-1/8" diameter	7/16" Hex		3/4"
48-25-1251	1-1/4" diameter	7/16" Hex		
48-25-1371	1-3/8" diameter	7/16" Hex		
48-25-1501	1-1/2" diameter	7/16" Hex		1"
48-25-1751	1-3/4" diameter	7/16" Hex	For 1/2" D-handle drills and larger drills	1"
48-25-2001	2" diameter	7/16" Hex		1-1/2"
48-25-2121	2-1/8" diameter	7/16" Hex		
48-25-2251	2-1/4" diameter	7/16" Hex		
48-25-2561	2-9/16" diameter	7/16" Hex	For 1/2" D-handle drills and larger drills except 1001-1 and 1007-1	2"
48-28-6870	Feed screw - Coarse Thread - 1/4"			
49-96-0060	Socket wrench - 1/8"			
06-83-2626	Set screw			



LARGE SELFEED BITS

- Large Selffeed Bits In 3", 3-5/8" And 4-5/8" Sizes Have Double Inside
- Cutter Blades That Shave Hole Radius For Clean, Smooth Holes Without Pressure

CATALOG NUMBER	DESCRIPTION	SHANK TYPE	RECOMMENDED WITH DRILL MODELS	FOR STD. PIPE SIZES
48-25-3001	3" diameter	3 Milled flats	1675-1, 1700-1 and larger	2-1/2"*
48-25-3621	3-5/8" diameter	3 Milled flats	1675-1, 1700-1 and larger	3"*
48-25-4621	4-5/8" diameter	3 Milled flats	1675-1, 1750-1 and larger	4"*

*Cast iron or copper pipe size



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VARI-BIT® STEP DRILL BITS



Drills Fast, Clean, Round Holes



Accurate Burr-Free Holes
Patented two flute design cuts fast, clean round holes

Durable
Steam oxide coating adds durability

Long Life
Enhanced flute design removes chips rapidly, ensuring longer life

Starts on Contact
Split point design for fast penetration and less walking



Material Shown:
stainless steel
.100" / 2mm.

SPECIFICATIONS (1 PER PACK)

LENEX VARI-BIT	NUMBER OF HOLE SIZES	HOLE SIZES INCHES / MM INCHES/MM	ELECTRIC DRILL SIZE	UNIBIT®	KLEIN UNIBIT®
30881-VB1	13	1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2", 3, 4, 4.5, 5.5, 6, 7, 8, 8.5, 9.5, 10, 11, 12, 12.5	1/4" / 6 & larger	1	1-59001
30882-VB2	9	1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1, 12.5, 14, 16, 17.5, 19, 20.5, 22, 23.5, 25	3/8" / 9.5 & larger	20	2-59002
30883-VB3	9	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 6, 8, 9.5, 11, 12.5, 14, 16, 17.5, 19	3/8" / 9.5 & larger	3	3-59003
30884-VB4	6	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 4.5, 6, 8, 9.5, 11, 12.5	1/4" / 6 & larger	2	5-59005
30886-VB6	2	3/8", 1/2", 9.5, 12.5	1/4" / 6 & larger	10, 12*	7-59007
30887-VB7	1	7/8" / 22 (for 1/2" / 12.5 conduit)	3/8" / 9.5 & larger	11	8-59008
30908-VB8	12	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 4.5, 6, 8, 9.5, 11, 12.5, 14, 16, 17.5, 19, 20.5, 22	3/8" / 9.5 & larger	4	14-59014
30888-VB11	2	7/8", 1 1/8" / 22, 28.5 (for 1/2" / 12.5 and 3/4" / 19 conduit)	3/8" / 9.5 & larger	13**	11-590011
30912-VB12	5	7/8", 1 1/8", 1 1/4", 1 1/2", 1 3/8", 22, 28.5, 31, 32, 35	3/8" / 9.5 & larger	None	None
30925-VBX8	Extension 8" / 204 mm. 1 per clam. Fits 3/8" / 9.5 mm drill chuck & larger.				

*Lenox Vari-Bit #6 combines Unibit® #10 & #12.
**Unibit® #13 has 1 1/8" / 28.5 mm step only. Vari-Bit has both 7/8" / 22 mm & 1 1/8" / 28.5 mm.

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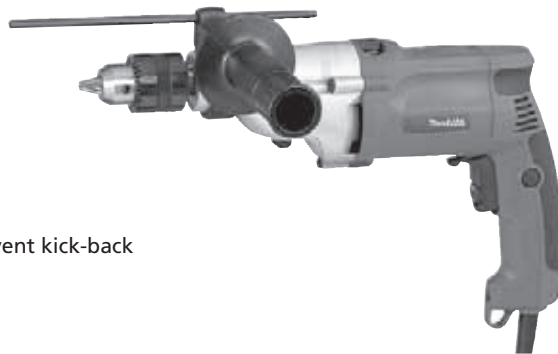
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HAMMER DRILLS



HP2050F 3/4" HAMMER DRILL WITH L.E.D. LIGHT

- Powerful 6.6 AMP motor and lightest tool on the market (5.1 lbs.)
- No Load RPM: Low 0-1,200 High 0-2,900
- BPM: Low 0-24,000 High: 0-58,000
- Built-in shock-proof, high output, white L.E.D. light
- Capacities: Concrete 3/4", Steel Low/1/2" High/5/16", Wood/ 1-9/16"
- 2-Modes: hammering with rotation and rotation only
- Positive Stop Mode Selector prevents accidental mode disengagement
- Built-in Torque Limiter stops bit rotation when hitting reinforcement to prevent kick-back
- Recessed lock-on button for continuous use
- Includes: side handle, depth gauge, chuck key and tool case



DW520K 1/2" VSR DUAL RANGE HAMMERDRILL KIT

- 8.2 AMP motor, 750 watts out
- No Load Speed, 0-1,100 / 0-2,700 rpm
- 0-19,000 / 0-46,000 bpm
- High/low gear for high speed drilling, or high torque applications
- Dual mode: hammerdrill/drill for wood, steel or masonry application
- Rubber grip and two-finger trigger for increased comfort
- 360 degree side handle with depth rod offers greater control, versatility, and increased depth accuracy
- Light weight 5.3 lbs design for less user fatigue
- Includes: 360° side handle, depth rod, chuck key with holder and heavy-duty kit box



5381-20 1/2" SINGLE SPEED HAMMER-DRILL

- 8.5 AMP motor, 120 AC
- No Load Speed: 0-1,800 RPM
- No Load BPM: 0-28,000
- Single speed motor optimized for concrete fastening: 1-1,800 rpm, 0-28,000 bpm
- Includes: depth gauge and side handle



ROTARY HAMMERS



HR1830F

11/16" ROTARY HAMMER KIT WITH L.E.D. LIGHT

- Extremely compact and lightweight at only 3.7 lbs.
- Dual operation mode; rotation only and hammering with rotation
- 4.2 AMP motor, variable speed (0-1,500 RPM) and (0-5,000 BPM)
- No hammering when idling function ensures extra-low vibration under no load
- Soft-grip side handle with elastomer for better comfort
- Ideal for overhead applications and working in confined areas
- Carbon brushes for extended service life
- Recessed lock-on button for continuous use
- Includes: Side handle, depth gauge and carrying case



HR2010

13/16" SDS ROTARY HAMMER

- Variable Speed 0-900 RPM • 5.5 AMP motor; 0-4,000 BPM
- 1/2" capacity in steel and 15/16" in wood • Double insulated, compact and well balanced
- Variable speed for precise bit control • Easy bit change and accepts "SDS-Plus" bits
- Torque limiting clutch disengages if bit jams
- Includes: depth gauge, dust cup and plastic tool case



HR2432

1" SDS PLUS ROTARY HAMMER

- Powerful 6.7 AMP motor; 0-1,000 RPM and 0-4,500 BPM
- Lightweight at 6.6 lbs. with impact energy of 1.6 ft.lbs.
- 3-mode operation: "rotation only", "hammering with rotation" or "hammering only"
- 1" capacity in concrete (with core bits)
- 1/2" capacity in steel and 1-1/4" in wood
- One touch sliding chuck for easy bit changes; accepts SDS-Plus bits
- Positive bit lock ensures that the bit is securely fastened
- Includes: dust bag assembly, side handle, bit grease, dust cap and tool case



Large fan and dust bag for efficient dust collection

HR2455X

1" ROTARY HAMMER WITH D-HANDLE

- 2X faster drilling with synchronized RPM and BPM
- Powerful 7.0 AMP motor; 0-1,100 RPM and 0-4,500 BPM
- Variable speed; reversible for complete control
- 3-mode operation: "rotation only", "hammering with rotation" or "hammering only"
- Chisel rotates 360° with 40 different locking positions
- 1" capacity in concrete (with core bits)
- 1/2" capacity in steel and 1-1/4" in wood
- Built-in torque limiter helps prevents kickback
- One-touch sliding chuck for easy bit changes; accepts SDS-Plus bits
- Includes: 5 piece bit set, side handle, depth gauge and tool case





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ROTARY HAMMERS



HR3000C

1-3/16" SDS ROTARY HAMMER

- Electronic variable speed control dial (360-720 RPM)
- Powerful 8.2 AMP motor; 1,650-3,300 BPM
- 3-modes: "rotation only", "hammering with rotation" or "hammering only"
- 3-1/2" capacity in concrete (with core bits)
- Torque limiting system ensures stable drilling in all materials
- 24 bit angle settings adjust the bit to the desired position
- Reduced vibration for less operator fatigue
- LED light indicates when to replace carbon brushes
- Double insulated with low noise at only 103 dB
- Includes: depth gauge, bit grease and plastic tool case



HR3851

1-1/2" SPLINE DRIVE ROTARY HAMMER (AC/DC)

- "Spline" type drive system for maximum power
- Air Cushion Design for Hard Hitting and Fast Drilling
- Heavy-duty 10 AMP motor; 240 RPM and 2,900 BPM
- Easy lever change from "rotary hammering" to "hammering only"
- All ball and needle bearings for longer tool life
- 4-5/8" capacity in concrete (with core bits)



HR4010C

1-9/16" SDS-MAX ROTARY HAMMER

- Counterbalance system reduces vibration for comfort
- Heavy-duty 11 AMP motor; 235-480 RPM and 1,350-2,750 BPM
- Preset variable speed dial with 5 settings
- 2-mode switch for "hammering only" or "hammering with rotation"
- 4-1/8" capacity in concrete (with core bits)
- One touch sliding chuck accepts SDS-Max hammer steel
- 16.4 ft. jobsite cord for greater versatility and instant power
- LED light indicates when to replace carbon brushes
- Includes: side handle, d-handle, depth gauge, bit grease and tool case



AVTTM
Anti Vibration Technology

HR4040C

1-9/16" SPLINE DRIVE ROTARY HAMMER

- "Spline" type drive system for maximum power
- Electronic variable speed control dial (230-450 RPM)
- Powerful 9.6 AMP motor; 1,250-2,500 BPM
- Dual Purpose for "Hammering Only" or "Rotation with Hammering"
- 4-1/8" capacity in concrete (with core bits)
- Reduced vibration for less operator fatigue
- LED light indicates when to replace carbon brushes
- 2 side handle options (straight & D-handle) that swivel 36°
- Double insulated and soft start electronic switch
- Includes: depth gauge, bit grease and plastic tool case





ROTARY HAMMERS



HR4500C

1-3/4" SDS-MAX ROTARY HAMMER

- Electronic variable speed control dial (120-240 RPM)
- Heavy-duty 13 AMP motor; 1,250-2,500 BPM
- Dual purpose for "hammering only" or "rotation with hammering"
- Ball clutch torque limiter ensures stable torque control
- 4-7/8" capacity in concrete (with core bits)
- Reduced Vibration for Less Operator Fatigue
- LED light indicates when to replace carbon brushes
- 2 side handle options (straight & D-handle)
- 12 bit angle settings adjust the hammer steel to the desired position
- Includes: straight handle, d-handle, depth gauge, bit grease and plastic tool case



HR5000

2" SPLINE DRIVE ROTARY HAMMER (AC/DC)

- "Spline" type drive system for maximum power
- Air Cushion Design for Hard Hitting and Fast Drilling
- Powerful 11 AMP motor; 260 RPM and 2,100 BPM
- Easy lever change from "hammering only" or "rotation with hammering"
- 5-7/8" capacity in concrete (with core bits)
- Torque limiting clutch with automatic brush cutoff to protect motor
- Large comfortable grip swivels 360° for easy handling
- Factory grease packed for reduced maintenance
- Includes: hex wrench and plastic tool case



HR5001C

2" SDS-MAX ROTARY HAMMER

- 120-240 RPM; 1,100-2,150 BPM • Electronic variable speed control dial
- Hard Hitting and Reduced Vibration
- Dual purpose for "hammering only" or "rotation with hammering"
- One-touch sliding chuck for easy bit change
- Light indicates when to replace carbon brushes
- Side grip swivels 360°
- Large comfortable trigger switch
- Includes: bit grease and plastic tool case



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Comes First**



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ROTARY HAMMERS

DEWALT®

D25213K

1" D-HANDLE THREE MODE SDS HAMMER

- 2.5 ft-lbs of impact energy provide fast drilling and powerful chipping
- 8.0 AMP motor provides high performance and overload protection
- 0-1,150 No Load RPM, 0-4,300 BPM
- Reverse feature assists in the removal of fasteners
- Variable speed allows for precise hole placement
- Factory set clutch reduces sudden, high torque reactions if bit jams
- 360° side handle adjusts easily for preference or use in tight spaces



D25313K

1" L-SHAPE SDS ROTARY HAMMER

- 2.5 ft-lbs of impact energy for fast drilling and powerful chipping
- 8.0 AMP motor provides high performance and overload protection
- 0-1,150 No Load RPM, 0-4,300 BPM
- Compact hammer at only 11-1/2" for ease of use in tight spaces
- Light weight L-Shape design provides balance and control
- Allows for the use of the D25300D dust collection system
- Chipping (hammer-only) mode ideal for light chipping applications
- Includes: standard SDS chuck



D25500K

1-9/16" SDS MAX ROTARY HAMMER

- 11.0 AMP motor
- 140-280 RPM
- 1,330-2,660 BPM
- Electronic Variable Speed allows the user to control the speed of drilling and chipping
- Rear handle mount means less bending over when using tool in down drilling applications
- 360° side handle allows user the ability to position the side handle wherever it best suits the application
- Includes: 360° side handle, depth rod & heavy-duty kit box



D25600K

1-3/4" SDS MAX ROTARY HAMMER

- 11.5 AMP motor
- 140-280 RPM
- 1,330-2,660 BPM
- Electronic Variable Speed allows the user to control the speed of drilling and chipping
- Rear handle mount means less bending over when using tool in down drilling applications
- Modular construction allows service technicians to repair tools quickly for less down time when you service tools
- 360° side handle allows user the ability to position the side handle wherever it best suits the application
- Includes: 360° side handle, depth rod & heavy-duty kit box



D25551K

1-9/16" SPLINE ROTARY HAMMER

- 11.0 AMP motor
- 140-280 RPM
- 1,330-2,660 BPM
- Spline toolholder is compatible with most bits the user has
- Rubber grip helps reduce the level of vibration felt by the user when operating the tool
- Rear handle mount means less bending over when using tool in down drilling applications
- Includes: 360° side handle, depth rod & heavy-duty kit box



D25650K

1-3/4" SPLINE ROTARY HAMMER

- 11.5 AMP motor
- 140-280 RPM
- 1,330-2,660 BPM
- Electronic Variable Speed allows the user to control the speed of drilling and chipping
- Spline toolholder is compatible with all spline drive bits
- Rear handle mount means less bending over when using tool in down drilling applications
- Includes: 360° side handle, depth rod & heavy-duty kit box





ROTARY HAMMERS



11224VSR

7/8" SDS-PLUS® ROTARY HAMMER

- Powerful 6.9 AMP motor with 0-1,00 RPM and 0-6,150 BPM
- SDS-plus® bit system tool-free bit changes with automatic bit locking
- Variable-speed reversing trigger for accurate bit starting
- Vario-Lock™ positioning rotates and locks chisel into 36 different positions
- D-handle design for extra control, ideal for overhead and downward drilling
- Multi-function selector 3 modes of operation, rotation only, rotary hammer and hammer only mode
- Integral clutch helps minimize torque reaction • Double insulated, UL listed, complies to OSHA
- Includes: Auxiliary Handle, 360° Depth Gauge and Carrying Case



11263EVS

1-3/4" SDS-MAX® ROTARY HAMMER

- Powerful 13.5 AMP motor with 145/280 RPM and 1,350/2,800 BPM
- SDS-max® bit system tool-free bit changes with automatic bit locking
- "Combination" dual mode selector 2 modes of operation, rotary hammer and hammer only mode
- Variable speed dial for accurate bit starting and controlled chipping applications
- Constant Response™ circuitry provides soft-start, maintains constant speed under load, provides overload protection
- Turbo™ Power Feature Delivers 20% more power in hammer only mode
- Service Minder™ light indicates when preventative maintenance is required
- Vario-Lock™ positioning rotates and locks chisel into 12 different positions to optimize working angle
- Includes: Auxiliary Handle and Carrying Case



11241EVS

1-9/16" SDS-MAX® COMBINATION HAMMER

- 170-340 RPM • 1,700-3,300 BPM
- SDS-max® bit system - tool-free bit changes with automatic bit locking
- "Combination" dual mode selector- 2 modes of operation, rotary hammer & hammer only mode
- Vario-Lock™ positioning - rotates and locks chisel into 12 different positions to optimize working angle
- Includes: auxiliary handle and carrying case



11248EVS

1-9/16" SPLINE COMBINATION HAMMER

- 170-340 RPM; 1,700-3,300 BPM
- Spline/round hex bit system - tool-free bit changes, with automatic bit locking
- Auto-Max® dial - variable speed dial ensures the maximum speed & power
- "Combination" dual mode selector- 2 modes of operation, rotary hammer and hammer only mode
- Includes: 360° auxiliary handle and carrying case



11245EVS

2" SDS-MAX® COMBINATION HAMMER

- 14 AMP, 120-250 RPM and 1,100-2,500 BPM
- SDS-max® bit system features tool-free bit changes with automatic bit locking
- "Combination" dual mode selector with 2 modes of operation: rotary hammer and hammer only
- Constant Response™ Circuitry provides soft-start and maintains constant speed under load, provides overload protection
- Service Minder™ light indicates when preventative maintenance is required
- Vario-Lock™ positioning rotates and locks chisel into 12 different positions
- Includes: 360° Auxiliary Handle and Carrying Case



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ROTARY HAMMERS



5383-21

3/4" SDS DRIVE PISTOL GRIP ROTARY HAMMER

- Powerful 6.0 AMP motor provides 1.7 ft.-lbs. of energy per blow
- Variable speed, Reversing: 0-1270 No Load RPM, 0-5000 No Load BPM
- 3/4" solid bit capacity, 1-3/4" core bit capacity
- Two modes of operation: rotation with hammering and rotation only
- Speed control switch allows for controlled starts for less bit walk
- Lightweight, compact and well balanced design with ergonomically shaped cushioned grip
- Includes: depth gauge, side handle and carrying case



5363-21

1" COMPACT SDS ROTARY HAMMER

- 7.0 AMP reversible motor delivers 2.0 ft.-lbs. of impact energy
- 0-1,400 No Load RPM and 0-5,980 No Load BPM
- Three modes of operation - Hammer Drill / Drill / Chipping
- Anti-Vibration System, soft grip handle and two-finger trigger
- All metal gear case and block construction for optimal bearing and gear seating
- Compact and lightweight, L-shape design provides excellent balance and maximum control in overhead drilling applications
- Rotating Brush Plate for equal power in forward and reverse for easy removal of jammed bits and extended brush life
- Includes: depth gauge, side handle and carrying case



5315-21

1-1/2" SDS-MAX ROTARY HAMMER

- Powerful 11.0 AMP motor with Electronic Feedback Control Circuit
- Dial speed control: 190-385 No Load RPM, 1700-3400 No Load BPM
- Two Drilling Modes: Hammer with Rotation & Hammer Only
- Delivers 7.9 ft.-lbs. of impact energy
- Patented Vibration Isolation System (both grips)
- Single motion bit insertion and positionable chisel lock
- 1-1/2" solid bit capacity, 4" thin wall core bit capacity
- Includes: depth gauge, side handle and carrying case





DEMOLITION HAMMERS



HM0810B

11 LB. DEMOLITION HAMMER

- 8.3 AMPS with 2,900 BPM and 7.6 ft.lbs. of Impact Energy
- Ideal for Light Chiseling, Chipping and Scaling Operations
- Compact and lightweight for maximum control
- Unique anti-vibration spring is positioned between tool body and rear handle or reduced operator fatigue
- Accepts same shank demolition bits as spline shank hammers
- One-touch tool retainer action for easy accessory installation
- Carbon brushes last for approximately 150 hours
- Includes: #4 hex wrench and plastic tool case



HM0860C

11 LB. DEMOLITION HAMMER

- Powerful 10 AMP Motor and Compact Design
- 1,100-2,650 BPM with 11.4 ft. lbs. of Impact Energy
- Electronic variable speed adjusting dial for controlled operation
- Bit can be set at 12 different positions for operation convenience
- Low vibration and noise levels for increased user comfort
- Service reminder light indicates when to replace carbon brushes
- Accepts commonly used SDS-Max bits
- Includes: bit grease and plastic tool case



HM1211B

20 LB. DEMOLITION HAMMER (AC/DC)

- Powerful 10 AMP motor (2,000 BPM) for fast and efficient operation
- Air Cushion Design for powerful performance
- Accepts commonly used 3/4" steel
- D-shaped four position rubber grip side handle absorbs vibration
- One touch latch bit retainer for quick bit changes
- Automatic brush cut-out when periodic servicing is due
- Includes: hex wrench and plastic tool case



HM1242C

20 LB. DEMOLITION HAMMER

- Electronic variable speed control; 950-1,900 BPM
- Powerful 13 AMP motor with 21.9 ft. lbs. Impact Energy
- Accepts 3/4" Hex 21/32" round steel bit types
- Vibration absorbing D-shaped grip side handle adjusts to 8 different positions forward and back
- Service reminder light indicates when to replace carbon brushes
- One touch sliding chuck for easy bit installation and removal
- 12 angle settings of bit
- Includes: bit grease and plastic tool case



HM1202C

20 LB. DEMOLITION HAMMER

- Powerful 13.0 AMP motor • Electronic Variable Speed Control
- Hard hitting 950-1,900 BPM; ideal for horizontal work
- Rubber D-shaped side handle adjusts to 8 different positions
- One touch sliding chuck for easy bit installation and removal
- 12 angle settings of bit; Accepts SDS-Max bits
- Dust proof chuck cap protects tool from damage from dust and debris
- Service reminder light indicates when to replace carbon brushes
- Includes: bit grease, bull point and plastic tool case



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DEMOLITION HAMMERS

DEWALT®

D25890K HEAVY-DUTY 19 LB. SDS MAX DEMOLITION HAMMER

- Powerful 15 AMP motor provides 1,152-2,304 BPM Loaded Speed
- Variable Impact Control Dial with 8 settings
- 15 ft-lbs of impact energy provides maximum performance in chipping applications
- SHOCKST™ - Active Vibration Control reduces vibration by up to 70%
- Lock-on switch reduces user fatigue while chipping
- Modular design provides easy access to switch, brushes, & cord-set



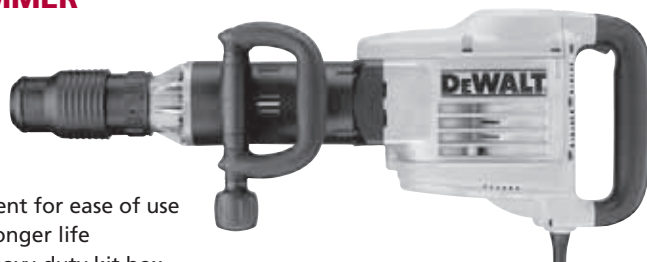
D25900K HEAVY-DUTY 22 LB. SDS MAX DEMOLITION HAMMER

- 14 AMP motor; 1,020-2,040 BPM
- Variable Impact Control Dial (19 settings) ensures accurate impact energy depending on the application
- One-step chisel rotation (12 positions) allows the user to quickly and accurately adjust the chisel, not the tool
- Variable position side handle allows 360° rotation and 150° adjustment for ease of use
- Includes 360° adjustable side handle and heavy-duty kit box



D25940K HEAVY-DUTY 27 LB. 3/4" HEX DEMOLITION HAMMER

- 15 AMP motor; 1,620 BPM
- Non-air pumping beatpiece eliminates masonry dust from entering the unit extending tool and seal life
- One-step chisel rotation (12 positions) allows the user to quickly and accurately adjust the chisel, not the tool
- Variable position side handle allows 360° rotation and 150° adjustment for ease of use
- 3/4" hex toolholder with rubber dampers absorb energy providing longer life
- Includes 360° adjustable side handle, 16-inch bull point chisel and heavy-duty kit box



POWER SCRAPER

HK1810 POWER SCRAPER

- 5 AMP; 0-3,200 BPM
- Air cushion hammering for long tool life
- Quick bit retainer for easy tool changes
- Automatic brush cut-out system to protect motor
- Factory grease packed for reduced maintenance
- All ball and needle bearings for longer tool life • Double insulated
- Includes: 1-3/16" scaling chisel, 2" scaling chisel, bull point, plastic tool case, dust cover

Makita®

INDUSTRIAL POWER TOOLS





DEMOLITION AND BREAKER HAMMERS



HM1304B 35 LB. DEMOLITION HAMMER

- 35 lbs. for both horizontal and vertical applications
- Powerful 13.0 AMP motor; 1,450 BPM
- Accepts popular 1-1/8" hex hammer steel
- Side handle swivels 360 degrees and adjusts to several positions
- Convenient lock-on button for continuous operation
- Comfortable ergonomically designed rubber grip
- Low noise level at only 103 dB
- Lowest vibration level in its class at 16 (meters/second)
- Includes: Steel Tool Case



HM1810 70 LB. BREAKER HAMMER

- Powerful 15 AMP motor produces efficient 1,100 BPM to tackle the most demanding jobs
- Counterbalance system reduces vibration to only 8 m/s² for unmatched comfort
- Lowest noise level in its class at only 107dB
- Accepts popular 1-1/8" hex hammer steel
- Automatic brush cut-out system protects commutator for longer tool life
- 16.4 ft. jobsite cord for greater versatility and instant power
- Cylindrical tool holder enables new bolt holes to be drilled should the original bolts break
- AC/DC switch for use with alternative power sources
- Includes: Hex Wrench #5



BOSCH

11316EVS SDS-MAX® - DEMOLITION HAMMER

- 14 AMP • 900-1,890 BPM • Vario-Lock™ 12 chisel positioning
- SDS-max™ bit system for tool-free bit changes, dust protection and maximum impact energy transfer rate
- Service Reminder™ light indicated when preventative maintenance is required
- Variable-speed dial for controlled chipping applications
- Includes: auxiliary handle and carrying case



11304 BRUTE™ BREAKER HAMMER

The Brute™ Breaker Hammer offers total portability. It will operate on 115V AC/DC (15 AMP wall outlet or 2,500 watt portable alternator). It breaks concrete fast at 1,340 BPM yet weighs in at just 66.5 lbs. and is only 29-3/4" long. Accepts standard 1-1/8" hex air tool steel with retaining collar or Bosch internal locking combo steel. Service-Minder® brush system, shock mounted handles and grease-packed gear box are just a few of this breaker's time and money saving features. Double Insulated, UL Listed, complies with OSHA.



See Brute™ Breaker Hammer Accessories on Page 107



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ROTARY HAMMER CARBIDE BITS

Powers
FASTENERS

S-4 PLUS™ SDS

SDS-Plus® Carbide Drill Bits are designed for use in a rotary hammer equipped with an SDS (slotted drive shaft) type chuck. The bits are manufactured to conform with ANSI Standard B212.15 and can be used to drill in concrete, block, brick, and soft stone.

As existing stock of the single tip SDS Plus Carbide Drill Bits are depleted, the new S-4 Plus™ SDS Carbide Drill Bits will be phased in, utilizing the catalog numbers listed below. S-4 Plus™ SDS Carbide Drill Bits are manufactured to conform with the same industry standard but have a new carbide and flute design providing up to 27% faster drilling.

USE IN: Rotary hammer with SDS chuck or SDS adapter

SIZE RANGE: 5/32" x 6" to 1-1/4" x 18"



CAT. NO.	SIZE	USABLE LENGTH	STD. POUCH
0302	5/32" x 6"	4"	1
0304	3/16" x 4"	2"	1
0306	3/16" x 6"	4"	1
0308	3/16" x 8"	6"	1
0310	3/16" x 10"	8"	1
0312	3/16" x 12"	10"	1
0314	3/16" x 14"	12"	1
0316	7/32" x 8"	6"	1
0317	7/32" x 10"	8"	1
0318	7/32" x 12"	10"	1
0319	7/32" x 16"	14"	1
0320	1/4" x 4"	2"	1
0321	1/4" x 6"	4"	1
0322	1/4" x 8"	6"	1
0323	1/4" x 11"	9"	1
0324	1/4" x 14"	12"	1
0325	1/4" x 16"	14"	1
0327	1/4" x 20"	18"	1
0329	5/16" x 6"	4"	1
0331	5/16" x 12"	10"	1
0333	3/8" x 6"	4"	1
0334	3/8" x 10"	8"	1
0336	3/8" x 12"	10"	1
0338	3/8" x 18"	16"	1
0339	3/8" x 24"	22"	1
0341	7/16" x 6"	4"	1
0343	7/16" x 12"	10"	1
0346	1/2" x 6"	4"	1
0348	1/2" x 10"	8"	1
0349	1/2" x 12"	10"	1
0351	1/2" x 18"	16"	1
0352	1/2" x 24"	22"	1
0354	9/16" x 6"	4"	1
0355	9/16" x 12"	8"	1
0359	5/8" x 8"	6"	1
0361	5/8" x 12"	10"	1
0362	5/8" x 18"	16"	1
0364	11/16" x 8"	6"	1

CAT. NO.	SIZE	USABLE LENGTH	STD. POUCH
0365	11/16" x 12"	10"	1
0368	3/4" x 8"	6"	1
0370	3/4" x 12"	10"	1
0371	3/4" x 18"	16"	1
0373	27/32" x 8"	6"	1
0375	7/8" x 8"	6"	1
0376	7/8" x 12"	10"	1
0377	7/8" x 18"	16"	1
0379	1" x 8"	6"	1
0380	1" x 10"	8"	1
0381	1" x 12"	10"	1
0382	1" x 18"	16"	1
0394†	Spline to SDS Adapter	-	1
0396†	SDS Max Adapter	-	1

† Use of SDS-Plus® drill bit in larger rotary hammers with an adapter will reduce bit life.

SPECIAL APPLICATION BIT FOR 3/8" PIPE SPIKE®

For use in hard aggregate concrete. Job site tests required.

CAT. NO.	SIZE	USABLE LENGTH	STD. POUCH
0390*	7mm x 4" Pipe SPIKE® Bit	2"	1

* Discontinued item once current stock exhausted.

SDS-PLUS® / S-4 PLUS™ SDS CARBIDE DRILL BIT BULK PACKS

CAT. NO.	SIZE	USABLE LENGTH	BITS PER PACK
0662	5/32" x 6"	4"	25
0664	3/16" x 4"	2"	25
0666	3/16" x 6"	4"	25
0668	3/16" x 8"	6"	25
0670	3/16" x 10"	8"	25
0675	7/32" x 6"	4"	25
0676	7/32" x 8"	6"	25
0677	7/32" x 10"	8"	25
0680	1/4" x 4"	2"	25
0681	1/4" x 6"	4"	25
0682	1/4" x 8"	6"	25
0683	1/4" x 11"	9"	25
0689	5/16" x 6"	4"	25
0693	3/8" x 6"	4"	25
0696	1/2" x 6"	4"	15
0697	5/8" x 8"	6"	15



ROTARY HAMMER CARBIDE BITS



QUATRO™ HEAD SDS PLUS™



Quatro™ Head SDS-Plus™ Carbide Drill Bits are designed to reduce vibrations and noise. The bits produce rounder and more accurately located anchor holes.

CAT. NO.	SIZE	USABLE LENGTH	STD. POUCH
7086*	3/4" x 18"	16"	1
7094*	1-1/8" x 18"	16"	1
7095*	1-1/4" x 18"	16"	1

* Discontinued item once current stock exhausted.

TRI-CUTTER™ SDS-MAX® SHANK



SDS-Max™ Carbide Drill Bits are designed for use in a rotary hammer equipped with a SDS-Max™ type chuck. The bits are manufactured to conform with ANSI Standard B212.15 and can be used to drill in concrete, block, brick, and soft stone. The Tri-Cutter head design has three main cutters in a "Y" configuration which make up to 32% less noise and vibration compared to the old X-cutting head.

USE IN: Rotary hammer with SDS-Max® chuck
SIZE RANGE: 1/2" x 13" to 1-1/2" x 23"

CAT. NO.	SIZE	USABLE LENGTH	STD. TUBE
8801†	1/2" x 13"	8"	1
8802†	1/2" x 21"	16"	1
8805†	9/16" x 13"	8"	1
8809	5/8" x 13"	8"	1
8810	5/8" x 21"	16"	1
8812	5/8" x 36"	31"	1
8815	11/16" x 21"	16"	1
8817	3/4" x 13"	8"	1
8818	3/4" x 21"	16"	1
8820	3/4" x 36"	31"	1
8829	7/8" x 13"	8"	1
8830	7/8" x 21"	16"	1
8833	1" x 13"	8"	1
8834	1" x 21"	16"	1
8836	1" x 36"	31"	1
8843	1-1/8" x 15"	10"	1
8844	1-1/8" x 23"	18"	1
8846	1-1/4" x 15"	10"	1
8847	1-1/4" x 23"	18"	1
8848	1-1/4" x 36"	31"	1
8853	1-3/8" x 23"	18"	1
8859	1-1/2" x 23"	18"	1

† 1/2" and 9/16" sizes have a single tip and standard helical fluting.

TRI-CUTTER™ SPLINE SHANK



Spline Carbide Drill Bits are designed for use in a rotary hammer equipped with a spline type chuck. The bits are manufactured to conform with ANSI Standard B212.15 and can be used to drill in concrete, block, brick, and soft stone. Both Y Cutter and single tip head styles are available. The new Tri-Cutter head design has three main cutters in a "Y" configuration which has up to 32% less noise and vibration compared to X-cutting heads.

USE IN: Rotary hammer with Spline chuck
SIZE RANGE: 3/8" x 8" to 2" x 23"

CAT. NO.	SIZE	USABLE LENGTH	STD. TUBE
7017	5/8" x 10"	5"	1
7020	5/8" x 16"	11"	1
7021	5/8" x 23"	18"	1
7023	5/8" x 27"	22"	1
7024	5/8" x 36"	31"	1
7028	11/16" x 16"	11"	1
7031	3/4" x 11"	6"	1
7033	3/4" x 16"	11"	1
7035	3/4" x 23"	18"	1
7036	3/4" x 27"	22"	1
7037	3/4" x 36"	31"	1
7043	7/8" x 16"	11"	1
7045	7/8" x 23"	18"	1
7049	1" x 16"	11"	1
7051	1" x 23"	18"	1
7053	1" x 36"	31"	1
7057	1-1/8" x 16"	11"	1
7059	1-1/8" x 23"	18"	1
7064	1-1/4" x 16"	11"	1
7066	1-1/4" x 23"	18"	1
7069	1-1/4" x 36"	31"	1
7072	1-3/8" x 23"	18"	1
7077	1-1/2" x 23"	18"	1

Think Safety First...

WE DO!

Our Safety Section Begins on Page 1.





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CARBIDE BITS AND CHISELS

Powers
FASTENERS

REBAR CUTTERS



Rebar cutter bits provide a quick, easy method for drilling through mesh or reinforcing bars embedded in concrete when the drilled hole cannot be relocated. The bits are used in the rotation only mode and are designed to fit in a standard rotary drill motor with a 1/2" Jacobs style chuck. Contact your Newman Representative for specific usage recommendations.

USE IN: Rotation-only drill with standard 1/2" Jacobs Style Chuck
SIZE RANGE: 1/2" to 1-1/4"

HEAVY DUTY CHISELS

Heavy Duty Chisels and accessories are designed for use in a combination



rotary hammer / chipping tool equipped with a Spline, SDS-Max®, or 3/4" Hex chuck. The chisels can be used for chipping applications in concrete, block, brick, and soft stone.

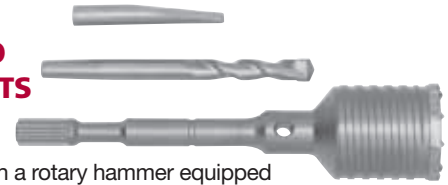
USE IN: Combination Rotary hammers / Chipping Tool with Spline, SDS-Max® or 3/4" Hex Chuck
SIZE RANGE: Bull Point, Flat, Scaling and Bushing

CAT. NO.	SHANK TYPE	CHISEL TYPE	SIZE OR WIDTH	OVERALL LENGTH
0950	Spline	Bull Point	-	12"
0951	Spline	Bull Point	-	18"
0952	Spline	Flat	1"	12"
0953	Spline	Flat	1"	18"
0954	Spline	Scaling	1-1/2"	12"
0955	Spline	Scaling	2"	12"
0959	Spline	Ground Rod	5/8" & 3/4" Rod	10-1/2"
0960	Spline	One Piece Bushing (16 Point)	1-3/4" x 1-3/4"	10"
0962*	Spline	Bushing Driver	-	12"
0965	SDS-Max®	Bull Point	-	12"
0966	SDS-Max®	Bull Point	-	18"
0967	SDS-Max®	Flat	1"	12"
0968	SDS-Max®	Flat	1"	18"
0969	SDS-Max®	Scaling	1-1/2"	12"
0970	SDS-Max®	Scaling	2"	12"
0972*	SDS-Max®	Mortar / Seam	1-1/8"	15"
0974	SDS-Max®	Ground Rod	5/8" & 3/4" Rod	10"
0975	SDS-Max®	One Piece Bushing (16 point)	1-3/4" x 1-3/4"	10"
0982	3/4" Hex	Flat	1"	12"
0983	3/4" Hex	Flat	1"	18"
0984*	3/4" Hex	Ground Rod	5/8" & 3/4" Rod	10-1/2"

* Discontinued item once current stock exhausted.

CAT. NO.	DRILL SIZE	USABLE LENGTH	OVERALL LENGTH	STD. TUBE
0845	1/2" X 12"	11"	12"	1
0844	9/16" X 12"	11"	12"	1
0846	5/8" X 12"	11"	12"	1
0847	11/16" X 12"	11"	12"	1
0849	3/4" X 12"	11"	12"	1
0851	7/8" X 12"	11"	12"	1
0853	1" X 12"	11"	12"	1
0855	1-1/4" X 12"	11"	12"	1

HEAVY DUTY ONE AND TWO PIECE CORE BITS



Heavy Duty Core Bits are designed for use in a rotary hammer equipped with a spline or SDS-Max® type chuck. The bits can be used to drill in concrete, block, brick, and soft stone.

USE IN: Rotary Hammer with a Spline or SDS-Max® chuck
SIZE RANGE: 1-1/2" to 5"

ONE PIECE SPLINE CORE BITS - HEAVY WALL

CAT. NO.	DRILL SIZE	CORE TOLERANCE	USABLE LENGTH	OVERALL LENGTH	STD. TUBE
0260*	2-1/2"	2.58-2.63	17"	22"	1

One piece core bits are packaged with a centering bit and ejector pin.

* Discontinued item once current stock exhausted.

ONE PIECE SDS-MAX® CORE BITS - HEAVY WALL

CAT. NO.	DRILL SIZE	NO. OF TEETH	CORE TOLERANCE	USABLE LENGTH	OVERALL LENGTH	STD. TUBE
0284	2-1/2"	10	2.58-2.63	17"	22"	1

One piece core bits are packaged with a centering bit and ejector pin.

TWO PIECE CORE BITS - HEAVY WALL

CUPS WITH EXTERNAL MALE ROPE THREAD

CAT. NO.	DRILL SIZE	CORE TOLERANCE	USABLE LENGTH	OVERALL LENGTH	STD. TUBE
0570	1-3/4"	1.78-1.81	5"	-	1
0571	2"	2.03-2.08	5"	-	1
0572	2-5/8"	2.64-2.69	5"	-	1
0573	3"	3.13-3.18	5"	-	1
0575	4"	4.07-4.13	5"	-	1
0576	5"	5.06-5.11	5"	-	1

TWO PIECE CORE BITS

DRIVE SHANKS WITH INTERNAL FEMALE ROPE THREAD

CAT. NO.	SHANK TYPE	OVERALL LENGTH	STD. TUBE
0578	Spline	8"	1
0579	Spline	18"	1
0580	SDS-Max®	8"	1
0581	SDS-Max®	18"	1
0590	Centering Bit - 3/8"	5-5/16"	1



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ROTARY HAMMER CORE BITS



SDS-PLUS® ROTARY THIN WALL CORE BITS

- For core drilling with smaller hammers • Core body length 4-1/8", usable cutting depth 3"



BOSCH TOOL ITEM #	ITEM #	BIT DIAMETER	LENGTH	ITEM DESCRIPTION	SHANK ITEM #	
11225VSR, 11225VSRH, 11234VSR	T3900	1"	N/A	Core bit	4-1/8" SHANK	
	T3901	1-1/8"	N/A	Core bit	LENGTH T3917	
	T3902	1-1/4"	N/A	Core bit	or	
	T3903	1-3/8"	N/A	Core bit	11-7/8" SHANK	
	T3904	1-1/2"	N/A	Core bit	LENGTH T3918	
	11221DVS, 11224VSR, 11228VSR, 11239VSR, 11236VS, 11222EVS, 11222EVSG	T3905	1-3/4"	N/A	Core bit	4-1/8" SHANK
		T3906	2"	N/A	Core bit	LENGTH T3919
		T3907	2-1/2"	N/A	Core bit	or
T3908		3"	11-7/8"	Core bit	11-7/8" SHANK	
					LENGTH T3920	

SPLINE CARBIDE TIPPED CORE BITS WITH INTEGRAL SHANK

- Better power transmission
- Maximum core size 2-5/8" deep (dimensions are nominal)



ITEM #	BIT DIAMETER	USABLE LENGTH	OVERALL LENGTH
HC8000	1-1/2"	7"	12"
HC8005	1-1/2"	17"	22"
HC8010	2"	7"	12"
HC8015	2"	17"	22"
HC8020	2-1/2"	7"	12"
HC8025	2-1/2"	17"	22"
HC8030	3-1/8"	7"	12"
HC8035	3-1/8"	17"	22"
HC8040	3-1/2"	7"	12"
HC8045	3-1/2"	17"	22"
HC8050	4"	7"	12"
HC8055	4"	17"	22"
HC8070	5"	7"	12"
HC8075	5"	17"	22"

SDS-MAX® CARBIDE TIPPED ROTARY HAMMER CORE BITS WITH INTEGRAL SHANK

- Better power transmission
- Maximum core size is 4" deep



ITEM #	BIT DIAMETER	USABLE LENGTH	OVERALL LENGTH
HC8501	1-3/4"	7"	12"
HC8506	1-3/4"	17"	22"
HC8510	2"	7"	12"
HC8515	2"	17"	22"
HC8520	2-1/2"	7"	12"
HC8521	2-5/8"	7"	12"
HC8526	2-5/8"	17"	22"
HC8530	3"	7"	12"
HC8531	3-1/4"	7"	12"
HC8536	3-1/4"	17"	22"
HC8540	3-9/16"	7"	12"
HC8545	3-9/16"	17"	22"
HC8550	4"	7"	12"
HC8555	4"	12"	17"
HC8575	5"	17"	22"
HC8595	6"	17"	22"

SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA



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ROTARY HAMMER BITS AND CHISELS



ROCK CARBIDE™ tip maximizes carbide surface contact for longer bit life and hardened core reduces breakage



2-CUTTER HEAD DESIGN

- U-Flute cleans debris out for fast, efficient drilling
- Open head design channels dust into flutes for quicker drilling



4-CUTTER HEAD DESIGN

- Open head design channels dust into flutes for quicker drilling
- Longer helix four flute design expedites mill removal for quicker drilling and reduces vibration

SPLINE SHANK CARBIDE TIPPED BITS



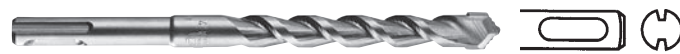
DeWALT Cat#		Dia.	Useful Length	Overall Length
2 Cutter	4 Cutter			
DW5700	—	3/8"	5"	10"
DW5701	—	3/8"	8"	13"
DW5702	—	7/16"	5"	10"
DW5703	—	1/2"	5"	10"
DW5704	—	1/2"	11"	16"
DW5705	—	1/2"	17"	22"
DW5706	—	1/2"	22"	27"
DW5707	—	1/2"	31"	36"
DW5710	DW5741	5/8"	11"	16"
DW5715	DW5747	3/4"	11"	16"
DW5716	DW5748	3/4"	17"	22"
DW5719	DW5752	7/8"	11"	16"
DW5722	DW5756	1"	17"	22"
DW5727	DW5760	1-1/4"	11"	16"
DW5732	DW5764	1-1/2"	17"	22"

SDS MAX SHANK LARGE DIAMETER BITS



DeWALT Cat#		Dia.	Useful Length	Overall Length
2 Cutter	4 Cutter			
DW5803*	—	1/2"	8"	13-1/2"
DW5804*	—	1/2"	16"	21-1/2"
—	DW5806	5/8"	8"	13-1/2"
—	DW5809	5/8"	16"	21-1/2"
—	DW5810	3/4"	8"	13-1/2"
—	DW5812	3/4"	16"	21-1/2"
—	DW5815	7/8"	8"	13-1/2"
—	DW5816	7/8"	16"	21-1/2"
—	DW5818	1"	8"	13-1/2"
—	DW5819	1"	16"	21-1/2"
—	DW5822	1-1/8"	18"	22-1/2"
—	DW5825	1-1/4"	18"	22-1/2"
—	DW5827	1-3/8"	18"	22-1/2"
—	DW5828	1-1/2"	18"	22-1/2"
—	DW5831	2"	18"	22-1/2"

SDS PLUS DRILL BITS



Fully hardened steel body for increased life and durability



- PILOT POINT® tip starts on contact for greater accuracy
- Serrated titanium carbide tip provides EXTREME DURABILITY
- Improved flute design pulls dust quickly for faster drilling

DW5470

SDS PLUS DRILL BIT SET

CONTAINS:

3/16" x 4-1/2" x 6-1/2", 1/4" x 2" x 4",
1/4" x 4" x 6", 3/8" x 4" x 6" and 1/2" x 4" x 6" bits



Cat# 1 Per Pkg.	Dia.	Useful Length	Overall Length
DW5401	5/32"	4-1/2"	6-1/2"
DW5402	3/16"	2"	4"
DW5403	3/16"	4-1/2"	6-1/2"
DW5417	1/4"	4"	6"
DW5418	1/4"	6-1/2"	8-1/2"
DW5424	5/16"	4"	6"
DW5427	3/8"	4"	6"
DW5430	3/8"	10"	12"
DW5437	1/2"	4"	6"
DW5439	1/2"	10"	12"
DW5446	5/8"	6"	8"
DW5447	5/8"	10"	12"
DW5453	3/4"	6"	8"



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DEMOLITION STEEL AND CHISELS



SDS MAX STEEL

Fully hardened steel body delivers increased life and durability

Cat. No.	Description	
DW5832	12" Bull Point Bit	
DW5834	12" Cold Chisel	
DW5837	12" Scaling Chisel	
DW5843	Bushing Tool	
DW5847	Ground Rod Driver	

SDS PLUS STEEL

Fully hardened steel body delivers increased life and durability

Cat. No.	Description	
DW5348	10" Bull Point	
DW5349	10" Scaling Chisel	
DW5350	10" Cold Chisel	

SPLINE STEEL

(3/4" Hex x 21/32" Round Spline Shank)

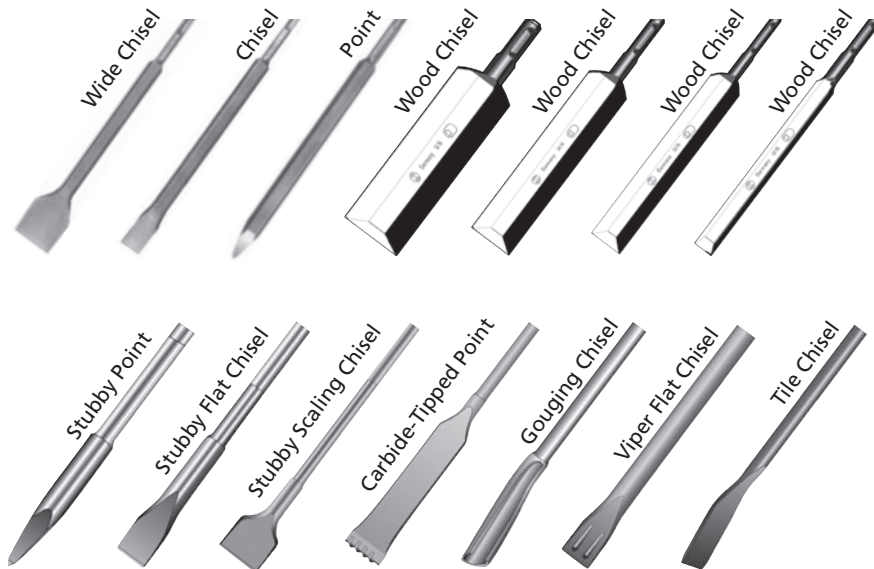
Cat. No.	Description	
DW5770	12" Bull Point	
DW5774	12" Scaling Chisel	

Cat. No.	Description	
DW5779	12" Cold Chisel	
DW5785	Ground Rod Driver	



VIPER SDS-PLUS® HAMMER STEEL/CHISELS

FOR USE WITH BOSCH HAMMERS WITH HAMMER ONLY MODE CAPABILITY OR CHIPPING ADAPTER (2 607 018 296).		
TYPE	ITEM #	SIZE
Point	1 618 600 009	(10" L)
Chisel	1 648 600 010	(3/4" X 10" L)
Wide Chisel	1 618 600 002	
Wide Chisel	1 618 601 002	1-1/2" X 10" L
Wood Chisel	HS1430	1/4"
Wood Chisel	HS1435	1/2"
Wood Chisel	HS1440	3/4"
Wood Chisel	HS1445	1"
Wood Chisel	HS1450	1-1/4"
Set of 4 Wood Chisels	HS1460	1/4", 1/2", 3/4", 1"
Tile Chisel	HS1465	-
Viper Flat Chisel	HS1470	-
Gouging Chisel	HS1475	-
Carbide Tipped Point	HS1480	-
Stubby Scaling Chisel	HS1485	-
Stubby Point	HS1490	-
Stubby Flat Chisel	HS1495	-



CHUCK WITH INTEGRAL SDS-PLUS SHANK. FOR ALL BOSCH SDS-PLUS ROTARY HAMMERS.	
TYPE	ITEM #
Chuck and Key	1 618 571 014
Replacement Dust Boot	1 610 508 015
Replacement Chuck Key	CRK005

SAFETY PRODUCTS

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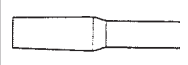
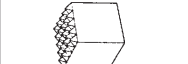




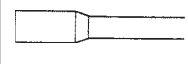
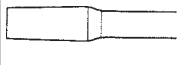
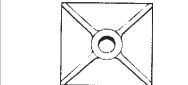
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PERCUSSION HAMMER ACCESSORIES



SHANK DESIGN	Model Compatibility	Slotted 18mm Round			Spline or Round Hex Fits Bosch models 11202, 11203, 11205, 11209, 11214VS, 11219EVS, 11220EVS, 11306, 11310EVS, 11314EVS. Also fits competitive spline drive hammers and round hex hammers.
		Application	Size	Part No.	Part No.
 Flat Chisel	SDS-max models 11214EVS, 11216EVS, 11223EVS, 11227E, 11230EVS, 11231EVS, 11309EVS, 11311EVS, 11312EVS, 11313EVS. Also fits competitive SDS-max drive hammers and large Hilti hammers with round shank.	General Chipping work	1" x 12" 1" x 18"	HS1911 HS1912	HS1811 HS1812
 Bull Point		Starts holes in concrete slabs	12" 18"	HS1913 HS1914	HS1813 HS1814
 Scaling Chisel		Wide chisel with (two) 60° cutting angles clean concrete, scale & rust, cuts troughs & some asphalt	1-1/2" x 12" 2" x 12" 3" X 12"	HS1916 HS1917 HS1910	HS1816 HS1817 HS1810
 Scraping Chisel		(One) 45° cutting angle scrapes tile, glazing, etc.	2" x 12"	HS1915	HS1815
 Slotting Tool		Breaks out the "web" between closely spaced holes to make a large opening	1-1/8" x 15"	HS1921	HS1821
 Seam Tool		Removes mortar between bricks; cuts narrow channels	1-1/8" x 15"	HS1920	HS1820
 Gouge		Removes material from wide slots between bricks, slabs	1" x 12"	HS1929	NA
 Bushing Head Shank		Removes excess concrete, produces an exterior finish, roughs the surface for a surface-applied substance	12"	NA	HS1818
 Bushing Head			16 Tooth Head 1-3/4" Square	NA	HS1521
 Bushing Tool One Piece		Removes excess concrete, produces an exterior finish, roughs the surface for a surface-applied substance	16 Tooth Head 1-3/4" Square x 9-1/4"	HS1909	HS1809
 Asphalt Cutter		Cuts asphalt or hard ground (NOT for concrete)	5" x 15"	HS1906	NA
 Pointed Spade		Quickly breaks clay, hard packed gravel, dirt. (NOT for concrete)	4-1/2" x 16"	NA	HS1826
 Clay Spade		Digs clay, hard packed gravel dirt, (NOT for concrete)	4-1/2" x 17"	HS1922	HS1822
 Ground Rod Driver		Drives ground rods	5/8" x 3/4" Rods (inside dia. .906", inside depth 2-3/4")	HS1924	HS1824
 Tampor Plate Shank		Compacts dirt, tamps asphalt	12"	HS1927	HS1827
 Tampor Plate		Compacts dirt, tamps asphalt	5" x 5"	HS1828	HS1828



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BREAKER HAMMER ACCESSORIES



BRUTE™ BREAKER HAMMER ACCESSORIES

All tools are 1-1/8" hex shank with internal lock for Bosch Hammer Model 11304 and external collar for pneumatic hammers



TYPE	APPLICATION	OVERALL LENGTH	PART NUMBER
Moil Point	General chipping work.	20-1/2"	HS2161
Narrow Chisel	Starts holes in concrete slabs.	20-1/2"	HS2163
3" Chisel	Wide chisels with (two) 60° cuffing angles clean concrete, scale, and rust, cut troughs & some asphalt.	20-1/2"	HS2164
Superkut Chisel	Premium chisel design gives faster penetration & requires fewer resharpenings than narrow chisels.	20-1/2"	HS2166
5" Asphalt Cutter	Cuts asphalt or hard ground. (Not for concrete.)	17-1/2"	HS2167
3" Digging Chisel	Cuts very thick asphalt, digs deeply into hard ground. (Not for concrete.)	22-1/2"	HS2168
Frost Wedge	Peels away frozen ground in layers.	24-1/2"	HS2170
5-1/2" Clay Spade	Digs clay, hard packed gravel, dirt.	20"	HS2169
Ground Rod Driver	Drives ground rods.	15-1/2" (inside dia. 1", inside depth 3")	HS2172
Spike/Pin Driver	Drives anchoring pins for concrete forms.	14-1/2" (inside dia. 1-3/4" inside depth 3/8")	HS2171
TAMPer Shank	For use with HS2124, HS2125, HS2126.	15-1/2"	HS2173
TAMPer Plate	Compacts dirt, tAMPs asphalt. Use with HS2173 Shank.	6"L x 6"W 8"L x 8"W	HS2124 HS2125
Tent Stake Driver	Used to drive in large tent stakes. Use with HS2173 Shank.	5-1/2" Long 3-1/2" O.D. 2-1/2" I.D. (inside depth 2")	HS2126

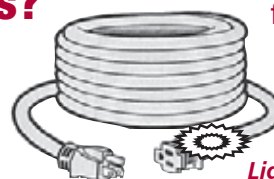


See **The Brute™ Breaker Hammer** on Page 99

Can't find all your cords?

See **NeonPRO™**

On Page 180



Prime® NeonPRO™
Ultra high visibility fluorescent colored outdoor vinyl cords cannot be missed!

Lighted End!



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GENERATORS



G2800L 2,800 WATT GENERATOR



- 120V AC/DC; 2,800 Watt maximum output
- 9.7 hours runtime from 3.7 gallon durable metal fuel tank
- Powerful 6.0 HP, 169cc, Overhead Cam (OHC) EX Series engine
- EX Series chain-driven engines provide superior performance
- OHC engines have less moving parts and reduced noise at 68 dB
- Automatic compression release system requires 40% less pulling force in sub-zero weather
- Commercial-duty electrical components with common NEMA receptacles



G6100R 5,800 WATT GENERATOR

- Powerful 11 HP; 3,600 RPM
- Aluminum alloy, OHV, 4-Cycle engine
- 5,800 Watt maximum output with Full power switch
- Condenser voltage regulation ensures stable voltage outputs
- Dual voltage output (120/240VAC); 12VDC for added versatility
- Automatic idle control reduces RPM during no load draws to reduce fuel consumption & engine wear
- 5.68 gal. fuel tank capacity for 7 hours of continuous operation
- Water-deflecting louvers all around for watertightness



G12010R 12,000 WATT GENERATOR WITH ELECTRIC START

- Heavy-duty 22 HP; 3,600 RPM
- Dual voltage - 120V/240V output
- Durability - High Output Capacity
- Electric starter with automatic choke
- Automatic idle control reduces RPM during no load draws to reduce fuel consumption & engine wear
- Commercial-duty 11.4 gallon steel gas tank
- 8+ hours of operation from a full tank
- Electronic voltage regulator for more accurate voltage output
- GFCI safety receptacle & USDA approved spark arresting muffler
- Water resistant louvers protect the electrical components
- Includes: Tool kit, and 2 ea. Ignition key

Wheel Kit Available For All  Generators

Consult Your Newman Representative

NEWMAN ASSOCIATES

THE CONSTRUCTION SUPPLY SPECIALIST . . . WHERE SERVICE COMES FIRST

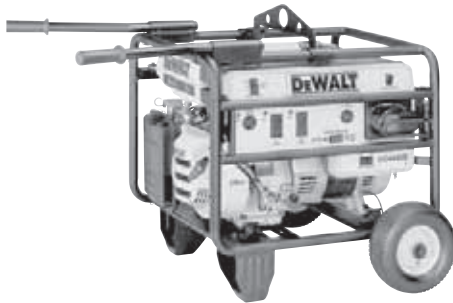
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GENERATORS



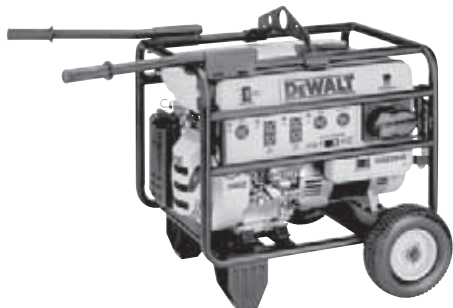
DG3000 3,000 WATT COMMERCIAL GENERATOR

- 3,000 watts max AC output with recoil starting system
- Powerful and efficient 196cc (6.5 hp) engine provides worksite reliability
- Maintenance free, brushless alternator for increased durability
- High amp surge capacity ideal for starting high amp tools
- Super quiet muffler reduces engine noise • Low oil shut-off protects engine
- Includes: spark plug wrench



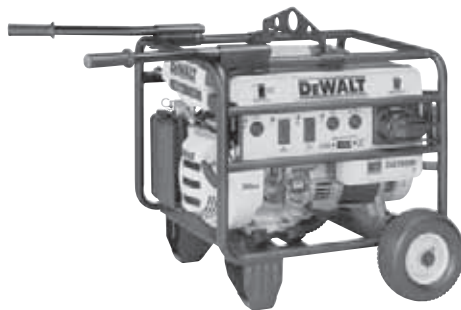
DG4400B 4,400 WATT COMMERCIAL GENERATOR

- 4,400 watts max AC output with 18V battery start
- DeWalt 270cc (9hp) OHV engine provides worksite reliability
- 20% more starting watts than generators in its class
- Proper 120v and 240v outlets for jobsite applications
- Worksite tested frame with panel protection bars for increased durability
- Super quiet muffler reduces engine noise • Idle control saves fuel and reduces noise
- Low oil shut-off protects engine
- Includes: 18 volt XRP battery, 1 hour DEWALT® charger, wheel kit, handle kit and lifting hook



DG6300B 6,300 WATT COMMERCIAL GENERATOR

- 6,300 watts max AC output with 18V battery start
- DeWalt 389cc (13hp) OHV engine provides worksite reliability
- 20% more starting watts than generators in its class
- Proper 120v and 240v outlets for jobsite applications
- Worksite tested frame with panel protection bars for increased durability
- Super quiet muffler reduces engine noise • Idle control saves fuel and reduces noise
- Low oil shut-off protects engine
- Includes: 18 volt XRP battery, 1 hour DEWALT® charger, wheel kit, handle kit and lifting hook



DG7000B 7,000 WATT COMMERCIAL GENERATOR

- 7,000 watts max AC output with 18V battery start
- DeWalt 389cc (13hp) OHV engine provides worksite reliability
- 20% more starting watts than generators in its class
- Proper 120v and 240v outlets for jobsite applications
- Worksite tested frame with panel protection bars for increased durability
- Super quiet muffler reduces engine noise
- Idle control saves fuel and reduces noise
- Low oil shut-off protects engine
- Includes: 18 volt XRP battery, 1 hour DEWALT® charger, wheel kit, handle kit and lifting hook



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DIAMOND CORING DRILL RIG

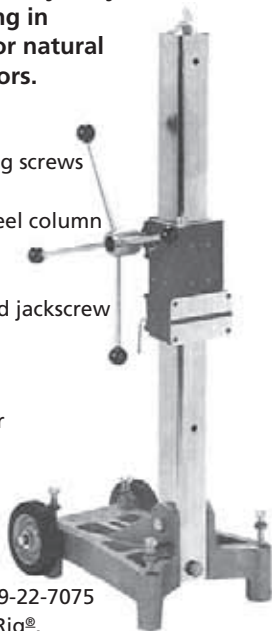


4130

DIAMOND CORING LARGE BASE STAND

The Dymo-Rig is designed for the heavy-duty hole driller. Ideal for diamond coring in reinforced concrete, tile, masonry or natural stone. For use with DymoDrill motors.

- Overall Height: 47"
- Cast aluminum base with four leveling screws for fast accurate leveling adjustment
- Adjustable, tilting 2-1/2" x 43-1/2" steel column
- Large wheels for ease of movement
- Four speed wheel feed control
- Motor mount cradle, bubble level and jackscrew



Additional Features

- The Large Base Can Be Floor Or Wall Mounted With A Bolt Type Anchor Or Braced From The Ceiling With A Telescoping Assembly No. 48-95-1000 By Using The Jack Screw
- Base Can Be Replaced With No. 48-10-0080 Small Base - Or used with Vac-U-Rig® attachment kit No. 49-22-7075 to convert the 4130 into 4136 Vac-U-Rig®. Order meter box separately.

4079 / 4004

DIAMOND CORING MOTORS

Two speed DymoDrill motors for use with Vac-U-Rig® and Dymo-Rig Diamond Core Rig

- Triple Reduction Gearing On All Models
- Built-In Water Swivel On All Models
- All Ball And Roller Bearings



SHEAR PIN PROTECTION - 4079

Protects gears and motor against overload. Shear pins easily replaced. Extra pins included with each unit.

SHEAR PIN CATALOG NO. 44600032

COPPER WASHER CATALOG NO. 44600032

CLUTCH PROTECTION - 4004

Protects gears and motor against overload. Set to specifications at factory, no adjustment necessary.

CATALOG NUMBER	AMPS*	SPINDLE	RPM	SUGG. DIA. IN MEDIUM AGGREGATE	VOLTS AC
4079	20	1-1/4" - 7	300 600	7"-14" 4"-7"	120
4004	20	1-1/4" - 7	300 600	7"-14" 4"-7"	120

ACCESSORIES

48-51-0120

METER BOX 20 AMP 120 Volt

Supplied with Nos. 4115-21, 4115-22, 4120-21 and 4120-22.

Also available as an accessory. A meter and power switch on front panel with single 20 AMP twist lock receptacle for drill motor.



48-04-0160

THREAD ADAPTER

Thread Adapter reduces thread size of 1-1/4" - 7 to 5/8" - 11 for DYMOBITS and extensions.



49-67-0110

SPACER ASSEMBLIES

For use with models 4125, 4130 and 4136. Mounts between cradle and DymoDrill motor to increase VAC-U-RIG®, DYMO-RIG bit capacity from 10" to 14".



48-95-1500 / 48-95-2100

BIT EXTENSIONS

9" Bit Extension: Extension threaded on both ends with 1-1/4" - 7 thread, for use with Diamond Core Bits over 2" diameter with 1-1/4" - 7 thread. Extension mounts directly to DymoDrill — up to two can be coupled together for extended coring.



10-1/2" Bit Extension: Extension threaded on both ends with 5/8" - 11 thread, for use with 1-1/4" and 1-1/2" diameter Diamond Core Bits with 5/8" - 11 thread. Extension requires 48-04-0160 threaded adapter for mounting to DymoDrills — up to two can be coupled together for extended coring.



49-76-0055

WATER TANK
3-1/2 gallon heavy-duty impact resistant poly tank.

49-18-0055

WATER HOSE
• Diameter: 5/8"
• Length: 8'

49-22-7075

VAC-U-RIG® ATTACHMENT KITS

Complete vacuum assemblies consisting of one vacuum pad which provides approx. 1800 lbs. of holding force and vacuum pump assembly with gauge, filter, 3 foot air hose and fittings.





(800) 733-0089 • (781) 329-4000 • FAX: (781) 326-4757

HANDHELD CORE DRILL AND RIG

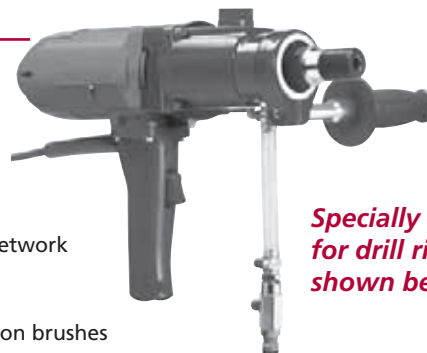


DM 225 CORE DRILL

Handheld drill for making holes in construction materials. The wet drilling machine is suitable for professional operators, plumbers, well drillers, electricians and builders. The drilling motor has an optimum power-to-weight ratio.

Additional Features

- 1,725 W power, 10 A, (230 V), 15 A, (110 V).
- Lightweight, only 12 lbs.
- 3 speeds, 580/1400/2900 for optimum cutting
- Recommended drilling diameter, max 6" on rig
- Recommended drilling diameter, max 4" handheld
- Pivoting handle for comfortable working conditions
- Softstart™ electronic current limiter ensures a softer start - less load on the network
- Smartstart™ reduces rpm by 50% when starting holes
- Elgard™, electronic motor protection
- Easy to service, separate access panels for inspection and replacement of carbon brushes



Specially adapted for drill rig DS 160 C shown below.

DS 160 C CORE DRILL RIG

Versatile and lightweight drill stand made of aluminium. Combined base plate for vacuum or anchoring. The stand has a practical handle and can be tilted from 0° to 45° for angle drilling.

Additional Features

- Guide rollers on steel rail
- Scales for lateral depth and tilt angle
- Carriage with bracket (diam. 60 mm) for drill motor
- Reversible capstan handle sets self-cleaning adjustment screws
- Detachable wheels
- Water collector and vacuum pump available as accessories



Carriage Guiding

Reinforced carriage guiding brings stability, more accurate drilling as well as cleaner and straighter holes.



Self-draining screws

Self-draining levelling screws permit operation on uneven surfaces.



SEE THE FOLLOWING PAGE FOR OUR LISTING OF CORE BITS TO SUIT YOUR APPLICATION.
If you do not see the item you are looking for - CALL US!



(800) 733-0089 • (781) 329-4000 • FAX: (781) 326-4757

WET AND DRY CUTTING CORE BITS

MILLENNIUM® 5300 SERIES WET CUTTING PROFESSIONAL BITS

5300 Soft for drilling critically hard concrete with heavy steel
Total Segment Height: .300"
(.250" diamond depth; .050" segment base)

5300 Medium for good balance of speed and life for drilling medium-hard to hard concrete with medium to heavy steel reinforcing
Total Segment Height: .300"
(.250" diamond depth; .050" segment base)

5300 Hard for asphalt and concrete with soft, abrasive aggregate
Also for drilling air-cured refractories
Total Segment Height: .300"
(.250" diamond depth; .050" segment base)



STANDARD SEGMENT



WET CUTTING BRAZED® LASER WELD (1" - 8") PROFESSIONAL

5300 PROFESSIONAL WITH ADAPTER

DIAMETER INCHES	MM	SOFT	MEDIUM	HARD
7/8	22	◆	◆	◆
1	25	780131	780160	780189
1-1/8	29	780132	780161	780190
1-1/4	32	780133	780162	780191
1-1/2	38	780135	780164	780193
1-3/4	44	780136	780165	780194
1-7/8	63	780137	780166	780195
2	51	780138	780167	780196
2-1/4	57	780139	780168	780197
2-1/2	63	780140	780169	780198
2-3/4	70	780141	780170	780199
3	76	780142	780171	780200
3-1/2	89	780144	780173	780202
4	102	780145	780174	780203
4-1/4	108	780146	780175	780204
4-1/2	114	780147	780176	780205
5	127	780148	780177	780206
5-1/2	140	780149	780178	780207
6	152	780150	780179	780208
6-1/4	159	780151	780180	780209
7	178	780152	780181	780210
8	203	780153	780182	780211
9	229	780154	780183	780212
10	254	780155	780184	780213
11	280	780156	780185	780214
12	305	780157	780186	780215
13	330	780158	780187	780216
14	356	780159	780188	780217

•<1", 9"-14" solid back and prestressed
◆ Special Order Only

DRI BITS™



Overall Length 10-1/2"
Core Travel 10"
Thread Size 5/8"-11

General purpose, masonry Dri Bits for drilling brick and lightweight block or concrete block materials. Not recommended for use on cured concrete.

Feature: High production, low cost with exceptional life. Specially designed barrel vents keep bits cool and provide fast removal of cuttings. Use on core drilling machines or right angle grinders (mount bits directly onto standard 5/8"-11 grinder spindles). Drills faster than conventional carbide-tipped percussion bits, creating a smoother finish and requiring little patching.

Total Segment Height:
.280" (.220" diamond depth; .060" segment base)

DRY CUTTING LASER WELD SUPER PREMIUM

DIAMETER INCHES	MM	ITEM NO.	MAX. RPM MIN. RPM
1	25	684010	6000/2300
1-1/4	32	684012	6000/2300
1-1/2	38	684015	5000/1600
1-3/4	44	684017	5000/1600
2	51	684020	5000/1200
2-1/4	57	681954	5000/1200
2-1/2	64	684025	5000/1200
3	76	684030	5000/800
3-1/2	89	684035	5000/800
4	102	684040	5000/700
4-1/2	114	681955	5000/700
5	127	684050	2500/700
6	152	681956	2500/600

Safety starts with us - but ends with you

Protect your eyes.

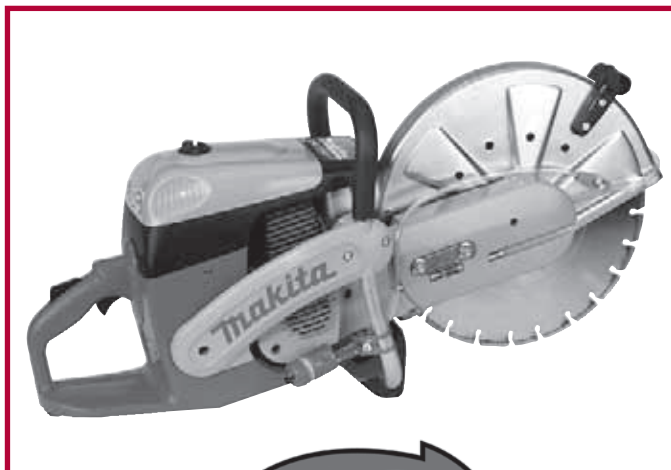
They're the only pair you've got.

*Always wear safety goggles
or glasses whenever working with power tools.*

Set your sights on safety

See Pages 6 to 8

14" POWER CUTTERS



Five-stage, foam-paper-nylon system with Advanced Directional Air Flow provides very clean air for better saw performance

DPC6411

- 64 cc.
- 4.4 Max HP
- 9,350 No load RPM
- 3.9 cu.in. Displacement

DPC7311

- 73cc.
- 5.6 Max HP
- 9,350 No load RPM
- 4.5 cu.in. Displacement

BOTH MODELS FEATURE:

- Reinforced aluminum blade guard with 70° range of limitless positioning using a marked knob handle
- Improved ignition system with larger flywheel and rare earth magnets for more power
- Cutting arm position simply changes from center position to flush (outboard) position allowing cuts directly adjacent to curb edges, walls or directly above the ground
- Starter grip and decompression valve located on the same side for faster starting
- On-Off-Choke operating switch on a single lever for operator convenience
- Cushioned operator grips with 4 vibration-absorption rubber buffers for increased operator comfort
- Water kit is assembled to saw and can be used with garden hose, gravity tank or pressure tank
- Improved exhaust emissions are EPA Phase II compliant while maintaining power and performance
- Includes: 14" Cut-off wheel, Universal wrench, Torx key, Screwdriver and Arbor Ring (22m to 1")



(800) 733-0089 • (781) 329-4000 • FAX: (781) 326-4757

PORTABLE CUT-OFF WHEELS

PFERD


Steel Hard Type - Hardness Grade R



Special-purpose tool for cutting large diameters.

Abrasive: Aluminum Oxide

PFERD Specification Number
A 24 R SG

APPLICATION:
Cutting of sections and solid material (steel)

Diameter (Inches)	Thickness (Inches)	Bore (In./mm)	EDP No.		Max. RPM*
			80 m/s	100 m/s	
12	1/8	20 mm	64012	64010	6,400
12	1/8	7/8	64013	64011	6,400
12	1/8	1	64014	64015	6,400
14	1/8	20 mm	-	64016	5,500
14	1/8	7/8	-	64017	5,500
14	1/8	1	-	64018	5,500
16	1/8	1	-	64019	4,800

Cast Iron/Steel-Reinforced Concrete Soft Type - Hardness Grade Q



Blended grain portable cut-off wheel designed to cut ductile iron, water main pipe and cast iron.

Abrasive: Aluminum Oxide/SiC

PFERD Specification Number
AC 24 Q SG

APPLICATION:
Cutting of reinforced solid material (cast iron, steel reinforced concrete and composite materials)

Diameter (Inches)	Thickness (Inches)	Bore (In./mm)	EDP No.		Max. RPM*
			80 m/s	100 m/s	
12	1/8	20 mm	64121	64118	6,400
12	1/8	7/8	-	64119	6,400
12	1/8	1	64122	64120	6,400
14	3/16	20 mm	-	64123	5,500
14	3/16	7/8	-	64125	5,500
14	3/16	1	-	64124	5,500

Masonry Type - Hardness Grade R



Designed for cutting non-metal materials on electric and gas-powered portable saws. Aggressive cutting action and long tool life.

Abrasive: Silicon Carbide

PFERD Specification Number
C 24 R SG

APPLICATION:
Cutting of reinforced solid material (natural stone, refractory brick)

Diameter (Inches)	Thickness (Inches)	Bore (In./mm)	EDP No.		Max. RPM*
			80 m/s	100 m/s	
12	1/8	20 mm	64232	64230	6,400
12	1/8	7/8	64233	-	5,100
12	1/8	1	64234	64235	6,400
14	3/16	20 mm	-	64236	5,500
14	3/16	7/8	-	64237	5,500
14	3/16	1	-	64238	5,500
16	3/16	1	-	64239	4,800

* Listed Maximum RPMs are for 100 m/s wheels. ALL 12" 80 m/s wheels have a Maximum RPM of 5,100.



DRY CUTTING DIAMOND BLADES



SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA

GH DRI DISC®

A diamond blade for general purpose or abrasive materials, with .335" segments. The series features long life, low cost per cut and is multi-purpose.

MODEL NO.	DESCRIPTION	CAT. NO.	BLADE DIA.	SEGMENT THICKNESS
GH5	For general purpose cutting of most concrete, masonry or stone materials.	590519	12"	0.125 "
		542774249	14"	0.187 "
		542774251	14"	0.25 "
GH8	For maximum life, general purpose cutting of block, abrasive block, soft brick and concrete pavers.	771066	12"	---
		771068	14"	---



GH DRI DISC

EH EXTRM

A diamond blade for general purpose or abrasive materials, with .450" segments. It is a reliable blade at an economical purchase price.

EH5	For general purpose cutting of concrete, masonry and stone	542775594	12"	.125"
		542778735	14"	.125"
EH8	For use on a wide range of abrasive materials such as soft brick, abrasive block and green concrete or cured concrete with soft aggregate.	542775596	12"	.125"
		542775597	14"	.125"
EH10	A slightly harder bond for longer life on a wide range of abrasive materials such as soft brick, abrasive block and green concrete.	542775599	12"	.125"
		542775600	14"	.125"



EH EXTREME

BHT TURBO

A diamond blade for fastest cutting of hard materials with .495" segments. Excellent blade for critically hard bricks, pavers, stone and masonry.

BHT3	For fast, smooth cutting on a variety of critically hard concrete, stone and masonry materials.	542775644	12"	--
		542775645	14"	--
BHT5	For fast, smooth cutting of medium to hard cured concrete, bricks, pavers, block, masonry and stone.	542775641	12"	--
		542775642	14"	--



BHT TURBO

D15 DUCTILE IRON BLADE

D15	For long life in ductile iron - can last as long as up to 75 abrasive blades. The D15 was improved in 2007 with a .235" thickness. Also cuts faster than abrasive blades. Incorporates electroplating on the core to aid cutting and is designed to eliminate pinching. Requires fewer blade changes.	542776407	12"	--
		542776408	14"	--



D15 DUCTILE

BARRACUDA™

	For fast, smooth cuts on almost any masonry, tile, stone or hard concrete material; not recommended for abrasive materials like block and asphalt. Segment height is .350".	772180	12"	--
		772182	14"	--



BARRACUDA



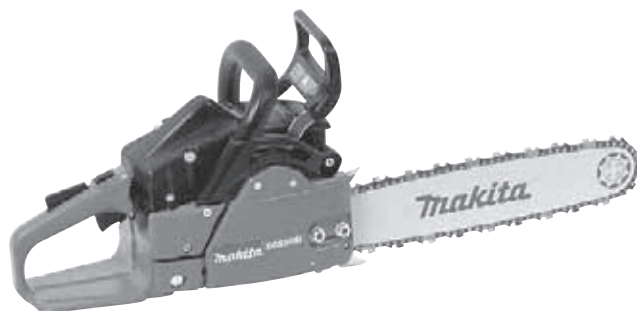
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CHAIN SAWS



UC4000 16" ELECTRIC CHAIN SAW

- 13 AMP in-line motor
- Heavy-duty engineering for power and precision
- Automatic oiler, with oil level window
- Accessible carbon brushes and large trigger switch lever
- Radio interference suppression
- Large fan for motor cooling and SafetyMatic chain brake
- Includes: 16" Chain, 16" Guide bar, Chain cover and Universal wrench



DCS540-18 18" CHAIN SAW - 54 CC.

Rugged and robust, an all-around saw for tree felling, ripping logs and limbing

- Inertia chain brake
- External electronic ignition
- Automatic adjustable chain oiler
- UL Listed
- Innovative injection carburetor
- Anti-vibration design
- Double air-filtration system

BLOWERS



UB1101 VARIABLE SPEED BLOWER

- Maximum air velocity of 114 MPH
- Two tools in one; easily converts to a vacuum for reaching confined areas
- Variable speed control dial allows maximum speed to be set between 0 - 16,000 RPM
- Maximum air volume of 99 cfm for great power in a compact tool
- Ergonomic handle allows for comfortable use in both horizontal and downward applications
- Large trigger with conveniently located lock-on button
- Compact and lightweight - only 4.0 lbs.
- Includes: Long nozzle and dust bag



BHX2500 24.5 CC. BLOWER

- Powerful 24.5 cc. commercial duty engine
- Large 17.7 oz. fuel tank for longer fun time
- Quick start - low compression engine for easy starting
- Lightweight (9.8 lbs.) for easy maneuverability
- Exhaust emissions are EPA Phase II compliant while maintaining power and performance
- Includes: Long nozzle, Round end nozzle and tool kit



PIPE WRENCHES AND PIPE CUTTERS



SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA

STRAIGHT PIPE WRENCH



Sturdy, cast-iron housing and I-beam handle with full floating hook jaw, nonstick adjustment nut and replaceable hook and heel jaws.

Catalog No.	Model No.	Size		Pipe Capacity		Weight		Std. Pack
		In.	mm	In.	mm	Lb.	kg	
31000	6	6	150	3/4	20	1/2	0,2	6
31005	8	8	200	1	25	3/4	0,3	6
31010	10	10	250	1-1/2	40	1-3/4	0,8	6
31015	12	12	300	2	50	2-3/4	1,2	6
31020	14	14	350	2	50	3-1/2	1,6	6
31025	18	18	450	2-1/2	65	5-3/4	2,6	6
31030	24	24	600	3	80	9-3/4	4,4	1
31035	36	36	900	5	125	19	8,7	1
31040	48	48	1200	6	150	34-1/4	15,6	1
31045	60	60	1500	8	200	51-1/4	23,3	1

END PIPE WRENCH



Assures a fast and easy grip for pipe working in restricted spaces or close to a wall.

Catalog No.	Model No.	Size		Pipe Capacity		Weight		Std. Pack
		In.	mm	In.	mm	Lb.	kg	
31050	E-6	6	150	3/4	20	1/2	0,2	6
31055	E-8	8	200	1	25	3/4	0,3	6
31060	E-10	10	250	1-1/2	40	3/4	0,8	6
31065	E-12	12	300	2	50	2 3/4	1,2	6
31070	E-14	14	350	2	50	3-1/2	1,6	6
31075	E-18	18	450	2-1/2	65	5-3/4	2,6	6
31080	E-24	24	600	3	80	9-3/4	4,4	1
31085	E-36	36	900	5	125	19	8,7	1

ALUMINUM HANDLE STRAIGHT PIPE WRENCH



Nearly 40% lighter than comparable cast-iron models of the same size. Jaws and all other parts identical to RIDGID Heavy-Duty Wrenches. Also available with special hook and heel jaws for plastic coated pipe.

Catalog No.	Model No.	Size		Pipe Capacity		Weight		Std. Pack
		In.	mm	In.	mm	Lb.	kg	
31090	810	10	250	1-1/2	40	1	0,4	6
47057	812	12	300	2	50	2-1/2	1,1	6
31095	814	14	350	2	50	2-1/2	1,1	6
31100	818	18	450	2-1/2	65	3-3/4	1,7	6
31105	824	24	600	3	80	6	2,7	6
31110	836	36	900	5	125	11	5,0	1
31115	848	48	1200	6	150	18-1/2	8,4	1
41352*	810CP	10	250	1-1/2	40	1	0,4	6
41357*	814CP	14	350	2	50	2-1/2	1,1	6
41362*	818CP	18	450	2-1/2	65	3-3/4	1,7	6

*With special jaws for coated pipe

HEAVY-DUTY PIPE CUTTERS

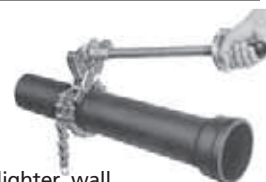
Fast, clean pipe cutting by hand or power. Extra long shank protects adjustment threads, while an extra-large handle is provided for quick and easy adjustment. Can be converted to 3-wheel cutter by replacing rollers with cutter wheel, or the 2A and 4S can be ordered as 3-wheel model for use in areas where a complete turn is not possible.



Cat. No.	Model No.	Pipe Cutter Description	Nominal Size		Weight	
			in.	mm	lb.	kg
32810	1-A	Heavy-Duty	1/8-1-1/4	3-32	6-1/2	3,0
32820	2-A	Heavy-Duty	1/8-2	3-50	7	3,2
32825	2-A	3-Wheel Heavy-Duty	1/8-2	3-50	7	3,2
32830	3-S	Heavy-Duty	1-3	25-75	15	6,9
32840	4-S	Heavy-Duty	2-4	50-100	18	8,2
32845	4-S	3-Wheel Heavy-Duty	2-4	50-100	18	8,2
32850	6-S	Heavy-Duty	4-6	100-150	22	10,0

MODEL 206 SOIL PIPE CUTTER

Cuts 2"-6" No Hub® soil pipe. Lighter weight and closer spacing of cutter wheels, together with simple ratcheting action, give smooth cut on lighter wall pipe. Ratchet-action handle parallels pipe so trench can be minimum width. Complete with hand guard to protect operator's knuckles.



CATALOG NO. 68650

MODEL 246 SOIL PIPE CUTTER

Cuts 2"-6" clay, cast-iron, asbestos, cement pipe and 4" class 22 water main. Ratchet-action handle parallels pipe so trench can be minimum width. Complete with hand guard to protect operator's knuckles at time of cut.



CATALOG NO. 32900

MODEL 276 SOIL PIPE CUTTER

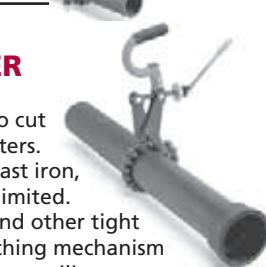
Provides one stroke cutting of 1-1/2"-6" ser weight, No Hub® soil pipe, clay, asbestos and cement pipe. Makes repeated cuts quickly.



CATALOG NO. 74207

MODEL 226 IN-PLACE SOIL PIPE CUTTER

Compact, light-weight tool designed to cut hub and no-hub soil pipe in tight quarters. Only 17" long, it's perfect for cutting cast iron, concrete and clay pipe where space is limited. Especially suited for against-the-wall and other tight quarter applications. Unique chain latching mechanism feature was engineered for maximum versatility.



CATALOG NO. 69982



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TUBING AND BOLT CUTTERS

RIDGID®

Models 151-156 feature a quick-acting design, I-beam construction, hardened wear surfaces, and thrust bearing slide assemblies for smooth operation. These cutters are available in models for plastic pipe or metallic tubing. Models 151 and 152 feature fold-away reamers.

CATALOG NO.	MODEL NO.	DESCRIPTION	STD. WHEEL	CAPACITY		WEIGHT		STD. PACK
				IN.	MM	LB.	KG	
31632	151	Quick-Acting Cutter	E-3469	1/4 - 1-5/8	6-42	7/8	0.4	1
31637	151-P	Above w/Wheel for Plastic	E-2155	1/8 - 1-1/4*	10-40*	7/8	0.4	1
31642	152	Quick-Acting Cutter	E-3469	1/4 - 2-5/8	6-66	1-7/8	0.9	1
31647	152-P	Above w/Wheel for Plastic	E-2155	1/4 - 2*	10-63*	1-7/8	0.9	1
34572	152-P	Above w/Wheel for PVC	E-5272	1/4 - 2*	10-63*	1-7/8	0.9	1
36597	153	Quick-Acting Cutter	E-3469	1-1/4 - 3-1/2	32-90	2	0.9	1
36592	153-P	Above w/Wheel for Plastic	E-2155	1 - 3*	25-75*	2	0.9	1
31652	154	Quick-Acting Cutter	E-2558	1-7/8 - 4-1/2	48-116	3	1.4	1
31657	154-P	Above w/Wheel for Plastic	E-2156	1-1/2 - 4*	50-110*	3	1.4	1
31662	156	Quick-Acting Cutter	E-2558	4 - 6-5/8	100-170	4-1/8	1.9	1
31667	156-P	Above w/Wheel for Plastic	E-2157	4 - 6*	110-160*	4-1/8	1.9	1

*Nominal Plastic Pipe Size.



MIDGET TUBING CUTTERS - NOS. 103, 104 AND 118

For use in restricted spaces on small diameter, hard and soft copper, aluminum, brass, and plastic tubing. Strong, lightweight slide and wheel housing, large knurled feed screw knob gives easy control of cutting pressure for clean cuts.

CATALOG NO.	MODEL NO.	DESCRIPTION	STD. WHEEL	CAPACITY		WEIGHT		STD. PACK
				IN.	MM	LB.	KG	
32975	103	Midget Cutter	E-3469	1/8 - 5/8	3-16	1/6	0.1	6
32985	104	Midget Cutter	E-3469	3/16 - 15/16	5-24	1/4	0.1	6
86127	118	Self Feeding Midget Cutter	E-3469	1/4-1-1/8	6-28	1/4	0.1	6



No. 103

No. 118

MIDGET TUBING CUTTERS - NOS. 10, 15, 20 AND 30

Clean, square cuts are easily made on copper, brass, aluminum, and thin-wall conduit. Nos. 10, 15, 20 feature a convenient fold-away reamer. No. 30 is rated for larger diameter steel and stainless steel tubing.

CATALOG NO.	MODEL NO.	DESCRIPTION	STD. WHEEL	CAPACITY		WEIGHT		STD. PACK
				IN.	MM	LB.	KG	
32910	10	Screw Feed Cutter	F-158	1/8 - 1	3-25	7/8	0.4	1
32915	10	Above w/H-D Wheel	E-1240	1/8 - 1	3-25	7/8	0.4	1
32920	15	Screw Feed Cutter	F-158	3/16 - 1-1/8	5-28	1-1/4	0.6	1
32925	15	Above w/H-D Wheel	E-1240	3/16 - 1-1/8	5-28	1-1/4	0.6	1
32930	20	Screw Feed Cutter	F-158	5/8 - 2-1/8	16-54	1-3/4	0.8	1
32935	20	Above w/H-D Wheel	E-1240	5/8 - 2-1/8	16-54	1-3/4	0.8	1
32940	30	Screw Feed Cutter	E-2558	1 - 3-1/8	25-79	3-1/2	1.6	1
32950	30	Above w/H-D Wheel	E-2191	1 - 3-1/8	25-79	3-1/2	1.6	1



BOLT CUTTERS

Hardened alloy steel jaws designed for maximum blade life. One-step internal cam mechanism provides quick and easy way to keep cutting blades precisely aligned. Handles and grips designed for crisp, controlled cutting.

CAT. NO.	MODEL NO.	BOLT CUTTER DESCRIPTION	REPLACEMENT HEAD NO.	CAPACITY/METALS			LENGTH OVERALL	WEIGHT
				SOFT (15RC) ¹	MEDIUM (31RC) ²	HARD (42RC) ³		
14218	S18	Center Cut	18368	3/8"	5/16"	1/4"	19"	3-3/8 lbs.
14223	S24	Center Cut	18373	7/16"	3/8"	5/16"	26"	5-7/8 lbs.
14228	S30	Center Cut	18378	1/2"	7/16"	3/8"	31"	8-7/8 lbs.
14233	S36	Center Cut	18383	9/16"	1/2"	7/16"	38"	13-1/2 lbs.



¹ Soft steel and nonferrous metals, bolts, screws, rivets, wire.

² Iron and steel.

³ Stainless steel, spring wire, heat-treated rod, reinforcing rod.



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POWER THREADING MACHINE

RIDGID

MODEL 300

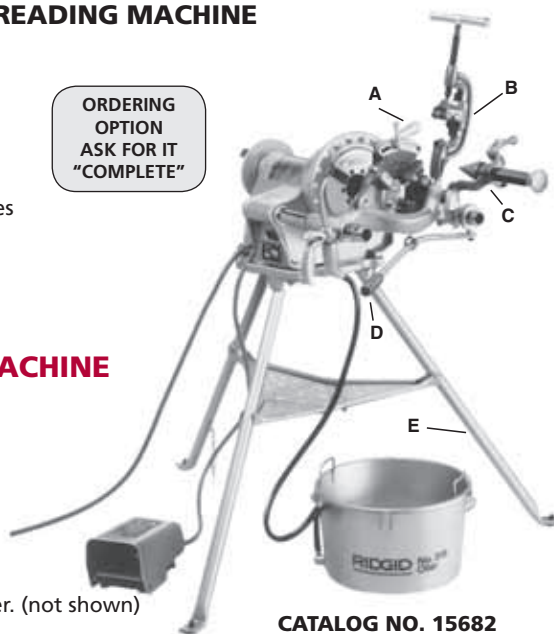
POWER THREADING MACHINE

CONVERT YOUR 300 POWER DRIVE INTO A LOW-COST THREADING MACHINE

MODEL 300 POWER DRIVE COMPLETE CONSISTS OF:

- 300 Power Drive only with foot switch
- 311 Carriage with lever
- 360 Cutter
- Set 1/2"-3/4" Universal alloy dies
- 32 Transporter
- 1 gallon Nu-Clear thread cutting oil
- 1206 Stand
- 341 Reamer
- 811A Universal die head
- Set 1"-2" Universal alloy dies
- 418 Oiler

ORDERING
OPTION
ASK FOR IT
"COMPLETE"



CATALOG NO. 15682

ADD THESE LOW-COST ACCESSORIES AND HAVE THE SPEED AND CONVENIENCE OF A THREADING MACHINE

- A. Die heads and dies for use with 300 Power Drive with 311 carriage.
 B. No. 360 Cutter: Capacity: 1/8"-2" pipe, 1/4"-7/8" rod with F-3 wheel, 5/16"-1" with E-1032 cutter wheel.
 C. No. 341 Reamer: Positive-locking 5-flute cone, right-hand 1/8"-2. Special E863 RH/LH combination reamer cone available.
 D. No. 311 Carriage with lever.
 E. No. 1206 Stand. No. 1452 Clip-On Tool Tray. (not shown) No. 32 Transporter. (not shown)

Catalog No.	Model No.	Description	Weight	
			Lb.	kg
15682	300 Complete	115V. 25-60 Hz (NPT), 38 RPM Spindle Speed	212	96.2
15722	300 Complete	115V. 25-60 Hz (NPT), 57 RPM Spindle Speed	212	96.2
41855	300 Only	115V. 25-60 Hz, 38 RPM Spindle Speed	94	43.0
75075	300 Only	115V. 25-60 Hz, 57 RPM Spindle Speed	94	43.0
42360	1206	Stand for 300 Power Drive	31	14.1
42575	32	Transporter (for Power Drives and Tri-Stand Vises)	14-1/4	6.5
68815	311	Carriage with No. 312 Lever	15	6.8
42385	312	Carriage Feed Lever	3	1.4
41650	318	Oiler with 1 gallon of Nu-Clear Thread Cutting Oil	21-1/2	9.8
42365	341	Reamer for No. 311 Carriage with Lever	7	3.2
42370	360	Cutter for No. 311 Carriage	8-1/2	3.9
97065	811A	Universal Q.O. Die Head Only, Right-Hand Only	12-1/2	5.7
97075	815A	Self-Opening Die Head Only, Right-Hand Only	13-1/2	6.1
51005	819	Nipple Chuck Complete. 1/2"-2"	10-1/2	4.8
42380	1452	Clip-On Tool Tray	6	2.7
36662	301A	Foot Switch	8-1/2	3.9
97345	304*	Retrofit Kit (38 rpm)	37-3/4	17.1
97350	304*	Retrofit Kit (57 rpm)	37-3/4	17.1
97365	—	Jaw Inserts for Coated Pipe	1/2	0.2
46660	E-863	LH/RH Reamer Cone	7	3.2

* NO. 304 RETROFIT KIT CONVERTS 300 POWER DRIVE TO AUTOMATIC OILING USING:

- Gear head assembly with oil pump
- Oil pan assembly
- Oil spout
- Support bar
- Necessary connectors
- 1 gallon of Nu-Clear thread cutting oil



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PORTABLE PIPE THREADERS AND PIPE DIES



MODEL 700 POWER THREADER

- Features reversible Universal motor
- Motor: Universal, 1/2 HP, 115V or 230V 25-60 Hz
- Switch: Double-throw reversible
- Capacity 1/8"-2" (3mm-50mm) pipe. Designed for RIDGID No. 12R die heads. Other RIDGID die heads (OOR, OORB, 11R) using adapters, threading 2-1/2" through 6" (62mm-150mm) with 141/161 geared threads



Gear Head: All-spur gear reduction. Spring loaded adapter pawl. Hardened steel spindle gear.
Body: Cast aluminum. Use the No. 775 Support Arm to resist the torque developed when threading larger material.

Catalog No.	Model No.	Description	Pipe Threading Capacity		Rod Threading Capacity		Maximum Geared Threader Capacity		Weight	
			In.	mm	In.	mm	In.	mm	Lb.	kg
41935	700	115V 25-60 Hz	1/8-2	3-50	1/4-1	6-25	6	150	31	14
41940	700	230V 25-60 Hz	1/8-2	3-50	1/4-1	6-25	6	150	31	14

MANUAL PIPE THREADERS



EXPOSED RATCHET THREADERS

The die heads lock into ratchet assembly and are removed by pulling out ratched knob. Includes ratchet handle.

ENCLOSED RATCHET THREADERS

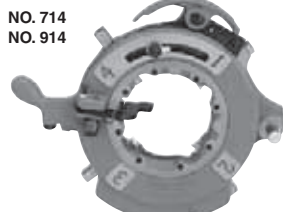
Die heads snap in from either side. Ratchet knob indicates forward and reverse. Includes ratchet handle.

EXPOSED RATCHET THREADER SETS

Model No.	Capacity		Catalog Number				Weight	
	In.	mm	Npt	Bspt	Npsm	Bspp	Lb.	kg
12-R	1/2-1-1/4	12-32	36480	-	-	-	23-3/4	10.8
12-R	1-2	25-50	36490	-	-	-	27	12.3
12-R	1/2-2	12-50	36475	65255	36510	-	34-3/4	15.8
12-R	1/4-2	6-50	36495	-	-	-	42-1/4	19.2
12-R	1/8-2	3-50	36505	65285	-	-	45-1/2	20.7

ENCLOSED RATCHET THREADER SETS

Model No.	Capacity		Catalog Number				Weight	
	In.	mm	Npt	Bspt	Npsm	Bspp	Lb.	kg
11-R	1/2-1 1/4	12-32	36390	65135	36425	-	16	7.3
11-R	1/8-1 1/4	3-32	36420	65165	-	-	20	9.1



PIPE DIES FOR USE IN UNIVERSAL DIE HEADS (NOS. 504A, 711, 713, 811A, 815A, 816, 817 AND 842)

Die Material Or Type		(NPT)				(NPSM)			
		Nominal Pipe Size-Threads Per Inch				Nominal Pipe Size-Threads Per Inch			
		1/8"-27	1/4"-3/8"-18	1/2"-3/4"-14	1"-2"-11-1/2	1/8"-27	1/4"-3/8"-18	1/2"-3/4"-14	1"-2"-11-1/2
Alloy	RH	47735	47740	47745	47750	47825	47830	47835	47840
Alloy	†LH	—	47795	47800	47805	—	—	—	—
High-Speed	RH	47755	47760	47765	47770	47845	47850	47855	47860
High-Speed	†LH	39587	47810	47815	47820	—	—	—	70775
H.S. For Stainless Steel	RH	47775	47780	47785	47790	—	—	—	—
H.S. For Cast Iron	RH	—	—	—	70740	—	—	—	—
H.S. For PVC	RH	—	—	70745	70750	—	—	—	—
H.S. For Plastic Coated Pipe	RH	—	—	50012	31822	—	—	—	—

† Requires left hand model die head

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POWER PIPE CUTTERS & CHAIN VISE STAND



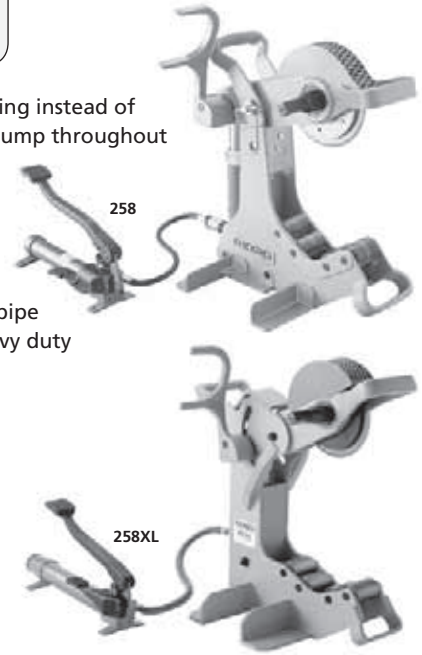
MODEL 258 AND 258XL POWER PIPE CUTTERS

Uniquely engineered to cut 2-1/2" to 8" schedule 10*/40 steel pipe, galvanized pipe, rigid conduit etc. at the jobsite or in the shop

Note:
Models 258 and 258XL are not recommended to cut cast iron pipe

Powered by the RIDGID No. 700 Power Drive, the 258's cutter wheel square cuts pipe by displacing instead of removing pipe material. The operator controls the rate of cut by pumping the hydraulic foot pump throughout the operation. A square cut with minimal burr on either 21' or nipple lengths of pipe is safely achieved in seconds** without abrasive dust, sparks, or open flame. Use the Pipe Roller for Beveling to safely rotate the pipe while a second operator uses a grinder to bevel the pipe.

The RIDGID 258XL offers 8"-12" larger diameter pipe cutting capacity. Utilizing the same displacement type cutter wheel technology, the patented design now enables larger diameter pipe to be cut to length. The 258 XL also incorporates the RIDGID 700 Power Drive to rotate the heavy duty cutter wheel. Now one person can easily square cut 12" schedule 40 pipe in minutes. Standard Equipment: (1) RIDGID 774 Square Drive Adapter, (1) 8-1/2" HD Cutter Wheel, (1) Hydraulic ram and foot pump, Two (2) 2-1/2" to 12" Ball Transfer Pipe Supports



Cat. No.	Model No.	Description	Wgt. Lb.	Wgt. kg
50767	258	2-1/2"-8" Pipe Cutter	105	48
58227	258-XL	8"-12" Pipe Cutter	140	63

Note: 700 Power Drive not included

* Use the thin cutter wheel for best results
** Depends on pipe schedule and diameter

MODEL 460 TRI-STAND CHAIN VISE

Complete With Slots For Hanging Tools, Pipe Rest, Three Pipe Benders And Ceiling Brace Screw

- Integral legs and tray fold in for easy carrying and setup
- Large vise base overhangs front legs for clear tool swing
- 40% larger work surface, increased pipe capacity
- 6" wider, rear support and receding ceiling brace screw.

Catalog No.	Model No.	Description	Pipe Capacity		Weight	
			In.	mm	Lb.	kg
72037	460	Portable Tristand Chain Vise**	1/8-6	3-150	47	21.0

** Jaw for Plastic Pipe available



THREAD CUTTING OIL

- Cools threads and pipe during operation • Speeds metal removal Dark Oil
- Traditional mineral oil with low odor and anti-mist formulation Nu-Clear Oil
- Clear mineral oil with low odor and anti-mist formulation
- High performance formulated to produce superior quality threads on stainless steel and black pipe
- Special low temperature properties maintain workable viscosity to 20°F Stainless Steel Oil
- Biodegradable, synthetic thread cutting fluid cleans easily off concrete, clothing, and piping with water

Container Size	Metric	Catalog No.				Containers Per Case	Wgt. Per Case	
		Nu-Clear	Dark	Stainless Steel	Water Washable		Lb.	kg
1 Qt.*	0.94 L	41565	41590	74007	74017	12	22	12.7
1 Gal.	3.78 L	70835	70830	74012	74022	6	50	22.7
5 Gals	18.90 L	41575	41600	74047	76772	1	42	19.1
55-Gal. Drum	207.90 L	41585	41610	76767	76762	1	465	210.9

* Flip-top included with every quart bottle



ROLL GROOVERS



MODEL 915

MANUAL ROLL GROOVER

The RIDGID 915 Roll Groover is a manual roll groover for in-place field applications. A lightweight design at only 23 lbs., the 915 requires only 3-1/2" of clearance to travel around a pipe and a minimum of 2-3/4" of exposed pipe for grooving. With easy roll set change out, the 915 can groove from 1-1/4" to 12" pipe, the widest range in its class! The cast-in handle allows for easy transport or chaining the groover down to prevent theft.

GROOVER CAPACITY:

- 1-1/4" to 12" Sch. 10 Steel and Stainless Steel Pipe
- 1-1/4" to 6" Sch. 40 Steel and Stainless Steel Pipe
- 2" to 8" Copper (Types K, L, M, DWV)
- 1-1/4" to 6" Schedule 40 PVC
- 1-1/2", 2-1/2" to 3" Schedule 80 PVC

CATALOG NO. 88232

Standard equipment includes (1) Roll Set to groove 2" to 6" Schedule 10 steel and 2" to 3 1/2" Schedule 40 steel and Roll Set Ratchet Wrench.



Customized tool box available That holds 915 groover and all available roll sets. Ask your Newman Representative for details.

MODEL 960

RATCHET-DRIVEN ROLL GROOVER

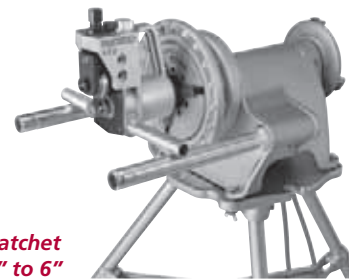
The RIDGID Model 960 Roll Groover is a ratchet-driven, portable roll groover for field applications. With a cast in carrying handle, the 960 Roll Groover is easier to move around the jobsite than any other roll groover of its kind. The 960 Roll Groover mounts on the RIDGID 300-Power Drive for convenient grooving of steel and copper pipe. The 960 can be actuated by either a 1/2" drive ratchet or any wrench that fits the 15/16" hex on the feedscrew.

GROOVER CAPACITY:

- 1" to 6" Schedule 10 and 40 steel pipe
- 2" to 6" Copper Tube Type K, L, M, and DWV

CATALOG NO. 91207

Standard equipment includes a 15" long ratchet 1/2" drive and (1) Roll Set to groove 1-1/4" to 6" Schedule 10 or Schedule 40 steel pipe.



MODEL 916

POWER DRIVEN ROLL GROOVER

The RIDGID Model 916 Roll Groover is the most durable and efficient lightweight portable unit available. Built with a solid, durable cast-iron housing, it withstands heavy usage, yet is light enough at just 33 lbs. for easy transportation. The 916 easily mounts to RIDGID Nos. 300 Power Drive, 535 or 1822 Threading Machines and features a patented single stroke feed mechanism that allows for accurate operation quickly and effortlessly.

GROOVER CAPACITY:

- 1-1/4" to 6" Schedule 10 steel, stainless steel and PVC
- 1-1/4" to 3" Schedule 40 steel, stainless steel and PVC
- 2" to 6" Copper Tube (Type K, L, M, DWV) and 1" Schedule 10 and 40 steel pipe

CATALOG NO. 45007

Standard equipment includes (1) Roll Set to groove 1-1/4" to 6" Schedule 10 steel and 1-1/4" to 3" Schedule 40 steel.



MODEL 918

HYDRAULIC ROLL GROOVER

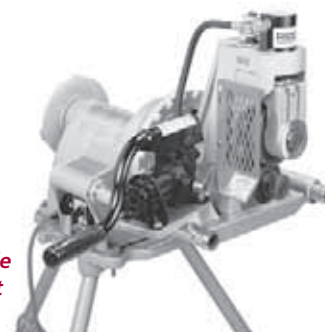
The RIDGID Model 918 Hydraulic Roll Groover features a powerful 15-ton hydraulic ram in a compact, easy to transport unit. With one man set-up and operation, the 918 is the ideal groover for job site requirements. The 918 mounts quickly to RIDGID 300 power drive, 535, 1822, or 1224 Threading Machines. Designed for maximum efficiency, Roll Set changeout is accomplished in seconds.

GROOVER CAPACITY:

- 1" to 12" Schedule 10 steel, stainless steel and PVC
- 1" to 8" Schedule 40 steel and PVC
- 1" to 2" Schedule 40 stainless steel
- 2" to 6" Copper (Types K, L, M, DWV)
- 2-1/2" to 6" Schedule 80 PVC

CATALOG NO. 47222

Standard equipment includes (1) 2" to 6" Schedule 10/40 Roll Set, (1) 8" to 12" Schedule 10 (8" Schedule 40) Roll Set, tools for Roll Set change and (1) Carrying case for Roll Sets.



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ROLL GROOVER SELECTION CHART

RIDGID®

	960	916	915	918	918-1	920
Capacity	1"6"	1"6"	1¼"12"	1"12"	1"12"	2"24"
Weight	24 lbs.	33 lbs.	23 lbs.	81 lbs./185 lbs.	81 lbs./185 lbs.	160 lbs.
"In-Place" Groover			•			
Hydraulic Actuated			•	•	•	•
Will do SS, PVC, Al	•	•	•	•	•	•
Roll Sets for Copper	•	•	•	•	•	•
Drive Units	RIDGID 300	RIDGID 300 RIDGID 535* RIDGID 1822-1*	Hand	RIDGID 300 RIDGID 535* RIDGID 1822-1*	Included	RIDGID 300
Usage	Field	Field	Field	Fab Shop	Fab Shop/Field	Fab Shop/Field

* Adapter pieces required.

PIPE SIZE AND SCHEDULE CAPACITIES

Model	Material	Pipe Size (inches)/Schedule																
		1	1¼	1½	2	2½	3	3½	4	4½	5	6	8	10	12	14	16	18-24
960	Steel	Sch. 5, 10, 40																
	Stainless	5, 10	Sch. 5, 10, 40				Sch. 5, 10											
	Aluminum	Sch. 5, 10, 40																
	PVC	40	40, 80				40											
	Copper			K, L		K, L, M		K, L, M & DWV										
916	Steel	Sch. 5, 10, 40																
	Stainless	5, 10	Sch. 5, 10, 40				Sch. 5, 10											
	Aluminum	Sch. 5, 10, 40																
	PVC	40	40, 80				40											
	Copper			K, L		K, L, M		K, L, M & DWV										
915	Steel	Sch. 5, 10, 40																
	Stainless	Sch. 5, 10, 40				Sch. 5, 10												
	Aluminum	Sch. 5, 10, 40																
	PVC	40	40, 80	40	40, 80				40				5, 10					
	Copper			K, L		K, L, M		K, L, M & DWV										
918/918-1	Steel	Sch. 5, 10, 40																
	Stainless	Sch. 5, 10	Sch. 5, 10, 40				Sch. 5, 10											
	Aluminum	Sch. 5, 10, 40																
	PVC	40	40, 80	40	40, 80										Sch. 5, 10			
	Copper			K, M		K, L, M		K, L, M & DWV										
920	Steel	Sch. 5, 10, 40																
	Stainless											5, 10 std.*		5, 10				
	Aluminum											5, 10 std.*		5, 10				
	PVC	40				40, 80				40				40				
	Copper			K, L		K, L, M		K, L, M & DWV										

* 8" grooving is not recommended for Sch. 40 if pipe hardness is above 150 BHN

* Std. = Standard wall thickness (.375).

Note: Use of roll sets on both carbon and stainless steel pipe can lead to contamination of the stainless material. This contamination could cause corrosion and premature pipe failure.

To prevent ferrous contamination, use roll sets dedicated for stainless steel grooving.

Note: Consult your Newman representative to confirm exact capacity specifications.

ROLL GROOVER / THREADER COMPATIBILITY

Roll Groover Model	Threader Model							
	1210	1215	300 Complete	300 Compact	1822	535 Manual	535 Auto*	1224
916	-	-	45007	67662	48307	60382	-	-
960	-	-	91207	91207	91207	91207	-	-
918-1	-	-	48297	-	-	-	-	-
918-2	-	-	-	-	48377	-	-	-
918-4	-	-	-	-	-	-	-	48382
918-5	-	-	-	-	-	48387	-	-
920	-	-	95782	-	-	-	-	-

* Not recommended for roll grooving applications.



PIPE STANDS



V HEAD PIPE STANDS



VJ-98

VJ-99

ROLLER HEAD PIPE STANDS



RJ-98

RJ-99

ADJUSTABLE STAND WITH STEEL ROLLERS



AR-99

A full range of heavy-duty adjustable pipe stands are available in varying configurations with capacity from 1/8" to 36" suitable for use with threading machines and roll groovers, etc.

If you don't see what you're looking for, consult your representative for a complete listing of all quality RIDGID pipe stands available at Newman Associates.

Cat. No.	Model No.	Description	Height Adjustment Low-High		Max Pipe Capacity		Max Weight Capacity		Max Pipe Capacity	
			in.	cm	in.	mm	lb.	kg	lb.	kg
56657	VJ-98	V Head Low Pipe Stand	20-38	51-96	12	300	2500	1136	21	9.5
56662	VJ-99	V Head High Pipe Stand	28-52	71-132	12	300	2500	1136	23	10.4
56667	RJ-98	Roller Head Low Pipe Stand	23-41	59-104	12	300	2500	1136	24	10.9
56672	RJ-99	Roller Head High Pipe Stand	32-55	82-140	12	300	2500	1136	27	12.3
64642	AR99	Ad. Roller Stand w/Steel Wheels	34	86	36	900	2500	1136	30	13.6



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LOCATION AND INSPECTION TOOLS

RIDGID

SEEKTECH SR-20 LINE LOCATOR

RIDGID's new line of locating equipment meets the most demanding needs of the locating professional. Built to make even difficult locates easy, SeekTech is the only line locator that uses omni-directional antennas, guidance arrows and an easy to read mapping display to lead you quickly and accurately to the target line. The antennas power the large mapping display which provides all the information you need to locate underground utilities with ease and confidence.

- Proximity Signal Minimizes depth over target and maximizes relative signal strength to guide you closer to the target independent of the current flow
- Mapping Display Virtually maps the utility to help guide you down the line. Shows signal distortion and line turns in real time
- Continual Depth Increase productivity by showing depth changes in real time
- Guidance Arrows Guides the operator to target line by minimizing signal gradient
- Current Identifies current on target line for faster diagnosis of complex locates
- Signal Strength Allows the operator to maximize signal strength over the target

CATALOG NO. 21938

SPECIFICATIONS

Active Line Trace Frequencies:	128Hz, 1kHz, 8kHz, 33kHz
Sonde Frequencies :	16Hz, 512Hz, 33kHz
Passive Power Trace:	50Hz, 60Hz
Passive Radio Trace:	<4kHz, 4kHz-15kHz, 15kHz-38kHz
Weight:	3.9 lbs.
Power Source:	4 C-Size Batteries



CARRYING CASE INCLUDED!

SEESNAKE MICRO™ INSPECTION CAMERA

The new RIDGID SeeSnake micro™ inspection camera allows you to easily perform visual inspections in hard to reach areas. Its lightweight, handheld design means that it can be carried anywhere ñ providing solutions when and where you need them, while allowing you to offer more services and increase productivity.

SPECIFICATIONS:

Display:	2.5" Color LCD (160 x 234 resolution)
Camera Diameter:	0.7"
Lighting:	2 Adjustable LEDs
Cable Reach:	3' (expandable to 30' w/optional extensions)
Waterproof:	Camera & Cable to 10' (when properly assembled)
Power Source:	4 AA Batteries (3 hrs. of continuous run-time)
Attachments:	Mirror, Hook & Magnet
Weight:	1.2 lbs.



CAT. NO.	DESCRIPTION	WEIGHT	
		LB.	KG.
25643	SeeSnake Micro Inspection Camera	1.2	0.5
26658	3' Cable Extension	0.7	0.3
26663	Replacement Imager Head and Cable	0.7	0.3
26668	Accessory Pack (Mirror, Hook and Magnet)	0.02	0.01



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POWER THREADERS AND ROLL GROOVERS

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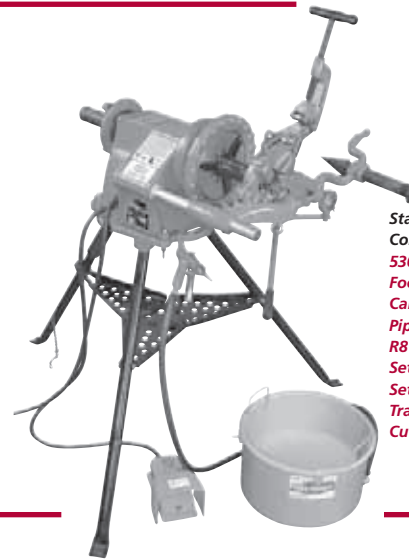
5301PD POWER DRIVE POWER THREADING ASSEMBLY

Reed's 5301PD Power Drive rotates the pipe while cutting, threading, or reaming operations are performed on up to 2" diameter pipe and conduit. The flat top of housing is ideal for placing tools. 5301PD includes long-lasting HSS dies, not alloy dies.

Capacity: 1/8" to 2" Pipe, 1/4" to 2" Bolt • Weight: 208 Lbs.

CAT. NO.	ITEM CODE	DESCRIPTION	WEIGHT	
			LBS	KG
5301PD38	05301	5301PD @ 38 RPM w/ Footswitch Only	93	43
5301PD57	05302	5301PD @ 57 RPM w/ Footswitch Only	93	43
5301PD38COMP*	05303	5301PDCOMP @ 38 RPM	208	95
5301PD57COMP*	05304	5301PDCOMP @ 57 RPM	208	95

* Includes standard equipment Listed to Right



PIPE TOOLS & VISES
SINCE 1896

Standard Equipment for the Complete Systems Includes:
5301PD (38 OR 57 RPM) with Footswitch, Tripod, Carriage with lever, Pipe Cutter, Reamer R811 Universal Diehead, Set 1/2" - 3/4" Universal HSS Dies, Set 1" - 2" Universal HSS Dies, Transporter, Oiler and Thread Cutting Oil (1 gallon)

700PD POWER DRIVE PORTABLE POWER THREADER

Reed's 700PD Power Drive is a portable, electric, heavy-duty power drive that threads pipe and conduit up to 2" (50 mm) in diameter. 700PD is 1/2 horsepower, double insulated, turns at 28 RPM (no load) and uses a forward/reverse switch. It uses Reed R12+ Segmental dies and dropheads or RIDGID® brand 12R dies and dropheads. Also, the 700PD can be used with power tapping/drilling or threading machines by adding a Power Drive Adapter.

Model No.: 700PD • Item Code: 05270

Capacity: 1/8" to 2" (Order R12+ Dropheads Separately) • Weight: 40.5 Lbs.

Standard Equipment Includes:
700PD Power Drive and Safety Vise



PORTABLE ROLL GROOVERS

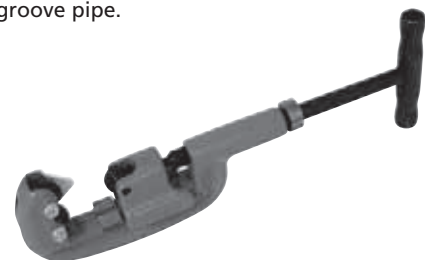
Reed portable roll groovers are compact, durable tools for use at installation sites. The RG6S and RG6CU are designed to be powered by Reed 5301PD power drive. The RG26 is for grooving in-place pipe, and pipe too short for powered groovers. For copper tubing Reed offers the RG6CU and RG26CU models with special rollers and shafts to meet copper grooving specifications.



RG26S

RG1.5 ROLL GROOVER

RG1.5 allows the user to roll groove 1-1/2" and smaller pipe. The RG1.5 uses the body of Reed's 2-1 to hold roll grooving wheels and requires 360 degrees of rotation to groove pipe. It is lightweight for in-air roll grooving and makes use of the common steel pipe cutter to roll groove pipe.



Model No.: RG1.5
Item Code: 08532

Capacity: Up to 1-1/2" nominal pipe capacity w/ O.D. mm of 51

Weight: 7.2 Lbs.

CAT. NO.	ITEM CODE	PIPE MATERIAL	PIPE CAPACITY		WEIGHT	
			INCHES - NOMINAL	MM	LBS	KG
RG26CU	08512	Copper Tubing	2" - 6"	51 - 152	20	9.1
RG26S	08510	Steel, Al, PVC, SS	2" - 6" Sch. 5S to 10S, 2" - 3" Sch. 40	51-152, 51-76	20	9.1
RG6CU	08502	Copper Tubing	2" - 6"	51-152	26.6	12.1
RG6HD COMBO*	08508	Schedule 10/40 for Steel, Stainless Steel, PVC & Aluminum pipe	1-1/4" - 6"	32-152	32.0	14.5
RG6S	08500	Steel, SS, Al 1	1-1/4" - 6" Sch. 5S to 40	32-152	26.6	12.1

* In-Air and In-Place Groover Combination



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MANUAL PIPE CUTTERS & RATCHET SHEARS

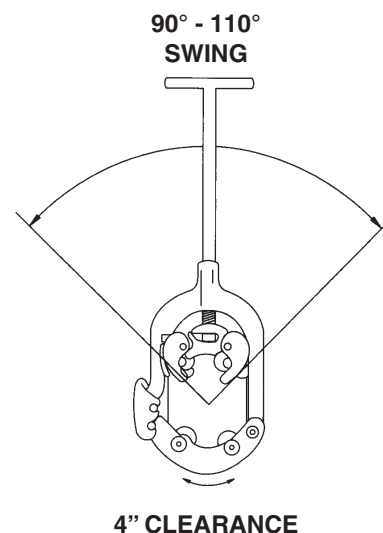
PIPE TOOLS & VISES
SINCE 1896

HINGED CUTTERS

(1" - 12" or 32-356 mm)

Four wheels cut steel, stainless steel, cast and ductile iron with only 90° to 110° handle swing. Only 4" clearance required around pipe. Strong guide fingers ensure perfect alignment for square cuts. A closed 360° frame forces all energy into cutting the pipe for maximum efficiency. There is no shower of sparks in this cold cut. This is the only hinged cutter that tracks every time and the only one recommended for ductile iron, steel, and stainless steel to Schedule 100. This tool is a Reed invention.

CAT. NO.	ITEM CODE	PIPE CAPACITY		LENGTH		WEIGHT	
		INCHES NOM.	ACTUAL Ø MM	IN	MM	LBS	KG
H21/2S*	03110	1 - 2-1/2	32 - 76	17	419	8	3.6
H21/2I*	03112	1 - 2-1/2	32 - 76	17	419	8	3.6
H21/2X*	03114	1 - 2-1/2	32 - 76	17	419	8	3.6
H4S**	03120	2 - 4	60 - 125	22	559	14	6.3
H4I*	03122	2 - 4	60 - 125	22	559	14	6.3
H4X*	03124	2 - 4	60 - 125	22	559	14	6.3
H6S	03130	4 - 6	114 - 182	28	711	22	10.0
H6I	03132	4 - 6	114 - 182	28	711	22	10.0
H6X	03134	4 - 6	114 - 182	28	711	22	10.0
H8S	03140	6 - 8	168 - 240	32	813	28	13.0
H8I	03142	6 - 8	168 - 240	32	813	28	13.0
H8X	03144	6 - 8	168 - 240	32	813	28	13.0
H8XX	03146	6 - 8	168 - 240	32	813	28	13.0
H12S	03150	8 - 12	219 - 356	34	864	39	18.0
H12I	03152	8 - 12	219 - 356	34	864	39	18.0
H12X	03154	8 - 12	219 - 356	34	864	39	18.0
H12XX	03156	8 - 12	219 - 356	34	864	39	18.0



4" CLEARANCE

*EXCLUSIVE

NOTE: S= comes with wheels for steel; I= for cast and ductile iron; X= for schedule 80 steel; XX= for schedule 100 steel. Wheels for same size cutters are interchangeable. Recommend only Reed cutter wheels be used with these hinged cutters. Reed wheels are made from high shock-resistant tool steel and then precisely heat treated.

RATCHET SHEARS

Ratchet shears are ideal for cutting PVC, PE, PP, PEX, and ABS pipe. The one-hand models RS1 and RS1PLT offer a 7-step ratchet mechanism for best mechanical advantage and smoothest operation. RS1PLT has a corrosion-resistant plated steel blade. The RS2 features 2" capacity, extra wide, v-style jaws for easy alignment, and long handles for leverage on tough-to-cut pipe. All ratchet shears' blades can be easily sharpened or replaced.



RS1

RS1's Broader base and 7-step ratcheting mechanism means square cuts are easily attained with minimal clearance



RS2

CAT. NO.	ITEM CODE	CAPACITY		LENGTH		WEIGHT	
		ACTUAL INCHES	ACTUAL Ø MM	IN	MM	LBS	KG
RS1	04176	1.7	42	8.3	210	0.8	0.4
RS1PLT	04175	1.7	42	8.3	210	0.8	0.4
RS2	04177	2.4	63	17.0	440	2.8	1.3
REPLACEMENT BLADES:							
RS1B	94175	—	—	—	—	—	—
RS1BPLT	94180	—	—	—	—	—	—
RS2B	94176	—	—	—	—	—	—



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HOLEMAKING TOOLS & ACCESSORIES



PIPE TOOLS & VISES
SINCE 1896

HOLE MASTER™

For use in depressurized piping systems only!

The Hole Master™ (HCB) provides a means of clamping onto pipe and using a drill* to cut a hole in the pipe. The handle and gear provide leverage for cutting holes in pipe. Hole Master™ has a pipe diameter mounting range of 1-1/4" - 10" and fits a hole saw up to 4-3/4". Hole saw or bit (sold separately).

*Hole Master™ works with either the Milwaukee® 1660-1 and 1660-6, Dewalt® DW131 or 18V Cordless DC987KA.

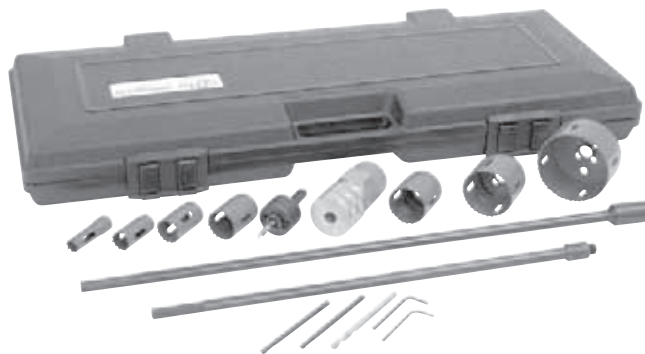
Standard Equipment Includes:
Base, chain and screw for secure clamping, along with a plate and drill holder for mounting a drill and hole saw to the unit.



CAT. NO.	ITEM CODE	LENGTH / WIDTH / THICKNESS	DESCRIPTION	WEIGHT	
				LBS	KG
HCB-47BAT	08449	13" X 12" X 5"	Fits 18V Cordless Dewalt® DC987KA	28.0	12.7
HCB-475D	08442	13" X 12" X 5"	Fits Dewalt® DW131 Drill	28.0	12.7
HCB-475M	08441	13" X 12" X 5"	Fits Milwaukee® 1660-1 and 1660-6	28.0	12.7

MECHANICAL HOT TAPPING MACHINES

Hot tap using the DM3MECH Mechanical Hot Tapping Machine. With the right hole saw, cut or drill into copper, steel, or plastic pipe for up to 4" valves. DM3MECH contains the drilling machine, along with 7/16" Hex Arbor, 1/4" Drill Bit, 7 Hole Saws, hex wrench, and toolbox. DM3MECHB is the drilling machine with toolbox only - no extras. These machines require a 1/2" drill motor, valves, and fittings which are all sold separately.



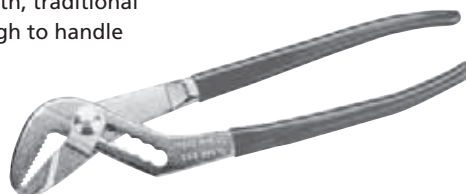
Standard Equipment Includes: The drilling machine with 7/16" Hex Arbor, 1/4" Drill Bit, 7 Hole Saws, hex wrench and toolbox

CAT. NO.	ITEM CODE	VALUE SIZE	WEIGHT	
			LBS	KG
DM3MECH	08350	3/4" - 4"	12.0	5.5
DM3MECHB	08351	3/4" - 4" Toolbox Only	10.0	4.5

WATER PUMP PLIERS

Forged, slip joint design, for one hand operation. Pipe wrench style milled teeth, traditional 32° angle nose and zinc plating which inhibits corrosion. Pliers are large enough to handle 1 1/2" slip nuts on traps and have maximum capacity of 2" nominal. Handles are always parallel, even with jaws fully extended.

Catalog No.: WPP10 • Item Code: 02650
Capacity: 2" pipe, 1-1/2" slip nuts • Length: 10" • Weight: .9 Lbs.



SAFETY PRODUCTS

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HANGERS & STRUT

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HOLEMAKING


Current Tools
 FOR THE PROFESSIONAL ELECTRICIAN

PIECE MAKER™ PUNCHES ARE DESIGNED TO SPLIT THE SLUG IN TWO PIECES FOR EASY REMOVAL FROM DIE AFTER PUNCH COMPLETION

157PM RATCHET KNOCKOUT SET

- Designed to split the slug in two pieces for easy removal
- 1" hex ratchet wrench fits both 3/8" and 3/4" draw bolts
- Heavy duty plastic carrying case
- Designed to punch a maximum of 10 gauge (.134") mild steel
- Compare with Greenlee® Slug-Buster® Model 72385B

1/2" to 2" - 9 lbs.



PIECE MAKER™ HYDRAULIC KNOCKOUT SETS

- Requires less force than conventional punches
- Fast set-up
- High-strength steel punches and dies for long life
- Reduces punch time versus manual or ratchet methods
- Unique hand pump design with heavy duty ram
- Designed to punch a max of 10 gauge (.134") mild steel
- Compare with Greenlee® Slug-Buster® Models 7306SB and 7310SB

152PM 1/2" to 2" - 29 lbs.

154PM 1/2" to 4" - 54 lbs.


STUD PUNCH

- Punches steel studs up to 20 gauge
- Self-clearing mechanism to help avoid punch hang-up
- Handle designed to allow for tight clearances
- Self-centering on standard width studs
- Lightweight aluminum body



CAT. NO.	DESCRIPTION	WEIGHT
140	Stud Punch - 7/8" hole Capacity - Minimum stud width 1 5/8" - up to 20 gauge steel studs	6.5 lbs.
141	Stud Punch - 1 11/32" hole Capacity - Minimum stud width 2 1/2" - up to 20 gauge steel studs	7.0 lbs.

ITEM NO.	CAT NO.	DESCRIPTION (1 PER PACK)
1	1556	1" Ratchet Wrench
2	1557	Draw Bolt - 3/8" x 1 5/8"
3	1558	Draw Bolt - 3/4" x 2 15/16"
4	1524	1/2" Piece Maker™ Punch
5	1525	1/2" Die
6	1526	3/4" Piece Maker™ Punch
7	1527	3/4" Die
8	1528	1" Piece Maker™ Punch
9	1529	1" Die
10	1530	1 1/4" Piece Maker™ Punch
11	1531	1 1/4" Die
12	1532	1 1/2" Piece Maker™ Punch
13	1533	1 1/2" Die
14	1534	2" Piece Maker™ Punch
15	1535	2" Die
16	157-PC	Plastic Case

ITEM NO.	CAT NO.	DESCRIPTION (1 PER PACK)
1	1522	Ram - Includes #2
2	1551	3/4" Draw Stud
3	1552	1 1/8" Adapter Sleeve
4	1550	3/8" Draw Stud
5	1553	Short Spacer - S
6	1554	Medium Spacer - M
7	1555	Long Spacer - L
8	1521	Hydraulic Hand Pump
9	1523	1/4" x 3' Hydraulic Hose
10	1500-PC	Plastic Carrying Case - 1/2" to 2" Set
11	1501	Metal Carrying Case - 1/2" to 4" Set
12	1524	1/2" Piece Maker™ Punch
13	1525	1/2" Die
14	1526	3/4" Piece Maker™ Punch
15	1527	3/4" Die
16	1528	1" Piece Maker™ Punch
17	1529	1" Die
18	1530	1 1/4" Piece Maker™ Punch
19	1531	1 1/4" Die
20	1532	1 1/2" Piece Maker™ Punch
21	1533	1 1/2" Die
22	1534	2" Piece Maker™ Punch
23	1535	2" Die
24	1566	2 1/2" Punch
25	1567	2 1/2" Die
26	1568	3" Punch
27	1569	3" Die
28	1570	3 1/2" Punch
29	1571	3 1/2" Die
30	1572	4" Punch
31	1573	4" Die
---	155-SET	Spacer Set S-M-L



PIPE BENDERS



MECHANICAL BENDERS

- Heavy duty, all metal construction for durability
- Ratchet action for ease in bending
- Model 750 has TWEAKER™ feature to correct overbends of 3° or less

CAT. NO.	DESCRIPTION	WEIGHT
750	1/2" To 1" Mechanical Bender for RIGID/IMC Conduit	91.0 lbs.
751	1 1/4" and 1 1/2" Mechanical Bender for RIGID/IMC Conduit	105.0 lbs.



OFFSET BENDERS

- Quick offset bends on EMT conduit
- Ideal for making consistent offset bends for wall mounted boxes

CAT. NO.	DESCRIPTION	WEIGHT
705	1/2" EMT Offset Bender	5.0 lbs.
706	3/4" EMT Offset Bender	5.0 lbs.

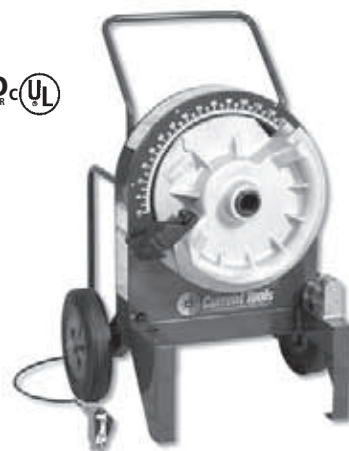


77 SERIES ELECTRIC BENDERS

- Powerful motor will make 180° bends on up to 2" EMT, IMC, Rigid and 40 mil PVC conduit
- Rugged and dependable electrical system
- Easy to maintain, Handle pivots to allow for dogleg bends
- Shoes and roller support assemblies will fit Greenlee's® 555® electric bender
- Two year warranty



CAT. NO.	DESCRIPTION	WEIGHT
77	Electric Bender Power Source only (no shoes)	270 lbs.
77RIG	Electric Bender with No. 700R Rigid Shoes and Accessories	365 lbs.
77EMT	Electric Bender with No. 700e EMT Shoes and Accessories	430 lbs.
77IMC	Electric Bender with No. 700I IMC Shoes and Accessories	410 lbs.
77PVC	Electric Bender with No. 700P 40 mil PVC Coated Conduit Bending Shoes and Accessories	365 lbs.
77COM	Electric Bender with No. 700E, No. 700I, & 700R Shoes and Accessories	660 lbs.



A BIG Word About Our
delivery service...
DEPENDABLE



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PVC HEATERS AND HEATING BLANKETS



450 PVC HEATER FOR 1/2" - 2"



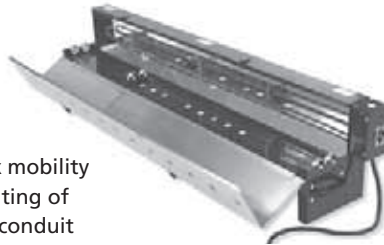
- Full length door allows easy loading and removal of PVC conduit
- Manual operation
- 115 vac-1700 watts - 15 amps
- Lighted ON/OFF switch
- Highly reflective interior for even heating
- Includes convenient carrying handle

451 PVC HEATER FOR 1/2" - 4"



- Durable wheels for max mobility
- Full length door allows easy loading and removal of PVC conduit
- Manual operation
- 120 vac - 2300 watts - 20 amps
- Lighted ON/OFF switch
- Highly reflective interior for even heating

452 PVC HEATER FOR 1/2" - 6"



- Durable wheels for max mobility
- Double doors allow heating of shorter lengths of PVC conduit with one door open
- Manual Operation
- 230 vac - 6400 watts - 28 amps
- Power indicator light
- Stainless steel doors

453 PVC HEATER FOR 1/2" - 6" AUTO ROTATE



- Includes drive to automatically rotate the conduit for even heating
- Durable wheels for maximum mobility
- Double doors allow heating of shorter lengths of PVC conduit with one door open
- 230 vac - 6400 watts - 28 amps
- Power indicator light
- Stainless steel doors

CAT. NO.	DESCRIPTION	WEIGHT
450	Electric Heater for 1/2" to 2" PVC conduit - Dimensions: 6 3/4" (w) x 9 1/4" (h) x 26 3/8" (l)	22.0 lbs.
451	Electric Heater for 1/2" to 4" PVC conduit - Dimensions: 9" (w) x 12 3/4" (h) x 56 7/8" (l)	52.0 lbs.
452	Manual Electric Heater for 1/2" to 6" PVC conduit - Dimensions: 12" (w) x 16 1/4" (h) x 79 1/4" (l)	77.0 lbs.
453	Auto Rotate Electric Heater for 1/2" to 6" PVC conduit - Dimensions: 12" (w) x 16 3/4" (h) x 79 1/4" (l)	87.0 lbs.

PVC HEATING BLANKETS

- Fast, economical way to heat PVC Conduit for bending
- Contains built-in stiffeners to hold blanket tightly against conduit surfaces
- Straps hold blanket in place while heating
- All models are 120 vac

CAT. NO.	DESCRIPTION	WEIGHT
441	PVC Blanket for 1/2" to 1 1/2" PVC conduit Dimensions: 7 1/2" x 18"	1.5 lbs.
451	PVC Blanket for 2" to 3" PVC conduit Dimensions: 11 1/4" x 25"	2 lbs.
452	PVC Blanket for 3 1/2" to 4" PVC conduit Dimensions: 14 3/8" x 36"	4 lbs.





CABLE PULLING

NUMEROUS PACKAGES TO CHOOSE FROM!
8800, 8803, 8806, 8810, 8813, 8816

- All components designed for up to 8,000 lb. cable pulls
- Versatile variety of components for different pulling configurations



SAFETY
PRODUCTS

TOOLS &
ACCESSORIES

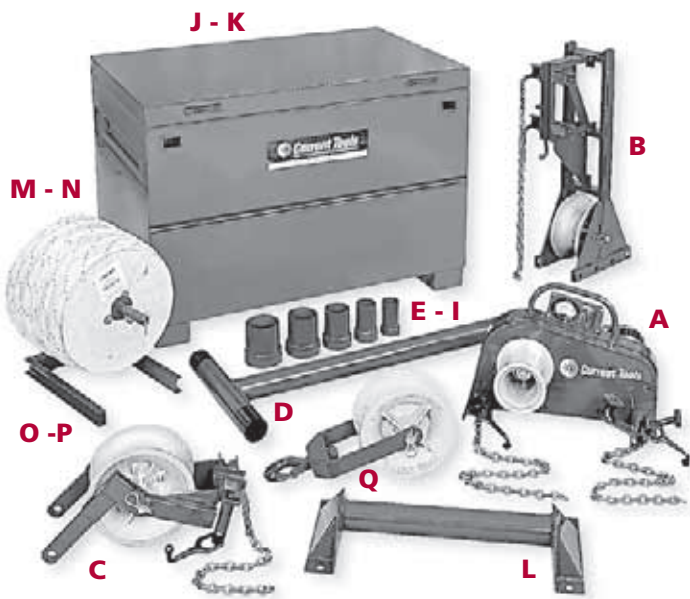
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8090 MANTIS™ MOBILE CABLE PULLING CART

- Excellent Mobility
- Easy Set-Up
- Transport without complete disassembly
- Pulls up to 20' wide extra cable
- 8,000# capacity
- Fits through 32' doorway
- Will fit Greenlee® Model 6001 Super Tugger® and 640 Tugger®

CABLE PULLING PACKAGE

ITEM NO.	CAT NO.	DESCRIPTION (1 PER PACK)	PULLER ONLY							WGT
			88	8800	8803	8806	8810	8813	8816	
A	88	Cable puller with chains	1	1	1	1	1	1	1	101
B	8041	Pipe adapter sheave with chains		1	1	1				70
C	8042	Flexible pipe adapter with chain		1	1	1				32
D	8043	T-boom extension		1	1	1				20
E	8046	2" extension bushing		1	1	1				1
F	8047	2 1/2" extension bushing		1	1	1				2
G	8048	3" extension bushing		1	1	1				3
H	8049	3 1/2" extension bushing		1	1	1				4
I	8050	4" extension bushing		1	1	1				5
J	101	Storage box		1	1	1	1	1	1	177
K	506	Casters - 6" (2 swivel, 2 fixed)		1	1	1	1	1	1	20
L	8045	Floor mount		1	1	1	1	1	1	20
M	34300PR	3/4" x 300' pulling rope			1					59
N	34600PR	3/4" x 600' pulling rope				1			1	115
O	8051	Rope stand for 300' rope			1			1		15
P	8052	Rope stand for 600' rope				1			1	25
Q	812	Heavy-duty 12" hook sheave			1	1		1	1	24



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REEL STANDS, SPINDLES AND SHEAVES



FOR THE PROFESSIONAL ELECTRICIAN

SCREW TYPE REEL STANDS



- All steel construction
- Rugged design for job site use
- Wide base for added stability
- Adjustment pins wired to stands

CAT. NO.	DESCRIPTION	WEIGHT
660	Small Screw Type Reel Stand Capacity: 2,500 lb each Height: 13" min to 27" max. Reel Diameter: 26" min to 56" max.	27 lbs.
670	Medium Screw Type Reel Stand Capacity: 2,500 lb each Height: 21" min to 54" max. Reel Diameter: 46" min to 96" max.	7.0 lbs.

RATCHET TYPE REEL STAND



- Heavy duty stands for large reel projects
- All steel construction
- Ratchet mechanism to raise and lower the height
- Wide base for added stability
- Roller heads have self-lubricating bearings

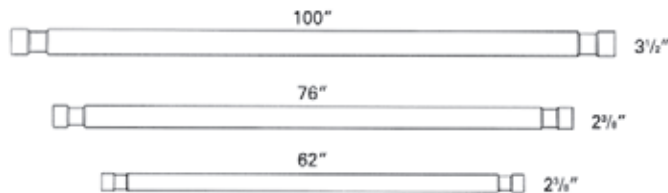
CAT. NO.	DESCRIPTION	WEIGHT
680	Large Ratchet Type Reel Stand Capacity: 3,750 lb each Height: 28" min to 45" max. Reel Diameter: 58" min to 90" max	99 lbs.

REEL STAND SPINDLES

For use with reel stands where a groove on each end keeps the spindle in place



CAT. NO.	DIAMETER	LENGTH	CAPACITY	STAND NUMBER	USE W/ REEL WEIGHT
661	2-3/8"	62"	5,000 Lbs.	660/670	39 lbs.
671	2-3/8"	76"	5,000 Lbs.	660/670	47 lbs.
681	3-1/2"	100"	7,500 Lbs.	680	119 lbs.



HOOK TYPE SHEAVES 4,000 LB. CAPACITY

- Forged steel hooks with 1" opening
- Welded steel frames
- 5" wide aluminum sheaves with self-lubricating bearings



HOOK TYPE SHEAVES REPLACEMENT PARTS

CAT. NO.	DIAMETER	WEIGHT	SHEAVE	SHEAVE PIN	SPRING CLIP	YOKE FRAME
406	6"	11.5 lbs.	406-4	406-2	406-3	406-1
412	12"	18.5 lbs.	412-4	406-2	406-3	412-1
418	18"	28.0 lbs.	418-4	406-2	406-3	418-1
424	24"	38.0 lbs.	424-4	406-2	406-3	424-1

HOOK TYPE SHEAVES 8,000 LB. CAPACITY

- Forged steel hooks with 1-3/8" opening
- Heavy duty welded steel frame
- Self lubricating bearings



3 SIZES AVAILABLE:

12" - 5" wide, 18" - 6" wide, 24" - 6 1/2" wide

CAT. NO.	DESCRIPTION	WEIGHT
812	12" Diameter Hook Sheave	24.0 lbs.
218	18" Diameter Hook Sheave	46.0 lbs.
824	24" Diameter Hook Sheave	69.0 lbs.



WIRE CARTS



501 DOLLY CART

- Holds up to 6 - 2,500 ft. spools up to 16" diameter or 15 - 500' spools
- Heavy duty dolly type cart can be used vertically or horizontally
- Rods to hold wire reels have spring clips on each end for easy loading/unloading
- Large 8" wheels for easy mobility
- Wire guide on handle for horizontal dispensing
- Will fit through 28" door
- Weight: 62 lbs.



502 TURTLE CART

- Holds up to 6 - 2,500 ft. spools up to 18" diameter
- Heavy duty frame
- Wire guide permanently mounted to front of cart
- Spindle designed to reduce backlash
- Will fit thru 30" door
- Large wheels for easy mobility, front swivel/brake caster and semi pneumatic rear wheels
- Weight: 99 lbs.



503 WIRE TREE

- Holds up to 10 - 2,500 ft. spools of wire up to 16" in diameter
- Heavy duty tree type wire dispenser
- Spindles designed to reduce backlash
- Wire guide permanently mounted on front of cart - swivels 360° for up or down pulls
- T-handle for ease of transporting
- Will fit through 32" door
- Large 8" wheels for easy mobility - front wheels swivel and brake
- Weight: 175 lbs.



504 REEL DOLLY

- 300 lb max. capacity.
- Holds reels of cable up to 20" wide and 40" in diameter
- Designed to easily move and dispense reels of wire around the job site
- Heavy duty design for years of service
- Folding handles to save space
- 8" diameter molded-on rubber wheels
- Weight: 114 lbs.



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PIPE AND CONDUIT HANDLING



505 CONDUIT RACK

- 1,000 lb. capacity
- For organizing conduit or pipe
- 7 spaces for sorting
- Arms fold down to save space
- Provided with large 6" casters; 2 swivel and 2 fixed
- Weight: 111 lbs.



507 CONDUIT BUNDLER

- 1,000 lb. capacity
- Designed for easy movement of large bundles of conduit on the job site
- Welded construction for years of job site use
- Provided with large 6" casters; 2 swivel and 2 fixed
- Weight: 112 lbs.



508 PIPE / CONDUIT TRANSPORTER

- 1,000 lb. capacity
- Transports up to 20' lengths of pipe
- Large pneumatic tires move load with ease
- Ergonomically designed handle
- Heavy duty construction
- Weight: 92 lbs.



9900 CHAIN VISE STAND

- Chain Vise Stand for 1/8" to 6" conduit and pipe
- Larger Capacity - to 6" conduit
- Safely holds conduit or pipe for threading, etc.
- Leg support has tray for tools
- Conduit support on top for anchoring stand during threading
- Easily collapsible and transportable
- Weight: 45 lbs.





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PIPE, CONDUIT AND PVC BENDERS



SITE-RITE® HEAT TREATED ALUMINUM AND SITE-RITE II® MALLEABLE IRON HAND BENDERS

- Handle straight up and down for 30° bends
- Patented sight indicator on bender is a key feature for bending angles fast and easy
- Non-slip - contoured pedal for added leverage • Strong - stable square hook design
- Cast-in markings for stub-ups - saddle bends - back to back bends and head-up or down bending



CAT. NO.	DESCRIPTION
840•	SITE-RITE® Hand Bender for 1/2" EMT
841•	SITE-RITE® Hand Bender for 3/4" EMT, 1/2" Rigid, IMC
842•	SITE-RITE® Hand Bender for 1" EMT, 3/4" Rigid, IMC
843+	SITE-RITE® Hand Bender for 1-1/4" EMT, 1" Rigid, IMC

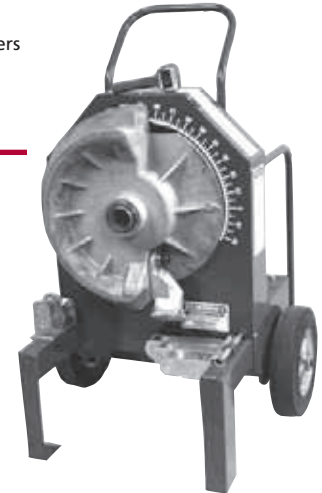
CAT. NO.	DESCRIPTION
845+	Handle for 1/2" and 3/4" Hand Benders
846+	Handle for 1" Hand Bender
• Add "H" when ordering to include Handle	
+ Add "8" when ordering Malleable Iron	

555® Deluxe ELECTRIC CONDUIT BENDER

For 1 1/2" Thru 2" Conduit And Pipe

- Fast and easy way to bend up thru 2" conduit
- Remote pendant control and bending data charts
- Simple setup and easy operation for consistent bends
- Portable - has handle - excellent balance and heavy duty wheels
- Will make 180° one shot bends in 1/2" thru 2" Rigid conduit

CAT. NO.	CAPACITY
555R:	1/2" - 2" Rigid and 1/2" - 1-1/4" IMC conduit
555E:	1/2" - 2" EMT conduit
555I:	1-1/2" and 2" IMC conduit



CAT. NO. DESCRIPTION

555@	Deluxe Electric Bender power unit without bending accessories
555R	Deluxe Electric Bender with Shoe Groups for 1/2" thru 2" R Rigid and 1/2" thru 1-1/4" IMC conduit and pipe Includes 28007-1/2" - 2" Rigid Shoe Group
555E	Deluxe Electric Bender with Shoe Group for 1/2" thru 2" EMT conduit. Includes 23802 - 1/2" - 2" EMT Shoe Group
555I	Deluxe Electric Bender with Shoe Group for 1-1/2" and 2" IMC conduit Includes 26330 - 1-1/2" - 2" IMC Shoe Group

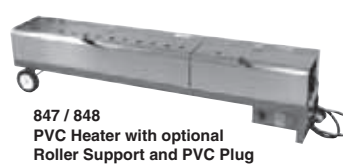
PVC HEATING BLANKET FOR UP TO 4" - ALL SCHEDULES



- Make bends - offsets or saddles in PVC fast and easy
- Controlled - even heating for uniform bending
- Tough cord and thermostat for long life
- Temperature over 300°F (149°C)
- Easy to use: wrap blanket around PVC - secure with hook and loop strap

	860-1/2	860-3	860-4
CAPACITY:	2"-3" PVC All Schedules	Up to 1-1/2" PVC All Schedules	3-1/2"-4" PVC All Schedules
POWER SOURCE:	120VAC	120VAC	120VAC
SIZE:	13" x 8-1/4"	30" x 13-1/4"	38" x 16-1/4"

PVC BENDING SELECTION GUIDE



CAT. NO.	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"	6"
PVC HEATING BLANKET												
860-1-1/2	✓	✓	✓	✓	✓							
860-3						✓	✓	✓				
860-4									✓	✓		
PVC HEATER												
849	✓	✓	✓	✓	✓	✓						
851	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
847 / 848	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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STUD PUNCHES AND KNOCKOUT KITS

ECCX CUTTING, CRIMPING AND PUNCHING TOOL



- 6 ton crimping force • Uses all CCS blades and adapters
- Nickel-metal hydride battery (Ni-MH) delivers up to 30 percent more cycles than nickel-cadmium batteries, without the environmental problems of cadmium - a Green exclusive
- Equipped with a spare battery, a choice of either a 120V, 12V or 220V one-hour charger and a high-impact molded carrying case
- 360° rotating head • Two-speed hydraulic pump
- Automatic retraction when crimping and cutting cycles are complete



CAT. NO. DESCRIPTION

ECCX11	Battery-powered tool with CCX head, 2 Ni-MH batteries, 120 volt charger and high-impact molded carrying case
ECCX12	Battery-powered tool with CCX head, 2 Ni-MH batteries, 12 volt charger and high-impact molded carrying case
ECCX22	Battery-powered tool with CCX head, 2 Ni-MH batteries, 220 volt charger and high-impact molded carrying case

709

METAL STUD PUNCHES

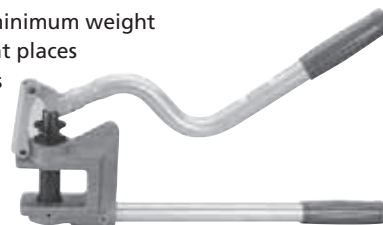
- Punch up through 20 gauge steel studs in one stroke • Aluminum head provides strength with minimum weight
- Contoured handled design gives better operator leverage and makes it possible to punch in tight places
- Self stripping design eliminates punch hang-ups • Automatically centers holes on standard studs

CAT. NO. DESCRIPTION

709	7/8" Diameter Stud Punch
710	1-11/32" Diameter Stud Punch
121AV	Punch for 709 - Accessory

CAT. NO. DESCRIPTION

22286	Die for 709 - Accessory
24823	Punch for 710 - Accessory
21297	Die for 710 - Accessory



7238SB MANUAL KNOCKOUT PUNCH KIT

- Assortment of commonly used Slug-Buster® knockout punches for 1/2" - 2" Conduit Size
- 1" Hex Ratchet Wrench allows use with both 3/8" (19.1 mm) and 3/4" (9.5 mm) draw studs
- Includes high-impact, rugged plastic carrying case.



RAM AND HAND PUMP HYDRAULIC PUNCH KITS

- Fast, easy and simple to operate
- Compact design for field use on construction sites and maintenance jobs
- Powerful 11-ton hydraulic ram
- Punches 10 times faster than wrench method
- Will also drive 751 Cable Cutter head
- Can be used with all standard round, Slug-Buster® and Slug-Splitter® punch sizes
- Can be used with non-round punches (adapter may be required)
- Includes 3-foot hose

7306SB

Kit includes: Driver, hand pump, Slug-Buster® punches, dies and draw studs for 1/2" through 2" conduit, adapter, spacers, Kwik Stepper® Step Bit and plastic case

7310SB

Kit includes: Driver, hand pump, Slug-Buster® punches, dies and draw studs for 1/2" through 2" and 2-1/2" through 4" standard conduit size punches, dies and draw studs, adapter, spacers, Kwik Stepper® Step Bit and steel case



7310SB



CABLE PULLING AND FISHING SYSTEMS



6000 And 6001 SUPER TUGGER® CABLE PULLER

- 6,500 Lb. Rated • Pull up to 6,500 lbs. with less than 27 lbs. of operator effort
- Unique floor mounting attachment for quick setup
- Leaf type mounting chains won't twist when tightening
- Heat treated steel serrated gripper feet for secure mounting to conduit
- Force Gauge included to constantly monitor the pull
- Audio alarm high force warning and circuit breaker shut off at maximum force
- Tapered capstan and patented rope guidance system for better control of the rope when feeding onto the capstan
- Patented



CAT. NO.	UPC NO.	DESCRIPTION
6001	29627	Super Tugger® Cable Puller Power Unit Includes force gauge and vise chains
6001-22	31466	Same as 6001 except 220 VAC 50 HZ
6000	29909	Super Tugger® Complete Puller Package Includes 6001 Super Tugger® cable puller power unit, pipe adapter sheave, flexible pipe adapter, 12" hook type cable sheave, mobile extension boom, 2", 2-1/2", 3", 3-1/2", 4" extension bushings, 3/4" x 300' double-braided polyester rope, rope reel stand, floor mount, and steel storage box with casters
6000-22	31467	Same as 6000 except 220 VAC 50 HZ.
6003	36241	Super Tugger® Complete Puller Package Includes 6001 Super Tugger® cable puller power unit, pipe adapter sheave, flexible pipe adapter, mobile extension boom, 2", 2-1/2", 3", 3-1/2", 4" extension bushings, floor mount & steel storage box with casters
6006	30435	Super Tugger® Complete Puller Package Includes 6001 Super Tugger® cable puller power unit, pipe adapter sheave, flexible pipe adapter, 12" hook type cable sheave, mobile extension boom, 2", 2-1/2", 3", 3-1/2", 4" extension bushings, 3/4" x 600' double-braided polyester rope, rope reel stand, floor mount, and steel storage box with casters

690 VACUUM / BLOWER POWER FISHING SYSTEM

- Unit includes everything you need to blow or vacuum fish line, poly line or measuring tape
- Durable tank and accessory storage box are corrosion, chemical and impact resistant polyeth
- Designed for the job site - 10' long hose, large heavy duty wheels and removable accessory b
- Large 11 gallon tank makes the 690 excellent for cleaning water and debris

CAT. NO.	DESCRIPTION
690	Vacuum / Blower Power Fishing System - 120 VAC
16646	Accessory - Adapter for 1-1/2" - 6" Conduit
18877	Accessory - Vacuum Crevice Tool
18879	Accessory - Vacuum Dust Brush
618	Accessory - Piston for 5" Conduit - IMC, Rigid
619	Accessory - Piston for 6" Conduit - EMT



POLY LINE

- Use with power fishing systems directly from the container
- Resists tangling when dispensing
- Rot and mildew resistant
- Handy reusable plastic dispenser pail with handle keeps the line dry
- Not for pulling wire or cable
- Use to pull rope through conduit

CAT. NO.	DESCRIPTION	PULL RATING
430	Poly Line 6500'	210 lbs.
431	Poly Line 5200'	240 lbs.



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CABLE CUTTERS



718 CABLE CUTTER

- 18" in length • Weighs 2.78 lbs
- Economical - lightweight - fits easily into tool boxes
- Heat treated - precision ground - shear action blades
- Steel handles with rubber grips for leverage • Made in U.S.A.

CAPACITY	COPPER	ALUMINUM
Maximum	350 MCM (150 mm ²)	350 MCM (150 mm ²)
Frequent Use	4/0 (95 mm ²)	



HEAVY DUTY CABLE CUTTERS

- Designed for long, dependable service • Fiberglass handles with large rubber grips
- Replaceable, shear type blades of forged, heat treated steel, precision ground

CAT. NO.	DESCRIPTION
704	21" Heavy Duty Cable Cutter
706	31-1/2" Heavy Duty Cable Cutter
22292	Cutter Unit (Includes 2 Blades) for 706
22296	Handle Unit for 706 (Includes 1 each: Handle, Sleeve, Grip)

21" CABLE CUTTER

CAPACITY	COPPER	ALUMINUM
Maximum	350 MCM (300 mm ²)	500 MCM (240 mm ²)
Frequent Use	250 MCM (240 mm ²)	350 MCM (150 mm ²)



31-1/2" CABLE CUTTER

CAPACITY	COPPER	ALUMINUM
Maximum	750 MCM (300 mm ²)	1000 MCM (240 mm ²)
Frequent Use	500 MCM (240 mm ²)	750 MCM (150 mm ²)

774 HI PERFORMANCE RATCHET CABLE CUTTER

- 19-1/8" Length • Weighs 5.8 lbs.
- Completely new ratchet mechanism improves durability
- Two-speed mechanism closes blades rapidly then shifts to normal speed to perform the cut
- No stubborn release buttons - the blades open automatically when the cut is complete
- Narrow profile permits use in deep boxes, against walls or on floors
- Durable and lightweight fiberglass handles

CAPACITY	COPPER	ALUMINUM
Maximum	750 MCM (400 mm ²)	795 MCM (400 mm ²)
Frequent Use	500 MCM (240 mm ²)	750 MCM (400 mm ²)



BATTERY POWERED CABLE CUTTERS

- Cuts in 22 seconds - jaws flip open quickly to save time between cuts
- Approximately 120 cuts per battery charge
- Jaws specially hardened and precision ground to hold sharpness
- Lightweight and easy to use pistol grip provides excellent control and balance
- Cutting head rotates 330° for cutting cables in tight locations
- Includes one hour battery charger - carrying case - two batteries
- Choice of 120 volt, 230 volt or 12 volt battery charger



CAT. NO.	DESCRIPTION
ESG50GL11	120 Volt Charger
ESG50GL22	230 Volt Charger
ESG50GL12	12 Volt Charger



ELECTRICIAN'S TOOL KITS



0159-11

MASTER ELECTRICIAN'S 28 PIECE TOOL KIT



KIT INCLUDES:

- 18" Heavy-Duty Multi-pocket Bag
- Heavy-Duty 8-Pocket Leather Pouch
- 2" Leather Tool Belt
- 9" Side-cutting Pliers
- 8" Diagonal Cutting Pliers
- 8" Long Nose Pliers
- 10' Pump Pliers
- Pro Plus Wire Stripper 10-18AWG
- NM Cable Ripper
- Stripping/Crimping Combination Tool
- Cable Cutter
- Utility Knife
- 12" Hacksaw
- Keystone Tip Square Shank 1/4" x 4" Flat Blade Screwdriver
- Keystone Tip Square Shank 5/16" x 6" Flat Blade Screwdriver
- Cabinet Tip Round Shank 3/16" x 6" Flat Blade Screwdriver
- Cabinet Tip Round Shank 1/4" x 6" Flat Blade Screwdriver
- Phillips Tip #1 - 3/16" x 3" Screwdriver
- Phillips Tip #2 - 1/4" x 4" Screwdriver
- Screw-holding Screwdriver 3/16" x 6"
- 3" Scratch Awl
- 10" Adjustable Wrench
- 9-Piece Folding Hex-Key Set
- 25' Tape Measure
- Torpedo Level
- 18 oz. Electrician's Hammer
- High Dexterity Gloves(L)
- GT-11 Voltage Tester

KIT WEIGHT: 19.7 LBS

0159-12

JOURNEYMAN'S 17 PIECE TOOL KIT



KIT INCLUDES:

- 20-Pocket Tool Caddy
- GT-11 Voltage Tester
- Torpedo Level
- 18 oz. Electrician's Hammer
- 25' Tape Measure
- Keystone Tip Square Shank 1/4" x 4" Flat Blade Screwdriver
- Cabinet Tip Round Shank 3/16" x 3" Flat Blade Screwdriver
- Phillips Tip #1 - 3/16" x 3" Screwdriver
- Phillips Tip #2 - 1/4" x 4" Screwdriver
- 9' Side-Cutting Pliers
- 8' Diagonal Cutting Pliers
- 8' Long Nose Pliers
- 10' Pump Pliers
- Pro Plus Wire Stripper 10-18 AWG
- NM Cable Ripper
- Stripping/Crimping Combination Tool
- Cable Cutter

KIT WEIGHT: 9.7 LBS

**In Stock and
Ready for Delivery
Direct to Your Jobsite**



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WIRE HANDLING EQUIPMENT



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909 WIRE DISPENSER

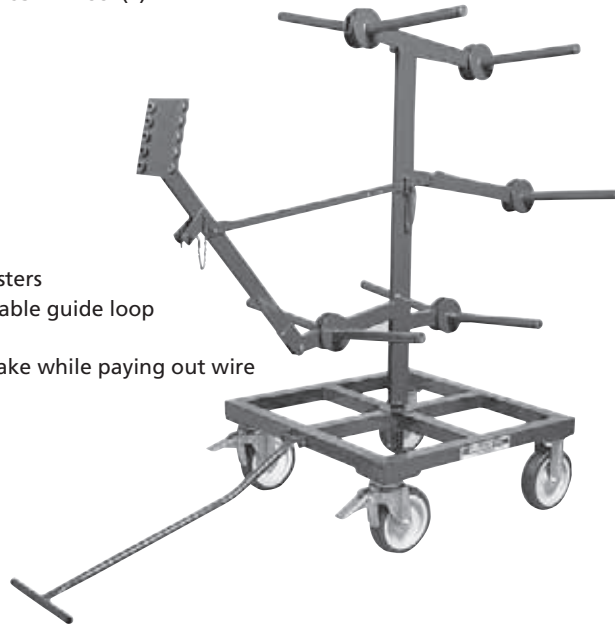
- All steel welded frame with 6 reel spindles and feeding eye
- Angled spindles keep reels in place without locks and help brake the reel while paying out
- Mobile - 2 fixed wheels and one that swivels and locks - allow easy movement and control
- Fits through a 30" (76.2mm) opening

DIMENSIONS: 39"L x 30"W x 31"H
CAPACITY: Six 2,500' spools up to 18" in diameter
WEIGHT: 93 lbs.
ACCESSORIES: 52284 - Swivel Caster (1)
 52285 - Wheel (2)

910 WIRE DISPENSER

- All welded steel construction
- Base has 2 fixed and 2 swivel locking heavy duty casters
- The spool rack consists of 10 spindles and an adjustable guide loop and can be turned 360° independent of the base
- Spindles are angled to contain reels and act as a brake while paying out wire
- Fits through a 36" (915mm) opening

DIMENSIONS: 36-1/4"L x 31-1/2"W x 59"H
CAPACITY: Ten 2,500' spools up to 18" in diameter
WEIGHT: 213 lbs.



911 WIRE CART

- Large capacity - excellent for storing - transporting or feeding wire
- Save space - use and store vertically or horizontally
- 5 strong reel axles with spring clip retainers plus 2 positions for axle storage allow you to configure for large reels with no loose parts
- Strong tubular steel welded construction with rugged 8" wheels
- Built in wire guide for horizontal dispensing
- Will pass through a 28" (71.12mm) opening

54-1/2"L x 27"W x 26-1/2"H
CAPACITY: Six 2,500' spools up to 16" in dia. Six 500' spools up to 8" in diameter
WEIGHT: 62 lbs.
ACCESSORIES: 31523 - Reel Shaft (5)
 50303 - Hitch Clip (10)



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WIRE AND PIPE HANDLING EQUIPMENT



914 WIRE REEL SUPPORT FRAME

- Consists of one frame with 2 wheels only; 2 or more 914's and a spindle made of 1" rigid conduit are required to make a reel support set-up
- Easy to set up - insert spindle in one 914 support frame, tighten locking screw, slide reels on spindle, insert spindle in second 914 support frame, tighten thumb screw and you're ready to go
- Casters swivel and lock for ease of use

668 CONDUIT AND PIPE STORAGE RACK

- 7 individual bins allow you to sort by size and type
- Made of structural square tubing
- Folds down for storage.

CAPACITY: 1000 LBS.

WEIGHT: 100 LBS.

DIMENSIONS: 58" H X 58-1/2" L X 34" W

FOLDED DOWN: 15-1/2" H X 61" L X 34" W

CAT. NO. DESCRIPTION

- | | |
|-----|--|
| 503 | 6" Diameter Caster Set, 4 Swivel |
| 603 | 6" Diameter Caster Set, 2 Swivel and 2 Rigid |



36745 PIPE CART

- Easy one-person operations saves time and money
- Move standard 20 ft. lengths of pipe
- Large 4.80" x 8" wheels with 4-ply pneumatic tires and precision roller bearings for easy rolling
- Heavy-duty steel construction
- 20" Diameter - 1000 lbs. capacity

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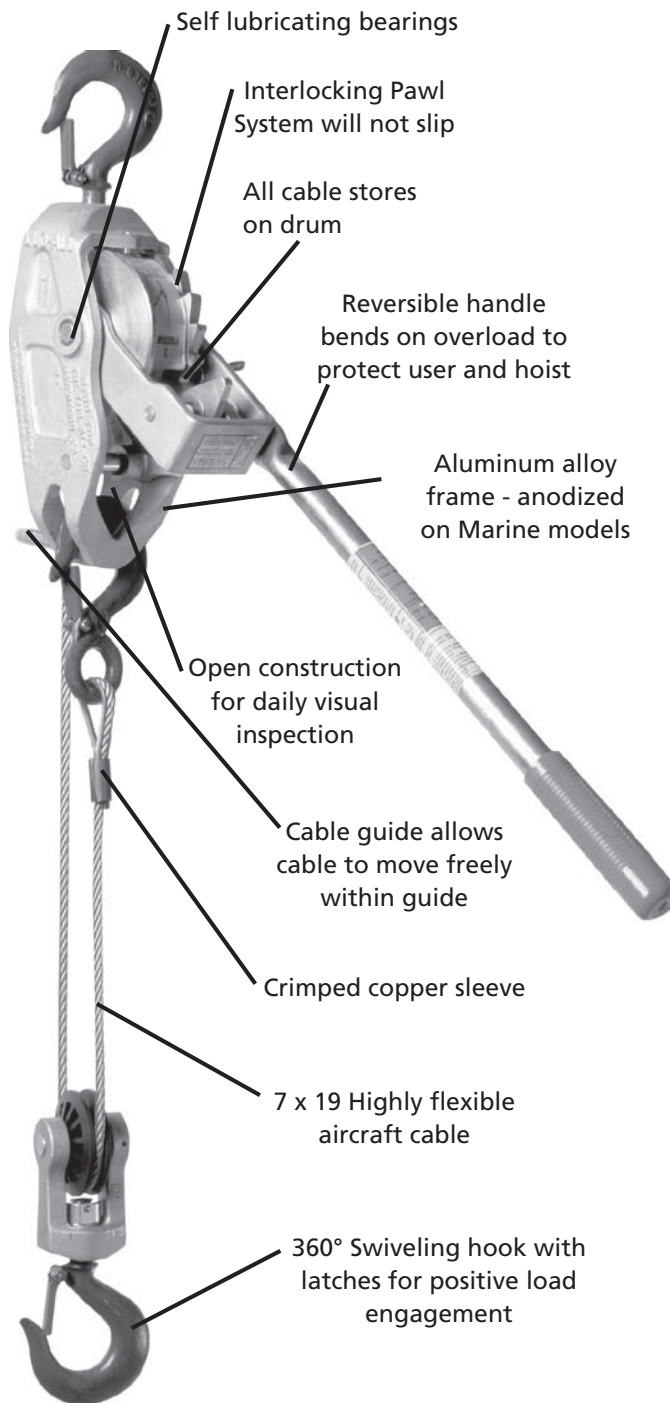


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CABLE RATCHET WINCH-HOISTS

LUG-ALL®

Highest quality is designed from the beginning...
industrial-quality products for all applications.



INNOVATIVE DESIGN

- **Aluminum alloy frame.**
- **Exclusive drum anchor** - swaged ball shank terminal locks cable securely in drum and allows for full extension of cable. (Other brands use two set screws and 2-3 wraps of cable to hold cable to drum.)
- Cable end has **hydraulically crimped copper sleeve.**
- **Proprietary reversible handle** - always a downward pull, switches positions in seconds.
- **Self-storing aircraft cable.** No chains hanging in the way or dragging on the ground.
- **Optional marine-grade models** - developed specifically for marine or other corrosive conditions, have anodized castings, stainless steel cables, and cadmium plated steel shafts.
- **Drop forged steel hooks.**

RELIABLE OPERATION

- Factory tested to 125% of rated capacity.
- Average of 20% to 50% overload, handles bend to alert operator to stop immediately.
- Reversible handle is designed to bend on severe overload to protect user and the hoist. Replace the handle not the winch-hoist. Call to order replacement handle.
- 6000 Model - the shear pin design on two position telescoping handle warns of overload.
- Quick Release - will not function when the cable is under load.
- The handle can be removed to prevent tampering with the hoist or load.
- One year guarantee against defects in workmanship and/or materials.

Exclusive swaged
ball shank terminal





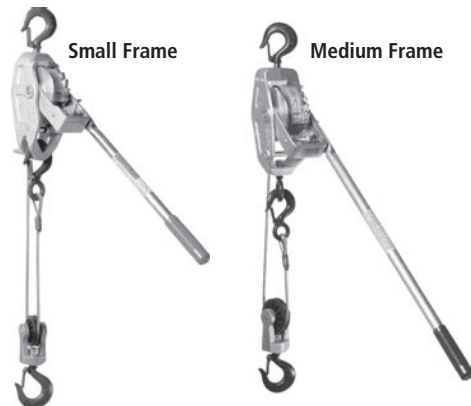
CABLE RATCHET WINCH-HOISTS



SMALL FRAME 1/2 TO 1-1/2 TON CAPACITY

MEDIUM FRAME 1-1/8 TO 2 TON CAPACITY

- Rapid lowering permits release four times faster. Look for "R" on chart after model number.
- Cable return crank attaches directly to drum shaft for slack cable take up.
- Marine Grade aluminum parts are anodized, steel shafts are cadmium plated. Stainless steel cables. Add suffix "M" to model number.
- Four hook options add to hoist flexibility.



SMALL FRAME		DOUBLE LINE CAPACITY				SINGLE LINE CAPACITY						
CAPACITY	MODEL #	CAPACITY IN LBS/METRIC	HANDLE PULL FOR FULL LOADS (LBS.)	LIFTING DISTANCE	MIN. DISTANCE BETWEEN HOOKS	CAPACITY IN LBS/METRIC	HANDLE PULL FOR FULL LOADS (LBS.)	LIFTING DISTANCE	MIN. DISTANCE BETWEEN HOOKS	CABLE DIAMETER	CABLE LENGTH	TOTAL WEIGHT (LBS.)
1/2 TON	1000-15*	-	-	-	-	1000/455	77	15'	16"	3/16"	16'	7
1/2 TON	115-R*	-	-	-	-	1000/455	77	15'	16"	3/16"	16'	7
3/4 TON	1500-25	1500/682	67	12-1/2'	21"	750/341	65	25'	16"	5/32"	26'	8-1/2
3/4 TON	125-R	1500/682	67	12-1/2'	21"	750/341	65	25'	16"	5/32"	26'	8-1/2
1-1/8 TON	2250-15	2250/1022	86	7-1/2'	21"	1125/511	83	15'	16"	3/16"	16'	8-3/4
1-1/8 TON	215-R	2250/1022	86	7-1/2'	21"	1125/511	83	15'	16"	3/16"	16'	8-3/4
1-1/8 TON	2250-20	2250/1022	86	10'	21"	1125/511	83	20'	16"	3/16"	21'	9-1/4
1-1/2 TON	3000-10	3000/1363	100	5'	21"	1500/632	97	10'	16"	7/32"	11'-6"	9
1-1/2 TON	310-R	3000/1363	100	5'	21"	1500/632	97	10'	16"	7/32"	11'-6"	9

MEDIUM FRAME		DOUBLE LINE CAPACITY				SINGLE LINE CAPACITY						
CAPACITY	MODEL #	CAPACITY IN LBS/METRIC	HANDLE PULL FOR FULL LOADS (LBS.)	LIFTING DISTANCE	MIN. DISTANCE BETWEEN HOOKS	CAPACITY IN LBS/METRIC	HANDLE PULL FOR FULL LOADS (LBS.)	LIFTING DISTANCE	MIN. DISTANCE BETWEEN HOOKS	CABLE DIAMETER	CABLE LENGTH	TOTAL WEIGHT (LBS.)
1-1/8 TON	2250-38	2250/1022	100	19'	23-1/2"	1125/511	83	38'	18"	3/16"	39'-6"	13-3/4
1-1/8 TON	238-R	2250/1022	100	19'	23-1/2"	1125/511	83	38'	18"	3/16"	39'-6"	13-3/4
1-1/2 TON	3000-30	3000/1364	100	15'	23-1/2"	1500/1022	97	30'	18"	7/32"	31'-6"	13-3/4
1-1/2 TON	330-R	3000/1364	100	15'	23-1/2"	1500/1022	97	30'	18"	7/32"	31'-6"	13-3/4
2 TON	4000-20	4000/1818	115	10'	26-1/2"	2000/909	110	20'	18-1/2"	1/4"	22'	15-1/2
2 TON	420-R	4000/1818	115	10'	26-1/2"	2000/909	110	20'	18-1/2"	1/4"	22'	15-1/2

MEDIUM LARGE FRAME 3 TON CAPACITY

- **REVERSIBLE TELESCOPING HANDLE** provides better leverage for bigger loads. Permits pulling from standing position. Expands from 37-1/2" to 57" in seconds.
- **TWO POSITION HANDLE SOCKET** adjusts for additional leverage. Lifting and pulling, and most lowering or backing-off operations can be accomplished with the socket in the standard position. For additional leverage in lowering or backing-off heavy load, the handle socket can be moved to the second position.
- **Easily replaceable SHEAR PIN** in handle assembly breaks with audible noise to warn of serious overload. Hoist remains operational so load can be reduced.



MEDIUM LARGE FRAME		DOUBLE LINE CAPACITY				SINGLE LINE CAPACITY						
CAPACITY	MODEL #	CAPACITY IN LBS/METRIC	HANDLE PULL FOR FULL LOADS (LBS.)	LIFTING DISTANCE	MIN. DISTANCE BETWEEN HOOKS	CAPACITY IN LBS/METRIC	HANDLE PULL FOR FULL LOADS (LBS.)	LIFTING DISTANCE	MIN. DISTANCE BETWEEN HOOKS	CABLE DIAMETER	CABLE LENGTH	TOTAL WEIGHT (LBS.)
3 TON	6000-15	6000/2728	110	7-1/2'	34"	3000/1364	105	15'	26-1/2"	5/16"	18'	34



HAND CHAIN HOISTS



Milwaukee Hand Chain Hoists are equipped with hardened load chain for flexibility and long wear. With 1/2 to 5 Ton capacity and 8 ft. to 20 ft. lift, Milwaukee has a Hand Chain Hoist for any job.



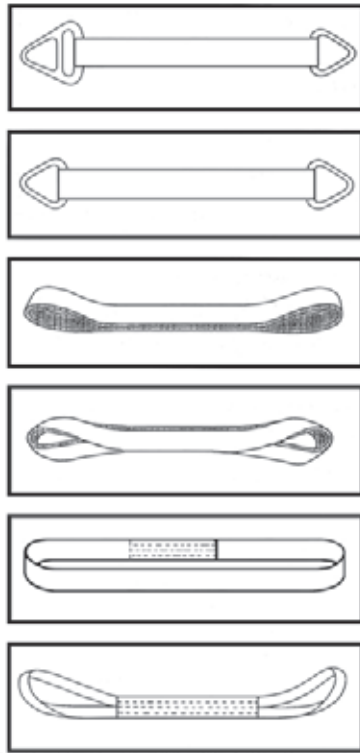
Cat. No.	Description	Std. Lift (ft.)	Rated Load* (lbs.)	Feet of Chain**
9668-20	1/2 Ton Chain Hoist	8	53	29
9669-20	1/2 Ton Chain Hoist	15	53	29
9670-20	1 Ton Chain Hoist	20	53	29
9671-20	1 Ton Chain Hoist	8	77	37
9672-20	1 Ton Chain Hoist	15	77	37
9673-20	1 Ton Chain Hoist	20	77	37
9674-20	2 Ton Chain Hoist	25	77	37
9675-20	2 Ton Chain Hoist	15	82	80
9676-20	2 Ton Chain Hoist	20	82	80
9677-20	3 Ton Chain Hoist	8	65	154
9678-20	3 Ton Chain Hoist	15	65	154
9679-20	3 Ton Chain Hoist	20	65	154
9680-20	5 Ton Chain Hoist	8	105	147
9681-20	5 Ton Chain Hoist	20	105	107

*Chain Pull to Lift Rated Load

**Feet of Chain Overhauled to Lift Load One Foot

NYLON WEB SLINGS

Basic Sling Types



TYPE 1 TC SLINGS

Slings with a triangle on one and with a slotted triangle (the choker) on the other side. Choice of lightweight aluminum or durable steel fittings.

TYPE 2 TT SLINGS

Slings with a triangle at both ends. Vertical and basket hitches only. Choice of lightweight aluminum or durable steel fittings.

TYPE 3 EE SLINGS

Slings both ends with an eye. Choice of straight or tapered eyes (tapered eye are standard $\geq 2"$ web-width).

TYPE 4 EE SLINGS

Same basic type as Type 3 but eyes are twisted to a right angle to the sling body. (Tapered eye are standard $\geq 2"$ web-width).

TYPE 5 EN SLINGS

Endless slings, sometimes also referred to as grommet slings. The most versatile sling.

TYPE 6 RE SLINGS

Return eye sling, also referred to as reversed eye sling. Sling body is formed by 2 parts of webbing sewn side by side using either a cordura tube or web in the finished width.



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NYLON WEB SLINGS



- Resistant to alkalis
- Untreated—Approximate 6% stretch, treated— Approximate 10% stretch at Rated Capacity
- Temperature limit is 180°F

SLING RATINGS BASED ON FITTINGS OF EQUAL OR GREATER CAPACITY.

TYPE 1 SLINGS
Choker & Basket Hitch
Triangle & Choker Fittings

TYPE 2 SLINGS
Basket & Vertical Hitches Only
Two Triangle Fittings

TYPE 3 & 4 SLINGS
Flat or Twisted Eyes
Vertical, Choker, Basket Hitches

TYPE 5 SLINGS
Vertical, Choker, Basket Hitches
Endless or Grommet Type

Web Width	Code Number	RATED CAPACITIES IN LBS.		
		Vertical	Choker	Basket
SINGLE PLY SLINGS				
2"	TC1-902	3,200	2,400	6,400
3"	TC1-903	4,800	3,600	9,600
4"	TC1-904	6,400	4,800	12,800
5"	TC1-905	8,000	6,000	16,000
6"	TC1-906	9,600	7,200	19,200
8"	TC1-908	12,800	9,600	25,600
10"	TC1-910	16,000	12,000	32,000
12"	TC1-912	19,200	14,400	38,400
TWO PLY SLINGS WITH STEEL HARDWARE				
2"	TC2-902	5,600	4,200	11,200
3"	TC2-903	8,400	6,300	16,800
4"	TC2-904	11,200	8,400	22,400
5"	TC2-905	14,000	10,500	28,000
6"	TC2-906	16,800	12,600	33,600
SINGLE PLY SLINGS				
2"	TT1-902	3,200		6,400
3"	TT1-903	4,800		9,600
4"	TT1-904	6,400		12,800
5"	TT1-905	8,000		16,000
6"	TT1-906	9,600		19,200
8"	TT1-908	12,800		25,600
10"	TT1-910	16,000		32,000
12"	TT1-912	19,200		38,400
TWO PLY SLINGS WITH STEEL HARDWARE				
2"	TT2-902	5,600		11,200
3"	TT2-903	8,400		16,800
4"	TT2-904	11,200		22,400
5"	TT2-905	14,000		28,000
6"	TT2-906	16,800		33,600
SINGLE PLY SLINGS				
1"	EE1-901	1,600	1,200	3,200
2"	EE1-902	3,200	2,400	6,400
3"	EE1-903	4,800	3,600	9,600
4"	EE1-904	6,400	4,800	12,800
5"	EE1-905	8,000	6,000	16,000
6"	EE1-906	9,600	7,200	19,200
TWO PLY SLINGS				
1"	EE2-901	3,200	2,400	6,400
2"	EE2-902	6,400	4,800	12,800
3"	EE2-903	8,600	6,500	17,200
4"	EE2-904	11,500	8,600	23,000
5"	EE2-905	13,600	10,200	27,200
6"	EE2-906	16,300	12,200	32,600
SINGLE PLY SLINGS				
1"	EN1-901	3,200	2,500	6,400
2"	EN1-902	6,400	5,000	12,800
3"	EN1-903	8,600	6,900	17,200
4"	EN1-904	11,500	9,200	23,000
5"	EN1-905	13,600	10,900	27,200
6"	EN1-906	16,300	13,000	32,600
TWO PLY SLINGS				
1"	EN2-901	6,100	4,900	12,200
2"	EN2-902	12,200	9,800	24,400
3"	EN2-903	16,300	13,000	32,600
4"	EN2-904	20,700	16,500	41,400
5"	EN2-905	24,500	19,600	49,000
6"	EN2-906	28,600	23,000	57,200

WARNING Sling can fail if damaged, misused or overloaded. Inspect before use. Damaged sling shall not be used. Use only if trained. Do not exceed rated capacity. Protect sling from being cut by load edges, corners, protrusions and abrasive surfaces. Avoid exposure to acid alkali, ultra violet light and temperature over 180°. DEATH or INJURY can occur from improper use or maintenance.



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PIPE AND MATERIAL LIFTS

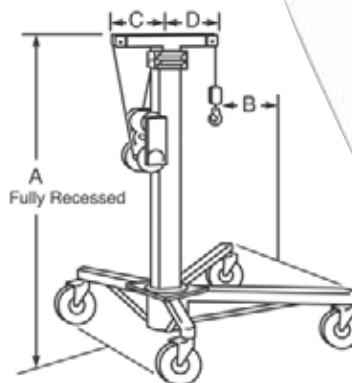
SUMNER®

ROUST-A-BOUT

The Lift That Turns One Man Into A Crew!

Roust-A-Bout enables one man to lift and place loads in tight locations that would be impossible with other lifts. The load can be moved vertically and horizontally at the same time. Wider loads (up to 1,000 lbs.) can be handled with the addition of Sumner's Tee Head Extension Bar.

- Lifts 1,500 pounds
- 15', 18' and 25' heights
- Moves vertically and horizontally
- Loads can be lowered below floor level
- Separate load and mast winches
- 2-speed winch
- Infinite load adjustment
- Highly durable powder coated finish
- Mast and base separate quickly for EASY transport



PART NO.	DESCRIPTION	WEIGHT	A	B	C/D	BASE
780300	R-100 Roust-A-Bout 15' Top Height	311 lbs.	79"	20"	12"	32" x 40"
780301	R-150 Roust-A-Bout 15' Top Height	311 lbs.	79"	20"	12"	40" x 40"
780302	R-180 Roust-A-Bout 18' Top Height	337 lbs.	126"	25"	14.5"	50" x 50"
780303	R-250 Roust-A-Bout 25' Top Height	381 lbs.	119"	30"	17.5"	60" x 60"

SERIES 2100 CONTRACTOR LIFTS

Great all around Contractor Lift!

This compact lift offers stronger mast design and a superior cabling system. The shorter mast sections allow the 2000 to travel through doorways without tipping and to fit nicely into vehicles with small storage space.

SERIES 2100

CONTRACTOR LIFTS



- 12', 18' & 24' heights
- 650 lb. capacity - reversible forks
- Rolls through standard doorways & tail gates
- Stabilizer legs mounted on base top easily fold down and lock in place
- Plunger pins for quick readjustment and compact storage
- No tools needed with no loose parts and variety of attachments
- Large 7/32" load cable feeds inside mast and not exposed near operator's face
- Lockable, 5" polyurethane casters
- Stowed Measurements: 84"(H) x 34"(L)

PART NO.	DESCRIPTION	MAX HEIGHT	LIFTING CAPACITY	LIFT WEIGHT	SHIPPING WEIGHT
783650	2112 Contractor Lift	13'-1"	650 lbs.	252 lbs.	287 lbs.
783651	2118 Contractor Lift	18'-6"	650 lbs.	321 lbs.	356 lbs.
783652	2124 Contractor Lift	23'-11"	650 lbs.	366 lbs.	399 lbs.



PIPE AND MATERIAL JACKS



781400 MAX JAX

In the shop or on the job, moving long lengths of pipe is a snap with Max Jax!

- Sturdy 4 leg construction supports 2500 lbs.
- Large 12" vee handles max. 40" pipe and min. 4" pipe
- Large, convenient adjustment handle
- Optional casters enable pipe to be easily wheeled around in the shop or on the job
- Several optional large vee head styles
- Jack independently load tested for quality assurance, CE rated
- Backed by over 30 years of jack stand manufacturing experience

Shown with optional features:
8" casters, roller head kit and hold down devise



780260 BASIC BIG VEE

Built tough for the demands of larger pipes!

- A heavy-duty 3-leg stand supports 2500 lbs.
- Large 12" vee handles max. 40" pipe and min. 4" pipe
- Fast action adjustment handle
- 1-3/4" Acme adjustment screw
- Heavy duty 1" square leg tubing, Wider base
- Several optional large vee head styles

*Just ask your
Newman Representative
for the best combination
of jacks suited to your
various applications.*

FOLD-A JACK

Folds up for storage ease!

- 1" square tube base construction
- 2,500 lb. capacity - CE rated
- Quick action lockwasher for fast height positioning
- Patented Fall Guard™ feature allows 1" safety zone around lockwasher
- 1-1/2" Acme fine adjustment thread
- Set screw for double margin of safety



Part No.	Description	Weight
781300	ST-881 w/Vee-Head	25 lbs.
781301	ST-882 w/Roller Head	28 lbs.
781302	ST-883 w/Bar Stock Head	23 lbs.
781303	ST-884 w/Stainless Steel Rollers	28 lbs.
781304	ST-885 w/Stainless Steel Vee-Head	26 lbs.
781305	ST-886 w/Ball Transfer Head	32 lbs.
781306	ST-887 w/Rubber Wheels	27 lbs.

PRO JACK

Most Economical Sumner Jack Stand

- Formed steel legs with strut tension plate for superior lateral support
- 2,000 lb. capacity - CE rated
- Quick action lockwasher for fast height positioning
- Patented Fall Guard™ feature allows 1" safety zone around lockwasher
- 1-1/2" Acme fine adjustment thread
- Set screw for double margin of safety



Part No.	Description	Weight
780471	ST-871 w/Vee-Head	22 lbs.
780472	ST-872 w/Roller Head	25 lbs.
780473	ST-873 w/Bar Stock Head	17 lbs.
780474	ST-874 w/Stainless Steel Rollers	25 lbs.
780475	ST-875 w/Stainless Steel Vee-Head	23 lbs.
780476	ST-876 w/Ball Transfer Head	28 lbs.
780477	ST-877 w/Rubber Wheels	24 lbs.



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PIPE AND MATERIAL CARTS

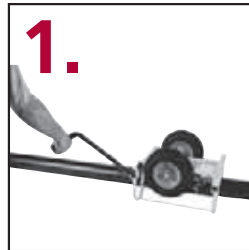
SUMNER



782699 CRICKET

More than a Pipe Buggy!

- Transport 20 ft. pipe lengths up to 1,000 lbs.
- Ideal job-site material carrier
- Comes with ratchet hold-down strap and 16" tubed tires
- Weighs only 70 Lbs.
- Quick handle disconnect for compact storage



1.
Use ratchet to secure Cricket to pipe



2.
Use handle to flip Cricket & pipe



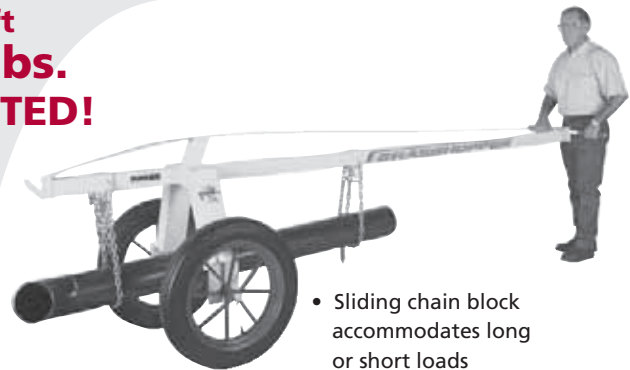
3.
Reposition handle

780351 ST-401 GRASSHOPPER TEXAS PIPE DOLLY

**one man
can lift
2,000 lbs.
UNASSISTED!**



- Special sliding chain block design accommodates long and short loads
- Carries up to 20" diameter pipe, tool boxes, fittings and valves
- Fits through 35" openings, is 12' long and only 155 lbs.



- Sliding chain block accommodates long or short loads
- Rugged high pressure tires and wheels allow for construction site mobility
- Chains can be used to lock wheels for security



**Our
Prompt Processing
will have YOUR order
on its way ...FAST!**



ROLL STANDS



ADJUST-A-ROLL

Level...Layout...Fit-Up...Tack...Roll Out...All In One Step!

- 1/2" to 48" or 2,000 lb. pipe capacity
- Roller adjustment from either side
- Fast adjustment for easy pipe positioning
- Clean and simple design avoids welder interference
- Wheels trued for true pipe rotation
- Bronze bearing to eliminate arcing
- Brake to lock loads for lay-out or fit-up
- Handle large enough to work with gloved hand
- Quick Change design increases roller stand utility



HI ADJUST-A-ROLL

Part No.	Description	Weight
780365	ST-601 with steel wheels	34 lbs.
780366	ST-602 with ball transfer heads	33 lbs.
780367	ST-603 with rubber wheels	33 lbs.
780368	ST-604 with stainless steel wheels	33 lbs.
780369	ST-605 with bar stock head	40 lbs.
780399	Hi Adjust-A-Roll [base only]	24 lbs.

LO ADJUST-A-ROLL

Part No.	Description	Weight
780370	ST-701 with steel wheels	29 lbs.
780371	ST-702 with ball transfer heads	31 lbs.
780372	ST-703 with rubber wheels	31 lbs.
780373	ST-704 with stainless steel wheels	31 lbs.
780359	ST-705 with bar stock head	38 lbs.
780405	Lo Adjust-A-Roll [base only]	12 lbs.

TABLE ADJUST-A-ROLL

Part No.	Description	Weight
780360	ST-501 with steel wheels	20 lbs.
780361	ST-502 with ball transfer heads	18 lbs.
780362	ST-503 with rubber wheels	19 lbs.
780363	ST-504 with stainless steel wheels	20 lbs.
780364	ST-505 with bar stock head	26 lbs.
780500	Table Adjust-A-Roll [base only]	12 lbs.

PIPE SUPPORTS

CHANNEL

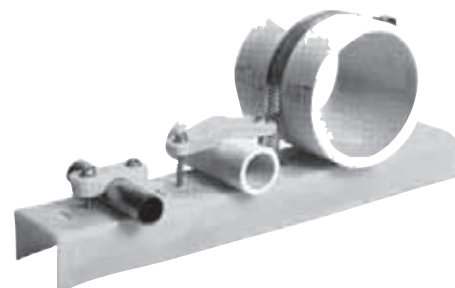
Channel comes in 7-foot lengths and is sized to fit over the strut as an isolator. The Channel fits as well over the Stakfix to be used as an extension; or with two Stakfix mounted opposite each other it can be used as a bridge. It may be fastened to cement walls to support pipe running either vertically or horizontally, or it can be fastened to studs for supporting shower head piping or other applications. It can be used as well as a strut for supporting small diameter overhead piping.

A-507 Polystyrene (yellow in color)

Channel is 1-1/8" x 2" x 7" and comes with holes and slots for use with the P-552 stainless steel band and/or the 1/2"-3/4" or 1" to 1-1/2" clamps.

Load Capacity:

- Load applied to centerline 230 lb.
- Load applied at 4" center 385 lb.
- Load applied at 8" center 1062 lb.





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PIPE SUPPORTS

SUMNER[®]

POSIFIX

The Posifix is the smallest support particularly designed to fit between studs. Its application is to align and support hot and cold lines with waste piping in a lavatory or sink rough-in. The Posifix is pre-slotted to hold 1/2" or 3/4" supply pipe 4", 6" or 8" apart. The unit mounts on 1" through 1-1/2" waste pipe for perfect alignment.

A-501 Polystyrene (yellow in color)

Includes two 1/2" to 3/4" clamps, on 1" to 1-1/2" clamp and attaching screws.

Load Capacity:

- 4" Pipe Centers 410 lb.
- 6" Pipe Centers 325 lb.
- 8" Pipe Centers 260 lb.

A-601 ABS (orange in color)

Includes two 1/2" to 3/4" clamps, on 1" to 1-1/2" clamp and attaching screws.

Load Capacity:

- 4" Pipe Centers 410 lb.
- 6" Pipe Centers 325 lb.
- 8" Pipe Centers 260 lb.



PIPEFIX

Similar to Posifix, the Pipefix can be used in lavatory rough-ins. The Pipefix application is similar to the Posifix in that it holds and aligns 1/2" and 3/4" supply lines with waste pipe, particularly in tight applications. Only 3-1/2" of wall clearance is required to mount the Pipefix. The support is pre-slotted to hold supply piping 4", 6", or 8" apart. The Pipefix attaches to 1-3/8" through 6-5/8" O.D. vent or waste piping by means of a stainless steel band.

STANDARD PACKAGE

A-503 Polystyrene (yellow in color)

A-603 ABS (orange in color)

Includes on 7" Quick-Lok stainless steel band, two 1/2" to 3/4" clamps and attaching screws.

Load Capacity:

- 4" Centers 782 lb.
- 6" Centers 185 lb.
- 8" Centers 145 lb.

ECONOMY PACKAGE

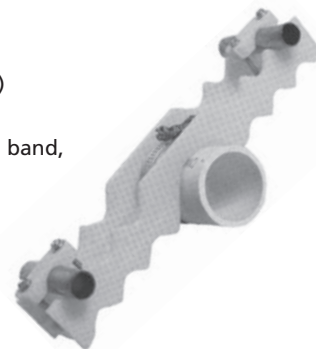
A-503 Polystyrene (yellow in color)

A-603 ABS (orange in color)

Includes one 5" continuous feed stainless steel band, two 1/2" to 3/4" clamps and attaching screws.

Load Capacity:

- 4" Centers 782 lb.
- 6" Centers 185 lb.
- 8" Centers 145 lb.



STAKFIX

The Stakfix is used strictly inside of the chase and attaches to 1-3/8" - 6-5/8" O.D. pipe vents or stacks by means of a stainless steel band similar to the Pipefix. The Stakfix has three mounting surfaces for supporting for supporting a combination of piping up to 1-1/2", running vertically and/or horizontally. The Stakfix also can be strapped onto metal struts or nailed to wood. Two to three-inch pipe can be supported on the Stakfix by using the U-bolts The P-551 U-bolt is copper plated to prevent electrolysis. Smaller pipe can be mounted on the Stakfix, as well as using both styles of clamps.

QUICK-LOK BAND

A-502 Polystyrene (yellow in color)

A-602 ABS (orange in color)

Includes one 7" Quick-Lok stainless steel band, three 1 to 1-1/2" clamps, attaching screws and P-556 clips.

Load Capacity:

- Outer End Point 125 lb.
- Center Point 202 lb.
- Innermost Point 357 lb.

ECONOMY PACKAGE

A-502 Polystyrene (yellow in color)

A-602 ABS (orange in color)

Includes one 5" continuous feed stainless steel band, three 1 to 1-1/2" clamps, attaching screws and P-556 clips.

Load Capacity:

- Outer End Point 125 lb.
- Center Point 202 lb.
- Innermost Point 357 lb.





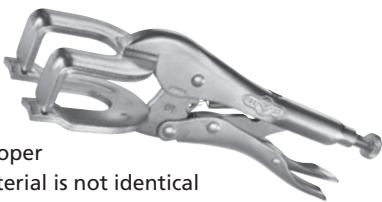
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THE ORIGINAL™ LOCKING PLIERS & TOOLS

IRWIN VISE-GRIP® Industrial Tools

LOCKING WELDING CLAMP

This clamp holds parts in proper alignment – even when material is not identical in thickness. Positive lock leaves hands free. Special deep-throated U-shaped jaws provide perfect visibility and working space.



CAT. NO.	LENGTH	JAW CAPACITY	THROAT DEPTH
9R	8"	1 5/8"	1 3/4"

LOCKING CHAIN CLAMP

Holds and locks around any size or shape—anything the chain can be wrapped around. Adjusts to ratchet action in either direction. Won't slip, won't crush thin-walled pipe. Replacement and extension chain available.



CAT. NO.	DESCRIPTION
20R	Locking Chain Clamp
20 Ext	18" Extension Chain
20 Rep	18" Replacement Chain

SHEET METAL TOOL

For bending, forming and crimping sheet metal. Locks to your work with a powerful no-slop grip. Micro-adjusting screw and easy release trigger are standard features.



CAT. NO.	LENGTH	JAW WIDTH	THROAT DEPTH
8R	8"	3-1/8"	1-3/4"

LONG NOSE LOCKING PLIER

The tapered nose is ideal for delicate work, hobbies, tight spaces, electronics and holding of small parts. The easy-release trigger snaps jaws open instantly for the next application. A quick adjust screw makes fine tuning easier and quicker. Available in 6" and 9" lengths.



CAT. NO.	LENGTH	JAW THICK	JAW CAPACITY
6LN	6"	5/32" Tip	2
9LN	9"	3/16" Tip	2-3/4"

CURVED JAW LOCKING PLIERS WITH WIRE CUTTER

Wire cutter will handle anything up to a 1/4" bolt. One bite will cut smaller wires and progressive bites cut through the big wires. The tool is heat-treated for maximum toughness and durability. A simple hand squeeze can put one ton of pressure between jaws assuring you of a hold tight, won't slip grip. A quick-adjust speed screw lets you fine tune your adjustment with only one hand. Available in 7" and 10" lengths. Also available without wire cutter (Models 7CR & 10CR).



CAT. NO.	LENGTH	JAW THICK	JAW ADJUST.
7WR	7"	5/16"	1-1/2"
10WR	10"	7/16"	1-7/8"
7CR	7"	5/16"	1-1/2"
10CR	10"	7/16"	1-7/8"

STRAIGHT JAW LOCKING PLIERS

Made of high grade heat treated alloy steel with heavy-duty jaws that grip work of all shapes. The tool locks to the work leaving both hands free. Powerful jaws and teeth hold on tight and won't slip. Available in 7" and 10" lengths.



CAT. NO.	LENGTH	JAW THICK	JAW CCAPACITY
7R	7"	1/2"	1-5/16"
10R	10"	5/8"	1-3/4"

LOCKING C-CLAMP

Micro-adjustment for quick pre-adjusting and repeat clamping. Jaws open wide for versatility. A powerful locking mechanism guarantees no slippage. Locks work with one hand squeeze and have an easy-release trigger. Indispensable tool for welding sheet metal or woodworking. Your choice of regular (R) or swivel pad (SP) tips.



CAT. NO.	LENGTH	JAW ADJ.	THROAT HEIGHT	THROAT DEPTH
6R	6"	2-1/8"	2-1/4"	1-1/6"
11R	11"	4"	3-3/4"	2-5/8"
18R	18"	8"	4-1/2"	9-1/2"
24R	24"	10"	4-1/2"	1-51/16"
6SP	6"	2-1/8"	2-1/4"	1-1/2"
11SP	11"	4"	3-3/4"	2-5/8"
18SP	18"	8"	4-1/2"	9-1/2"
24SP	24"	12-1/2"	4-1/2"	1-51/2"

SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA



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CUTTING PLIERS

Hand honed, perfectly mated cutters scientifically heat treated to hold their edge. Precision made of fine polished forged steel. CHANNELLOCK BLUE™ dipped plastic comfort grips.

**908**

Wiring Tool for stripping AWG wire sizes 10, 12, 14, 16, 18, 20 and 22. Length 8.5"

**351S**

Linemen's Pliers. Coiled Spring with "dog leg" handle for leverage when twisting wire. Length 9"

**337**

Lap Joint - Length 7"

338

Lap Joint - Length 8"

**356**

End Cutter - Length 6"

357

End Cutter - Length 7"

358

End Cutter - Length 8"

**435**

Box Joint
Length 5"

**148-10**

End Nippers
Length 10"

**437**

Box Joint
Length 7"

**447**

Box Joint
Curved Diagonal
Length 7-3/4"

LINEMEN'S PLIERS

Heavy duty, precision made of special grade drop forged steel. Perfectly mated cutters are hand honed, properly hardened to hold their edge. CHANNELLOCK BLUE™ dipped plastic comfort grips.

**347**

Rounded Nose
Length 7"

348

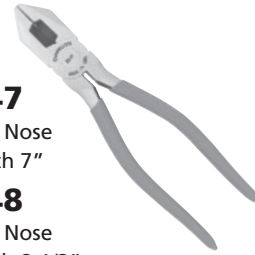
Rounded Nose Length 8"

**349**

Wiremaster high leverage plier. Enclosed-joint design hold cutters in perfect alignment for life of plier. Length 9"

**369**

High Leverage
Rounded Nose
Length 9"

**3047**

Bevel Nose
Length 7"

3048

Bevel Nose
Length 8-1/2"

SLIP JOINT PLIERS

Made of fine polished drop forged steel. PermaLock fasteners. CHANNELLOCK BLUE™ dipped plastic comfort grips.

**526**

Wire Cutting Shear
Length 6"



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TONGUE AND GROOVE PLIERS



Smooth working, and machined undercut mating parts. Patented reinforcing edge along the channels provides added strength, eliminates stress concentration at channels and minimizes breakage.



415
Smooth jaw
Adjustments 7
Length 10"
Capacity 2"



420
Adjustments 5
Length 9-1/2"
Capacity 1-1/2"



422
Adjustments 5
Length 9-1/2"
Capacity 1-1/2"



424
Adjustments 3
Length 4-1/2"
Capacity 1/2"



426
Adjustments 5
Length 6-1/2"
Capacity 7/8"



430
Adjustments 7
Length 10"
Capacity 2"



440
Adjustments 7
Length 12"
Capacity 2-1/4"



442
Adjustments 7
Length 12"
Capacity 2-1/4"



460
Adjustments 8
Length 16"
Capacity 4-1/4"

~ NOT LISTED ~
CALL US
IT MAY BE
IN STOCK
OR WE CAN
ORDER IT
FOR YOU

LONG NOSE PLIERS

Slender, perfectly mated jaws with no side wobble provide a firm grip on fine work in tight places. Sharp, hand honed side cutter on some styles. Beautiful, high polished finish. CHANNELLOCK BLUE™ dipped plastic comfort grips.



317
Side Cutter
Length 7-1/2"



318
Side Cutter
Length 8-3/8"



3017
No Side Cutter
Length 7-1/2"



3026
No Side Cutter
Length 6"

ADJUSTABLE WRENCHES

Made of durable chrome vanadium steel with longer, thinner jaws accommodate bigger nuts and bolts, and easier access to confined areas. Feature measurement scales in both standard and metric for easy sizing and Code Blue® grips for ultimate comfort on the job.



806WCB
Length 6"

808WCB
Length 8"

810WCB
Length 10"

812WCB
Length 12"

NEWMAN ASSOCIATES

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3/8" DRIVE SOCKETS, RATCHETS & ACCESSORIES

ARMSTRONG **GALLEN**

3/8" DRIVE ACCESSORIES

RATCHET

Number	Description
10900	1/4" Dr. Quick Release Ratchet
11900	3/8" Dr. Quick Release Ratchet
11922	3/8" Dr. Flex Head Quick Release Ratchet



FLEX HANDLE

Number	Description
11920	3/8" Dr. Flex Handle



EXTENSIONS

Number	Description
11905	3/8" Dr. 3" Extension
11910	3/8" Dr. 6" Extension
11912	3/8" Dr. 10" Extension
11915	3/8" Dr. 20" Extension



ADAPTER

Number	Description
11925	3/8" F - 1/2" M Adapter
11927	3/8" F - 1/4" M Adapter



UNIVERSAL JOINT

Number	Description
11930	3/8" Dr. Universal Joint

3/8" DRIVE ADJUSTABLE RATCHET HEAD MICROMETER TORQUE WRENCHES



- Accuracy of +/-3% Clockwise (20-100% of Full Range)
- Head Design Specifically for Torque Wrenches
- 10° ratcheting angle permits use in confined areas
- Detent-style locking collar for ease in setting desired torque and preventing the accidental change of settings

Product Number	PRIMARY SCALE		ALTERNATE SCALE		
	Range	Incr.	Range	Incr.	Length
64-041	50-250 in/lb	1 in/lb	6-29 Nm	0.11Nm	9.5"
64-042	100-1000 in/lb	5 in/lb	14-116 Nm	0.6 Nm	17.1"
64-046	10-100 ft/lb	0.5 ft/lb	17-139 Nm	0.7 Nm	17.1"
64-049	100-100 Nm	1Nm	-	-	17.1"

3/8" DRIVE SOCKETS

6 PT. - STANDARD SOCKETS

Item Number	Size (Inch)	Dimensions			Weight (lbs)
		A	B	C	
11004	1/4	.945	.662	.390	.03
11006	5/16	.945	.662	.460	.06
11008	3/8	.945	.664	.568	.06
11009	7/16	.945	.661	.661	.06
11010	1/2	.975	.703	.703	.06
11011	9/16	.975	.779	.779	.06
11012	5/8	1.020	.851	.851	.06
11013	11/16	1.020	.925	.925	.12
11014	3/4	1.135	1.002	1.002	.12
11015	13/16	1.135	1.085	1.085	.12



12 PT. - STANDARD SOCKETS

Number	Description
11206	3/8" Dr. 12 Pt. 5/16" Socket
11208	3/8" Dr. 12 Pt. 3/8" Socket
11209	3/8" Dr. 12 Pt. 7/16" Socket
11210	3/8" Dr. 12 Pt. 1/2" Socket
11211	3/8" Dr. 12 Pt. 9/16" Socket
11212	3/8" Dr. 12 Pt. 5/8" Socket
11213	3/8" Dr. 12 Pt. 11/16" Socket
11214	3/8" Dr. 12 Pt. 3/4" Socket
11215	3/8" Dr. 12 Pt. 13/16" Socket
11216	3/8" Dr. 12 Pt. 7/8" Socket



6 PT. - DEEP SOCKETS

Item Number	Size (Inch)	Dimensions			Weight (lbs)
		A	B	C	
11058	3/8	2.513	.667	.667	.12
11059	7/16	2.513	.662	.662	.12
11060	1/2	2.513	.706	.706	.12
11061	9/16	2.513	.786	.786	.12
11062	5/8	2.513	.870	.870	.19
11063	11/16	2.513	.925	.925	.19
11064	3/4	2.513	1.002	1.002	.25
11065	13/16	2.526	1.085	1.085	.25
11066	7/8	2.526	1.186	1.186	.31



12 PT. - DEEP SOCKETS

Number	Description
11258	3/8" Dr. 12 Pt. Deep, 3/8" Socket
11259	3/8" Dr. 12 Pt. Deep, 7/16" Socket
11260	3/8" Dr. 12 Pt. Deep, 1/2" Socket
11261	3/8" Dr. 12 Pt. Deep, 9/16" Socket
11262	3/8" Dr. 12 Pt. Deep, 5/8" Socket
11263	3/8" Dr. 12 Pt. Deep, 11/16" Socket
11264	3/8" Dr. 12 Pt. Deep, 3/4" Socket
11265	3/8" Dr. 12 Pt. Deep, 13/16" Socket
11266	3/8" Dr. 12 Pt. Deep, 7/8" Socket



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(800) 733-0089 • (781) 329-4000 • FAX: (781) 326-4757

1/4" AND 3/8" DRIVE SOCKET SETS



1/4" DRIVE SOCKET SETS

19233

1/4" DRIVE FRACTIONAL / METRIC SOCKET SET



39
PIECE SET

Number	Description	Number	Description
10022	6 Pt. Std. Skt. 3/16"	10108	6 Pt. Std. Skt. 8mm
10023	6 Pt. Std. Skt. 7/32"	10109	6 Pt. Std. Skt. 9mm
10024	6 Pt. Std. Skt. 1/4"	10110	6 Pt. Std. Skt. 10mm
10025	6 Pt. Std. Skt. 9/32"	10111	6 Pt. Std. Skt. 11mm
10026	6 Pt. Std. Skt. 5/16"	10112	6 Pt. Std. Skt. 12mm
10027	6 Pt. Std. Skt. 11/32"	10113	6 Pt. Std. Skt. 13mm
10028	6 Pt. Std. Skt. 3/8"	10156	6 Pt. Dp. Skt. 6mm
10029	6 Pt. Std. Skt. 7/16"	10157	6 Pt. Dp. Skt. 7mm
10030	6 Pt. Std. Skt. 1/2"	10158	6 Pt. Dp. Skt. 8mm
10052	6 Pt. Dp. Skt. 3/16"	10159	6 Pt. Dp. Skt. 9mm
10053	6 Pt. Dp. Skt. 7/32"	10160	6 Pt. Dp. Skt. 10mm
10054	6 Pt. Dp. Skt. 1/4"	10161	6 Pt. Dp. Skt. 11mm
10055	6 Pt. Dp. Skt. 9/32"	10162	6 Pt. Dp. Skt. 12mm
10056	6 Pt. Dp. Skt. 5/16"	10163	6 Pt. Dp. Skt. 13mm
10057	6 Pt. Dp. Skt. 11/32"	10164	6 Pt. Dp. Skt. 14mm
10058	6 Pt. Dp. Skt. 3/8"	10902	1 1/2" Extension
10059	6 Pt. Dp. Skt. 7/16"	10905	3" Extension
10060	6 Pt. Dp. Skt. 1/2"	10909	Round Head Ratchet
10104	6 Pt. Std. Skt. 5mm		High density polyethylene case
10106	6 Pt. Std. Skt. 6mm		Total Weight 3.05 lb
10107	6 Pt. Std. Skt. 7mm		

3/8" DRIVE SOCKET SETS



23
PIECE SET

19230 3/8" DRIVE SOCKET SET

Number	Description	Number	Description
11004	6 Pt. Std. Skt. 1/4"	11061	6 Pt. Dp. Skt. 9/16"
11006	6 Pt. Std. Skt. 5/16"	11062	6 Pt. Dp. Skt. 5/8"
11008	6 Pt. Std. Skt. 3/8"	11063	6 Pt. Dp. Skt. 11/16"
11009	6 Pt. Std. Skt. 7/16"	11064	6 Pt. Dp. Skt. 3/4"
11010	6 Pt. Std. Skt. 1/2"	11065	6 Pt. Dp. Skt. 13/16"
11011	6 Pt. Std. Skt. 9/16"	11066	6 Pt. Dp. Skt. 7/8"
11012	6 Pt. Std. Skt. 5/8"	11412	6 Pt. Spark Plug Skt. 5/8"
11013	6 Pt. Std. Skt. 11/16"	11905	3" Extension
11014	6 Pt. Std. Skt. 3/4"	11910	6" Extension
11015	6 Pt. Std. Skt. 13/16"	11913	Round Head Ratchet
11058	6 Pt. Dp. Skt. 3/8"		High density polyethylene case
11059	6 Pt. Dp. Skt. 7/16"		Total Weight 4.70 lb
11060	6 Pt. Dp. Skt. 1/2"		



9
PIECE SET

56370 3/8" DRIVE HEX BIT SOCKET SET

Number	Description	Number	Description
58800	Bit Skt. 7/64"	58810	Bit Skt. 7/32"
58802	Bit Skt. 1/8"	58812	Bit Skt. 1/4"
58804	Bit Skt. 9/64"	58814	Bit Skt. 5/16"
58806	Bit Skt. 5/32"	58815	Bit Skt. 3/8"
58808	Bit Skt. 3/16"		Metal Box
			Total Weight 1.6 lb

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1/2" RATCHETS AND SOCKETS

ARMSTRONG **GALLEN**

1/2" DRIVE RATCHETS


TEARDROP QUICK RELEASE

Item Number	Length	Weight (lbs)	# of Teeth
12800	10.313	1.31	36

Fed. Std. GGG-W-641e ANSI Spec. B107.10M


TEARDROP QUICK RELEASE FLEX HEAD

Item Number	Length	Weight (lbs)	# of Teeth
12802	16.750	2.25	36

Fed. Std. GGG-W-641e ANSI Spec. B107.10M

1/2" DRIVE ACCESSORIES

EXTENSIONS

Item Number	Size (Inch)	Weight (lbs)
12805	3	.25
12810	5	.56
12812	10	.94
12814	20	1.25

Fed. Std. GGG-W-641e ANSI Spec. B107.10M

FLEX HANDLE

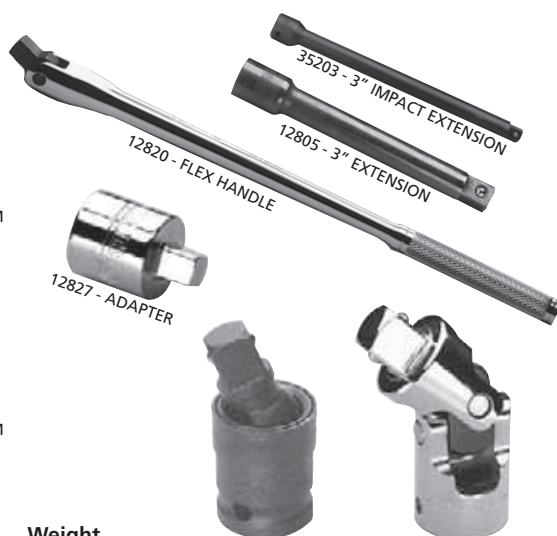
Item Number	Size (Inch)	Weight (lbs)
12820	15.000	1.51
12821	18.000	1.69

Fed. Std. GGG-W-641e ANSI Spec. B107.10M

ADAPTERS

Item Number	Size (Inch)	Length	Weight (lbs)
12827	1/2 F x 3/8 M	1.440	.12
12828	1/2 F x 3/4 M	1.755	.25

Fed. Std. GGG-W-641e ANSI Spec. B107.10M



12827 - ADAPTER

12820 - FLEX HANDLE

35203 - 3" IMPACT EXTENSION

12805 - 3" EXTENSION

35207 - IMPACT UNIVERSAL JOINT

12830 - UNIVERSAL JOINT

UNIVERSAL JOINT

Item Number	Size (Inch)	Weight (lbs)
12830	2.690	.25

Fed. Std. GGG-W-641e ANSI Spec. B107.10M

IMPACT UNIVERSAL JOINT

Item Number	Size (Inch)	Weight (lbs)
35207	2.813	.19

Fed. Std. GGG-W-641e ANSI Spec. B107.10M

IMPACT EXTENSIONS

Item Number	Size (Inch)	Weight (lbs)
35203	3	.31
35206	6	.56
35200	10	.92

1/2" DRIVE SOCKETS

6 PT. - STANDARD SOCKETS

Item Number	Size (Inch)	Dimensions			Weight (lbs)
		A	B	C	
12028	3/8	1.510	.874	.524	.12
12029	7/16	1.510	.876	.684	.12
12030	1/2	1.510	.876	.754	.12
12031	9/16	1.510	.876	.818	.12
12032	5/8	1.510	.876	.876	.12
12033	11/16	1.510	.967	.967	.12
12034	3/4	1.510	1.042	1.042	.19
12035	13/16	1.510	1.122	1.122	.19
12036	7/8	1.510	1.186	1.186	.19
12037	15/16	1.510	1.262	1.262	.25
12038	1	1.635	1.340	1.340	.31
12039	1 1/16	1.635	1.414	1.414	.38
12040	1 1/8	1.697	1.495	1.495	.38
12042	1 1/4	1.770	1.652	1.652	.50

Fed. Std. GGG-W-641e ANSI Spec. B107.1



6 PT. - DEEP SOCKETS

Item Number	Size (Inch)	Dimensions			Weight (lbs)
		A	B	C	
12060	1/2	3.267	.876	.754	.25
12061	9/16	3.267	.876	.818	.25
12062	5/8	3.267	.876	.876	.25
12063	11/16	3.267	.967	.967	.25
12064	3/4	3.267	1.042	1.042	.31
12065	13/16	3.267	1.130	1.130	.38
12066	7/8	3.267	1.195	1.195	.38
12067	15/16	3.267	1.274	1.274	.44
12068	1	3.267	1.352	1.352	.44
12069	1-1/16	3.267	1.426	1.426	.56
12070	1-1/8	3.267	1.507	1.507	1.06

Fed. Std. GGG-W-641e ANSI Spec. B107.1

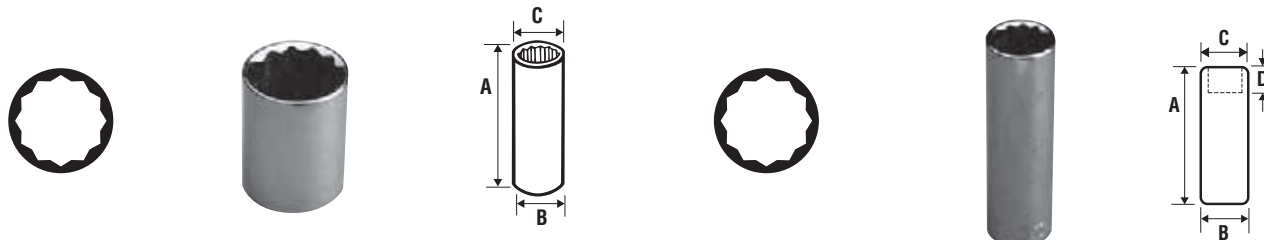




1/2" SOCKETS



1/2" DRIVE SOCKETS



12 PT. - STANDARD SOCKETS

Item Number	Size (Inch)	Dimensions			Weight (lbs)
		A	B	C	
12208	3/8	1.510	.874	.524	.12
12209	7/16	1.510	.876	.684	.12
12210	1/2	1.510	.876	.754	.12
12211	9/16	1.510	.876	.818	.12
12212	5/8	1.510	.876	.876	.12
12213	11/16	1.510	.967	.967	.19
12214	3/4	1.510	1.042	1.042	.19
12215	13/16	1.510	1.122	1.122	.19
12216	7/8	1.510	1.186	1.186	.25
12217	15/16	1.510	1.262	1.262	.25
12218	1	1.635	1.340	1.340	.31
12219	1-1/16	1.635	1.414	1.414	.38
12220	1-1/8	1.697	1.495	1.495	.38
12222	1-1/4	1.770	1.650	1.650	.50
12226	1-1/2	1.920	1.972	1.972	.56

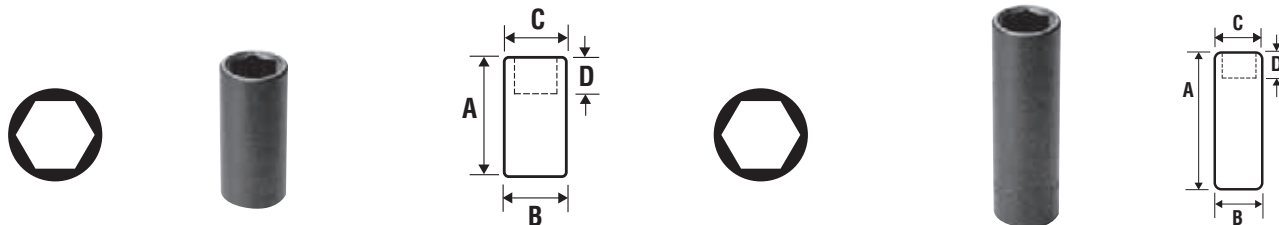
Fed. Std. GGG-W-641e ANSI Spec. B107.1

12 PT. - DEEP SOCKETS

Item Number	Size (Inch)	Dimensions			Weight (lbs)
		A	B	C	
12260	1/2	3.267	.876	.754	.25
12261	9/16	3.267	.876	.818	.25
12262	5/8	3.267	.876	.876	.25
12263	11/16	3.267	.967	.967	.25
12264	3/4	3.267	1.042	1.042	.31
12265	13/16	3.267	1.130	1.130	.38
12266	7/8	3.267	1.195	1.195	.38
12267	15/16	3.267	1.274	1.274	.44
12268	1	3.267	1.274	1.274	.44
12269	1-1/16	3.267	1.426	1.426	.63
12270	1-1/8	3.267	1.507	1.507	.63

Fed. Std. GGG-W-641e ANSI Spec. B107.1

1/2" IMPACT SOCKETS



6 PT. - IMPACT SOCKETS

Item Number	Size (Inch)	Dimensions				Weight (lbs)
		A	B	C	D	
35008	3/8	1.500	.650	.891	.281	.19
35009	7/16	1.500	.727	.891	.312	.19
35010	1/2	1.500	.808	.891	.343	.19
35011	9/16	1.500	.891	.891	.375	.19
35012	5/8	1.500	1.000	1.000	.437	.19
35013	11/16	1.500	1.084	1.084	.500	.25
35014	3/4	1.500	1.152	1.152	.534	.25
35015	13/16	1.500	1.250	1.250	.627	.25
35016	7/8	1.500	1.298	1.298	.627	.31
35017	15/16	1.750	1.356	1.356	.735	.51
35018	1	1.750	1.463	1.463	.735	.56
35019	1-1/16	2.000	1.525	1.525	.735	.62
35020	1-1/8	2.000	1.592	1.592	.812	.69

6 PT. - DEEP IMPACT SOCKETS

Item Number	Size (Inch)	Dimensions				Weight (lbs)
		A	B	C	D	
35058	3/8	3.250	.650	.875	.343	.38
35059	7/16	3.250	.727	.875	.437	.38
35060	1/2	3.250	.808	.875	.468	.38
35061	9/16	3.250	.808	.875	.500	.38
35062	5/8	3.250	1.000	1.000	.562	.38
35063	11/16	3.250	1.062	1.062	.625	.44
35064	3/4	3.250	1.188	1.188	.625	.51
35065	13/16	3.250	1.255	1.255	.687	.56
35066	7/8	3.500	1.298	1.298	.703	.69
35067	15/16	3.500	1.440	1.440	.750	.81
35068	1	3.500	1.463	1.463	.812	1.12
35069	1-1/16	3.500	1.525	1.525	.828	1.25



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1/2" DRIVE SOCKET SETS

ARMSTRONG **ALLEN**

1/2" DRIVE SOCKETS



19506 1/2" DRIVE DEEP IMPACT

Number	Description
35058	6 Pt. Dp. Skt. 3/8"
35059	6 Pt. Dp. Skt. 7/16"
35060	6 Pt. Dp. Skt. 1/2"
35061	6 Pt. Dp. Skt. 9/16"
35062	6 Pt. Dp. Skt. 5/8"
35063	6 Pt. Dp. Skt. 11/16"
35064	6 Pt. Dp. Skt. 3/4"
35065	6 Pt. Dp. Skt. 13/16"
35066	6 Pt. Dp. Skt. 7/8"
35067	6 Pt. Dp. Skt. 15/16"
35068	6 Pt. Dp. Skt. 1"
35069	6 Pt. Dp. Skt. 1-1/16"
35070	6 Pt. Dp. Skt. 1-1/8"
35071	6 Pt. Dp. Skt. 1-1/4" Socket Rail

14
PIECE SET



19210 1/2" DRIVE SOCKET SET

Number	Description
12029	6 Pt. Std. Skt. 7/16"
12030	6 Pt. Std. Skt. 1/2"
12031	6 Pt. Std. Skt. 9/16"
12212	12 Pt. Std. Skt. 5/8"
12213	12 Pt. Std. Skt. 11/16"
12214	12 Pt. Std. Skt. 3/4"
12215	12 Pt. Std. Skt. 13/16"
12216	12 Pt. Std. Skt. 7/8"
12217	12 Pt. Std. Skt. 15/16"
12218	12 Pt. Std. Skt. 1"
12219	12 Pt. Std. Skt. 1 1/16"
12220	12 Pt. Std. Skt. 1 1/8"
12222	12 Pt. Std. Skt. 1 1/4"
12260	12 Pt. Dp. Skt. 1/2"
12261	12 Pt. Dp. Skt. 9/16"
12262	12 Pt. Dp. Skt. 5/8"
12263	12 Pt. Dp. Skt. 11/16"
12264	12 Pt. Dp. Skt. 3/4"
12265	12 Pt. Dp. Skt. 13/16"
12266	12 Pt. Dp. Skt. 7/8"
12810	6" Extension
12820	Flex Handle 15"
12800	Ratchet Quick Release Metal Box Total Weight 13.25 lb

23
PIECE SET



56374 1/2" DRIVE HEX BIT SOCKET SET

Number	Description
58836	1/2" Drive Bit Skt. 1/4"
58838	1/2" Drive Bit Skt. 5/16"
58840	1/2" Drive Bit Skt. 3/8"
58842	1/2" Drive Bit Skt. 7/16"
58844	1/2" Drive Bit Skt. 1/2"
58846	1/2" Drive Bit Skt. 9/16"
58848	1/2" Drive Bit Skt. 5/8"
	Metal Box
	Total Weight 1.50 lb

9
PIECE SET

DON'T SEE WHAT YOU'RE LOOKING FOR?
CALL US
IT MAY BE IN STOCK OR WE CAN ORDER IT FOR YOU!



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3/4" DRIVE SOCKETS, RATCHETS & ACCESSORIES



3/4" DRIVE RATCHETS

TEARDROP QUICK RELEASE

Item Number	Length	Weight (lbs)	# of Teeth
13900	19.688	5.38	36

Fed. Std. GGG-W-641e ANSI Spec. B107.10M



3/4" DRIVE ACCESSORIES

FLEX HANDLE



Item Number	Length	Weight (lbs)
13920	17.550	2.69

Fed. Std. GGG-W-641e ANSI Spec. B107.10M

EXTENSIONS



Item Number	Length	Weight (lbs)
13910	5	.88
13912	8	1.44
13914	16	2.63

Fed. Std. GGG-W-641e ANSI Spec. B107.10M

SLIDING T HANDLE



Item Number	Length	Weight (lbs)
13922	18.000	3.19

Fed. Std. GGG-W-641e ANSI Spec. B107.10M

ADAPTERS



Item Number	Size (Inch)	Length	Weight
13927	3/4F x 1/2M	2.00	.75
13928	3/4F x 1M	2.00	.75

Fed. Std. GGG-W-641e ANSI Spec. B107.10M

3/4" DRIVE SOCKETS

12 PT. - STANDARD SOCKETS

Item Number	Size (Inch)	Dimensions			Weight (lbs)
		A	B	C	
13202	7/8	1.88	1.33	1.33	.31
13203	15/16	1.88	1.40	1.33	.31
13204	1	1.88	1.40	1.48	.31
13205	1-1/16	2.00	1.40	1.55	.31
13206	1-1/8	2.00	1.40	1.55	.31
13207	1-3/16	2.13	1.50	1.70	.44
13208	1-1/4	2.13	1.50	1.78	.50
13209	1-5/16	2.13	1.50	1.85	.56
13210	1-3/8	2.19	1.50	1.92	.63
13211	1-7/16	2.25	1.50	2.02	.69
13212	1-1/2	2.31	1.63	2.10	.69
13213	1-9/16	2.31	1.63	2.10	.81
13214	1-5/8	2.38	1.63	2.25	.81
13215	1-11/16	2.44	1.75	2.32	1.00
13216	1-3/4	2.50	1.75	2.39	1.06
13217	1-13/16	2.56	1.75	2.47	1.06
13218	1-7/8	2.62	1.75	2.60	1.38
13220	2	2.69	1.75	2.76	1.69
13222	2-1/8	2.81	1.75	2.90	1.88
13224	2-1/4	2.94	1.75	3.09	2.12

Fed. Std. GGG-W-641e ANSI Spec. B107.1



3/4" DRIVE SOCKET SET



19300 3/4" DRIVE SOCKET SET

Number	Description	Number	Description
13203	12 Pt. Std. Skt. 15/16"	13216	12 Pt. Std. Skt. 1-3/4"
13204	12 Pt. Std. Skt. 1"	13217	12 Pt. Std. Skt. 1-13/16"
13205	12 Pt. Std. Skt. 1-1/16"	13218	12 Pt. Std. Skt. 1-7/8"
13206	12 Pt. Std. Skt. 1-1/8"	13220	12 Pt. Std. Skt. 2"
13207	12 Pt. Std. Skt. 1-3/16"	13910	5" Extension
13208	12 Pt. Std. Skt. 1-1/4"	13912	8" Extension
13209	12 Pt. Std. Skt. 1-5/16"	13914	16" Extension
13210	12 Pt. Std. Skt. 1-3/8"	13920	Flex Handle
13211	12 Pt. Std. Skt. 1-7/16"	13922	Sliding T Handle
13212	12 Pt. Std. Skt. 1-1/2"	13900	Ratchet Quick Release Metal Box
13213	12 Pt. Std. Skt. 1-9/16"		
13214	12 Pt. Std. Skt. 1-5/8"		
13215	12 Pt. Std. Skt. 1-11/16"		

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WRENCHES, HEX KEY AND T-HANDLE SETS



WRENCHES

12 PT. COMBINATION WRENCHS

Item Number	Size (Inch)	Dimensions					Weight (lbs)
		A	B	C	D	E	
20204	1/4	3.99	.54	.18	.38	.23	.06
20206	5/16	4.38	.72	.20	.47	.25	.06
20208	3/8	5.32	.81	.20	.56	.29	.06
20209	7/16	5.88	.87	.24	.66	.30	.12
20210	1/2	6.54	.98	.27	.75	.32	.19
20211	9/16	7.13	1.14	.29	.84	.35	.25
20212	5/8	8.00	1.28	.32	.94	.39	.31
20213	11/16	8.81	1.39	.35	1.03	.42	.38
20214	3/4	9.67	1.50	.36	1.06	.45	.44
20215	13/16	10.58	1.69	.37	1.18	.48	.50
20216	7/8	11.56	1.69	.38	1.28	.48	.63
20217	15/16	12.58	1.86	.39	1.37	.51	.81
20218	1	13.56	1.94	.42	1.47	.55	1.00
20219	1-1/16	14.69	2.16	.44	1.61	.55	1.19
20220	1-1/8	15.63	2.20	.48	1.65	.58	1.38
20222	1-1/4	16.94	2.49	.51	1.82	.58	1.56
20223	1-5/16	18.31	2.52	.53	1.92	.62	1.63
20224	1-3/8	20.35	2.88	.78	2.16	.94	1.68
20225	1-7/16	20.35	2.88	.78	2.16	.94	1.75
20226	1-1/2	20.35	2.88	.78	2.16	.94	3.00
20228	1-5/8	24.08	3.44	.79	2.56	.98	3.81
20229	1-11/16	24.08	3.44	.79	2.56	.98	6.88
20230	1-3/4	26.09	3.70	.83	2.75	1.01	6.88
20231	1-13/16	26.09	3.70	.83	2.75	1.01	6.88
20232	1-7/8	27.10	3.88	.86	2.94	1.04	6.88
20234	2	29.10	4.06	.86	3.06	1.04	6.88



29010 12 PT. COMBINATION WRENCH SET



Number	Description	Number	Description
20208	3/8"	20216	7/8"
20209	7/16"	20217	15/16"
20210	1/2"	20218	1"
20211	9/16"	20219	1-1/16"
20212	5/8"	20220	1-1/8"
20213	11/16"	20222	1-1/4"
20214	3/4"		Tool Roll
20215	13/16"		Total Weight 3.18 lb

21700 BLACK ADJUSTABLE CONSTRUCTION WRENCH



Length: 15"
Weight: 2.3 lbs.

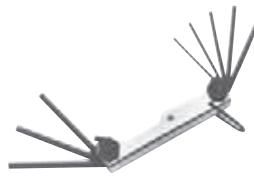
DURACAST® HEX KEY SETS

FOLD-UPS



ITEM NO.	NO. KEYS	KEY SIZES	HANDLE LENGTH
56347	9	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4	4-1/4"
56349	7	1.5, 2, 2.5, 3, 4, 5, 6	3-1/2"

STANDARD FOLD-UPS



ITEM NO.	NO. KEYS	KEY SIZES	HANDLE LENGTH
56314	8	.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32	3"
56316	9	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4	3-3/4"
56320	5	3/16, 7/32, 1/4, 5/16, 3/8	6-3/8"
56360	7	1.5, 2, 2.5, 3, 4, 5, 6	3-3/4"

56128 13 KEY LONG ARM SET WITH METAL BOX

Key Sizes (Inch)
1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2



10 KEY CUSHION-GRIP SET WITH METAL STAND

Key Sizes (Inch)
3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8

Key Length: 9"



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HAND TOOLS



SCREWDRIVERS

CABINET TIP - SLOTTED



Item Number	Description	Overall Length	Weight (lbs)
30833	3/16" x 3"	5-3/4"	.06
30834	3/16" x 6"	9-1/2"	.12

ANSI Spec. B107.15

ROUND BLADE - SLOTTED



Item Number	Description	Overall Length	Weight (lbs)
30839	1/4" x 4"	8-1/4"	.20
30840	1/4" x 6"	10-1/4"	.41
30841	5/16" x 6"	10-3/4"	.41

ANSI Spec. B107.15

PHILLIPS TIP



Item Number	Description	Overall Length	Weight (lbs)
30835	#0 x 2 1/2" w/clip	4-3/8"	.06
30836	#1 x 3"	6-1/2"	.12
30837	#2 x 4"	7-1/2"	.19
30838	#3 x 6"	9-1/2"	.31

ANSI Spec. B107.15

30846 6 PIECE COMBINATION SCREWDRIVER SET

Number	Description
30833	3/16" x 3" Cabinet
30836	#1 x 3" Phillips
30837	#2 x 4" Phillips
30838	#3 x 6" Phillips
30839	1/4" x 4" Round Blade
30840	1/4" x 6" Round Blade

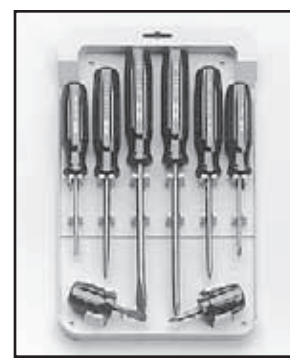
Storage Tray
Total Weight 1.62 lb



30847 8 PIECE COMBINATION SCREWDRIVER SET

Number	Description
30833	3/16" x 3" Cabinet
30836	#1 x 3" Phillips
30837	#2 x 4" Phillips
30838	#3 x 6" Phillips
30839	1/4" x 4" Round Blade
30841	5/16" x 6" Round Blade
30844	1/4" x 1 1/2" Stubby
30845	#2 x 1 1/2" Phillips

Storage Tray
Total Weight 1.73 lb



C-CLAMPS

Designed for use in the many applications which don't require the throat depth of a Square or Deep Throat pattern, or the extreme strength of a Heavy Duty Pattern.

Product Proof Number	Capacity	Inches Max. Min.	Thread Size	Length of Screw	Min. Test, lbs.
78-102	2	0	1/2-13	4-7/8"	7,500
78-103	3	0	5/8-11	6-3/8"	8,750
78-104	4	0	3/4-10	7-7/8"	10,000
78-106	6	2	3/4-10	7-7/8"	11,250
78-108	8	4	3/4-10	7-7/8"	12,500
78-110	10	6	3/4-10	7-7/8"	13,750
78-112	12	8	7/8-9	10-1/4"	15,000
78-115	15	10	7/8-9	10-1/4"	16,250
78-118	18	13	7/8-9	10-1/4"	17,500

COLD CHISELS

Item Number	Cut	Hex Size	Length	Weight (lbs)
25651	3/8	5/16	5-1/4	.12
25652	7/16	3/8	5-1/2	.19
25653	1/2	3/8	6	.19
25654	5/8	1/2	6-1/2	.38
25655	3/4	5/8	7	.63
65656	7/8	3/4	7-1/2	.88
25657	1	7/8	8	1.31

FED. STD. GGG-P-831e



25651

PINCH BARS

Item Number	Hex Size	Length	Weight (lbs)
25669	3/4	20	1.31

25669



2180 4-1 SCREWDRIVER



Four different screwdriver bits in one gives it unlimited applications

Stock Size: 5/16" Overall Length: 7-1/2"

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HAND TOOLS**STANLEY**®**NAIL HAMMERS****NYLON-VINYL GRIP CLAW HAMMERS**

CAT NO.	APPROX. HEAD WEIGHT	APPROX. OVERALL LENGTH
E3-16C	16 oz.	13"
E3-20C	20 oz.	13-1/2"

**NYLON-VINYL GRIP RIP HAMMERS**

CAT NO.	APPROX. HEAD WEIGHT	APPROX. OVERALL LENGTH
E3-16S	16 oz.	13"
E3-20S	20 oz.	13-1/2"

SPECIALTY HAMMERS**PROFESSIONAL BALL PEIN HAMMERS**

- High carbon steel forged heads, hardened and tempered
- Selected clear lacquered hickory handles
- Polished face, poll and pein

CAT NO.	APPROX. HEAD WEIGHT	APPROX. OVERALL LENGTH
54-016	16 oz.	14"
54-024	24 oz.	15"
54-032	32 oz.	16"
54-040	40 oz.	16"

**HICKORY HANDLE ENGINEER'S HAMMERS**

- Contractor Grade™
- Forged steel head - hardened and tempered
Faces machine finished

CAT. NO.	WGT. LBS.	LENGTH	FACE
56-802	2-1/2	4-3/8"	1-1/2"
56-803	3	5-1/8"	1-5/8"
56-804	4	5-1/4"	1-3/4"

**HICKORY HANDLE SLEDGE HAMMERS**

- Contractor Grade™ • Forged steel head - hardened and tempered. Faces machine finished

CAT. NO.	HEAD		FACE	LENGTH
	WGT. LBS.	HANDLE LENGTH		
56-808	8	6-1/2"	2-1/4"	32"
56-810	10	7-1/8"	2-3/8"	34"
56-812	12	7-3/4"	2-1/2"	34"
56-816	16	8-1/2"	2-3/4"	34"

WONDER BAR™ PRY BAR

- Forged high carbon steel.
- Heat treated for extra toughness with polished and beveled cutting edges
- Contoured bar is ideal for pulling nails, prying, lifting, scraping
- Beveled nail slot both ends

CAT NO.	BLADE WIDTH		OVERALL LENGTH	
	INCHES	MM	INCHES	MM
55-515	1-3/4	44	12-3/8	314



HAND TOOLS

STANLEY®

10-099

6" CLASSIC 99® RETRACTABLE UTILITY KNIFE



- Patented interlocking nose to hold blade securely
- Three-position, retractable blade
- Blade storage in handle
- Furnished with 3 blades

PROFESSIONAL™ FLEXIBLE BLADE PUTTY KNIVES



- Steel blade hardened, tempered and polished
- Full tang blade permanently fastened to nylon handle

CAT. NO.	WIDTH	CAT. NO.	WIDTH
PK-1	1"	PK-3	3"
PK-114	1-1/4"	PK-4	4"
PK-112	1-1/2"	PK-5	5"
PK-2	2"		



11-921A 100-PACK 1992® HEAVY DUTY UTILITY BLADES WITH DISPENSER

- Engineered for general-purpose cutting
- Precision-honed edge for consistent and extended cutting life
- Fits most standard utility knives

AVIATION TYPE SNIPS



- Cut up to 18 gauge cold rolled steel
- Tough alloy steel blades ground and oiled
- Positive lock, contoured handles
- Compound leverage — tough vinyl grips
- Vinyl grips do not protect against electrical shock

CAT. NO.	CUTTING EDGE PATTERN	LENGTH	COLOR CODE
TQ-3641	Left Curve	9-3/4"	Red
TQ-3646	Straight Cut	9-3/4"	Yellow
TQ-3636	Right Curve	9-3/4"	Green



GREENLEE®

A Textron Company

GL-301A

6" KEYHOLE SAW



- Integrated blade and handle design
- Ergonomic handle with non-slip grip
- Hardened steel blade with clog-free teeth
- Pointed tip easily punches through drywall
- Blade cuts on both push and pull strokes
- Hole in handle for convenient storage.
- Overall Length: 11-5/8"
- Note: This is not an insulated tool.

MASONRY HAND TOOLS

ALL-PT5 POINTING TROWEL

- Forged from a single piece of highest grade tool steel for unsurpassed strength
- Hardwood handle with polished steel ferrule is securely attached
- Versatile tool
- Made in U.S.A.



MAR-11202 MARGIN TROWEL

- Size: 6" x 2"
- Forged from a single piece of highest grade tool steel
- Tempered, ground, and polished from toe to heel
- Hardwood handle with a polished steel ferrule is securely attached
- Made in U.S.A.



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HANDSAWS, HACKSAWS AND BLADES

LENOX

4012 HIGH TENSION HACKSAW FRAME



- Comfortable ergonomic design grip with larger space to fit gloved hand
- Convenient storage handle holds up to five 12" hacksaw blades
- Tensions up to 30,000 PSI for fast, straight cuts
- Multi-purpose uses; mount at 45 degrees for flush cutting or insert standard recip blade to use as a jab saw

CAT. NUMBER	DESCRIPTION
20918-4012	High Tension Hand Hacksaw Frame

BI-METAL HACKSAW BLADES

- Shatter resistant Bi-metal construction allows blades to bend and flex
- Longer life TUFF TOOTH™ design eliminates tooth stripping

CAT. NUMBER	CAT. NUMBER	CAT. NUMBER	LENGTH
100 PER PACK	10 PER PACK	BLISTER PACKED*	TPI X WIDTH
20116-218HE	20144-V218HE	20154-S218HE	18 12" x 1/2"
20117-224HE	20145-V224HE	20155-S224HE	24 12" x 1/2"
20118-232HE	20146-V232HE	20156-S232HE	32 12" x 1/2"

*Blister Packed: 1 Per card / 10 Cards Per Pack

975 COMPACT HACKSAW



- Cuts bolts, wire, tubing and plastic
- Rugged design with heavy duty aluminum handle
- Fits into tight spots and allows for flush cutting applications

CAT. NUMBER	DESCRIPTION
20975-975	Compact Hacksaw

CLOSE QUARTER® SAW



- Fits into tight spots for cutting overhead or behind walls

CAT. NUMBER	DESCRIPTION
20908-908	Close Quarter® Saw
20906-906	Replacement Blades: 6" x 1/4" x .014 x 32T 10 Blades Per Pack

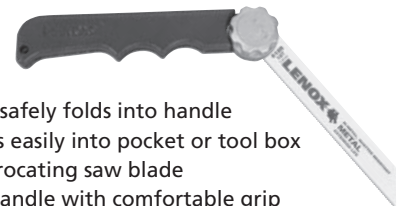
PVC/ABS PLASTIC PIPE HAND SAW



- Durable rigid carbon blade with hardened teeth for long life
- Unique pull cutting teeth cut quickly through all plastic pipe and wood
- Comfortable handle with larger space to fit gloved hand

CAT. NUMBER	DESCRIPTION	TPI
20985-HFS12	12" Blade & Handle	10
20980-HFS18	18" Blade & Handle	10
20982-HSB12	12" Replacement Blade	10
20981-HSB18	18" Replacement Blade	10
20987-FCBA	Flush Cutting Blade Adapter	10

TRI-FOLD® SAW



- Blade conveniently and safely folds into handle
- Compact design that fits easily into pocket or tool box
- Uses any standard reciprocating saw blade
- Heavy-duty aluminum handle with comfortable grip
- Push button design locks blade into three different positions for multiple uses

CAT. NUMBER	DESCRIPTION
20992-3636	TRI-FOLD® SAW For Wood, Drywall and Non-Metallic
20993-3618	TRI-FOLD® SAW For Metal Cutting
20997-TFHS618636	TRI-FOLD® SAW With Two Blades For Plaster, Wood and Metal



AMERICAN PATTERN FILES



MACHINIST'S FILES

Half Round (Tapered)



These files are used for filing out concave surfaces and crevices, and for rounding out holes. The flat side of the file is double cut for use on flat surfaces. The half round side is spiral cut which removes metal rapidly and leaves a smooth finish.

PFERD Specification Number: 1152 SP

Length (Inches)	Cross-section (Inches)	Cut and EDP Number			
		Bastard (Cut 1)	Second (Cut 2)	Smooth (Cut 3)	
4	13/32 x 3/32	11150	11151	11152	10
6	19/32 x 5/32	11020	11021	11022	10
8	3/4 x 7/32	11023	11024	11025	10
10	15/16 x 9/32	11026	11027	11028	10
12	1-1/8 x 11/32	11029	11030	11031	5
14	1-9/32 x 13/32	11032	-	-	5

Hand



This file has the same cross-sectional dimensions as the flat file but is blunt in shape (no taper). Double cut, it has one safe (uncut) edge which permits filing one surface without damaging an adjoining one.

PFERD Specification Number: 1112

Length (Inches)	Cross-section (Inches)	Cut and EDP Number			
		Bastard (Cut 1)	Second (Cut 2)	Smooth (Cut 3)	
6	5/8 x 5/32	11036	11037	11038	10
8	25/32 x 7/32	11039	11040	11041	10
10	31/32 x 1/4	11042	11043	11044	10
12	1-5/32 x 9/32	11045	11046	11047	5

MAINTENANCE BRUSHES

SCRATCH BRUSHES

Quality brushing tools for maintenance applications. Removal of rust, paint, scale, dirt and other debris. Cleans metal parts, threads and much more.

Curved Handle



Wire Rows	Brush Part Length (In.)	Wire Dia.	Block Type	Block Size (L x W)	Wire Type and EDP No.		
					Carbon Steel	Stainless Steel	
3 x 14	6-1/4	.012	Hardwood, V-Groove	13-3/4 x 7/8	85010	85011	12
3 x 19	6-1/4	.012	Hardwood	13-3/4 x 7/8	85002	85004	12
3 x 19	6-1/4	.012	Hardwood w/scrapper	13-3/4 x 7/8	85003	-	12
3 x 19	6-1/4	.012	Synthetic	13-3/4 x 7/8	85012	85014	12
3 x 19	6-1/4	.012	Synthetic w/scrapper	13-3/4 x 7/8	85013	-	12
4 x 19	6-1/4	.012	Hardwood	13-3/4 x 1-1/8	85006	85008	12
4 x 19	6-1/4	.012	Hardwood w/scrapper	13-3/4 x 1-1/8	85007	-	12
4 x 19	6-1/4	.012	Synthetic	13-3/4 x 1-1/8	85016	85018	12
4 x 19	6-1/4	.012	Synthetic w/scrapper	13-3/4 x 1-1/8	85017	-	12

Shoe Handle



Wire Rows	Brush Part Length (In.)	Wire Dia.	Block Type	Block Size (L x W)	Wire Type and EDP No.			
					Carbon Steel	Stainless Steel	Bronze	
4 x 16	5	.012	Hardwood	10-1/4 x 1-1/8	85033	85035	85036	12
4 x 16	5	.012	Hardwood w/scrapper	10-1/4 x 1-1/8	85034	-	-	12
4 x 16	5	.012	Synthetic	10-1/4 x 1-1/8	85037	85039	85040	12



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ACCESS DOORS

ELMDOR
STONEMAN

DW SERIES - DRYWALL ACCESS DOORS



- **Doors** are ideally suited for new installations or for remodeling, in masonry, tile, wood or other wall and ceiling surfaces. Door features rounded safety corners.
- **Door and Frame** are fabricated from 16 gage, galvanized steel with a prime coat finish.
- **Frame** is one piece construction, 1" wide and provides perfect concealment of the rough wall opening. Wall frame is provided with 1/4" mounting holes for fastening within the furred spaces allowing faster installation and fixing maximum clearance.
- **Concealed Pivoting Rod Hinge** prevents distortion and closes door squarely. Doors 24" or larger are provided with a continuous piano hinge.
- **Latch** is screwdriver operated.
- **Finish** is a prime coat suitable for painting.
- **Optional Latches:**
CL- Cylinder Lock • AKL- Allen Key Latch • TH- T Handle
- **Optional Finish:**
SS- Stainless Steel

DWB SERIES - DRYWALL BEAD ACCESS DOORS

- **Doors** are designed for flush installation in dry wall surfaces. Door features a concealed hinge that prevents distortion and closes door squarely.
- **Door and Frame** are fabricated from 16 gage, galvanized steel with a prime coat finish.
- **Frame** has 1/4" mounting holes positioned to allow anchoring directly to studs to assure a secure mounting. A drywall bead on the frame allows the drywall joint compound to be applied over the bead at the same time as the joints and corners.
- **Flange** has prepunched holes to provide grip for the joint compound and facilitate fastening the flange to framing members with drywall screws.
- **Concealed Pivoting Rod Hinge** prevents distortion and closes door squarely. Doors 24" or larger are provided with a continuous piano hinge.
- **Latch** is screwdriver operated. Finish is a prime coat suitable for painting.
- **Optional Latches:**
CL- Cylinder Lock • AKL- Allen Key Latch • TH- T Handle
- **Optional Finish:**
SS- Stainless Steel



FR SERIES - FIRE RATED WALL ACCESS DOORS



- **Doors** are Fire Rated by Underwriters Laboratories Inc., for 1-1/2 hours, "B" Label, and meet ANSI-UL 10B standard. Door has a heavy duty spring closer to assure positive latching when panel closes. This door is for wall installation only.
- **Door and Frame** are fabricated from 16 gage, galvanized steel with a prime coat finish. Door has a heavy duty spring to assure positive latching.
- **Frame** is equipped with both masonry anchors and bolt holes to facilitate installation in all types of wall construction.
- **Concealed Hinge** operates completely out of sight so that only the door and frame is visible.
- **Exterior Latch** is recessed and is operated using a ring attached to the sliding bolt.
- **Interior Latch Release Slide** is included enabling door to be opened from the inside.
- **Finish** is a prime coat suitable for painting.
- **Optional Latch:**
CL- Cylinder Lock
- **Optional Finish:**
SS- Stainless Steel



ACCESS DOORS



SAFETY PRODUCTS

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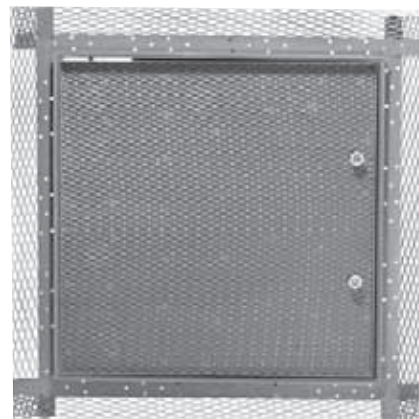
FRC SERIES - FIRE RATED CEILING ACCESS DOORS



- **Doors** are rated by Underwriters Laboratories for 1.5 hours, "B" label in walls, and by Warnock Hershey for 3 hours in ceilings. Door should be utilized when providing access in fire rated walls and ceilings. Doors have heavy-duty spring closures to ensure positive latching when panel closes.
- **Door** is fabricated from 20 gage, galvanized steel with a prime coat finish.
- **Door panel** is provided with two inches of insulation in a sandwich type construction.
- **Frame** is fabricated from 16 gage, galvanized steel with a prime coat finish and provided with masonry anchors and bolt holes.
- **Hinge** is a fully concealed continuous piano type and mounted on the long side of the rectangular door panel.
- **Exterior Latch** is a dual purpose lock that features a knurled knob and key operation. Both are provided at time of shipping.
- **Interior Latch Release Slide** is included enabling door to be opened from the inside.
- **Option:**
MLP- Mortice Lock Prep

AP SERIES - ACOUSTICAL PLASTER ACCESS DOORS

- **Doors** are designed to install flush with the plaster surface assuring an attractive finish. Doors are recessed 5/8" and lined with a metal lath to allow plaster of surrounding surfaces to fill in the face of the door.
- **Door and Frame** are fabricated from 16 gage, galvanized steel with a prime coat finish.
- **Frame** has a 3" wide metal lath on all four sides to key into the plaster.
- **Concealed Hinge** is recessed and operates completely out of sight so that only the metal thickness of the door and frame is visible. Latch is screwdriver operated.
- **Finish** is a prime coat suitable for painting.
- **Optional Latches:**
CL- Cylinder Lock
AKL- Allen Key Latch



AT SERIES - ACOUSTICAL TILE ACCESS DOORS



- **Doors** are designed for use with acoustical tile or gypsum board walls and ceilings. The door is engineered to install flush, virtually concealed. Door is recessed 5/8" to accept acoustical tile or gypsum board.
- **Door** is 16 gage and frame is 12 gage, galvanized steel with a prime coat finish.
- **Concealed Hinge** operates completely out of sight so that only the metal thickness of the door and frame is visible.
- **Latch** is screwdriver operated.
- **Optional Latches:**
CL- Cylinder Lock
AKL- Allen Key Latch



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PRO-JAX UTILITY SCAFFOLD PACKAGES

All Pro-Jax utility scaffold units are 29" wide and can be stacked up to three units high. These easy to assemble, lightweight units that are perfect for all types of interior work. They can even be used on stairs!

BIL-JAX®

Other styles of scaffold and staging are also available.

Call your Newman Representative to assemble a custom package.



0127-006-0
Single Unit



0127-006-1
Single Unit
With Guard Rail



0127-006-2
Package for
11-1/2'
Platform
Height

PRO-JAX UTILITY SCAFFOLD STEEL PACKAGES

(Includes frames, braces, platform & casters; outriggers and guard rails included where applicable)

PART #	LENGTH	PLATFORM HEIGHT RANGE	MAX. WK. HEIGHT	OVERALL HEIGHT	GUARD RAIL	OUTRIG	WEIGHT
0127-006-0	6'	2'-4'	10'6"	6'	NO	NO	152
0127-006-1	6'	2'-6'	12'6"	9'6"	YES	NO	240
0127-006-2	6'	2'-11.5'	18'	15'	YES	YES	430
0127-006-3	6'	2'-17'	23'6"	20'6"	YES	YES	538
0127-008-0	8'	2'-4'	10'6"	6'	NO	NO	173
0127-008-1	8'	2'-6'	12'6"	9'6"	YES	NO	279
0127-008-2	8'	2'-11.5'	18'	15'	YES	YES	490
0127-008-3	8'	2'-17'	23'6"	20'6"	YES	YES	609
0127-010-0	10'	2'-4'	10'6"	6'	NO	NO	200
0127-010-1	10'	2'-6'	12'6"	9'6"	YES	NO	316
0127-010-2	10'	2'-11.5'	18'	15'	YES	YES	525

PRO-JAX UTILITY SCAFFOLD PACKAGE COMPONENTS

		PACKAGE PART NO.					
8' AND 10' LONG PACKAGES USE SAME COMPONENTS EXCEPT FOR LENGTH		0127-006-0	0127-006-1	0127-006-2	0127-006-3	0127-007-3	0127-007-5
COMPONENTS							
0127-102	39" FRAME						2
0127-101	65" FRAME	2	2	4	6		2
0127-163-06	6' ARM BRACE	2	2	4	6	2	2
0127-108-06	6' DECK	1	1	2	2		
0026-835	5" CASTER W/2 SP	4	4	8	8		
0127-106-06	6' GUARD RAIL		2	2	2		
0127-105	OUTRIGGER NARROW			4			
0127-118	OUTRIGGER WIDE				4		
0068-061	2" SMAP PIN			4	8	4	4
0068-012	2" HINGE PIN		4	4	4		

GUARD RAIL & OUTRIGGER PACKAGES

PART #	DESCRIPTION	SET WEIGHT
0127-149-06	6' COMPLETE GUARD RAIL PKG. (2PCS.)	68
0127-149-08	8' COMPLETE GUARD RAIL PKG. (2PCS.)	80
0127-149-10	10' COMPLETE GUARD RAIL PKG. (2PCS.)	96
0127-150	NARROW OUTRIGGER PACKAGE (4PCS.)	32
0127-151	WIDE OUTRIGGER PACKAGE (4PCS.)	104

ADDITIONAL HEIGHT PACKAGES

PART #	LENGTH	HEIGHT	OVERALL WEIGHT	
0127-007-3	6'	39"	75	When using these packages, remember the need of outriggers and guard railing.
0127-007-5	6'	65"	95	
0127-009-3	8'	39"	83	
0127-009-5	8'	65"	103	
0127-011-3	10'	39"	97	
0127-011-5	10'	65"	123	



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FIBERGLASS LADDERS



Custom imprinting with your company name and logo is available on select lines of Werner ladders. Consult your Newman Representative for details.

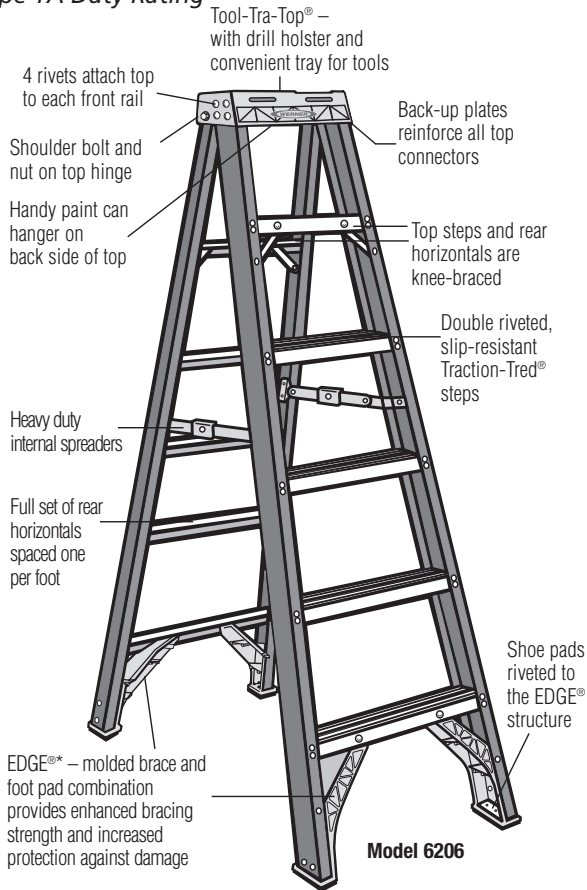
The #1 Brand in Professional Climbing Equipment.

6200 SERIES

STEPLADDERS

XXX300 lbs. LOAD CAPACITY

Combined Weight Of User And Materials
Type 1A Duty Rating



Model 6206

* Energy Diffusing GEometry

- Every rivet backed up by metal part or washer to protect rails
- Optional yellow molded pail shelf kit, model no. 76-2

SPECIFICATIONS

Model No.	Size	Approx. Width	Approx. Spread	Approx. Cu. Ft. Per Unit	Approx. Shipping Wt. Lbs.
6203	3'	18-1/8"	23-1/8"	2.0	13.0
6204	4'	19-7/8"	29"	3.0	16.0
6205	5'	21-5/8"	35-1/8"	4.1	19.0
6206	6'	23-3/8"	41-1/4"	5.3	22.0
6207	7'	25-1/8"	47-1/2"	6.6	26.0
6208	8'	26-7/8"	53-5/8"	8.1	30.0
6210	10'	30-3/8"	65-7/8"	12.5	39.0
6212	12'	33-7/8"	78-1/4"	15.0	48.0

DIMENSIONS

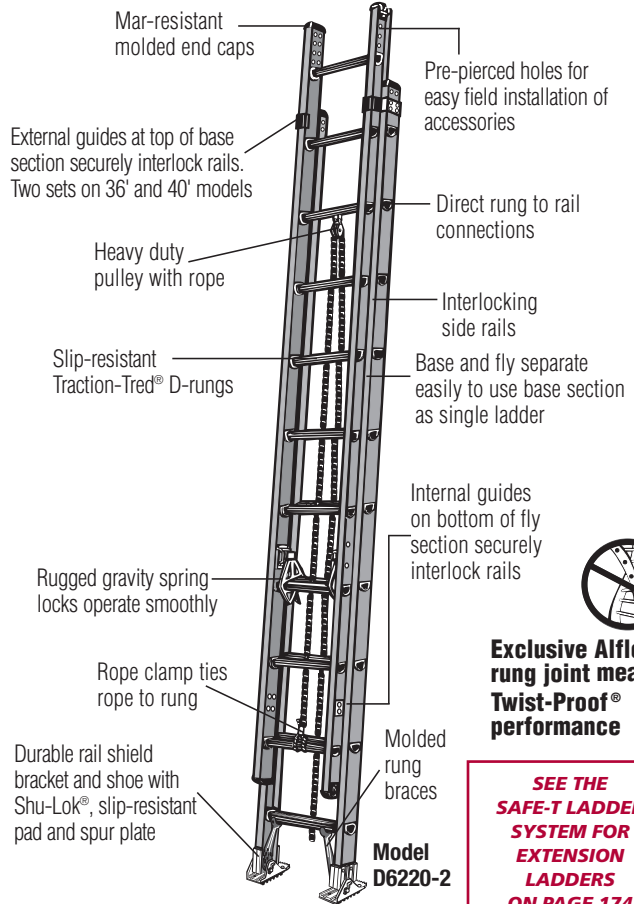
Top: 5-3/4" x 13" Steps: 3" wide
 Front Rails: 3-1/8" wide Rear Rails: 1-7/8" wide
 Flange: 1-3/16" wide Flange: 1-3/16" wide

D6200-2 / D6200-1 SERIES

FLAT D-RUNG EXTENSION LADDERS

XXX300 lbs. LOAD CAPACITY

Combined Weight Of User And Materials
Type 1A Duty Rating



Model D6220-2

Exclusive Alflo® rung joint means Twist-Proof® performance

SEE THE SAFE-T LADDER SYSTEM FOR EXTENSION LADDERS ON PAGE 174

SPECIFICATIONS

Model No.	Total Length Sections	Maximum Working Length	Approx. Cu. Ft. Per Unit	Approx. Shipping Wt. Lbs.	Model No.	Approx. Total Length	Approx. Cu. Ft. Per Unit	Approx. Shipping Wt. Lbs.
D6216-2‡	16'	13'	7.0	36.5	D6208-1	8'	4.7	19.5
D6220-2	20'	17'	8.7	44.5	D6210-1	10'	5.8	23.0
D6224-2	24'	21'	10.3	52.0	D6212-1	12'	6.9	27.0
D6228-2	28'	25'	12.0	59.5	D6214-1	14'	8.0	31.0
D6232-2	32'	29'	13.7	71.5	D6216-1	16'	9.1	37.0
‡ Note: D6216-2 is not equipped with rope and pulley					D6220-1	20'	11.5	45.5
D6236-2	36'	32'	15.3	80.5				
D6240-2	40'	35'	17.0	88.5				

DIMENSIONS

Rails: 3-5/16" wide Fly Width: 16" outside rails
 Flange: 1-3/16" wide Base Width: 19" outside shoes
 Rungs: 1-1/2"

ALUMINUM & WOOD AVAILABLE UPON REQUEST

SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

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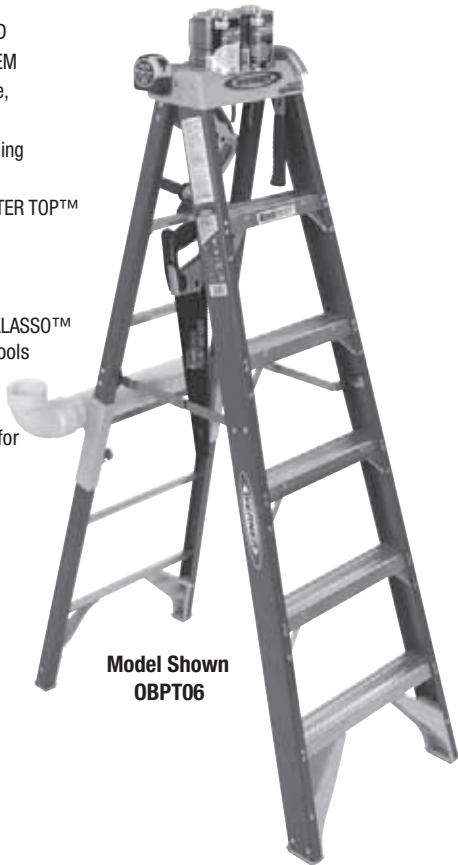
The #1 Brand in Professional Climbing Equipment.

OLD BLUE® SERIES

PIPE TRADE JOBSTATION

XXXXX **375 lbs.** LOAD CAPACITY
Combined Weight Of User And Materials
Type 1AA Duty Rating

- PIPE CUTTING AND ASSEMBLY SYSTEM fits 1/2" to 3" pipe, threaded rod and 1-5/8" metal framing
- PIPE TRADE HOLSTER TOP™ designed to hold tools of the trade
- INTEGRATED TOOLLASSO™ system secures tools from falling
- MULTI-USE HOOK for hanging tools and buckets
- RUGGED PROFESSIONAL GRADE BRACING



Model Shown
OBPT06

SPECIFICATIONS OBPT00 Series

Model No.	Size	Approx. Width	Approx. Spread	Approx. Cu. Ft. Per Unit	Approx. Shipping Wt. Lbs.	Load Capacity
OBPT06	6'	23-3/8"	41-1/4"	5.3	24.0	375 lbs.
OBPT08	8'	26-7/8"	53-5/8"	8.1	32.0	375 lbs.

DIMENSIONS

TOP: 5-3/4" x 13" wide	STEPS: 3" wide
FRONT RAILS: 3-1/8" wide	REAR RAILS: 1-7/8" wide
FLANGE: 1-3/16" wide	FLANGE: 1-3/16" wide

ELECTRICIAN'S JOBSTATION

XXXXX **375 lbs.** LOAD CAPACITY
Combined Weight Of User And Materials
Type 1AA Duty Rating

- CUSTOMIZED HolsterTop™ secures tools from falling
- CONVENIENT conduit cutting system
- BUILT-IN wire spool holders for both large and small spools
- RUGGED professional grade bracing



Model Shown
OBEL06

SPECIFICATIONS OBEL00 Series

Model No.	Size	Approx. Width	Approx. Spread	Approx. Cu. Ft. Per Unit	Approx. Shipping Wt. Lbs.	Load Capacity
OBEL04	4'	19-7/8"	29"	3.0	16.0	375 lbs.
OBEL06	6'	23-3/8"	41-1/4"	5.3	24.0	375 lbs.
OBEL08	8'	26-7/8"	53-5/8"	8.1	32.0	375 lbs.
OBEL10	10'	30-3/8"	65-7/8"	12.5	41.0	375 lbs.
OBEL12	12'	33-7/8"	78-1/4"	15.0	51.5	375 lbs.

DIMENSIONS

TOP: 5-3/4" x 13" wide	STEPS: 3" wide
FRONT RAILS: 3-1/8" wide	REAR RAILS: 1-7/8" wide
FLANGE: 1-3/16" wide	FLANGE: 1-3/16" wide



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FIBERGLASS LADDERS



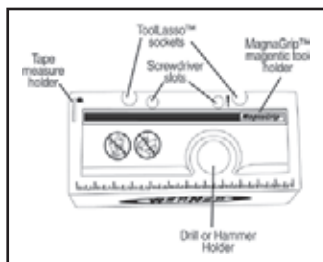
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OLD BLUE® SERIES

CONTRACTOR'S JOBSTATION

XXXXX **375 lbs. LOAD CAPACITY**
Combined Weight Of User And Materials
Type 1AA Duty Rating



Model Shown
OBCN00

- MAGNAGRIP™ heavy duty magnet secures hardware
- CONTRACTOR'S HOLSTERTOP™ keeps tools in easy reach
- INTEGRATED TOOLLASSO™ system secures tools from falling
- MULTI-USE HOOK for hanging tools and buckets
- RUGGEDPROFESSIONAL GRADE BRACING

SPECIFICATIONS OBCN00 Series

Model No.	Size	Approx. Width	Approx. Spread	Approx. Cu. Ft. Per Unit	Approx. Shipping Wt. Lbs.	Load Capacity
OBCN06	6'	23-3/8"	41-1/4"	5.3	23.0	375 lbs.
OBCN08	8'	26-7/8"	53-5/8"	8.1	31.0	375 lbs.

DIMENSIONS

TOP: 5-3/4" x 13" wide	STEPS: 3" wide
FRONT RAILS: 3-1/8" wide	REAR RAILS: 1-7/8" wide
FLANGE: 1-3/16" wide	FLANGE: 1-3/16" wide

97 SERIES

FIBERGLASS STEP LADDER

For Heavy Professional Use

300 lbs. LOAD CAPACITY
Combined Weight Of User And Materials
Type 1A Duty Rating



Model Shown
976

- Multi-functional top with tool and paint can holders
- 4 rivets attach top to each front rail
- Shoulder bolt and nut on top hinge
- Internal galvanized spreaders
- Full set of rear horizontals spaced one per foot
- Bottom horizontal only is braced on 6' model
- Galvanized steel rail sheilds with slip-resistant foot pads on front and rear rails
- Back-up plates reinforce all top connectors
- All steps (except top) are knee-braced
- Double riveted, slip-resistant steps
- Double braces on bottom step

* Every rivet backed up by metal part or washer to protect rails

SPECIFICATIONS

Model No.	Size	Approx. Width	Approx. Spread	Approx. Cu. Ft. Per Unit	Approx. Shipping Wt. Lbs.
974	4'				
976	6'	22"	41-1/4"	5.3	21.0
978	8'	25"	53-5/8"	8.1	29.0
970	10'	28"	65-7/8"	12.5	37.0
972	12'	31"	78-1/4"	15.0	47.0

DIMENSIONS

TOP: 5-3/4" x 13" wide	STEPS: 3" wide
FRONT RAILS: 3-1/8" wide	REAR RAILS: 1-7/8"
FLANGE: 1-3/16" wide	FLANGE: 1-3/16"

SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

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STORAGE AND HANDLING ACCESSORIES



SAFE-T LADDER SYSTEM

- This patented system allows for safe and easy access to rooftops
- Easily attaches to most standard extension ladders
- Made with high strength and lightweight aluminum
- Makes compliance with OSHA's ladder regulation a snap

CAT. NO.	DESCRIPTION
GFP-10800	Ladder Rail Extension



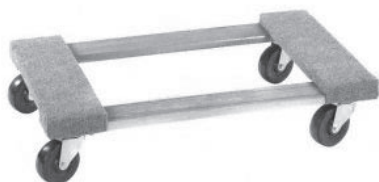
COIL CHAIN

- Bright Zinc
- Chromate Proof

TRADE SIZE	WORKING LOAD LIMIT	APPROXIMATELY 100 LBS. DEALER PACK FT / PACK
3/16"	750 lbs.	250
1/4"	1,250 lbs	133
5/16"	1,950 lbs	92
3/8"	2,650 lbs.	66
1/2"	4,500 lbs.	--

FURNITURE DOLLY

- Material: Wood with Carpet Pads
- Size: 18" L x 30" W
- Load Capacity: 900 lbs.
- Casters: 4 inch swivel



HT-600 HEAVY DUTY HAND TRUCK

- 600 Lb. Capacity
- Tubular rust resistant steel frame
- High strength steel toe plate
- Curved steel straps to handle cylindrical objects



LAMINATED STEEL PADLOCKS 4-PIN TUMBLER

Maximum security laminated steel locks. 2" wide. Hardened steel shackle, inside vertical clearance 1", horizontal 15/16". Dual steel leers independently lock each shackle leg. 2 embossed brass keys; thousands of key changes available. Individually boxed.

CAT. NO.	DESCRIPTION
5	Standard
5LF	Standard 1-1/2" long shackle
5LJ	Standard 2-1/2" long shackle
5KA	Keyed alike
5KALF	Keyed alike 1-1/2" long shackle
5KALJ	Keyed alike 2-1/2" long shackle



CASTER SETS

For use on skid mounted units. Order casters by size and weight. A Complete Set contains two swivel and two rigid with mounting bolts.

CAT. NO.	DESCRIPTION
42KT	4" SET
62KT	6" SET



Hello, Newman!

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is one call away
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NEWMAN ASSOCIATES
THE CONSTRUCTION SUPPLY SPECIALIST . . . WHERE SERVICE COMES FIRST



JOBSITE STORAGE EQUIPMENT



FLAT TOP BOXES

- Flat-top design provides more storage capacity for tall, bulky items, plus a large work surface for jobsite plans
- Gas springs allow easy opening and closing
- Double-hinged cover folds up and locks out of the way
- Dual recessed and concealed lock protectors
- Two steel shelves with lip to prevent items from rolling off
- Channel reinforcements on lid lock side panels into lid
- Large fold-down recessed handles for convenient lifting



CAT. NO.	CAP.	DIMENSIONS (IN.)			WGT. LBS.
		A	B	C	
3360	34.5'	33	60	30	256
4648	49'	48	48	30	292
4860	50'	48	60	30	305

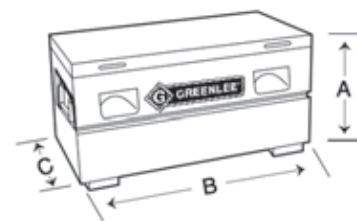
Accessories - Casters

CAT. NO.	DESCRIPTION	DIMENSIONS (IN.)		CAP. LBS.	SHIP WGT. LBS.
		WHEEL DIA. IN.	WHEEL THREAD IN.		
666	2 Ridgid, 2 Swivel	4	2	400	13
695	2 Ridgid, 2 Swivel	4	2	375	10
694	4 Swivel	4	2	400	13



MOBILE STORAGE BOXES

- Easy mobility for jobsite or shop use
- Built-in pretapped skids for easy caster installation
- Large fold-down recessed handles for convenient lifting
- Dual recessed and concealed lock protectors for maximum security against drilling and cutting lock
- Heavy-duty piano hinges with nonremovable pin
- Steel support arms to hold lid in upright position



CAT. NO.	CAP.	DIMENSIONS (IN.)			WGT. LBS.
		A	B	C	
1332	4.9'	14	32	19	83
1636	6.7'	17	36	19	99
2142	9.7'	20	42	20	113
2448*	16'	24	48	24	146
2460*	20'	24	60	24	182
3048*	25'	30	48	30	183

Accessories - Casters

CAT. NO.	DESCRIPTION	DIMENSIONS (IN.)		CAP. LBS.	SHIP WGT. LBS.
		WHEEL DIA. IN.	WHEEL THREAD IN.		
666	2 Ridgid, 2 Swivel	4	2	400	13
695	2 Ridgid, 2 Swivel	4	2	375	10
694	4 Swivel	4	2	400	13

* Includes convenient storage on back wall for small items.

DOUBLE-DOOR UTILITY CABINET WITH LOCK PROTECTOR

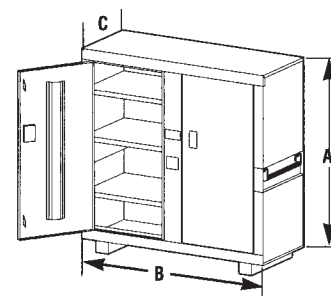
- Flush mounted doors • Concealed lock protector provides maximum security
- Large fold-down recessed handles for convenient lifting • Secure storage with easy access



CAT. NO.	CAP.	DIMENSIONS (IN.)			WGT. LBS.
		A	B	C	
5660L	46'	56	60	24	401

Accessories - Casters

CAT. NO.	DESCRIPTION	DIMENSIONS (IN.)		CAP. LBS.	SHIP WGT. LBS.
		WHEEL DIA. IN.	WHEEL THREAD IN.		
503	4 Swivel	6	2	500	22
603	2 Ridgid, 2 Swivel	6	2	500	20





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JOBSITE STORAGE EQUIPMENT



CLASSIC® STORAGE CHESTS

KNAACK CLASSIC Storage Chests provide versatile storage options for all applications and industrial needs. The one-time lock install and recessed lock housing keep your lock in place and protected from bolt cutters. KNAACK CLASSIC Storage Chests also feature 16-gauge steel body construction and fully arc-welded seams for added strength. The built-in tool tray, 12-gauge caster-ready skids and recessed side handles make KNAACK CLASSIC Storage Chests convenient and easy to use for any job or jobsite.



Model 3068

Dimensions: H: 37" W: 30" L: 60" • Weight : 225 lbs. • Cubic feet: 31

- This lightweight storage chest makes it useful for all applications and security level needs.
- One-Time Lock Installation
- Built-in Tool Tray

STORAGEMASTER® CHESTS

The KNAACK® Line of STORAGEMASTER® Flat Top Boxes offer the same industry-leading protection as other STORAGEMASTER Chests, but with a unique folding "piano hinge" door that opens to allow easier access to all tools. As one of the most versatile storage solutions available, these boxes offer up to 57.5 cubic feet of space. One model even features a ramp for roll-up access, affording greater storage flexibility on the jobsite. STORAGEMASTER Flat Top Boxes keep you protected with the WATCHMAN® IV Lock System, the strongest single deadbolt-style locking mechanism. Heavy-duty 16-gauge steel body construction and fully arc-welded seams provides durable security all day and all nightlong.



ALL MODELS FEATURE:

- WATCHMAN® IV Lock System
- Strong deadbolt style locking mechanism for ultimate security
- 16 gauge steel body with fully arc welded seams for extra strength and weather protection.

Model 69

Dimensions: H: 34" W: 30" L: 60"
Weight: 282 lbs. • Cubic feet: 35.3
Closed Height: 37" • Open Height: 66"

Model 89

Dimensions: H: 46" W: 30" L: 60"
Weight: 337 lbs. • Cubic feet: 47.8
Closed Height 49 • Open Height 78

Model 79

Dimensions: H: 46" W: 30" L: 48"
Weight: 287 lbs. • Cubic feet: 38.2
Closed Height: 49" • Open Height: 78"

Model 90

Dimensions: H: 46" W: 30" L: 72"
Weight: 380 lbs. • Cubic feet: 57.5
Closed Height: 49" • Open Height: 78"



JOBSITE STORAGE EQUIPMENT



SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

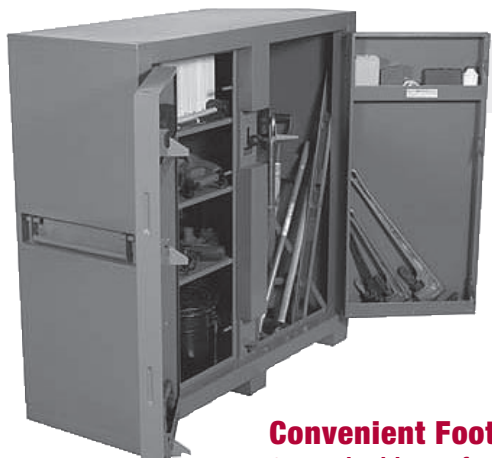
FASTENERS & THREADED ROD

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SPECIALTY ITEMS SERVICES & DATA

JOBMASTER® CABINETS

Available in a broad range of configurations, KNAACK® Tool Cabinets are engineered to Be used at strategic points around large jobsites. Convenient, variable features include hinged desk areas, additional shelves, brackets and foot latches.



ALL MODELS FEATURE:

- The only jobsite storage cabinet offering the strongest deadbolt style locking mechanism for ultimate security.

Model 111

Dimensions: H: 60" W: 24" L: 60"

Weight: 385 • Cubic feet: 47.5

- Top Shelf 13"
- Second Shelf 12-1/4"
- Bottom Shelf 9-1/2"
- WATCHMAN® IV Lock System

Model 109

Dimensions: H: 60" W: 24" L: 60"

Weight: 394 • Cubic feet: 47.5

- Top Shelf 14"
- Second Shelf 10"
- Bottom Shelf Adjustable

Model 139

Dimensions: H: 60" W: 30" L: 60"

Weight (lbs.): 445 • Cubic feet: 59.4

- Top Shelf 14"
- Second Shelf 10"
- Bottom Shelf Adjustable

Convenient Foot Latch!

One push with your foot and the doors will pop open.

JOBMASTER® CHESTS

JOBMASTER® Chests offer secure and durable tool storage solutions that are easy to handle, and can be moved around the jobsite or into a work vehicle with minimal effort. As the strongest single deadbolt-style locking mechanism, the WATCHMAN® IV Lock System keeps all your tools safely protected. Piano Boxes are available in a variety of sizes that feature 16-gauge steel body construction and fully arc-welded seams for added strength. Complete with 12-gauge caster-ready skids, seven-gauge cover tangs and ergonomically designed recessed handles, JOBMASTER® Chests are designed to keep your jobsite organized and secure so that you can be more efficient.



ALL MODELS FEATURE:

- WATCHMAN® IV Lock System • 12 Gauge Caster Ready Skids • Reinforced Deeper Cover

Model 4830

Dimensions: H: 29" W: 30" L: 48"

Weight: 194 lbs. • Cubic feet: 25.25

Closed Height: 34-1/4" • Open Height: 61-1/4"

Accessory Tray Model 3

Model 2472

Dimensions: H: 23" W: 24" L: 72"

Weight: 216 lbs. • Cubic feet: 24.5

Closed Height: 28-1/8" • Open Height: 49-1/4"

Accessory Tray Model 21

Model 42

Dimensions: H: 18" W: 19" L: 42"

Weight: 114 lbs. • Cubic feet: 9

Closed Height: 23-3/8" • Open Height: 39-3/8"

Accessory Tray Model 41

Model 36

Dimensions: H: 16" W: 19" L: 36"

Weight: 97 lbs. • Cubic feet: 7

Closed Height: 21-3/8" • Open Height: 37-3/8"

Accessory Tray Model 41

Model 4824

Dimensions: H: 23" W: 24 L: 48"

Weight: 158 • Cubic feet: 16

Closed Height 28-1/4"

Open Height 49-1/4"

Accessory Tray Model 21"

Model 60

Dimensions: H: 23" W: 24" L: 60"

Weight: 190 lbs. • Cubic feet: 20.25

Closed Height: 28-1/4" • Open Height: 49-1/4"

Accessory Tray Model 21

Model 32

Dimensions: H: 13" W: 19" L: 32"

Weight: 84 lbs. • Cubic feet: 5

Closed Height: 18-3/8" • Open Height: 34-3/8"

Accessory Tray Model 41



(800) 733-0089 • (781) 329-4000 • FAX: (781) 326-4757

JOBSITE STORAGE EQUIPMENT

JOBOX[®]

12-Gauge Steel Lock Console with Three Locking Points

Site-Vault™ with Bolt Cutter Proof Lock Housing

Fully Welded Padlock Housing

Grip Rite™ Channel

Formed Lid Sides Welded to Lid Bolster

Full-Length "A-Frame" Lid Bolster

Fully Staked and Welded 3/8" Hinge with 1/4" Pin and 1" Knuckles

1" Locking Arms

Welded Corner Gussets Reinforce Body

Recessed Handles

Uses 5/16" Self-Tapping Screws for Caster Installation

EZ-Loader™ Skid Bolster

Formed-In Reinforcements Strengthen Skid Bolsters

Full-Length Reinforcing Channel

7-Gauge One-Piece Steel Bolster with Caster Holes



Heavily Reinforced Lid

Lid Bolster resists bending from cargo placed on top of the box and from attempted break-ins.



Grip Rite Channels

Easy to grip the lid when wet or wearing gloves. Also provides lid reinforcement.



Recessed Handles

Extra tall and deep recess areas prevent pinched fingers and damage to the handle.



Staked and Welded Hinges

Rugged 14-Gauge steel, 3/8" continuous hinge with 1/4" steel pin and extra large 1" knuckles. Staked and welded pin cannot be driven out. 3" horseshoe weld on both hinges.



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JOBSITE STORAGE EQUIPMENT



SITE-VAULT SECURITY SYSTEM

50% more locking points than competitive locking systems

3 Point lock engagement is virtually impossible to bend or pry open



EZ-LOADER SKID BOLSTERS

Fork lift from any side

7-Gauge, on-piece, steel bolster resists damage when dropped



Heavy-Duty Chest



Piano Lid Box



Field Office

MODEL #	UPC	L	W	H	USABLE CU. FT.	SHIPPING CU. FT.	SHIPPING WT. LBS.
		Dimensions shown in inches.					

HEAVY-DUTY CHESTS

1-652990	0-43419-93110-7	36	20	23-3/4	8.3	10.0	98.0
1-653990	0-43419-93111-4	42	20	23-3/4	9.3	13.8	118.0
1-654990	0-43419-93112-1	48	24	27-3/4	15.4	22.3	148.0
1-655990	0-43419-93113-8	60	24	27-3/4	19.3	27.3	182.0
1-656990	0-43419-93114-5	48	30	33-3/8	24.3	33.3	190.0
1-658990	0-43419-93115-2	72	24	27 3/4	23.2	30.9	220.0

MODEL #	UPC	L	W	H	USABLE CU. FT.	SHIPPING CU. FT.	SHIPPING WT. LBS.
		Dimensions shown in inches.					

PIANO LID BOXES

1-681990	0-43419-93117-6	48	31	50	38.0	49.0	286.0
1-682990	0-43419-93118-3	60	31	50	47.5	60.0	326.0
1-688990	0-43419-93119-0	60	31	38	34.5	45.0	283.0
1-689990	0-43419-93120-6	74	31	50	65.5	73.0	423.0

HIGH-CAPACITY PIANO LID BOX

1-685990	0-43419-93213-5	74.5	35.5	60.25	85.7	92.2	500.0
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DROP FRONT PIANO LID BOX

1-683990	0-43419-93151-0	60	30	50	47.5	60.0	405.0
1-684990	0-43419-93152-7	74	30	50	56.5	73.0	468.0

MODEL #	UPC	L	W	H	USABLE CU. FT.	SHIPPING CU. FT.	SHIPPING WT. LBS.
		Dimensions shown in inches.					

FIELD OFFICE

1-674990	0-43419-93121-3	63	42	80	104.0	123.5	660.0
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SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA

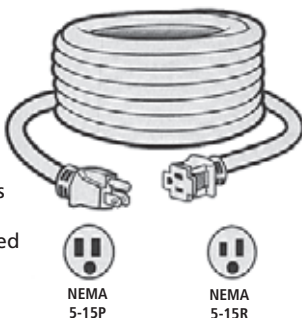


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EXTENSION CORDS

OUTDOOR VINYL EXTENSION CORDS

PRIME® round vinyl extension cords are designed for use by contractors and industrial personnel. NUFLEX-2™ jacket protects against rough use, chemicals, moisture, ozone and gives added flexibility at below freezing temperatures. Molded-on and bonded vinyl plugs and connectors resist breaking or pulling off cord.



3 Conductor SJTW-A, 300 volts grounding

PRODUCT NUMBER	LENGTH FT.	AWG	AMPS	WATTS	COLOR	PRODUCT PACKAGING
HEAVY DUTY						
EC 501730◆	50	14/3	15	1875	Orange	Sleeve
EC 501735◆	100	14/3	13	1625	Orange	Sleeve

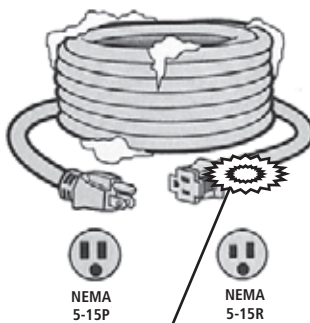
EXTRA HEAVY DUTY

EC 500825	25	12/3	15	1875	Yellow	Sleeve
EC 500830	50	12/3	15	1875	Yellow	Sleeve
EC 500835	100	12/3	15	1875	Yellow	Sleeve

◆ UL LISTED, but not C-UL listed.

ARCTIC BLUE™ ALL-WEATHER TPE-RUBBER EXTENSION CORDS

ARCTIC BLUE™ all-weather PRIME-FLEX-2™ TPE-rubber extension cords are designed for use by contractors and industrial personnel, providing an all weather cordset made for outstanding performance in extreme climate conditions at temperatures from -58°F to +221°F. One-third lighter than ordinary cords, ARCTIC BLUE™ TPE-rubber cords provide superior resistance to sunlight, ozone, cracking, oils and chemicals, and are outstanding in resistance to abuse, rough handling and wear. PRIME® has added a distinctive orange stripe extruded into the cord and matching orange connectors to enhance visibility.



3 Conductor SJEOW-A, 300 volts grounding

PRODUCT NUMBER	LENGTH FT.	AWG	AMPS	WATTS	COLOR	PRODUCT PACKAGING
EXTRA HEAVY DUTY						
LT 530830	50	12/3	15	1875	Blue/Orange	Sleeve
LT 530835	100	12/3	15	1875	Blue/Orange	Sleeve

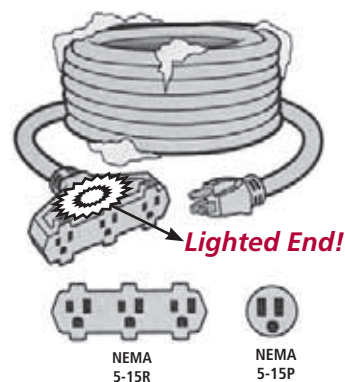
ULTRA HEAVY DUTY

LT 530930	50	10/3	15	1875	Blue/Orange	Box
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ARCTIC BLUE™ ALL-WEATHER TRIPLE TAP TPE-RUBBER EXTENSION CORDS

ARCTIC BLUE™ all-weather PRIME-FLEX-2™ TPE-rubber triple tap extension cords are designed for use by contractors and industrial personnel, providing an all weather cordset made for outstanding performance in extreme climate conditions at temperatures from -58°F to +221°F. Provides multi-outlet service centers where needed. ARCTIC BLUE™ TPE-rubber cordsets offer superior resistance to ozone, oils, chemicals and rough handling under the most severe operating conditions. PRIME® has added a distinctive orange stripe extruded into the cord and matching orange connectors to enhance visibility.

PRIME®
wire and cable



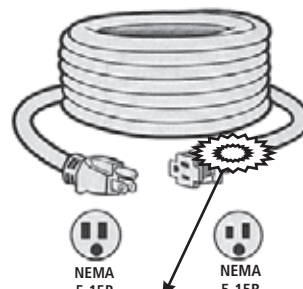
3 Conductor SJEOW-A, 300 volts grounding

PRODUCT NUMBER	LENGTH FT.	AWG	AMPS	WATTS	COLOR	PRODUCT PACKAGING
EXTRA HEAVY DUTY						
LT 630835	100	12/3	15	1875	Blue/Orange	Sleeve

Neon PRO™

EXTENSION CORDS

PRIME® Neon Pro™ extension cords combine all the features of our standard vinyl outdoor extension cords with ultra-high-visibility fluorescent colors that have to be seen to be believed. These cords are brighter than our Kaleidoscope-of-Colors™ cords and are extremely shiny as well.



3 Conductor SJTW, 300 volts grounding

PRODUCT NUMBER	LENGTH FT.	AWG	AMPS	WATTS	COLOR	PRODUCT PACKAGING
EXTRA HEAVY DUTY						
NS 500830	50	12/3	15	1875	Neon Yellow	Sleeve
NS 500835	100	12/3	15	1875	Neon Yellow	Sleeve
NS 501830	50	12/3	15	1875	Neon Orange	Sleeve
NS 501835	100	12/3	15	1875	Neon Orange	Sleeve
NS 502830	50	12/3	15	1875	Neon Green	Sleeve
NS 502835	100	12/3	15	1875	Neon Green	Sleeve
NS 503830	50	12/3	15	1875	Neon Pink	Sleeve
NS 503835	100	12/3	15	1875	Neon Pink	Sleeve



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CORDS, ADAPTERS & WORKLIGHTS **PRIME** wire and cable

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CONTRACTOR
SUPPLIES

HANGERS
& STRUT

FASTENERS &
THREADED ROD

CONCRETE
ANCHORS

SPECIALTY ITEMS
SERVICES & DATA

PORTABLE DUPLEX OUTLET G.F.C.I. JUNCTION BOX

PRIME® professional grade portable Ground Fault Circuit Interrupter junction boxes provide professional contractors and industrial users with added safety wherever electrical tools are used. G.F.C.I.s protect user from electrical shock due to ground faults caused by faulty tools or appliances. Available with 6 foot 12/3 extra heavy duty round power supply cord and overload circuit breaker. Features two grounded convenience outlets.

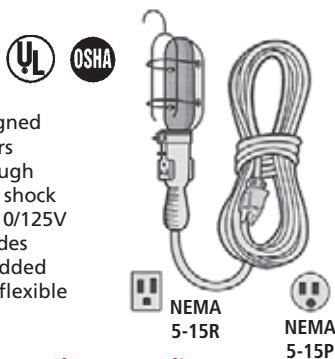


3 Conductor SJTW-A, 300 volts grounding

PRODUCT NUMBER	LENGTH FT.	AWG	AMPS	WATTS	COLOR	PRODUCT PACKAGING
GF 200806	6	12/3	15	1875	Yellow	Box

METAL GUARD WORK LIGHTS

PRIME® work lights are designed for rugged use by contractors and industrial personnel. Tough plastic handles are heat and shock resistant, with switch and 110/125V grounding side outlet. Includes grounded metal shade for added brightness and safety. Stays flexible at low temperatures.



3 Conductor SJTW-A, 300 volts grounding

PRODUCT NUMBER	LENGTH FT.	AWG	AMPS	WATTS	COLOR	PRODUCT PACKAGING
TL 010625	25	16/3	13	1625	Orange	Sleeve
TL 010630	50	16/3	13	1625	Orange	Sleeve

ARCTIC BLUE™ ALL-WEATHER METAL GUARD WORK LIGHTS

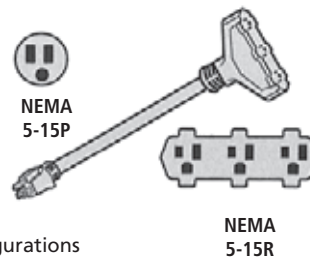
PRIME® all-weather TPE-rubber work lights are designed for use by contractors and industrial personnel, providing outstanding performance in extreme climate conditions at temperatures from -58°F to +221°F. One-third lighter than ordinary jackets, PRIME-FLEX-2™ TPE-rubber cords provide superior resistance to sunlight, ozone, oils and chemicals, and are outstanding in resistance to rough handling and wear under the most severe operating conditions. Tough plastic handles are heat and shock resistant, with switch and 110/125V grounding side outlet. Includes grounded metal shade for added brightness and safety.

3 Conductor SJEOW-A, 300 volts grounding

PRODUCT NUMBER	LENGTH FT.	AWG	AMPS	WATTS	COLOR	PRODUCT PACKAGING
TL 020625	25	16/3	13	1625	Blue/Orange	Sleeve
TL 020630	50	16/3	13	1625	Blue/Orange	Sleeve

VINYL POWER BLOCKS & ADAPTERS

PRIME® professional power blocks and adapters are designed to give professional contractors and industrial personnel maximum flexibility in arranging portable power needs at the job site, providing various connector configurations for heavy duty use. All are solid molded on NUFLEX-2™ vinyl connectors for high resistance to breakage and abuse.



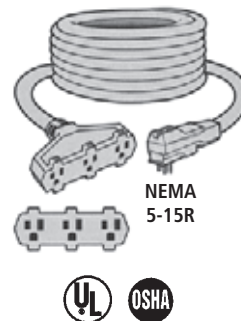
Triple Tap Adapter STW-A, "Double Jacket"

Converts a single 15A, 125V U-ground outlet to three 15A, 125V U-ground outlets

PRODUCT NUMBER	LENGTH FT.	AWG	AMPS	WATTS	COLOR	PRODUCT PACKAGING
AD 050802	2	12/3	15	1875	Yellow	Sleeve

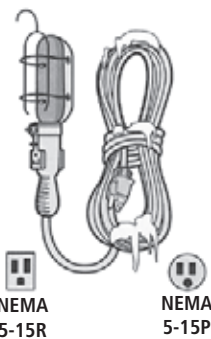
G.F.C.I. OUTDOOR VINYL TRIPLE TAP EXTENSION CORDS

PRIME® professional grade round vinyl extension cords are designed for use by contractors and industrial personnel. High visibility NUFLEX-2™ jacket protects against rough use, oil, grease, chemicals, moisture, ozone and gives added flexibility at below freezing temperatures. Molded-on and bonded vinyl female connectors and mechanical G.F.C.I. male plug.



3 Conductor SJTW-A, 300 volts grounding

PRODUCT NUMBER	LENGTH FT.	AWG	AMPS	WATTS	COLOR	PRODUCT PACKAGING
GF 420802	2	12/3	15	1875	Yellow	Carton



Distinguish your extension cords from all the others!

Ask Your
Newman Representative
About The Personalized
Extension Cord Program

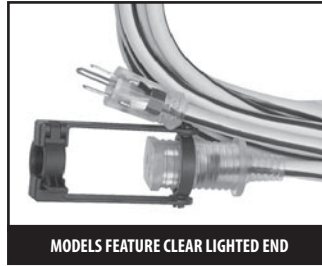


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INNOVATIVE ELECTRICAL & LIGHTING PRODUCTS



- Securely connects power cords to stop annoying, unwanted disconnects
- A power indicator light, included on some items, to ensure power is on



MODELS FEATURE CLEAR LIGHTED END



LOCKS TO ITSELF WHEN NOT IN USE

Custom Imprinting Available

Have your name and phone number printed directly on the cord!

Various options are available for imprinting and even indented type for striped cords.

Contact your Newman representative for more information.

3-CONDUCTOR 300V EXTENSION CORDS, SJTW W/ LIGHTED END

ITEM NO	CORD LENGTH	GAUGE	WIRE TYPE	WIRE COLOR	APPROVAL	OUTLETS	PLUG TYPE	RECEPTACLE TYPE	POWER RATING		SHIPPING		UPC	
									AMPS	WATTS	PACK	WEIGHT		CUBE
05-00106	50ft	12/3	SJTW	YLW/BLU	CULUS	1	5-15P	5-15R	15	1875	4	26.90	0.752	00106-3



MBL CAGELITE MAGNET MAGNETIC BASE LIGHT

Features 500W Quartz Light with a 100 lb. pull magnet

REPLACEMENT LIGHT BULBS

ROUGH SERVICE BULBS

CATALOG NO.	DESCRIPTION	QTY.
VI-08-00028	100 Watt - 'A' Bulb	1
VI-08-00029	75 Watt - 'A' Bulb	1



HALOGEN BULBS

CATALOG NO.	DESCRIPTION	QTY.
VI-08-00031	500 Watt	1



IGNITORS

CATALOG NO.	DESCRIPTION	PKG. QTY.
ORS-322-1501	Shurelite Spark Lighter	1
ORS-322-3011X	Single Flint Replacement	5

THER-38-0309-00	Flint Ignitor (Gun Style)	1
THER-38-0309-01	Single Flint Replacement	5



SAFETY PRODUCTS
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LUMA-SITE® HALOGEN WORK LIGHTS

When the job must go on, rely on Coleman's Luma-Site® to light the way. For the times when the weather does not cooperate or the job goes on into the night, be prepared...Make Luma-Site® part of your everyday tool list. When the job is done, Coleman's halogen lights are easily transported from site-to-site and collapse for easy storage.

PREMIUM SERIES

Coleman Cable's Premium Series halogen lights feature heads for better lighting and heavy gauge steel guards to resist damage.



07765



07766



HALOGEN REPLACEMENT PARTS

CAT NO	DESCRIPTION
07819	Glass for part numbers 07765 and 07766
07880	500W halogen bulb

ALL REPLACEMENT PARTS SOLD INDIVIDUALLY

CAT NO	DESCRIPTION	MASTER PACK	MASTER WT	MASTER PACK CUBE
07764	500W halogen light, tripod base, pivoting head, on / off switch, orange	2	38	3.28
07765	500W halogen light, hand-held, padded handle, sled base, on /off switch, orange	6	38	.42
07766	500W/1000W pivoting head, halogen light, tripod base, on / off switch, orange, bulb storage compartment and 600W halogen bulb included	2	41	3.49

CORD-O-LITE™ TEMPORARY LIGHTING



07538

CORD-O-LITE™

Our most rugged lighting system. Heavy duty 12/3 SJTW (yellow) cord with molded light sockets. Accommodates A-23 type bulbs up to 150 watts. Available with easy-open plated metal lamp guards, or snap-on plastic guards. Standard 15 amp molded or 20 amp locking ends.

CAT NO	LENGTH IN FT	DESCRIPTION	GUARD	NEMA PLUG	NEMA RECEPTACLE	COMPLIANCE	MASTER PACK	MASTER WT	MASTER PACK CUBE
15 AMP									
07538	50	12/3 SJTW 300v	*Coated METAL	5-15P	5-15R	UL; NEC; OSHA	1	11	1.2
07539	100	12/3 SJTW 300v	*Coated METAL	5-15P	5-15R	UL; NEC; OSHA	1	27	1.97
07548	50	12/3 SJTW 300v	Plastic	5-15P	5-15R	UL; NEC; OSHA	1	9	1.20
07549	100	12/3 SJTW 300v	Plastic	5-15P	5-15R	UL; NEC; OSHA	1	25	1.97
07598	50	12/3 SJTW 600v	*Coated METAL	5-15P	5-15R	UL/CSA; NEC; OSHA	1	16	1.20
07599	100	12/3 SJTW 600v	*Coated METAL	5-15P	5-15R	UL/CSA; NEC; OSHA	1	30	1.97
20 AMP									
07558	50	12/3 SJTW 300v	*Coated METAL	L5-20P	L5-20R	UL; NEC; OSHA	1	12	1.20
07559	100	12/3 SJTW 300v	*Coated METAL	L5-20P	L5-20R	UL; NEC; OSHA	1	27	1.97
07568	50	12/3 SJTW 300v	Plastic	L5-20P	L5-20R	UL; NEC; OSHA	1	9	1.20
07569	100	12/3 SJTW 300v	Plastic	L5-20P	L5-20R	UL; NEC; OSHA	1	25	1.97
07588	50	12/3 SJTW 600v	*Coated METAL	L5-20P	L5-20R	UL/CSA; NEC; OSHA	1	16	1.20
07589	100	12/3 SJTW 600v	*Coated METAL	L5-20P	L5-20R	UL/CSA; NEC; OSHA	1	30	1.97



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PORTABLE BLOWERS, FAN AND HEATER



STANDARD



SWIVEL

DIRECT DRIVE PORTABLE BLOWERS

Size 36" & 42"
Motor 2-speed on 36" model,
 1 speed on 42" model,
 Single Phase, 115 Volt,
 ball bearing, 1050 rpm,
 permanently lubricated,
 totally enclosed, PSC type
Switch Rocker
Cord SJT type 3 conductor, 15' long
Blade 3 paddle steel
Guards Spiral wire - front and rear

Meets OSHA Standards • UL Listed

ASK YOUR NEWMAN REPRESENTATIVE ABOUT OTHER SIZES AND STYLES ALSO AVAILABLE.

Blade Size	Fan Type	Motor Hp	Model No.	Cfm High	Cfm Low	Amps (High)
36"	STANDARD	1/3	PB 36-D	12500	9000	5.6
36"	SWIVEL	1/3	PBS 36-D	12500	9000	5.6
42"	STANDARD	1/2	PB 42-D	15,600		7.9
42"	SWIVEL	1/2	PBS 42-D	15,600		7.9



BF-20 BOX FAN

- 20" X 20" Fan
- Quiet and Energy Efficient
- Durable Steel Body
- Excellent Ventilation for any job



ARV-CZ792 COMFORT ZONE DELUXE "MILKHOUSE" UTILITY HEATER

- Fan forced • 750/1500 Watts
- Adjustable thermostat
- Safety tip-over switch
- Carrying handle • Grey Color

FLASHLIGHT AND ALKALINE BATTERIES



ORS-120-2618ML FLASHLIGHT

- 2 Cell Industrial Flashlight with Magnet
- D-Batteries not included



Panasonic INDUSTRIAL ALKALINE BATTERIES

Panasonic Industrial Alkalines are designed with a power reservoir that enables them to last longer. High current and large capacity are standard, which means high performance for our customers. All Panasonic Alkaline batteries are made in the U.S.A. at our state-of-the-art manufacturing facility in Columbus, Georgia.

	CATALOG NO.	DESCRIPTION	PKG. QTY.
• High current	AB-AA2	AA Battery	24
• Large capacity	AB-AAA2	AAA Battery	24
• Stable voltage and current	AB-C2	C Battery	12
• Excellent storage life	AB-D2	D Battery	12
• Excellent resistance to leakage	AB-92	9V Battery	12
• Contains less than 0.0005 Mercury by weight	ORS-620-EVBFL6V-B	6V Battery*	1

*Square Battery with Spring Terminals



WET / DRY VACUUMS



Ridgid's Wet/Dry Vacs feature a new power head design that provides more efficient airflow, better suction and less noise. A lower center of gravity helps to prevent tipping and the Tug-A-Long Positive Locking Hose won't pull out during use. Very maneuverable four swivel casters provides ease of movement when pushed or pulled in any direction.



Includes:
2 Extension Wands,
1-7/8" x 7" Positive
Locking Hose,
Utility Nozzle,
and Pleated Paper Filter

WD0635 6 GALLON WET/DRY VAC

SPECIFICATIONS:

Catalog No.	96877
Gallon Size	6
Motor	Emerson
Peak Horsepower	2.5
Air Watts	160
Voltage	120
Amps	7.3
Cord Length	10'
Construction	High Impact Polypropylene
U.L. Listed	Yes
Replacement Filter	VF4000, VF5000, and VF6000
Accessory Size	1-7/8"
Net Weight	14.6 lbs



Includes:
2 Extension Wands,
2-1/2" x 7" Positive
Locking Hose,
Utility Nozzle,
Wet Nozzle, Car Nozzle,
and Pleated Paper Filter
Treated with Microban®

WD1246 12 GALLON WET/DRY VAC

SPECIFICATIONS:

Catalog No.	96887
Gallon Size	12
Motor	Emerson
Peak Horsepower	5.0
Air Watts	280
Voltage	120
Amps	10.0
Cord Length	15'
Filter Surface Area	1,600 sq. in.
Construction	High Impact Polypropylene
U.L. Listed	Yes
Replacement Filter	VF4000, VF5000, & VF6000
Accessory Size	2-1/2"
Net Weight	18.9 lbs



Includes:
2 Extension Wands,
2-1/2" x 7" Positive
Locking Hose,
Utility Nozzle,
Wet Nozzle, Car Nozzle,
Blower Nozzle and
Pleated Paper Filter
Treated with Microban®

WD1665 16 GALLON WET/DRY VAC

Features Powerful 265 MPH Detachable Blower

SPECIFICATIONS:

Catalog No.	96897
Gallon Size	16
Motor	Emerson
Peak Horsepower	6.5
Air Watts	320
Voltage	120
Amps	12.0
Cord Length	20'
Filter Surface Area	1,600 sq. in.
Construction	High Impact Polypropylene
U.L. Listed	Yes
Replacement Filter	VF4000, VF5000, & VF6000
Accessory Size	2-1/2"
Net Weight	26.3 lbs

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MOTOROLA
BUSINESS
TWO-WAY RADIOS

WORK SMARTER NOT HARDER

Motorola Business Radios increase productivity,
enhance efficiency and improve safety.

Motorola RDX Series™ On-Site Business Two-Way Radios

Motorola's powerful RDX Series provides businesses a competitive communications edge, enhancing employee efficiency and overall profitability. Affordable, durable and easy to use, the RDX Series helps keep operations on schedule and maximize job shift productivity. Performance you can count on with no monthly contracts and no service charges.

ALL MODELS FEATURE:

Exceptional Audio Quality - The RDX Series features up to 2000 mW of audio output, speaker magnetic field reduction, wind-noise reduction and improved RF specifications all which help deliver superior audio quality. **Superior Durability** - Meets Military 810 C,D,E and F and IP54/55 specifications for shock, rain, humidity, salt fog, vibration, sand/dust, temperature shock, high and low temperature. Featuring a metal diecast chassis, the RDX Series will hold up under demanding conditions. **Long Battery Life** - Standard Li-Ion battery for up to 12 hrs per charge, a Ultra high capacity Li-Ion battery for up to 26 hrs per charge, and an optional alkaline battery kit. **Business Exclusive Frequencies** - Operating on 89 UHF or 27 VHF business exclusive frequencies (varies by model) and featuring 122 codes to help ensure a clear signal. **Customer Programming Software** - Quickly identify radio details such as serial number, features, frequency range and more (separate USB cable required). **Additional Features Include** - Scan, manager lock, cloning capability, power select, and more. **Compatibility** - The RDX Series is compatible with the Motorola XTN Series, AX Series, CLS Series and other radios operating on the same frequencies and code.

MODEL SPECIFIC FEATURES.

The chart below indicates model specific features, such as:
Repeater Capability. Need extended range? Select RDX Series models are compatible with duplex repeaters which help provide a much greater coverage area than would be possible communicating in radio to radio mode.

Additional Channels. At the touch of a button, workers or supervisors can change channels to talk with different work groups. Models available with 2, 8, 10 or 16 channels.

Channel Aliasing. Channel aliasing provides the ability to give each channel a user defined name.

Front Panel Programmability. Five programmable buttons give you quick access to features such as priority scan, power select, and keypad lock.

*All Radios include a Li-Ion rechargeable battery, drop in charging tray with power adapter, 3" spring belt clip, users guide and warranty card.

➤ VHF Jobsite Radios - For Use Outdoors

Model No	Transmit Power	# of Channels	Additional Features	Weight	Range Indoors (up to)	Range in Warehouse (up to)
RDV2020	2 Watt	2 Ch.		8.6 oz.	10 floors	220,000 sq. ft.
RDV2080d	2 Watt	8 Ch.	Display, Channel Aliasing, Battery Gauge, Signal Strength Indicator, Front Panel Buttons, Keypad Lock	8.6 oz.	10 floors	220,000 sq. ft.
RDV5100	5 Watt	10 Ch.	Li-ion Ultra Cap Battery (up to 18.5 hrs)	10.3 oz.	18 floors	300,000 sq. ft.

➤ UHF Jobsite Radios - Best Signal/Range for Use Indoors and Outdoors

Model No	Transmit Power	# of Channels	Additional Features	Weight	Range Indoors (up to)	Range in Warehouse (up to)
RDU2020	2 Watt	2 Ch.		8.6 oz.	20 floors	250,000 sq. ft.
RDU2080d	2 Watt	8 Ch.	Display, Channel Aliasing, Battery Gauge, Signal Strength Indicator, Front Panel Buttons, Keypad Lock	8.6 oz.	20 floors	250,000 sq. ft.
RDU4100	4 Watt	10 Ch.	Li-ion Ultra Cap Battery (up to 18.5 hrs)	10.3 oz.	30 floors	350,000 sq. ft.
RDU4160d	4 Watt	16 Ch.	Repeater Capability, Li-ion Ultra Cap Battery (up to 18.5 hrs), Display, Channel Aliasing, Battery Gauge, Signal Strength Indicator, Front Panel Buttons, Keypad Lock	10.3 oz.	30 floors	350,000 sq. ft.

DTR 410 Digital Two-Way Radio

Features Include: Digital technology enables long coverage and clear communication. Frequency hopping prevents interruption. License-free communication. Group calling: one-to-many communication, up to 5 Groups. Unique group name can be created using mini keyboard accessory. Transmitting Unit ID and group name displayed while receiving. Group scan. Backlit display with battery meter and adjustable contrast. Rugged, compact polycarbonate housing with rubber overmold for comfort. Meets military 810 C, D, E and F specifications for shock, vibration, water, dust and temperature extremes. Additional features include Daily Alarm, Caller ID, and recent call list (last 20 transmissions). Accessories included: Lithium ion battery-up to 14.5 hours of operation, 3 hour desktop charger, and swivel carry holster.

Model No	Transmit Power	# of Public Groups	Weight	Range Indoors (up to)	Range in Warehouse (up to)
DTR 410	1 Watt	5	7.1 oz.	25 floors	300,000 sq. ft.

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MOTOROLA

Accessories for Motorola Business Two-Way Radios

Call For Accessories Not Listed



Radio Series	Item #	Description
TWO-WAY RADIO BATTERIES *Call for quantity pricing on 5 or more batteries		
RDX	RLN6306	Alkaline battery frame
RDX	RLN6308	Ultra capacity lithium ion battery (up to 26 hrs. per charge)
RDX	RLN6351	Standard capacity lithium ion battery
AX	PMNN4063AR	NiMH rechargeable battery
XTN	NTN8971BR	NiMH rechargeable battery (same as #53871) 4.8v 1500 mAh
CLS	56557	Li-Ion rechargeable battery
BELT CLIPS/HOLSTERS		
RDX	RLN6302	Leather case with 3" swivel
RDX	RLN6307	Spring action belt clip
AX	HLN9714A	Replacement 3" spring action belt clip
XTN	53821	Replacement plastic holster with swivel belt clip (NNTN4106A)
XTN	MR7000-200	Leather case with belt loop
XTN	MR7000-CAO	Nylon case with belt loop
CLS	56532	Replacement plastic holster with swivel belt clip
CLS	56519	Leather carry case with adjustable shoulder strap
DTR	53961	Replacement swivel belt holster
PLUG-IN CHARGERS		
RDX	RLN4054	Replacement standard plug-in wall charger
XTN	NNTN4077A	Replacement 10-hr plug-in wall charger (53874)
DTR	53969	Replacement standard plug-in wall charger
DESKTOP CHARGERS		
RDX	RLN6304	2-hour rapid charger kit
RDX	RLN6175	Replacement standard charger
AX	RLN4940	Replacement desktop charger (includes plug-in wall charger)
AX	PMTN4087A	Desktop rapid charger (includes plug-in wall charger)
XTN	53872	Replacement 10 hr desktop charger
XTN	53875	2-hr desktop rapid charger (includes plug-in wall charger)
CLS	56553	Desktop charger (includes plug-in wall charger)
DTR	53962	Replacement desktop charger
MULTI-UNIT CHARGERS		
RDX	RLN6309	6-unit charger
XTN	53879	6-unit, 10-hr. charger with cloning capability
CLS	56531	6-unit, 8-hr. charger w/cloning capability, wall mountable
DTR	53960	6-unit charger
HEADSETS WITH MICROPHONE		
RDX, XTN, CLS, AX, M, DTR	53815	Ultralight headset with microphone (Prolite X)
RDX, XTN, CLS, AX, M, DTR	53865	Headset with swivel boom microphone (HMN9038)
RDX, XTN, CLS, AX, M, DTR	ET MAX	Double earmuff headset with noise cancelling mic
EARPIECES WITH MICROPHONE		
RDX, XTN, CLS, AX, M, DTR	53940	Earpiece with in-line clip on microphone
RDX, XTN, CLS, AX, M, DTR	53866	Earbud with clip-on mic and push-to-talk button (HMN9025)
RDX, XTN, CLS, AX, M, DTR	56517	Earpiece with in-line push-to-talk microphone (Procon X)
RDX, XTN, CLS, AX, M, DTR	56518	Earpiece with boom microphone
RDX, XTN, CLS, AX, M, DTR	53863	Earpiece with microphone (HMN9039)
RDX, XTN, CLS, AX, M, DTR	V1-10179	2 wire palm mic (surveillance kit beige)
RDX, XTN, CLS, AX, M, DTR	V1-10180	2 wire palm mic (surveillance kit black)
RDX, XTN, CLS, AX, M, DTR	RMN5114	Lightweight temple transducer NEW
SPEAKER WITH MICROPHONE		
RDX, XTN, CLS, AX, M, DTR	53862	External speakers & mic with push-to-talk button (HMN9026)
HP, SP50, P110, P1225, GP300	HMN9030A	External speakers & mic with push-to-talk button
CONNECTIVITY		
RDX	RLN6303	Cloning cable
RDX	RKN4155	Programming cable
DTR	53967	Mini keyboard
DTR	53968	Clone cable

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PACIFIC LASER SYSTEMS



PLS HVR 1000 SYSTEM LONG RANGE ROTARY LASER

This proven rotary laser, made for PLS in Germany, is fully self leveling with an accuracy of 3/32 inch at 100 feet. 1000 feet radius with horizontal and vertical applications. Ideal for commercial acoustic or drywall and general construction applications, the PLS HVR 1000 can handle the toughest environments. DUAL SLOPE AXIS

- Class 3 Laser • Fully Self Leveling
- Accuracy 3/32 inch @ 100 Feet
- Self Leveling Range: 5 Degrees
- Horizontal and Vertical Applications
- Powered by NiCad Batteries
- 2 Year Warranty
- **The HVR 1000 System Includes:** PLS HVR 1000, Carrying Case, RC 1000 Remote Control, Ceiling Bracket, PLS HVD 1000 Detector and Operating Manual



PLS HVR 500 SYSTEM MID RANGE ROTARY LASER

A compact, mid range rotary laser designed for light commercial, residential, and remodeling projects. The PLS HVR 500 is versatile for short and mid range layout with an accuracy of 1/8 inch at 100 feet. DUAL SLOPE AXIS

- Class 2 Laser
- Fully Self Leveling
- Accuracy 1/8 inch @ 100 Feet
- Self Leveling Range: 5 Degrees
- Horizontal and Vertical Applications
- Powered by NiCad Batteries
- 1 Year Warranty
- **The HVR 500 System Includes:** PLS HVR 500, Carrying Case, PLS RC 500 Remote Control, Ceiling Bracket, PLS HVD 500 Detector and Operating Manual



PLS90 SYSTEM PRECISE 90 DEGREE LAYOUT

Fully self leveling, the PLS90 is a unique laser level. No more 3-4-5. Use your PLS90 with the universal base-tripod adapter for fast, accurate and dependable square layout for flooring-tile, framing (metal stud or wood), concrete foundations, pads and more.

- Accuracy 1/8 inch @ 100 feet
- Working Range up to 250 feet
- Self Leveling Range: 6 Degrees
- Battery Operated (3 AA Batteries)
- 1 Year Warranty
- **The PLS90 System Includes:** PLS90 Tool, Carrying Case, SLD Laser Detector, Universal Base, Floor Target and Operating Manual



PLS360 SYSTEM 360 DEGREE LASER SYSTEM

Fully self leveling, the PLS360 provides a continuous 360 degree line of reference. The PLS360 offers one button set up for indoor-outdoor applications. Unlike rotary lasers with sensitive moving parts, this compact, bright and durable tool has no complicated features or multiple knob adjustments.

- Class 2 Laser
- Working Range: 250 Feet
- Accuracy 1/8 inch @ 100 Feet
- Self Leveling Range: +/- 6 Degrees
- Powered by 3 "D" Batteries
- 1 Year Warranty
- **The PLS360 System Includes:** PLS360 Laser Unit, Carrying Case, Wall Bracket, SLD Laser Detector and Operating Manual





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PLS 180 PALM LASER HORIZONTAL-VERTICAL HAND HELD TOOL

This plumb, level and square laser line tool is brighter than most rotary lasers at a fraction of the cost. Fast, accurate and portable, the PLS 180 Palm Laser saves you time and money when your bubble viallevel or rotary laser is too cumbersome or too limited for the job.

- Unique optic technology
- Self Leveling
- Internal shock frame impact protection
- Accurate to 1/4 inch @ 100 feet
- Longets lines, vertical-horizontal
- Pulsed beams for exterior applications
- 1 Year Warranty
- **PLS 180 Tool Includes:** PLS 180 Laser Unit, Carrying Case, PLS 180 Pouch, Wall Bracket, Operating Manual and Batteries



PLS 180 SYSTEM PALM LASER WITH DETECTOR INTERIOR-EXTERIOR LAYOUT SYSTEM

Exterior layout in your pocket. The PLS 180, with our exclusive PLS SLD detector, is a simple, easy solution for short and mid-range exterior horizontal and vertical layout tasks.

- **PLS 180 System Includes:** PLS 180 Laser Unit, PLS 180 Pouch, Wall Bracket, PLS SLD Detector, Carrying Case, Manuals, Batteries and 1 Year Warranty



PLS³ and PLS⁵ LASER ALIGNMENT TOOLS

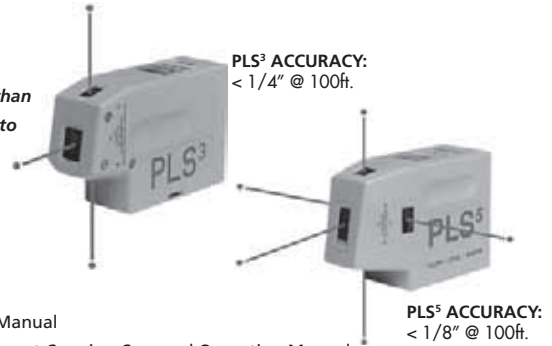
The PLS3 and PLS5 provide point-to-point alignment information. Lay out reference points faster than traditional, labor intensive "3-4-5" or "swinging plumb bob" methods. Plumb instantly from floor to ceiling or from 50 feet off the ground!

BOTH MODELS FEATURE:

- Self-leveling - no time wasted with bubble vials
- Clear, stable reference points indoors and outdoors
- Working Range: +/- 1000 feet
- 1 Year Warranty

- **PLS3 System Includes:** PLS3 Laser Unit, Wall Bracket, Floor Stand, Carrying Pouch and Operating Manual

- **PLS5 System Includes:** PLS5 Laser Unit, Magnetic Wall Bracket, Pendulum Target, Floor Stand, Compact Carrying Case and Operating Manual



PLS^{5X} PROFESSIONAL EXTERIOR LASER ALIGNMENT TOOL

The PLS5X is designed for layout of control points and lines in outdoor conditions, especially in bright sunlight. Working range is 250+ feet with an accuracy of 1/8" at 100 feet. Lay out conduit, anchor bolts and square on slab faster than ever before.

- Accuracy 1/8 inch @ 100 Feet
- Range up to 250 feet
- Battery Operated (3 AA Batteries)
- 1 Year Warranty
- **PLS5X System Includes:** PLS5X Laser Unit, Pendulum Target, Floor Stand, Compact Carrying Case, Magnetic Wall Bracket and Operating Manual



PLS^{24X} AUTOMATIC OPTICAL LEVEL

Traditional optical level for general construction layout. Rugged cover for weather and dust resistant usage. High quality optics. Automatic compensator and light weight.

- Magnification power 24X
- Working range 150'
- Clear Objective Aperture
- Accuracy 1/16" at 100'
- 1 Year Warranty





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LEVELS



BOX LEVELS

E70 / EM71 SERIES LEVEL



- True Blue® vials are accurate to within 0.0005" per inch in all 10 level and plumb working positions
- Heavy-duty 6061 aircraft aluminum chassis • 300° view top-reading level vial
- Solid block acrylic vials won't break, leak or fog • Milled edges for accuracy
- Dual molded rubber endcaps for extreme shock resistance • Ergonomic rubber hand grips
- em71 Series Magnetic Levels have rare earth magnets for super-strong holding onto ferrous surfaces



e70.24 24"	e70.72 72"	em71.48 48"
e70.48 48"	em71.24 24"	em71.78 78"

I-BEAM LEVELS

581 SERIES ALUMINUM MAGNETIC LEVELS

- Magnetic edge holds to ferrous surfaces
- Advanced frame design assures accuracy
- Top read window • Beveled endplates protect vials from shock



581-18 18" Magnetic Aluminum Level w/45° vial	581-48 48" Magnetic Aluminum Level
581-24 24" Magnetic Aluminum Level w/45° vial	581-72 72" Magnetic Aluminum Level
581-36 36" Magnetic Aluminum Level	

TORPEDO LEVELS



EM81.12 12" MAGNETIC TOOL BOX LEVEL

- True Blue® vials are accurate to within 0.0005" per inch in all 10 level and plumb working positions
- Heavy-duty 12" extruded aluminum frame • 4 vials read plumb, level, 45°, and VARI-PITCH™
- Powerful, full-length magnetic edge • VARI-PITCH™ vial reads slope in 1/8" increments



EM81.9 9" HEAVY-DUTY MAGNETIC TORPEDO LEVEL

- True Blue® vials are accurate to within 0.0005" per inch in all 10 level and plumb working positions
 - Heavy-duty extruded aluminum frame • Vials read plumb, level and 45°
 - Strong-holding magnetic edge • V-grooved working edge fits on pipe or conduit
- e80.9 Heavy-Duty Aluminum Torpedo Level (non-magnetic)**

UTILITY LEVELS



LINE LEVELS

- Lightweight construction minimizes line sag
- Unbendable open hooks allow level to slide freely
- Pocket clip will guard tool against loss
- Use for landscaping, plumbing, masonry work, gutters and sheet metal work
- VARI-PITCH™ vial reads from level to 1/2" pitch in 1/8" increments

83-3	Standard Line Level
83-50	Standard Line Level 50 Pack
83038	Line Level Set-Standard & VARI-PITCH™



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SQUARES



COMBINATION SQUARES



220 POLYSQUARE™ COMBINATION SQUARE

- 12" steel blade with inch graduations • Self-aligning drawbolt
 - Durable POLYCAST® head, full view acrylic vial
- 220IM Stainless Steel blade has inch/metric graduations*

RAFTER SQUARES



2990 HEAVY-DUTY MAGNUM™ RAFTER SQUARE

- Solid aluminum extruded square will not bend or break • Aluminum will not rust or corrode
 - Stamped conversion tables • Thick edge makes for a safer saw guide
- 2999 Includes instruction manual with complete rafter tables*

FRAMING SQUARES



1140 16" X 24" ALUMINUM PROFESSIONAL SQUARE

- 24" x 2" body, 16" x 1-1/2" tongue, 1/8" thick
- Permanently stamped numbers, rafter tables, graduations on brushed aluminum finish
- Aluminum construction will not rust or corrode
- Includes 1/8", 1/10", 1/16" stamped graduations

Get a Real Grip.



BLACK STALLION®



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on Page 17



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MEASURING AND MARKING TOOLS



TRU-LOK® MEASURING TAPES

CAT NO.	FINISH	EDP NO.
CI-25	CHROME	65366
C1-30	CHROME	65382

FIBERGLASS LONG-LINE MEASURING TAPES



CAT NO.	LENGTH	EDP NO.
535-100	100'	64234
535-200	200'	64236
535-300	300'	64237



SOLID STEEL PLUMB BOBS PB SERIES

CAT NO.	EDP NO.	WEIGHT
PB-8	36113	8 OZ. (230G)
PB-12	36114	12 OZ. (340G)
PB-16	36115	16 OZ. (450G)



CHALK REFILLS

CAT NO.	COLOR	EDP NO.	UNIT WT.
SC8B	BLUE	63146	8 OZ. (227G)
SC8R	RED	63147	8 OZ. (227G)
SC8O	FL. ORG.	67455	8 OZ. (227G)
SUC8R	ULT. RED	64487	8 OZ. (227G)
SC5B	BLUE	63154	8 OZ. (227G)
SC5B	BLUE	63154	5 LBS. (2.27KG)
SC5R	RED	63155	5 LBS. (2.27KG)
SC5O	FL. ORG.	67456	5 LBS. (2.27KG)
SUC5R	ULT. RED	64488	5 LBS. (2.27KG)

CONSTRUCTION LINE

- Available in 250'/500'/1000' rolls
- Easy to see bright orange, gold, pink, green, and white



1000' BRAIDED LINE:

CAT NO.	COLOR
39801N	Gold
39812N	White
39813N	Orange
39814N	Pink

REEL® FAST CHALK LINE



CAT NO.	FINISH	EDP NO.
SACL-100	CHROME	63661



FATMAX® TAPE RULES

- 11' tape standout
- 1-1/4" wide blade for easy readability
- BladeArmor™ coating on the first 6" maximizes durability of hook end
- Mylar® polyester film extends life of entire blade
- High-impact ABS case with rubber over mold is jobsite tough
- Top-forward blade lock makes locking and unlocking a cinch
- 16" and 19.2" stud center markings simplify framing jobs
- Cushion grip provides comfortable, slip-resistant hold
- Specially designed hook grabs on side, top or bottom for versatility



CATALOG NO.	DESCRIPTION
STN-33-725	1-1/4" x 25' Tape Rule
STN-33-730	1-1/4" x 30' Tape Rule

POWERLOCK® TAPE RULES

- 7' standout
- Easy readability with 1" wide blade
- Entire blade coated with Mylar® polyester film for added durability
- Heat-treated spring stands up to repeated use
- 16" and 19.2" stud center markings simplify framing jobs
- Three-rivet, corrosion-resistant hook moves for accurate inside/outside measurements
- Secure blade lock won't creep during measurements
- Special Tru-Zero hook does double-duty as a pivot for drawing circles and arcs



Mylar® is a registered trademark of DuPont Teijin Films for its polyester film.

CATALOG NO.	DESCRIPTION
STN-33-425	1" x 25' Tape Rule
STN-33-430	1" x 30' Tape Rule

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MARKERS, PENCILS & CRAYONS *LA-CO Markal*

FIBER-TIP MARKERS

DURA-INK® #15 MARKERS

Fine Tip



- Ideal for line marking
- Extra tough tip, won't spread or mush
- Smear-resistant, water-resistant, fast-drying
- Marks on metal, wood, cardboard, paper, plastic, glass, etc.

- For identification of parts, layout work and marking cartons and crates
- Available on blister card for point-of-purchase display
- Unit packaging: 12 of one color/box

PART NO.	COLOR	CASE QTY.
96022	RED	72
96023	BLACK	72
96025	BLUE	72
96026	GREEN	72
96030	BLK DISP.	72
69033	BLK CARD.	36

DURA-INK® #25 MARKERS

King Size, Chisel Tip



- Chisel tip makes fine lines or board marks
- Extra large ink supply for greater mileage

- Use on cardboard, wood metal, paper, ceramics, glass and leather
- For identification of equipment, marking shipping cartons and sign making

PART NO.	COLOR	CASE QTY.
96223	BLACK	48

- Heavy-duty metal barrel
- Unit packaging: 12 of one color/box

LIQUID PAINT MARKERS

VALVE ACTION® PAINT MARKERS

Medium Tip



- Marks with real paint, dries in 3 minutes.
- Nib releases paint as needed for continuous marking
- Lead-free, low halogens
- Durable metal barrel

- Marks on all surfaces including metal, wood, glass, plastic, rubber, cardboard and paper
- The valve actuated fiber nib is replaceable to assure complete use of each marker

PART NO.	COLOR	CASE QTY.
96820	WHITE	48
96821	YELLOW	48
96823	BLACK	48

- Unit packaging: 12 of one color/box

PENCILS

CARPENTER'S PENCIL

Clean, Accurate Marks on Wood and Other Surfaces



- Available in three different leads
- Premium quality
- Flat lead design for easier marking

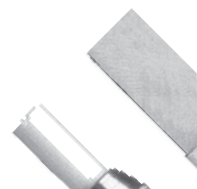
- Unit packaging: 72 per box
- Uses #106 holder
- Length: 7"

PART NO.	COLOR	CASE QTY.
96927	HARD LEAD	144
96928	MED. LEAD	144
96929	SOFT LEAD	144

SOAPSTONE MARKERS

SOAPSTONE MARKERS

Temporary Marking of Metal Surfaces During Welding



- Made of natural soapstone for superior marking
- Marks will not contaminate welds and are easily removed
- Available in flat, round and square shapes. holders available for the flat and round sizes

- Soapstone is packed 3 one gross boxes per case to prevent breakage during shipping

PT NO.	SIZE	CASE QTY.
80129	5" x 1/2" x 3/16" flat	432
80130	5" x 1/4" round	432
80131	5" x 1/4" x 1/4" square	432

CRAYONS

PRO-EX™ CRAYON

Extruded, Clay Based



- The clay based "feel" lumber crayon users prefer
- Stronger formula for reduced breakage
- Superior performance on wet wood
- Unit packaging: 12 of one color to a box
- Size: 1/2" x 4-5/8" • Marking range: -20°F to 130°F

BULK			CARDED		
PART NO.	COLOR	CASE QTY.	PART NO.	COLOR	CASE QTY.
80380	WHITE	144	80401	YELLOW	36
80381	YELLOW	144	80402	RED	36
80382	RED	144	80403	BLACK	36
80383	BLACK	144	80405	BLUE	36
80385	BLUE	144			
80386	GREEN	144			
80384	ORANGE	144			
80387	PINK	144			
80388	PURPLE	144			
80379	BROWN	144			

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SELF ADHESIVE PIPE MARKERS

KOLBI

COLD WATER

STYLE B: 1" Tape - 3/4" Letters
For Pipe OD 3/4" To 2-1/4"

COLD WATER

STYLE C: 2" Tape - 1-1/4" Letters
For Pipe OD 2-1/2" To 7-7/8"

COLD WATER

STYLE D: 3" Tape - 2-1/2" Letters
For Pipe OD 8" To 10"

COLD WATER

STYLE E: 4" Tape - 3-1/2" Letters
For Pipe OD Over 10"

Conforms to ANSI A13.1 standards

SELECTION CHART KEY

MATERIAL OF INHERENTLY HAZARDOUS

- Flammable or explosive
- Chemically Active or toxic
- Extreme pressure treated
- Radioactive

B/Y = (BLACK ON YELLOW)

MATERIAL OF INHERENTLY LOW HAZARDOUS

- Liquid or Liquid Admixture
- Gas or Gaseous Admixture

W/G = (WHITE ON GREEN)

W/B = (WHITE ON BLUE)

FIRE QUENCHING MATERIALS

- Water
- CO2
- Foam
- Halon, etc.

W/R = (WHITE ON RED)

Color combinations will vary depending upon application. Consult your Newman representative for custom markers.

*

PIPE MARKER SELECTION CHART

L108	B/Y	ACID	L166	W/G	DOMESTIC	L199	B/Y	HEATING WATER RETURN	L321	B/Y	SUPPLY
L106	B/Y	ACID VENT	L161	W/G	DOMESTIC COLD WATER	L200	B/Y	HEATING WATER SUPPLY	L281	B/Y	PUMPED CONDENSATE
L111	W/B	AIR	L159	W/G	DOMESTIC COLD WATER RETURN	L203	*	HELIUM	L287	B/Y	REFRIGERATED LIQUID
L114	W/G	AIR	L160	W/G	DOMESTIC COLD WATER SUPPLY	L209	B/Y	HIGH PRESSURE	L289	B/Y	RETURN
L999	B/Y	AIR	L164	B/Y	DOMESTIC HOT WATER	L205	B/Y	HIGH PRESSURE AIR	L285	W/G	RETURN
L118	W/G	ARGON	L162	B/Y	DOMESTIC HOT WATER RETURN	L206	B/Y	HIGH PRESSURE GAS	L286	B/Y	RETURNED AIR
L119	W/B	ASBESTOS FREE	L163	B/Y	DOMESTIC HOT WATER SUPPLY	L212	B/Y	HIGH PRESSURE STEAM	L290	W/G	RIVER WATER
L120	W/G	BLOWER AIR	L165	W/G	DOMESTIC WATER	L218	B/Y	HOT WATER	L291	W/G	SANITARY DRAIN
L121	B/Y	BOILER WATER	L168	W/G	DRAIN	L208	B/Y	120° HOT WATER	L292	W/G	SANITARY SEWER
L123	W/G	BRINE	L169	W/G	DRINKING WATER	L207	B/Y	180° HOT WATER	L294	W/G	SANITARY VENT
L124	*	CARBON DIOXIDE	L347	B/Y	DUAL TEMP WATER RETURN	L215	B/Y	HOT WATER RECIRCULATION	L307	W/R	SPRINKLER
L125	B/Y	CAUSTIC	L348	B/Y	DUAL TEMP WATER SUPPLY	L216	B/Y	HOT WATER RETURN	L309	W/R	SPRINKLER WATER
L131	W/G	CHILLED WATER	L170	B/Y	EXHAUST AIR	L217	B/Y	HOT WATER SUPPLY	L312	B/Y	STEAM
L129	W/G	CHILLED WATER RETURN	L174	B/Y	FEED	L232	B/Y	KEROSENE	L102	B/Y	_____ PSI STEAM
L130	W/G	CHILLED WATER SUPPLY	L175	*	FIBER OPTIC CABLE	L235	B/Y	LIQUID NITROGEN	L310	B/Y	STEAM RETURN
L134	W/G	CITY WATER	L176	W/G	FILTERED WATER	L238	B/Y	LOW PRESSURE GAS	L311	B/Y	STEAM SUPPLY
L137	W/G	COLD WATER	L179	W/R	FIRE MAIN	L240	W/B	LOW PRESSURE AIR	L313	W/G	STORM DRAIN
L135	W/G	COLD WATER RETURN	L180	W/R	FIRE PROTECTION WATER	L239	B/Y	LOW PRESSURE STEAM	L314	W/G	STORM SEWER
L136	W/G	COLD WATER SUPPLY	L308	W/R	FIRE SPRINKLER WATER	L246	W/G	MAKEUP WATER	L315	W/G	STORM WATER
L139	W/B	COMPRESSED AIR	L187	B/Y	FREOL	L247	B/Y	MEDICAL AIR	L317	W/G	STORM VENT
L138	B/Y	COMPRESSED AIR	L183	W/G	FRESH WATER	L248	*	MEDICAL VACUUM	L320	W/G	SUPPLY
L144	B/Y	CONDENSATE	L188	B/Y	FUEL OIL	L249	B/Y	MEDIUM PRESSURE AIR	L321	B/Y	SUPPLY
L140	B/Y	CONDENSATE DRAIN	L185	B/Y	FUEL OIL RETURN	L251	B/Y	MEDIUM PRESSURE STEAM	L322	*	SUPPLY AIR
L141	B/Y	CONDENSATE RETURN	L186	B/Y	FUEL OIL SUPPLY	L255	B/Y	NATURAL GAS	L323	B/Y	TEMPERED WATER
L143	B/Y	CONDENSATE WATER	L189	B/Y	GAS	L259	*	NITROGEN	L330	B/Y	VACUUM
L147	W/G	CONDENSER WATER	L194	B/Y	GLYCOL	L260	W/B	NITROUS OXIDE	L332	B/Y	VAPOR
L145	W/G	CONDENSER WATER RETURN	L192	B/Y	GLYCOL RETURN	L261	B/Y	NONPOTABLE WATER	L333	B/Y	VENT
L146	W/G	CONDENSER WATER SUPPLY	L193	B/Y	GLYCOL SUPPLY	L262	B/Y	OIL	L399	*	WAGD
L150	W/G	COOLING WATER	L195	W/R	HALON SYSTEM	L264	*	OUTSIDE AIR	L335	B/Y	WASTE OIL
L153	W/G	DEIONIZED WATER	L201	B/Y	HEATING WATER	L266	W/G	OXYGEN	L336	B/Y	WASTE WATER
L154	B/Y	DIESEL FUEL	L349	B/Y	HEATING HOT WATER RETURN	L274	W/G	POTABLE WATER	L339	W/G	WATER
L158	W/G	DISTILLED WATER	L350	B/Y	HEATING HOT WATER SUPPLY	L276	B/Y	PROCESS WATER	L340	W/G	WELL WATER

ARROW BANDING TAPE

- 30 yard rolls
- Available in 1", 2", 3" and 4" widths
- Several color combinations available

TAPE WIDTH	ARROW SIZE	STYLE
1"	3/4"	B
2"	1-1/4"	C
3"	2-1/2"	D
4"	3-1/2"	E



INDIVIDUAL ARROWS

TAPE WIDTH	STYLE
1"	BA
2"	CA
3"	DA
4"	EA





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PIPE MARKERS, VALVE TAGS & NAME PLATES

KOLBI



WRAP-AROUND PIPE MARKERS

- Manufactured With Rigid Vinyl
- Arrows Included On Markers
- Styles F, G And H Include Plastic Ties
- Call For A Quote On Cutom Legends

PIPE OD (INCLUDE INSULATION)	LETTER SIZE	SHAPE	STYLE
3/4" to 1"	1/2"	Coiled	WA
1-1/8" to 2-3/8"	3/4"	Coiled	WB
2-1/2" to 3-1/4"	1-1/4"	Coiled	WC
3-3/8" to 4-1/2"	1-1/4"	Coiled	WD
4-5/8" to 5-7/8"	1-1/4"	Coiled	WE
6" to 7-7/8"	1-1/4"	Flat	WF*
8" to 9-7/8"	2-1/2"	Flat	WG*
over 10"	3-1/2"	Flat	WH*

* SHIPPED WITH NYLON TIES

VALVE TAGS



Brass

- 1-1/2" round (2" avail.)
- 19 Gauge brass
- 1/4" service characters
- 1/2" numbers
- Black filled

Lasered

- Brass or Stainless Steel
- Permanent black etched for complex legends

Plastic Engraved

- 1/16" thick
- 2 ply material
- 1/8" or 2 sided available
- Several color combinations

Service Abbreviations

AIR	Air	DHW	Domestic Hot Water
CHW	Chilled Water	FP	Fire Protection
CHWS	Chilled Water Supply	GAS	Gas
CHWR	Chilled Water Return	HTG	Heating
COND	Condensate	HW	Hot Water
CW	Cold Water	HWS	Hot Water Supply
CWS	Cold Water Supply	HWR	Hot Water Return
CWR	Cold Water Return	PLBG	Plumbing
DCW	Domestic Cold Water	STM	Steam

Accessories:

- Beaded chain (100/pack)
- "S" Hooks (100/pack)
- Jack Chain (50 ft.)
- Aluminum Valve Chart

ENGRAVED NAME PLATES

- Made with 1/16" 2 ply material
- Comes with either mounting holes or adhesive backing
- Several color combinations available
- 2 sided engraving also available

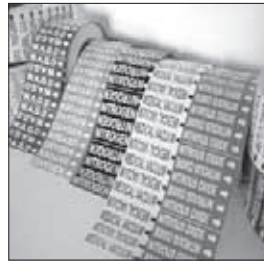


SEVERAL SIZES AVAILABLE

1" x 2"	3" x 5"
1" x 3"	4" x 6"
1-1/2" x 4"	4" x 8"
2" x 4"	4" x 12"
2-1/2" x 4"	6" x 12"
2" x 6"	12" x 12"

MEDICAL MARKERS

- Labels are 3" x 3"
- Markers have arrows included
- Meets NFPA standards
- Available as single labels or rolls



LEGEND	LETTER/BKGD
CARBON DIOXIDE	WHITE/GRAY
HELIUM	WHITE/BROWN
MEDICAL AIR	BLACK/YELLOW
MEDICAL VACUUM	BLACK/WHITE
NITROGEN	WHITE/BLACK
NITROUS OXIDE	WHITE/BLUE
OXYGEN	WHITE/GREEN
WAGD	WHITE/PURPLE

UNDERGROUND TAPES

- Detectable and non-detectable styles
- Conforms to APWA for color code
- Rolls are 100 ft.
- Custom legends available

	WIDTH	STYLE
DETECTABLE	2"	DT2
	3"	DT3
	6"	DT6
NON-DETECTABLE	3"	NDT2
	6"	NDT6

STANDARD AVAILABLE LEGENDS	LETTER/BKGD
CAUTION WATER LINE BURIED BELOW	BLACK/BLUE
CAUTION CHILLED WATER LINE BURIED BELOW	BLACK/BLUE
CAUTION SEWER LINE BURIED BELOW	BLACK/GREEN
CAUTION SANITARY SEWER LINE BURIED BELOW	BLACK/GREEN
CAUTION GAS LINE BURIED BELOW	BLACK/YELLOW
CAUTION OXYGEN LINE BURIED BELOW	BLACK/YELLOW
CAUTION ELECTRIC LINE BURIED BELOW	BLACK/RED
CAUTION FIBER OPTIC LINE BURIED BELOW	BLACK/ORANGE



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BARRIER FENCING & PRIVACY SCREENING

Strong Man
Building Products Corp.



SBF-76 BARRIER FENCING

A low cost, high strength, strong temporary fencing designed for durability and easy handling. Made of high-density polyethylene, combines ultra lightweight and flexibility with strength.



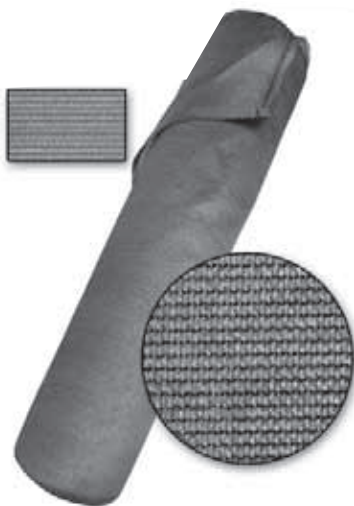
HIGH-VISIBILITY ORANGE

FEATURES

- Easy Installation & Dismantling
- Low Cost
- Easy Handling
- High Density Polyethylene
- Durable
- High Strength
- Lightweight
- Sizes: 4' x 100' and 4' x 150'

PRIVACY SCREENING

This advanced high-density lightweight knitted fiber is specifically designed as a barrier for privacy and security around sites.



FEATURES

- Quick & Easy Installation
- Will Not Unravel When cut
- Mold, Mildew & Fade Resistant
- Durable & Lightweight
- Tear Resistant
- Will Not Absorb Water
- Reinforced Buttonholes on Hem for Easy Attachment
- Sizes: 68" x 150'
92" x 150'
- Colors: Blue, black and green (green also available with grommets)

USES

- Commercial Storage
- Construction Companies
- Construction Sites
- Demolition Sites
- Defense Contracts
- Highway Departments
- Industrial Storage Areas
- Material Yards
- Parks & Recreation Areas
- Retention Areas
- Utility Companies



DEBRIS NETTING

Strong Man
Building Products Corp.



SAFETY
PRODUCTS

TOOLS &
ACCESSORIES

CONTRACTOR
SUPPLIES

HANGERS
& STRUT

FASTENERS &
THREADED ROD

CONCRETE
ANCHORS

SPECIALTY ITEMS
SERVICES & DATA

SBN-324 POLYETHYLENE KNITTED DEBRIS NETTING



FEATURES

- Easy to Install
- Long Lasting
- U.V. Treated
- High Density Polyethylene
- Knitted Construction
- Will Not Unravel When Cut
- Flexible in Severe Temperature
- Reinforced Buttonholes on Hem for Easy Attachment
- Meets OSHA Requirements

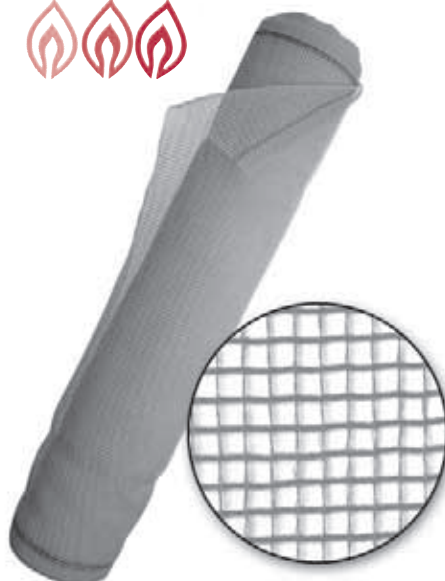
USES

- Sand Blast Curtains
 - Scaffold Enclosures
 - Vision barrier
 - Wind Protection
 - Vertical and Horizontal Debris Netting
 - Pedestrian Protection
- (Not to be Used as Personnel Netting)*

SIZES	FR* BLACK	NON-FR BLACK	NON-FR GREEN	NON-FR WHITE
4' x 150'		■		
8' x 150'	■	■	■	■
8'6" x 150'	■	■		■
10' x 300'		■	■	
12' x 300'		■	■	

* Fire retardant to meet the standard of NFPA701 Method 2 Folded.

SBN-22 VERTICAL DEBRIS NETTING



FEATURES

- Knitted Polyethylene Threads with Reinforced Border
- Lightweight - Stays Flexible in Cold Weather
- Meets NYC Local Law 61 OSHA Requirements
- Available in Fire-Retardant
- High-visibility Fluorescent Orange, Fire-retardant Blue and Non-fire-retardant Black
- Economical and Cost-effective
- Hole Openings Approx. 1/4"

SIZES	FR* ORANGE	FR* BLUE	NON-FR BLACK
4' x 150'	■	■	■
5'6" x 150'	■	■	
8'6" x 150'	■	■	■
10'6" x 150'	■	■	■

* Fire retardant to meet the standard of NFPA701 Method 2 Folded.



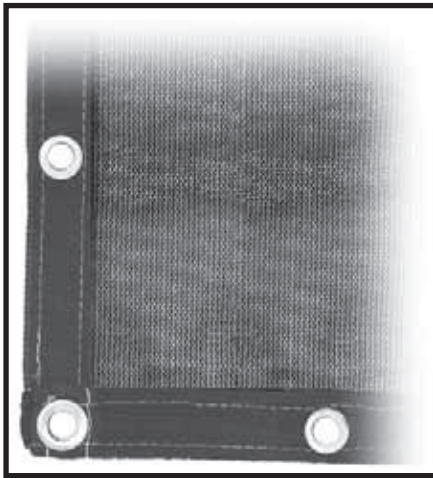
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MESH DEBRIS AND GREEN POLY TARPS

Strong Man
Building Products Corp.



HORIZONTAL DEBRIS NETTING TARP



FEATURES:

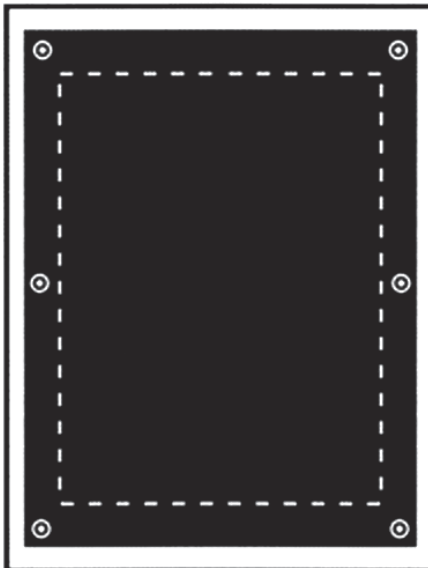
- Ultra-Strong Mesh Material
- Allows air to go through
- Webbing in hem
- Heavy-Duty Stitching
- Heavy-Duty Grommets
- Horizontal Application
- NOT TO BE USED as horizontal personnel netting

SIZES

12' x 50'
20' x 20'
20' x 30'
20' x 40'
20' x 50'

**Other Sizes Made To Order
Consult Your Newman Representative**

HEAVY DUTY GREEN POLY TARPS



FEATURES:

- 4.5 oz. per square yard
- 10 x 10 Weave per sq. in.
- U.V. Treated
- Rope Reinforced Hems
- Aluminum Grommets (rust proof) Approx. Every 3 ft.
- Corner Patch Reinforcement (12' x 16' and Larger)
- Hems: Parallel Sides, Heat Sealed & Sewn

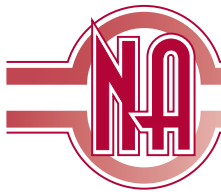
USES:

- Cars and Trucks
- Materials
- Outdoor Use
- All Weather

CUT SIZES	# PER CARTON	CUT SIZES	# PER CARTON
8' x 10'	20	20' x 30'	2
10' x 12'	15	20' x 40'	2
10' x 20'	8	24' x 36'	2
12' x 16'	8	25' x 40'	1
12' x 20'	7	30' x 40'	1
12' x 25'	5	30' x 50'	1
15' x 25'	5	30' x 60'	1
15' x 30'	3	40' x 40'	1
16' x 20'	5	40' x 60'	1
20' x 20'	4	50' x 100'	1
20' x 25'	3	100' x 100'	1

**See rope, twine and other jobsite essentials
starting on page 210**





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HEAVY DUTY POLY TARPS

Strong Man
Building Products Corp.



SAFETY
PRODUCTS

TOOLS &
ACCESSORIES

CONTRACTOR
SUPPLIES

HANGERS
& STRUT

FASTENERS &
THREADED ROD

CONCRETE
ANCHORS

SPECIALTY ITEMS
SERVICES & DATA

ULTRA STRONG WOVEN POLY TARPS



FEATURES:

- Super Fire Retardant* White
- 14 x14 Weave per square inch
- All Sizes Include Grommets Across the Center
- Grommets Line Up on Like-sized Tarps for Fast, Easy Connections
- 4" Hem
- "D-Rings" with Webbing

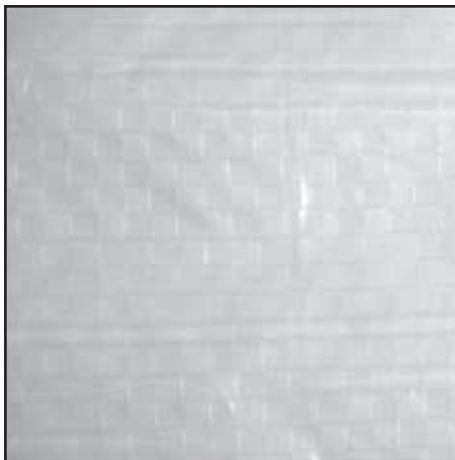
SIZES # PER CARTON

15' x 20'	3
20' x 21'	2
20' x 30'	2



* Fire retardant to meet the standard of NFPA701 Method 2 Folded.

STRONG WEAVE 77



FEATURES:

- Woven Reinforced Polyethylene Sheeting • 7 x 7 Weave per square inch
- High Strength • Puncture and Tear Resistant, Coated 2 sides • Easy to Install

USES:

- Construction Enclosures • Temporary Walls, Liners and Covers • Shipping and Packaging

SIZES WHITE FR* CLEAR NON-FR

10' x 100'	■	■
12' x 100'	■	■
16' x 100'	■	■
20' x 100'	■	■
24' x 100'	■	■
28' x 100'	■	■
40' x 100'	■	■



* Fire retardant to meet the standard of NFPA701 Method 2 Folded.

1010 FIRE RETARDANT TARP



FEATURES:

- Fire Retardant
- Rust Proof Grommets
- Woven Poly
- Rope in hem
- Grommets down the middle
- 4.5 oz. per square yard
- Reinforced hem
- Sewn corner patches

SIZES

10' x 20'	10
12' x 20'	5
15' x 20'	5
16' x 20' FS	5
20' x 21' FS	4
20' x 30'-1	2
20' x 30'-3	2

PER CARTON





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POLY TARPS AND ACCESSORIES

Strong Man
Building Products Corp.



STRING REINFORCED POLYETHYLENE SHEETING



FEATURES:

- Durable
- Easy to Install
- FR* (White) & Non-FR (Clear) Available
- High Strength - Puncture & Tear Resistant

USES:

- Construction Enclosures
- Temporary Walls
- Temporary Liners & Covers
- Shipping & Packaging

SIZES:

	CLEAR	FR* WHITE
10' x 100'	■	■
12' x 100'	■	■
16' x 100'	■	■
20' x 100'	■	■
24' x 100'	■	■
28' x 100'	■	■
40' x 100'	■	■



* Fire retardant to meet the standard of NFPA701 Method 2 Folded.

D-12 FR* STRONG WRAP



FEATURES:

- Fire Retardant* (White)
- Protects Work Areas from Debris, Dust and Bad Weather
- Easily Installed to Any Standard Scaffold System
- Three Reinforced Bands with Covered Slit Openings Every 12"
- 6" Band on Edges
- 3" Band Center
- Sizes Available: 7'6" x 100' and 8' 6" x 100'



* Fire retardant to meet the standard of NFPA701 Method 2 Folded.

ACCESSORIES



BC-104

OCTAGONAL STICK HEAVY DUTY ELASTIC TIES

- For use with Strong Wrap
- Easy to install
- Heavy Duty locking hook
- 100 pcs. per bag / 10 bags per carton
- Length 14"



RUBBER STRAPS

- Extra Strength
- Professional Quality
- Made from EPDM
- Furnished with S-Hooks
- 100 Pieces per Carton

SIZES

15"
21"
31"
41"

Enclosure accessories including elastic ties, cable ties, scaffold clips, plastic grommets and tie downs are available.

Consult your
Newman Representative
for more information



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MARKING AND MAINTENANCE PAINTS



INDUSTRIAL QUIK-MARK™ INVERTED MARKING PAINTS

- High solids formulation for bold, bright, visible markings • Fast-drying formula penetrates and adheres to hot surfaces
- Convenient Spray-Thru® cap and non-clogging spray tip • VOC compliant, free-of-lead hazards • 20-oz. cans (17-oz. net wt.)
- Case Pack: 12



APWA WATER-BASED

- S03801 Utility Yellow (Lead Free)
- S03901 Brilliant White
- S03903 Blue
- S03904 Green



FLUORESCENT WATER-BASED

- S03610 Fluorescent Safety Red
- S03612 Fluorescent Pink
- S03620 Fluorescent Caution Blue
- S03630 Fluorescent Safety Green
- S03650 Fluorescent Red/Orange
- S03700 Fluorescent Orange
- S03715 Fluorescent Purple



GENERAL PURPOSE SOLVENT BASED

- S03600 Clear (15-oz. net wt.)

INTERIOR / EXTERIOR INDUSTRIAL MAINTENANCE PAINTS

For any metal or wood surface, including motors, tools, pipelines, conduit, ducts, drums, cabinets, furniture, and for color coding steel and lumber.

- Superior performance, both indoors and outdoors
- VOC-compliant acrylic lacquer formula, free of lead hazards
- Hard, protective and durable high-gloss finish
- High solids assures maximum coverage with excellent adhesion
- Dries in just 12 minutes to the touch
- Uniform coverage with no recoat window, recoat anytime
- 16-oz. cans (12-oz. net wt.)
- Case Pack: 6



- K01501 Gloss White
- K01502 Flat White
- K01508 Semi-Gloss White
- K01601 Gloss Black
- K01602 Ultra-Flat Black
- K01604 Shadow Gray
- K01613 Semi-Flat Black
- K01806 Sun Yellow
- K01901 Regal Blue
- K01910 True Blue (OSHA Safety Blue)
- K02001 Hunter Green
- K02016 Emerald Green
- K02101 Cherry Red (11136)
- K02411 Pumpkin Orange

RUST CONTROL PRIMER

- S00339 Red Oxide Rust Control Primer
- 16-oz. cans (12-oz. net wt.)
- Case Pack: 12

MULTIPURPOSE ADHESIVE



ORS-405-021200-21210
3M SUPER 77®
MULTI PURPOSE ADHESIVE

- Bond many materials including plastic, papers, cardboard, foils and metals

Not Listed?
CALL US

It may be in stock or we can order it for you



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COMPOUNDS AND LUBRICANTS



S00739 SILVER GALV

For fences, gutters, bridges, structural steel, wrought iron, farm equipment, damaged galvanized surfaces, highway maintenance and marine applications.

- ASTM A780
- Sacrificial coating that inhibits corrosion on ferrous metals
- Excellent touch-up for repair of galvanized substrates
- Produces a dry coating with the bright finish of hot-dip galvanizing
- Recommended dry film thickness of 1.5 to 3.0 mils
- VOC-compliant
- Dries to touch in 30 minutes
- May be recoated after 2-16 hours, or after 36 hours
- 16-oz. cans (14.25-oz. net wt.) • Case Pack: 12



S00740 ZINC-RICH COLD GALVANIZING COMPOUND

For surfaces subject to severe corrosion & rust conditions, such as fences, gutters, bridges, structural steel and wrought iron. Ideal as a maintenance spray for highways or damaged galvanized surfaces.

- Fast-drying, high-solids, high-performance, epoxy based coating
- Protects steel exposed to severe corrosive environments
- 97%-pure zinc dust; equal to or better than hot-dipped galvanizing
- Excellent anti-sag and anti-settling properties
- May be topcoated with conventional primers or finish coats
- Meets or exceeds performance requirements to MIL-P-26915C.
- 16-oz. cans (14-oz. net wt.) • Case Pack: 12



NOT TO BE USED WITH
OXYGEN SYSTEMS

S00620 ANTI-SEIZE & LUBRICATING COMPOUND

Designed to lubricate and protect metal parts under the most demanding conditions of heat, cold, pressure, steam and salt water exposure. Applications include threaded fittings, sprockets and chains, splines and worm gears, winches and conveyors.

- Protective film will not harden, separate or evaporate
- Cannot be burned off or removed by abrasion
- Protects against corrosion, seizure, galling, carbon fusion and galvanic pitting
- Provides protection from 0°F to +2200°F
- Meets performance specification of MIL-A-907E
- Won't react to most gases, including propane, butane, natural gas, helium, Freon and nitrogen
- 16-oz. cans (11.25-oz. net wt.) • Case Pack: 12

S62016 ANTI-SEIZE BRUSH TOP

Convenient angular brushtop and non-cutting plastic container

- 16-oz. container • Case Pack: 12



COMPOUNDS AND LUBRICANTS



S00200 DRY MOLY LUBE

For sliding surfaces and gears, chutes and bins, bearings, chain drives, intricate mechanisms, roller chains and conveyor belts where heat is present.

- Penetrates pores of substrate and bonds to surface for long-lasting lubrication
- High-pressure, high-solids molybdenum disulfide coating
- Withstands pressures up to 50,000 psi
- Air dries in 5-10 minutes; cures in 2 hours at room temperature
- Maintains effectiveness under high temperatures
- Equipped with EZ TOUCH® Standard Nozzle
- NSF reg. no. 131583; H2 rated
- 16-oz. cans (11-oz. net wt.) • Case Pack: 12



S00208 CUTTING OIL

For drilling, cutting, threading, sawing, grinding and broaching.

- NSF reg. no. 115088; H2 rated
- Extends tool life, reducing tool sharpening and downtime
- Recommended for all metals, including stainless steel and soft metals such as aluminum, brass and copper
- Clings to surface
- Jet-spray allows precision applications
- Includes extra actuator with extension tube
- 16-oz. cans (12-oz. net wt.) • Case Pack: 12

WD-40® LUBRICANT



STOPS SQUEAKS - Finds squeaks and lubricates them in hard-to-get-at mechanisms. WD-40® is silicone free - no messy, gummy residue.

PROTECTS METAL- WD-40® lubricates and protects against moisture and corrosive elements with an invisible barrier.

LOOSENS RUSTED PARTS - And frees sticky mechanisms. WD-40® penetrates deep to free up frozen or rusted metal parts and fasteners. Keeps controls and linkages working freely.

DISPLACES MOISTURES - WD-40® gets under water, drives it off and keeps it off. WD-40® is a nonconductor. Use it to dry out electrical and electronic equipment.

STOCK SIZES AVAILABLE:

CAT. NO.	DESCRIPTION	SIZE
ORS-780-10108	WD-40® Aerosol	8 oz.
ORS-780-10110	WD-40® Liquid Refill	1 Gallon

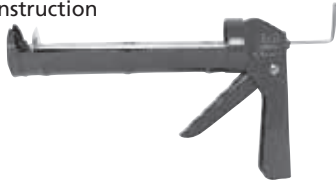


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CAULKING GUNS AND ADHESIVES

33 RATCHET ROD CRADLE CAULKING GUN

- All Steel Welded Construction
- 5:1 Thrust Ratio
- Size: 1/10 Gallon



315 INDUSTRIAL CARTRIDGE SUPER RATCHET ROD CAULKING GUN

- Zinc Chromate Plated
- 6:1 Thrust Ratio
- Size: 1 Quart
- Seal Puncture Tool
- Built-In Spout Cutter
- Ladder Hook
- No-Pinch Finger Guard
- D-Ring
- Wrist Strap



4000[®] VOC-COMPLIANT SUBFLOOR & DECK CONSTRUCTION ADHESIVE

This latex-based formula provides the same superior performance as the solvent-based DAP[®] 4000[®] Subfloor Adhesive. It is VOC compliant and meets APA AFG-01, ASTM Specification D 3498 and conforms to HUD UM-60a. Forms strong weatherproof bonds on wet, frozen, or dry lumber, as well as treated lumber, metal and concrete. Low odor and easy water clean-up. Interior/exterior use.



27038 28.0 fl. oz.
27030 10.3 fl. oz.

BEATS THE NAIL[®]

The best all-purpose construction adhesive for general construction, remodeling, maintenance and repair projects. Quick-grab formula provides a high-strength, heat and water resistant bond to a variety of substrates. Meets ASTM Specification C 557. Interior/exterior use.



25084 28.0 fl. oz.
25082 10.3 fl. oz.

SILICONE 100% SILICONE SEALANT

Superior quality, multi-purpose sealant. Offers long-lasting flexibility and excellent adhesion. Provide a weatherproof, watertight seal. Resists cracking, crumbling and chalking. Interior/exterior use. 50 Year Durability Guarantee. Meets Federal Specification TT-S-001543A, Class A.



08641	10.1 fl. oz. Clear Silicone Caulking	08646	10.1 fl. oz. White Silicone Caulking
08642	10.1 fl. oz. Black Silicone Caulking	08647	10.1 fl. oz. Bronze Silicone Caulking
08643	10.1 fl. oz. Aluminum Silicone Caulking		

ALEX PLUS[®] ACRYLIC LATEX CAULK PLUS SILICONE

Superior quality, multi-purpose acrylic latex caulk plus silicone. Highly flexible and durable. Excellent adhesion. Cured caulk is mildew resistant. Interior/exterior use. Paintable. Water clean-up. 35 Year Durability Guarantee. Exceeds ASTM Specification C 834.



18071	10.1 fl. oz. Clear Latex Caulk	18107	10.1 fl. oz. Black Latex Caulk
18101	10.1 fl. oz. White Latex Caulk	18109	10.1 fl. oz. Dark Bronze Caulk

ALEX[®] PAINTER'S ACRYLIC LATEX CAULK

All purpose acrylic latex painter's caulk. Applies smoothly and easily. Adheres to wood, plaster, drywall and masonry. Resists cracking and chalking. Interior/exterior use. Paintable. Water clean-up. 25 Year Durability Guarantee. Meets ASTM Specification C 384 for extrudability, artificial weathering, extension-recovery and slump.



18065 10.1 fl. oz.
White Painter's Caulk



POLY SHEETING AND KRAFT PAPER



Fire Retardant Polyethylene Also Available

Contact your Newman Representative

POLYETHYLENE CLEAR ROLL

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
P212200	12' x 200' 2mil	P420100	20' x 100' 4mil
P22200	20' x 200' 2 mil	P610100	10' x 100' 6mil
P410100	10' x 100' 4mil	P612100	12' x 100' 6mil
P412100	12' x 100' 4mil	P620100	20' x 100' 6mil

REINFORCED KRAFT PAPER

- Low-cost easy to install for protecting tile and wood flooring from spills, staining and dirt.
- Two layers of high strength kraft paper reinforced with a 1/2" x 1/2" double layer of webbed fiberglass.
- Water and slip resistant.
- Nonstaining, high tear, puncture and abrasion resistant
- Recommend using Blue Masking Tape with a 5"- 6" verlap when installing the product.



PART NO.	DESCRIPTION	ROLL SIZE	WEIGHT
KP200	Reinforced Krapft Paper	48" x 300'	32 lb.
P22200	Reinforced Krapft Paper	72" x 300'	48 lb.

TAPE, CABLE TIES AND TIE WIRE

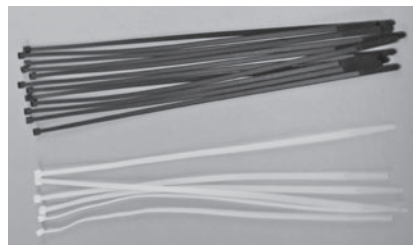


DUCT AND MASKING TAPE

CATALOG NO.	DESCRIPTION
MT-1	1" Masking Tape
MT-2	2" Masking Tape
ORS-573-684167	2" x 60' Silver Duct Tape

ELECTRICAL TAPE

CATALOG NO.	DESCRIPTION	PKG. QTY.
ET-BLACK	3/4" x 60' Black Tape	10
ET-BLUE	3/4" x 66' Blue Tape	10
ET-BROWN	3/4" x 66' Brown Tape	10
ET-GRAY	3/4" x 66' Gray Tape	10
ET-GREEN	3/4" x 66' Green Tape	10
ET-ORANGE	3/4" x 66' Orange Tape	10
ET-PURPLE	3/4" x 66' Purple Tape	10
ET-RED	3/4" x 66' Red Tape	10
ET-WHITE	3/4" x 66' White Tape	10
ET-YELLOW	3/4" x 66' Yellow Tape	10



NYLON CABLE TIES

CATALOG NO.	OVERALL LENGTH	TENSILE STRENGTH	PKG. QTY.
BLACK CT6B	NATURAL CT6N 6"	18 lbs.	100
CT8B	CT8N 8"	18 lbs.	100
CT11B	CT11N 11"	40 lbs.	100
CT14B	CT14N 14"	40 lbs.	100
CT24B	CT24N 24"	175 lbs.	50

TW-16 3.5 LB. REBAR TIE WIRE

16-gauge square core re-bar wire. These uniform coils of annealed wire weigh about 3-1/2 lb. each and contain approximately 285 ft. of wire.





(800) 733-0089 • (781) 329-4000 • FAX: (781) 326-4757

CARPET AND FLOOR FILMS

FILMTECH

CARPET PROTECTION FILMS

When your carpet needs to be protected against continuous heavy usage, choose FILMTECH Carpet Protection Films for maximum protection. Simply roll out the film for long lasting, durable protection.



- Superb puncture and tear resistance
- Protects carpets with standard or economy for up to 30 days, with premium up to 45 days
- Adhesive backing maintains smooth walking surface without lifting at the edges or middle
- Saves clean-up time and expense while keeping carpets clean and looking "new"!

Item No.	UPC	Description	Color	Size	Qty/Case	Case/Pallet
FTC24x200S	242023	Carpet Protection Film	Clear	24" x 200'	1	30
FTC24x500S	245024	Carpet Protection Film	Clear	24" x 500'	1	30
FTC36x200S	362028	Carpet Protection Film	Clear	36" x 200'	1	30
FTC36x500S	365029	Carpet Protection Film	Clear	36" x 500'	1	24
FTC48x500S	485024	Carpet Protection Film	Clear	48" x 500'	1	20

ProFilm – Standard Carpet Protection – 30 day heavy duty traffic

HARD SURFACE / FLOOR PROTECTION FILMS

FILMTECH Floor Protection is a specially designed, self-adhesive polyethylene film for temporary protection of hard surfaces, such as factory finished hardwood, laminate flooring, linoleum, VCT or ceramic tile floors and countertops.



- High-strength, puncture, tear and scratch resistant
- Protects floors/countertops and hard surfaces for up to 30 days
- Great for most hard surfaces such as corian, surell (formica), granite, silverstone, avonite, ceramic tile, etc.
- Protects tile grout from staining

Item No.	UPC	Color	Size	Qty/Case	Case/Pallet
FTF24x200	242030	Blue	24" x 200'	1	50
FTF24x500	245031	Blue	24" x 500'	1	30

PROFESSIONAL CARPET / FLOOR FILM APPLICATORS

This heavy-duty applicator was designed as a professional tool! Solid steel construction will hold-up to repeated use. Innovative "sliding jaw" for easy loading of wide rolls.



NEW!

Adjustable 24" / 36" / 48" Applicator!

Model Number	Size	Coverage Wt. Lbs.
FTA21HD	21" HEAVY DUTY	4
FTA24HD	24" HEAVY DUTY	7
FTA36HD	36" HEAVY DUTY	11
FTA48HD	48" HEAVY DUTY	16
FTA24/36/48	24" / 36" / 48" ADJUSTABLE	—

**Not Listed?
CALL US**

**It may be in stock or
we can order it for you**



SURFACE AND AREA PROTECTION



ADHESIVE FLOOR MATS

STOP DIRT WHERE IT STARTS! Tacky walk-on surface cleans dust and dirt from shoes prior to entering or before exiting the jobsite. Each mat has 30 layers which are individually tabbed for easy removal. When the top sheet becomes too dirty, peel it away to expose the next clean layer. Adhesive Floor Mats can be used with or without the green mat frame.



Item No.	UPC	Description	Color	Size	Qty/Case	Case/Pallet
FTM24x36Blue	741038	Adhesive Mat	Blue	24" x 36"	1	4
FTM24x36	744442	Filmtech Mat Frame	Green	24" x 36"	1	1



BATHTUB PROTECTOR

DON'T SPEND HOURS PAINTING YOUR TUBS WITH BLUE GOO!

Heavy 40 mil poly liner designed to protect a standard 5 ft tub during construction, renovation or painting. Integrated foam padding for extra protection of tub bottom and top of outer wall. Tub liner can be held in place with FILMTECH Threshold tape for secure fit.

- Protects bathtubs from scratches, paint spray and wet joint compound
- Installs in seconds and is reusable
- Can be folded for easy carrying/shipping

Item No.	UPC	Description	Qty/Case
FTTP5	555581	(1) 5' Tub Protector	1
FTTP5-20	555598	(20) 5' Tub Protectors	1

SHOE COVERS WITH SKID FREE SOLES

Shoe covers are a great way to protect your job site against dirty foot traffic while impressing your customers by showing concern for their carpets and floors. Use these slip-on shoe covers with skid free soles during site inspections, maintenance, repair work or home tours. Comes in extra large size.



MODEL NUMBER	SIZE	COVERAGE WT. LBS.	PCS./CASE
FTSCR50BLUE	50 PAIRS (REGULAR)	2	100
FTSCR150BLUE	150 PAIRS (REGULAR)	6	300
FTSCL50BLUE	50 PAIRS (X-LARGE)	2	100
FTSCL150BLUE	150 PAIRS (X-LARGE)	6	300



PAINTERS MASKING TAPE

For all trades...builders, flooring contractors, drywallers, painters, etc.

- High-quality, professional grade
- UV resistant up to 5 days

MODEL NUMBER	SIZE	COVERAGE WT. LBS.	PCS./CASE
FTR1x60UPM	1" x 60YDS	16	48
FTR1.5x60UPM	1.5" x 60YDS	16	32
FTR2x60UPM	2" x 60YDS	16	24

DOUBLE PACK ZIPPER

Once you've designed your barrier wall system, make any size doorway to enter or exit the space. The use of our Zipper System allows an immediate entrance or exit to any enclosed area. Aside from containing dust and debris, this system also allows one to contain heat. Easy to apply and use, these doorway zippers are 3" wide and 83 inches long, and meet federal containment specifications for asbestos removal. We recommend the use of 2 zippers approximately 4-5 feet apart to create a roll-up door to facilitate ease of access/egress, especially when carrying equipment, such as ladders or poles-or when both hands are full and unable to push aside the single plastic door.



MODEL NUMBER	SIZE	PCS./CASE
FTZ83	3" x 7' HEAVY DUTY	2



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CARTS AND WHEEL BARROWS



HEAVY DUTY UTILITY CARTS

- No sharp edges to damage walls or furniture
- 5" non-marking casters for quiet movement
- Easy to keep clean and sanitary
- Optional middle shelves available
- Accommodates up to 400 lbs. - 200 lbs. per shelf



CAT. NO.	DESCRIPTION	COLOR
4500-88	Utility Cart, 16" x 30" x 32-1/4"	Gray
4520-88	Utility Cart, 24" x 36" x 32-1/4"	Black

CB-14 CANVAS BASKET

- 1,000 lb. capacity • 14 Bushel canvas cart
- Four swiveling rubber wheels



JACK-M6 WHEELBARROW

- Jackson Wheelbarrow
- 6 cu ft. Steel Body
- 16" Pneumatic Tires
- Blue Tray - Wooden Handles



JA165 REPLACEMENT WHEEL FOR WHEELBARROW

- 16" Diameter Flat Proof Wheel

TRADE TITAN™ INDUSTRIAL WORK CARTS



**48-60-5010
TRADE TITAN™
INDUSTRIAL WORK CART**



**48-60-5015
TRADE TITAN™
INDUSTRIAL WORK CART
WITH LOCKING CABINET**



- Durable heavy-duty structural foam construction with a steel reinforced base deck
- Industrial grade 6" x 2" non-marking, rubber round tread casters with total locking brakes
- Dedicated storage areas for frequently used tools and drawer for secure storage
- A large open storage area with a 4-1/2 in. sidewall to keep fasteners, fittings and small parts boxes secure and organized
- Can be customized for specific work applications with several trade accessories that mount to the front of the cart and can be used by electrical, plumbing, mechanical and maintenance trades



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TRADE TITAN™ WORK CART ACCESSORIES

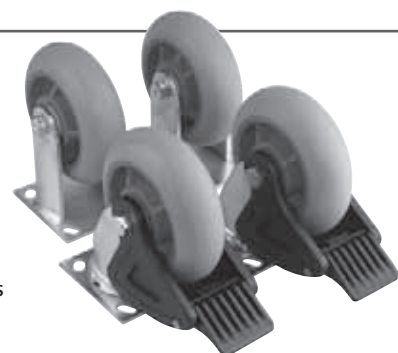


48-60-5115 TRADE TITAN™ 2-1/2" CHAIN VISE

- Mounts in line to the front end of the cart's molded in material cutting groove for applications that require material to be secured
- Vise has a capacity of 1/8 in. to 2-1/2 in.
- Includes mounting plate and hardware

48-60-5120 TRADE TITAN™ HEAVY-DUTY 6" X 2" CASTER SET

- Industrial grade 6" x 2" rubber casters with total lock brakes
- Non-marking, round rubber tread for smooth, quiet performance
- Includes two (2) Swivel Casters with Total Lock Brake and two (2) Rigid Casters
- Load rating of 450 lbs. per caster



48-60-5100 TRADE TITAN™ REMOVABLE WIRE SPOOL RACK

- Three (3) heavy-duty wire caddies each hold up to one (1) network of four (4) 500 ft. spools of 12 AWG wire
- Caddies allow wire to be pulled when they are mounted to the cart or with the wire caddy on the floor
- Carrying handle on each wire caddy makes transportation to pull location easy

48-60-5105 TRADE TITAN™ TANK AND EXTINGUISHER KIT

- Allows up to two (2) 'B' size Acetylene tanks and one (1) 20 lb. fire extinguisher to be securely mounted to the front of the cart
- Fire extinguisher mounting bracket accepts up to 20 lb. fire extinguisher
- 'B' tank and fire extinguisher secured to cart with brackets
- Fire extinguisher is not included with kit



Fire Extinguishers on Page 23



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ROPE AND TWINE

POLYPROPYLENE ROPE

Polypropylene is almost twice as strong as manila and is resistant to mildew, rot and most chemicals. It floats on the surface of the water and has only moderate stretch.



NOTE: Other styles and sizes of Polypropylene rope available. Contact your Newman Representative.

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
TW-31-001	1/4" X 50' Coil	TW-80-025	3/8" X 600' Coil
TW-31-011	1/4" X 100' Coil	TW-80-027	3/8" X 1200' Coil
TW-80-007	1/4" X 300' Coil	TW-31-033	1/2" X 100' Coil
TW-80-010	1/4" X 600' Coil	TW-80-033	1/2" X 300' Coil
TW-80-015	1/4" X 1200' Coil	TW-80-030	1/2" X 600' Coil
TW-31-022	3/8" X 100' Coil	TW-80-032	1/2" X 1200' Coil
TW-80-026	3/8" X 300' Coil		

MANILLA ROPE

High quality manila rope. This product meets the highest Gov't. Spec. TR-605B, Class I. Strong and durable with high breaking strengths.



PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
TW-26-011	1/4" X 100' Coil	TW-30-003	3/8" X 600' Coil
TW-25-001	1/4" X 600' Coil	TW-30-023	3/8" X 1200' Coil
TW-30-001	1/4" X 1200' Coil	TW-30-004	1/2" X 600' Coil
TW-25-003	3/8" X 300' Coil	TW-30-044	1/2" X 1200' Coil

TW-34-201 SISAL TWINE

Sisal is the most economical natural fiber twine available. It is strong, rugged and holds well without much stretch.



2 Ply 480 Sisal Twine 5# Ball

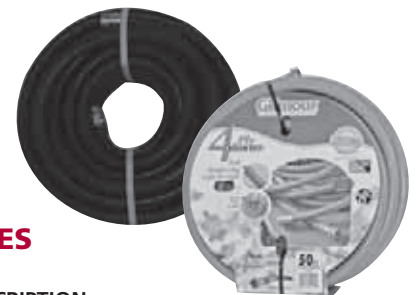
WATER PRODUCTS

ORS-663-2305-03 GEYSER® SUBMERSIBLE UTILITY PUMP



- 1/16 HP, portable and versatile
- Pumps down to 1/8"
- Thermoplastic body resists corrosion, impact, stress and heat
- Maximum pumping capacity to 1260 gallons per hour
- No automatic shut off feature - must unplug pump
- Includes 8' power cord and garden hose adapter
- 1 year warranty

WATER HOSES AND ACCESSORIES



CATALOG NO.	DESCRIPTION
ORS-305-15-5850	5/8" x 50' Vinyl Garden Hose
NER-228-50	3/4" x 50' Black Rubber Contractor Hose
NER-SN75	Pistol Grip Hose Nozzle



WHITE PLASTIC PAIL AND LID

CATALOG NO.	DESCRIPTION
PPP5	5 Gallon White Plastic Pail
PPP5L	Plastic Lid



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TILT TRUCKS, CONTAINERS AND ABSORBENTS



INDUSTRIAL TILT TRUCKS

- Durable, plastic construction for long life
- FUNNEL shaped body design direct contents for quick and easy emptying
- Available in Utility, Standard and Heavy-Duty models; 1/2 and 1 cu. yd. capacities
- Molded-in hand grip for greater leverage and control when dumping
- Inset wheel and axle design helps prevent damage to interior surfaces and equipment
- Optional domed, hinged lid to conceal loads without reducing capacity
- Color: Gray

CAT. NO.	DESCRIPTION
1304	1/2 cu. yd. 300 lb. cap. Utility Duty
1305	1/2 cu. yd. 750 lb. cap. Standard Duty
1314	1 cu. yd. 750 lb. cap. Utility Duty
1315	1 cu. yd. 1000 lb. cap. Standard Duty

ROUND BRUTE® CONTAINERS AND ACCESSORIES



- Available in 3 sizes - 32, 44 and 55-gallon capacities
- All plastic, professional-grade construction will not rust, chip or peel and resists dents
- Strong, snap-on lids for secure, stable stacking with reinforced rims for added durability
- Built-in handle grips for easy non-slip lifting; easy anti-jam nesting
- Dome top available • Dome top door swings shut to trap odors in, keep water out

CAT. NO.	DESCRIPTION	CAT. NO.	DESCRIPTION
2631	Lid, 32 gal., Gray	2643	Container, 44 gal., Gray
2632	Container, 32 gal., Gray	2645	Lid, 44 gal., Gray
2637	Dome Top, 32 gal., Gray	2655	Container, 55 gal., Gray
2640	Dolly for 32, 44 & 55 gal., Black		



TRASH LINERS

PART #	SIZE	CAPACITY	ML	QTY./ CTN.
GOL-TY-G3860	22" x 16" X 58"	55 Gal.	1.7	100 / CTN (Black / Gorilla Bag)
GOL-TY-G4048	23" X 17" X 46"	42 Gal.	1.7	100 / CTN (Black / Gorilla Bag)
GOL-TY-G3340	23" X 10" X 39"	32 Gal.	1.7	100 / CTN (Black / Gorilla Bag)
GOL-TY-PL2-3311	24" X 33"	12-15 Gal.	0.4	1000 / CTN (Black / Tall Kitchen Bag)
GOL-TY-G4348	42.5" X 47"	42 Gal.	2.0	100 / CTN (Extra Wide - Black / Badboy Bag)



IO5000-L80 OIL-DRI® QUICK-SORB®

Quick-Sorb® is specially designed to absorb up to twice as much fluid per pound as conventional clay. The smaller granules offer more surface area for greater absorption power. Strong granules improve traction and won't break down when saturated.

Size: 20 lb. pail

SRS155 REGULAR SWEEP SWEEPING COMPOUND

Regular use of a sweeping compound will protect merchandise from dust accumulation and helps to prevent sickness and disease by absorbing germ-laden dust and keeps floors in a sanitary condition.

A green, oil based sweeping compound that contains a very fine screened sand. For use on cement floors.

Size: 15.5 Gallon Drum Container



SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA



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FLOOR SWEEPS, HANDLES & BRACES



FLOOR SWEEPS

Fine Sweep



Lacquered Hardwood block with 100% black horsehair bristles, for fine sweeping of smooth floors such as tile, linoleum, polished hardwood, etc. Two threaded holes. Use with threaded wood handles 89889 or 89883.

Block Length	Trim Length	EDP No.	
18	3	89210	12
24	3	89211	12
30	3	89212	12
36	3	89213	12

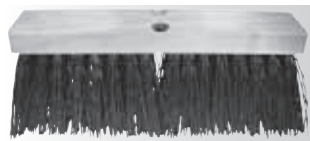
Garage Broom



Lacquered Hardwood block with stiff Polypropylene fill that resists grease, water, and oil. For wet or dry sweeping of concrete or asphalt. Use with threaded wood handles 89889 or 89883.

Block Length	Trim Length	EDP No.	
18	4	89326	12
24	4	89327	12

Street Broom



Sanded Hardwood block contains durable stiff synthetic fiber with flared end. Brown plastic fill will outlast most natural fibers. Use with tapered wood handle 89899.

Block Length	Trim Length	EDP No.	
14	5-1/4	89347	12
16	5-1/4	89348	12
18	5-1/4	89349	12
24	5-1/4	89350	12

Corn Broom



Selected corn filament for light sweeping on smooth surfaces. Compact broom with 3 twine sews and one wire band for long life.

Handle Size (dia. x length)	Sweep Width	Trim Length	Overall Length	EDP No.	
7/8 x 37	10	9-1/2	56	89376	12
1-1/8 x 37	11	10-1/2	56	89377	12

BROOM HANDLES AND BRACES

Metal Threaded



Smooth lacquered hardwood handle with metal threaded end easily attaches to push brooms.

Handle Length (feet)	Handle Dia. (inches)	EDP No.	
5	15/16	89889	12

Wooden Threaded



Smooth lacquered hardwood handle easily attaches to push brooms.

Handle Length (feet)	Handle Dia. (inches)	EDP No.	
5	15/16	89883	12

Wooden Tapered



Tapered wooden handle for use with push brooms, deck scrubs, window/roof brushes, and squeegees.

Handle Length (feet)	Handle Dia. (inches)	EDP No.	
5	1-1/8	89899	12

Handle Brace - Standard



Handle Brace - Heavy Duty



Brace Type	EDP No.	
Standard	89921	1
Heavy Duty	89922	1



MAINTENANCE BRUSHES



SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA

CHIP BRUSHES

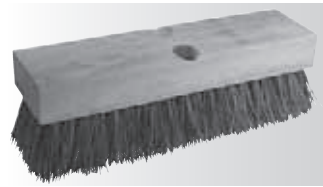


High volume/low priced brushes for a wide range of "Utility" projects. Painting, gluing, touch-up, chip removal, parts cleaning, and other industrial applications.

Economy quality white bristle. Wood handles.

Width (In.)	Thickness	Overall Length	Trim Length	EDP No.	
1/2	1/4	7	1-1/2	89695	36
1	5/16	7-1/2	1-1/2	89696	36
1-1/2	5/16	7-1/2	1-1/2	89697	24
2	3/8	8	1-3/4	89698	24
2-1/2	3/8	8	1-3/4	89699	24
3	3/8	8	1-3/4	89700	24
4	3/8	8	1-3/4	89701	12

DECK BRUSHES



For scrubbing floors and decks. For home and industrial use. 6 x 18 rows set in hardwood block. Use with tapered wood handle 89899.

Block Size (L x W)	Filament Type	Trim Length	EDP No.	
10 x 2-3/4	Palmyra	2	89514	12
12 x 2-3/4	Palmyra	1-7/8	89515	12
10 x 2-3/4	Hi-Density Tampico	2	89516	12
10 x 2-3/4	Polypropylene	2	89517	12

SQUEEGEES



Premium performance squeegee features superior cadmium steel frame and heavy Neoprene blade. Use with tapered wood handle 89899.

Overall Length (In.)	Blade Size (w x d)	EDP No.		
		Squeegee	Refill Blade	
18	2 x 1/4	89473	89499	12

COUNTER DUSTER, DUST PANS



Premium Line counter duster for very fine sweeping, black horsehair fill set in hardwood block.

Brush Part Length	Trim Length	EDP No.	
8	2-1/2	89390	12



Black metal hand dust pan is 20 gauge steel with enamel finish.

Edge Length	EDP No.	
12	89876	12
16	89877	12



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SHOVELS

UnionTools®

RAZOR-BACK®

45520 ROUND POINT DIGGING SHOVEL



- For digging and excavation in hard, rocky soil
- Largest open-back industrial gauge tempered steel blade with forward turned step
- 11" Extended tab socket to reduce handle breakage
- 48" premium Northern White Ash handle

42116 D-HANDLE SQUARE POINT TRANSFER SHOVEL



- For transferring heavy, loose material
- Largest open-back industrial, tempered steel blade
- 30" premium Northern White Ash handle
- Steel and wood D-Grip for added strength

43205 D-HANDLE ROUND POINT DIGGING SHOVEL



- For digging in hard, rocky soil
- Largest open-back industrial, tempered steel blade with forward-turned step
- 30" premium Northern White Ash handle
- Steel and wood D-Grip for added strength

44124 SQUARE POINT TRANSFER SHOVEL



- For transferring heavy, loose material
- Largest open-back, industrial gauge, tempered steel blade
- Forward-turned blade step for comfort
- 48" premium Northern White Ash handle

SNOW REMOVAL

79770 POLY SCOOP



- For scooping snow, mulch or general purpose clean-up
- #12 Size equivalent, 14-3/4" x 18-3/4" ABS blade
- 29" Ash wood handle with poly D-grip

IC-CALC-BAG ICE MELT

**In Stock For
Immediate
Delivery**

Calcium Chloride Pellets 50 Pound Bag



Be prepared.

See our wide selection
of professional gloves
starting on Page 15



**Fuzzy Hand®
MAX**

- Polar Fleece Back
- Waterproof Lining
- Sure Grip Reinforcements
- Storm Cuff
- Available in Safety Orange with Reflective



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SAFETY PRODUCTS

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MOPS AND BROOMS



**AMS-REN-02154
HEAVY DUTY WET MOP**

Blue, 4-ply cotton / rayon blend



**REN02182
24" x 5" DUST MOP**

Patented premium twist cotton yarn won't fray or unravel. Effective for normal industrial use. Comes pre-laundered and ready to use. 3 bottom rows of yarn effectively pick up dust and grime. Date coded to prove long life. Launderable.



**REN-02607
MOP HANDLE**

60" Fiberglass wet mop handle



**AMS-RCP-758000Y
BUCKET AND WRINGER COMBINATION**

The Rubbermaid™ WaveBrake® 35 quart mop bucket and wringer system reduces splashing, which means a safer environment, cleaner floors, and improved productivity. YELLOW

TOWELS AND TISSUE



**REN05155
PUSH BAR TOWEL DISPENSER**

Automatic transfer system for stub roll. Towel cabinet features full push bar to dispense paper. Handles up to 8" wide roll and 4" diameter stub roll. Maximum core size 2". Meets ADA requirements.



**KCC01005
PAPER TOWELS
FOR DISPENSER REN05155**
WHITE UNIVERSAL
6 ROLLS PER CASE / 1,000 SHEETS EACH

Tailored for areas where function is just as important as quality, the Scott line offers towels and DISP systems that are both practical and cost effective.



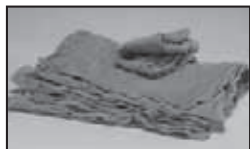
**BW-400
PAPER TOWEL**
30 ROLLS PER CASE

Good absorbency and utility in a professional kitchen towel. Typical applications include windows, table wiping and paint preparation and spill clean-up. Renown Kitchen Roll Towels are the right blend quality, performance and cost effectiveness.



**REN06004-KR
NATURAL TOWELS**
BROWN-UNBLEACHED
6 PKGS PER CASE / 800 SHEETS EACH

100% Natural Towels are made from recycled material utilizing our unbleached process. Superior workmanship and consistent quality.



WOVEN RAGS AND TOWELS

CATALOG NO.	DESCRIPTION	PKG.
RAG-#5	White Knit Wipes - Painter's Grade	5 lb. Box
WC-POLO-COL	Colored Polo Rags	50 lb. Box
HOS534-50	White Terry Cloth Rags	50 lb. Box



**REN06104-KR
STANDARD TOILET TISSUE**
96 ROLLS PER CASE / 500 2-PLY SHEETS PER ROLL

Premium quality, overall embossed 2-ply tissue. Individually paper overwrapped rolls.



**REN06151-KR
FACIAL TISSUE**
36 BOXES PER CASE / 100 2-PLY SHEETS PER BOX

Flat pack carton dimensions fit into recessed wall or in counter dispensers.



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JANITORIAL SUPPLIES

HAND CLEANERS



ORS-315-0955-04
GOJO® NATURAL* ORANGETM PUMICE HAND CLEANER
1 GALLON WITH PUMP DISPENSER / 4 PER CASE

Quick-acting lotion formula with pumice scrubbing particles for cleaning a broad range of industrial soils, medium dirt and grease. Orange citrus scent. *Natural citrus ingredient



AER5021
SCRUBS IN-A-BUCKET® HAND CLEANER TOWELS
72 PREMOISTENED HAND CLEANER TOWELS PER BUCKET

These tough towels are so strong they can clean away most adhesives, sealants, paint, tar, wax, grease, dye and many other materials. They are premoistened, heavy duty hand cleaner towels that go where you go. They remove soils from your hands and leave them feeling great! Powerful, yet safe, the patented citrus-based formula works together with an absorbent, non-scratching abrasive hand cleaner towel for dependable proven performance.



REN02495
FOAM LOTION SOAP - BERRY SCENT
1.25 ML DISPENSER 3 PER CASE

Pink formula cleanses hands with a rich lather and a fresh cranberry fragrance. For general handwashing.

SPONGES AND SCOURING PADS



REN02117
SCRUB SPONGE #63 - LIGHT DUTY

One side for light duty scouring; sponge side for absorbing liquids or carrying cleaning solutions to a surface; Won't scratch most surfaces; Cleans up stainless steel, glass and ceramic, fine china, porcelain, and non-stick cooking surfaces. **20 PER CASE**



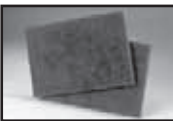
REN02118
SCRUB SPONGE #74 - MEDIUM DUTY

One side for general purpose scouring; sponge side for absorbing liquids or carrying cleaning solutions to a surface; Use on tables, fixtures, countertops and floors. **20 PER CASE**



REN02119
UTILITY SPONGE C21 - SMALL

Yellow cellulose sponges are 10 times more absorbent than polyurethane sponges* Stronger, less likely to fall apart. A size for every clean-up need. *Water absorption by weight. **48 PER CASE**



REN02114
SCOURING PAD #96 - MEDIUM
For most common cleaning jobs; Cleans pots, pans and kitchen equipment. **20 PER CASE**



REN02116
SCOURING PAD #86 - HARD
For tough maintenance jobs; In the kitchen replaces scrapers, steel wool and metal sponges. **15 PER CASE**

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JANITORIAL SUPPLIES

GLASS CLEANERS



REN02812-UC GLASS CLEANER - AMMONIA

Designed to be especially aggressive against oily or greasy soils. A unique surfactant system will react with grease and soils to facilitate soil removal. This ammoniated glass cleaner will dry fast and will not leave streaks. This heavy-duty glass cleaner is ideal for use in restaurants, cafeterias, institutional kitchens and industrial facilities. **CASE OF 12 / 32 OZ**



Glass Plus® GLASS CLEANER - NON AMMONIA

A light-duty non-ammoniated cleaner for windows, mirrors, appliances and more. **12 Bottles per Carton 32-oz. Trigger Spray**

DEGREASER AND ALL PURPOSE CLEANERS

REN02703-UC RENOWN SPRAY DEGREASER

Industrial strength Ready-to-Use all purpose formula is a blend of powerful cleaning ingredients and power booster. Instantly penetrates the toughest oily, greasy and lifts stubborn soils from surfaces. **CASE OF 12 / 32 OZ**



Fantastik® ALL-PURPOSE SPRAY CLEANER

Fast cleaning of most washable surfaces. Removes stubborn soils such as grease, pencil, smoke film, scuff marks, crayons and fingerprints. No rinsing required. **SINGLE BOTTLE 32-OZ. TRIGGER SPRAYER**



REN05061 ALL PURPOSE PRE-MOISTENED WIPES

Virtually any surface can quickly and easily be cleaned with the convenience of a pre-moistened wipe. No need for multiple cleaning products, soap, water, a sink, or even a towel. It's all here in one package. Cleaning heavily soiled hands is an ideal use, particularly if you do not have access to soap and water. A pleasant fragrance leaves hands and the work area smelling fresh and clean without a sticky residue. **CASE OF 6 / 75 COUNT CANISTERS**



REN02831-UC CITRUS DEGREASER / CLEANER

Natural citrus solvent d-limonene, one of nature's strongest cleaners, is coupled with detergents and emulsifiers to create this aggressive and versatile cleaner-degreaser. This concentrated cleaner provides rapid penetration and removal of heavy or tenacious soils. It can be used in a wide variety of cleaning applications to remove organic and inorganic soils from virtually any washable surface. Diluted properly this product is not harmful to metals, aluminum, glass or floor finishes. **CASE OF 4 / GALLON**



AMS-SV-13005 SIMPLE GREEN® ALL PURPOSE CLEANER NON-TOXIC • NON-FLAMMABLE BIODEGRADABLE • NON-ABRASIVE

Simple Green® is a dark green liquid with a sassafras odor. Contains blend of synthetic, high-grade penetrants activated by water. Custom dilute for specialized cleaning in a broad range of applications. Mild pH of 9.3-9.5. Contains no petroleum distillates. Exempt from OSHA and EPA special handling and personal protection requirements for hazardous materials. **1 GALLON**

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PHD Manufacturing, Inc.

HANGERS, SHIELDS & INSULATION



FIG. 35
Weldless Eye Nut
See Page 222



FIG. 38
Forged Steel Clevis
See Page 223

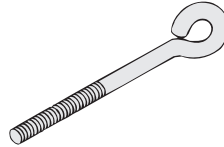


FIG. 50-55L
Eye Rod
See Page 224

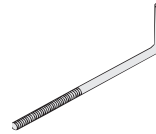


FIG. 70
Anchor Bolt
See Page 222

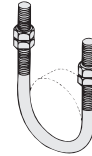


FIG. 90, 91, 93, 94, 90-1, 91-1, 93-1, 94-1
UBolts
See Page 225

HANGERS, SHIELDS & INSULATION

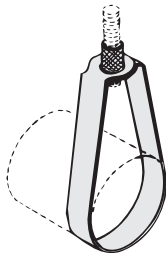


FIG. 141 & 151
Swivel Ring Hanger
See Page 226

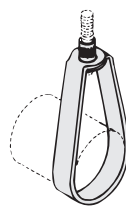


FIG. 152, 153 & 154
Copper Tubing Ring Hanger
PVC Ring Hanger
See Page 227

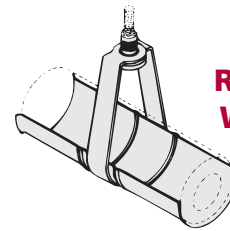


FIG. 155
Ring Hanger With Shield
See Page 228

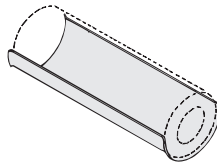


FIG. 170
Insulation Shield
See Page 230

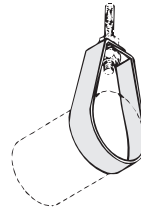


FIG. 180-183
Band Hanger
See Page 231

BEAM CLAMPS



FIG. 250 & 250-1
Steel C-Clamp
See Page 232



FIG. 259
C-Clamp Retaining Strap
See Page 233

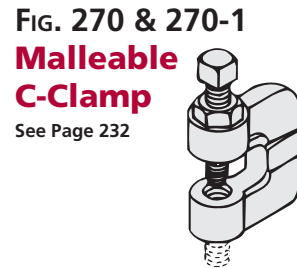


FIG. 270 & 270-1
Malleable C-Clamp
See Page 232



FIG. 290
Purlin Clamp
See Page 233

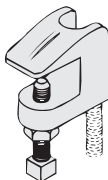


FIG. 350 & 350-1
Malleable Beam Clamp
See Page 234

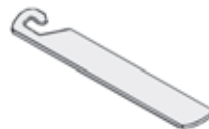


FIG. 358
C-Clamp Retaining Strap
See Page 233

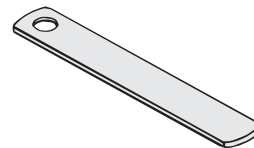


FIG. 359
Beam Clamp Retaining Strap
See Page 233

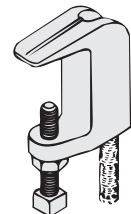


FIG. 360 & 360-1
Wide Mouth Beam Clamp
See Page 234



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CLEVIS HANGERS

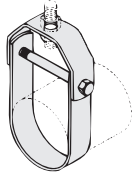


FIG. 420
A.W.W.A. Clevis
See Page 235

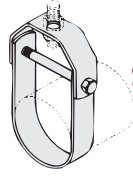


FIG. 425
Stainless Steel Clevis
See Page 238

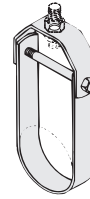


FIG. 430
Insulated Pipe Clevis
See Page 236

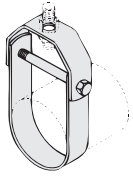


FIG. 440-442
Lt. Duty Clevis
Copper Tubing Clevis
See Page 237

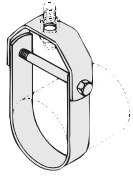


FIG. 450-454
Standard Clevis
See Page 238

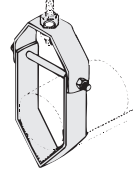


FIG. 450V & 450T
V-Bottom Clevis Support Trough
See Page 239

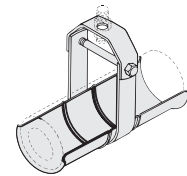


FIG. 455
Clevis With Secured Shield
See Page 240

PIPE ROLLER SUPPORTS

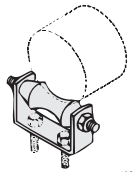


FIG. 460
Pipe Roller Chair
See Page 241

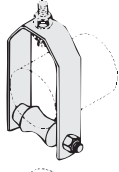


FIG. 470 & 475
Pipe Roller Hanger
See Page 242

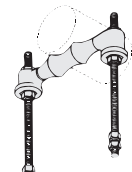


FIG. 480 & 480D
Adjustable Pipe Roller Support
See Page 243

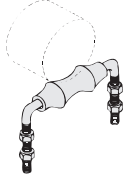


FIG. 483
Adjustable Pipe Roller Support
See Page 244

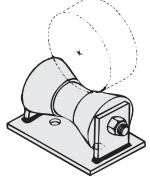


FIG. 486
Pipe Roller Stand
See Page 245

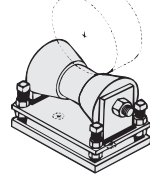


FIG. 487
Adjustable Pipe Roller Stand With Base
See Page 246

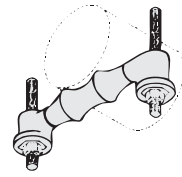


FIG. 490
Pipe Roller With Sockets
See Page 247

SPLIT RING HANGERS

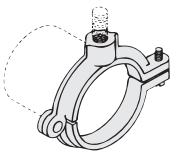


FIG. 508 & 508R
Hinged Extension Split Clamp
See Page 249

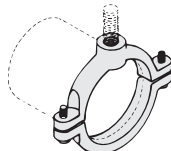


FIG. 510 & 510R
Extension Split Clamp
See Page 249



FIG. 512 & 512H
Copper Tubing Extension Split Clamp
See Page 250



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PIPE CLAMPS, CENTER LOAD BEAM CLAMPS AND SADDLES

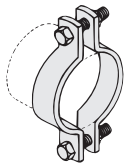


FIG. 520 & 521
Standard Pipe Clamp

See Page 251

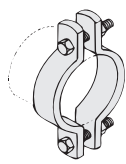


FIG. 522
Heavy Duty Pipe Clamp

See Page 252

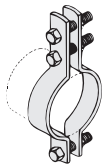


FIG. 525
Double Bolt Pipe Clamp

See Page 253

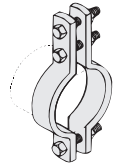


FIG. 526
Heavy Duty Double Bolt Pipe Clamp

See Page 254

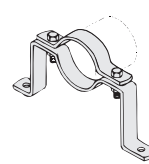


FIG. 535
Offset Pipe Clamp

See Page 255

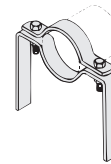


FIG. 545
Extended Pipe Clamp

See Page 255

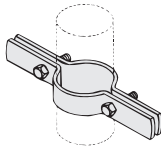


FIG. 550, 551 & 553
Riser Clamp

See Page 256

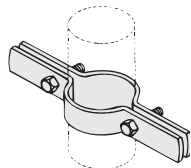


FIG. 552 & 554
Copper Tubing Riser Clamp

See Page 257

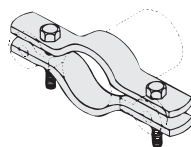


FIG. 580
Two Bolt Underground Pipe Clamp

See Page 258

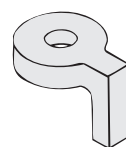


FIG. 585
Washer For Fig. 580

See Page 258

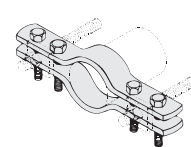


FIG. 590
Four Bolt Underground Pipe Clamp

See Page 259

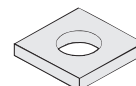


FIG. 595
Washer For Fig. 590

See Page 259

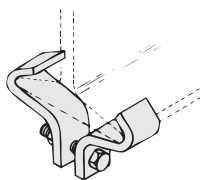


FIG. 610
Standard Duty Center Load Beam Clamp

See Page 260

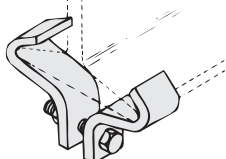


FIG. 620
Heavy Duty Center Load Beam Clamp

See Page 260

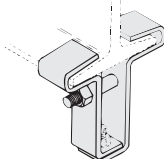


FIG. 625
Steel Center Load Beam Clamp

See Page 261

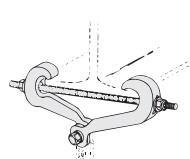


FIG. 630
Malleable Iron Center Load Beam Clamp

See Page 261

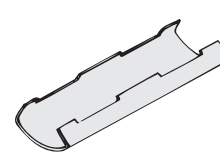


FIG. 651 THRU 658
Pipe Saddle For 1", 1 1/2", 2", 2 1/2", 3" & 4" Insulation

See Page 262 Thru 264

PIPE SUPPORTS

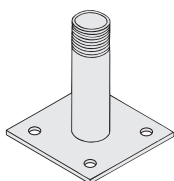


FIG. 871
Threaded Base Stand

See Page 269



FIG. 875
Adjustable Pipe Saddle Support

See Page 268



FIG. 876
Adjustable Pipe Saddle Support w/U-Bolt

See Page 268



FIG. 877
Pipe Support Adjuster

See Page 269

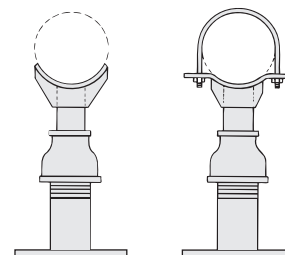


FIG. 878 & 879
Pipe Support Adjusters

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WALL BRACKETS

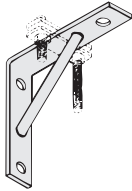


FIG. 850
Light Duty
Wall Bracket
See Page 266

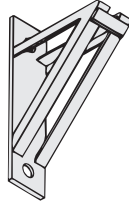


FIG. 855
Medium Duty
Wall Bracket
See Page 266

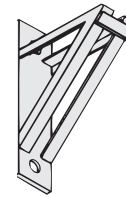


FIG. 860
Heavy Duty
Wall Bracket
See Page 267

MISCELLANEOUS

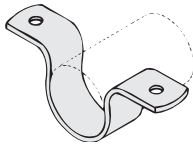


FIG. 830
Short
Pipe Strap
See Page 265

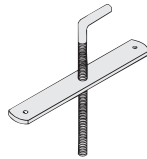


FIG. 885
Adjustable
Q-Deck Insert
See Page 270

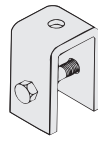


FIG. 900 & 900-1
Welded Beam
Attachment
See Page 271

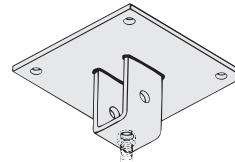


FIG. 903
Concrete Rod
Attachment Plate
See Page 272

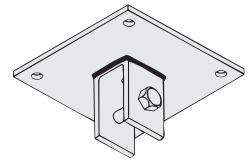


FIG. 904
Concrete
Clevis Plate
See Page 273

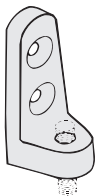


FIG. 905 & 905C
Side Beam
Connector
See Page 274

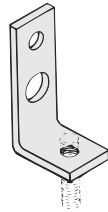


FIG. 907
Steel Side
Beam Bracket
See Page 274

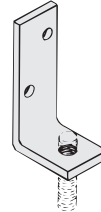


FIG. 908
Steel Side
Connector
See Page 274

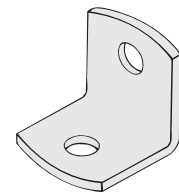


FIG. 920
Side Beam
Angle Bracket
See Page 275

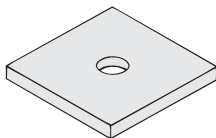


FIG. 930
Square Plate
Washer
See Page 275

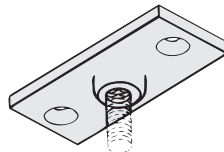


FIG. 940-942
Ceiling
Flange
See Page 276

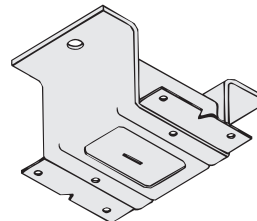


FIG. 950-951N
Concrete
Insert
See Page 276



FIG. 960
Turnbuckle
See Page 277

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THREADED ACCESSORIES



PHD Manufacturing, Inc.

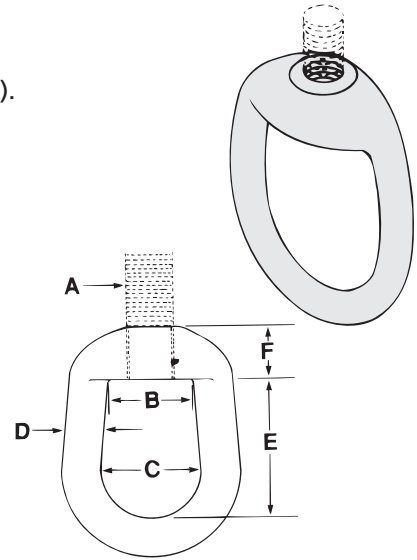
WELDLESS EYE NUT

FUNCTION: Designed for use in high strength and high temperature piping applications. Fig. 35L is designed to be used in conjunction with Fig. 960 forged steel turnbuckle, in applications where a vertical adjustment may be necessary.

APPROVALS: Complies with Federal Specifications A-A-1192A (Type 17) and Manufacturers' Standardization Society SP-69 (Type 17).

ORDERING: Specify rod size and figure number.

Fig. 35 RIGHT-HAND THREADS
Fig. 35L LEFT-HAND THREADS



MATERIAL: Forged steel
FINISH: Plain

Rod Size A	B	C	D	E	F	Max. Rec. Load/lbs.		Wt. Each (in lbs.)
						650°F	750°F	
3/8	1 1/4	1 1/2	1/2	2	1 1/16	730	540	.64
1/2	1 1/4	1 1/2	1/2	2	1 1/16	1350	1010	.61
5/8	1 1/4	1 1/2	1/2	2	1 1/16	1810	1610	.59
3/4	1 1/4	1 1/2	1/2	2	1 1/16	2710	2420	.57
7/8	1 1/16	2	3/4	2 5/8	1	3770	3360	1.67
1	1 1/16	2	3/4	2 5/8	1	4960	4420	1.65
1 1/8	2 1/4	2 1/2	1	3 3/8	1 1/4	6230	5560	3.68
1 1/4	2 1/4	2 1/2	1	3 3/8	1 1/4	8000	7140	3.57
1 1/2	2 1/4	2 1/2	1	3 3/8	1 1/4	11630	10370	3.43

Note: Supports loads equal to the full limitation of the hanger rod.

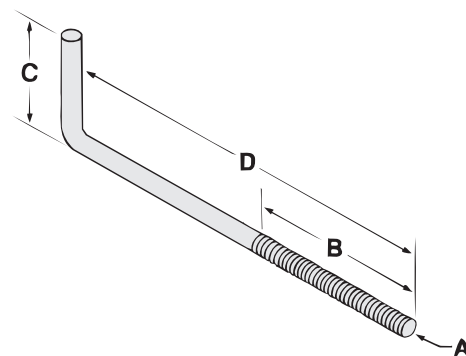
ANCHOR BOLT

FUNCTION: Designed to be embedded in concrete to provide a means for fastening devices from concrete surfaces.

Fig. 70

ORDERING: Specify rod size, length and figure number.

Rod Size A	Thread Length B	C	Wt. Each (in lbs.)			
			Length D (inches)			
			6	8	10	12
3/8	2	2	.28	.34	.40	.46
1/2	2	2	.52	.63	.74	.85
5/8	2 1/2	2 1/2	.81	.99	1.16	1.34
3/4	2 1/2	2 3/4	1.19	1.44	1.69	1.94
7/8	2 1/2	3	1.69	2.00	2.39	2.70
1	3	3 1/2	2.50	3.00	3.47	4.30



MATERIAL: Low carbon steel
FINISH: Plain



THREADED ACCESSORIES



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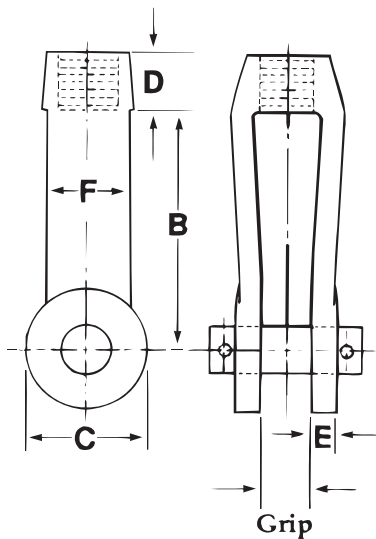
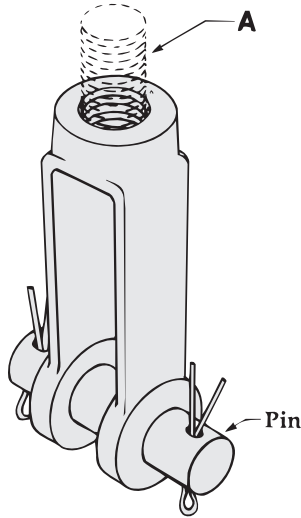
FORGED STEEL CLEVIS

Fig. 38 RIGHT-HAND THREADS
Fig. 38L LEFT-HAND THREADS

FUNCTION: Designed for use as a convenient method of connecting hanger rods to pipe lugs, angles, etc. As a structural attachment it is most commonly used in conjunction with Fig. 935 welding lug.

APPROVALS: Complies with Federal Specifications A-A-1192A (Type 14) and Manufacturers' Standardization Society SP-69 (Type 14).

ORDERING: Specify size number, rod size, with or without pin and figure number. If other than standard combination is required, specify size number, rod size, pin size and grip.



Regularly furnished with pin, unless specified otherwise.

MATERIAL: Forged steel
FINISH: Plain

Size No.	Rod Size A	Pin Size	Grip	B	C	D
2	3/8	1/2	1/2	3 5/8	1 1/2	5/8
2	1/2	5/8	1/2	3 5/8	1 1/2	5/8
2	5/8	3/4	5/8	3 5/8	1 1/2	5/8
2 1/2	3/4	7/8	3/4	5	2	7/8
2 1/2	7/8	1	7/8	5	2	7/8
3	1	1 1/8	1	5	3	15/16
3	1 1/4	1 3/8	1 1/4	5	3	15/16
3 1/2	1 1/2	1 5/8	1 1/2	6	3 1/2	1 5/8
4	1 3/4	1 7/8	1 1/2	6	4	1 3/4
5	2	2 1/4	2 1/2	7	5	2 1/4
6	2 1/4	2 1/2	2 1/2	8	6	2 3/4
6	2 1/2	2 3/4	2 1/2	8	6	2 3/4
7	2 3/4	3	2 1/2	8	7	3
7	3	3 1/4	2 1/2	9	7	3

Size No.	Rod Size A	E	F	Max. Rec. Load/lbs.		Wt. Each (in lbs.)	
				650°F	750°F	w/o pin	with pin
2	3/8	5/16	1 1/16	730	540	.9	1.0
2	1/2	5/16	1 1/16	1350	1010	.7	.9
2	5/8	5/16	1 1/16	1810	1610	.7	.9
2 1/2	3/4	3/8	1 1/4	2710	2420	2.5	3.0
2 1/2	7/8	3/8	1 1/4	3770	3360	2.5	3.4
3	1	1/2	1 1/2	4960	4420	4.0	5.1
3	1 1/4	1/2	1 1/2	8000	7140	3.8	5.5
3 1/2	1 1/2	1/2	1 3/4	11630	10370	6.0	8.5
4	1 3/4	1/2	2	15700	14000	8.0	12.9
5	2	5/8	2 1/2	20700	18460	16.0	23.3
6	2 1/4	3/4	3	27200	24260	26.0	35.1
6	2 1/2	3/4	3	33500	29880	25.5	36.0
7	2 3/4	7/8	3 1/2	41580	37066	36.0	50.0
7	3	7/8	3 1/2	50580	45085	35.0	51.5

Note: Supports loads equal to the full limitation of the hanger rod.



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THREADED ACCESSORIES



PHD Manufacturing, Inc.

EYE ROD

FUNCTION: Designed for use in hanger assemblies. The welded design allows the eye to develop the full strength of the rod.

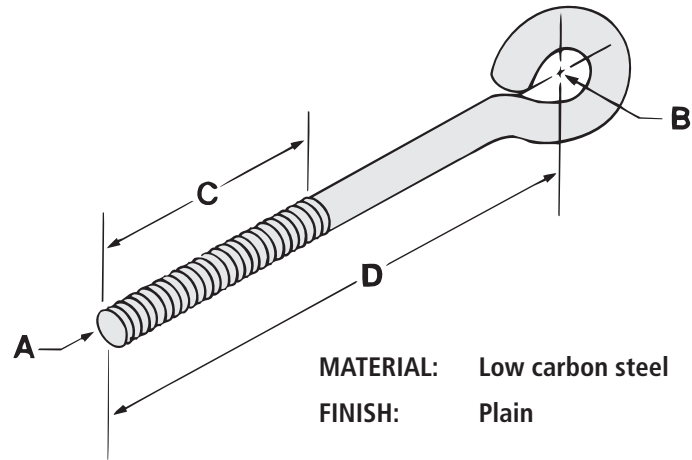
Fig. 50 RIGHT-HAND THREADS

Fig. 50L LEFT-HAND THREADS

ORDERING: Specify rod size, length and figure number.

Fig. 50 & 50L

Rod Size A	B	Thread Length C	Max. Rec. Load/lbs.	
			650°F	
3/8	1/2	2 1/2	240	
1/2	5/8	2 1/2	440	
5/8	3/4	2 1/2	705	
3/4	7/8	3	1050	
7/8	1	3 1/2	1470	
1	1 1/8	4	1940	



MATERIAL: Low carbon steel

FINISH: Plain

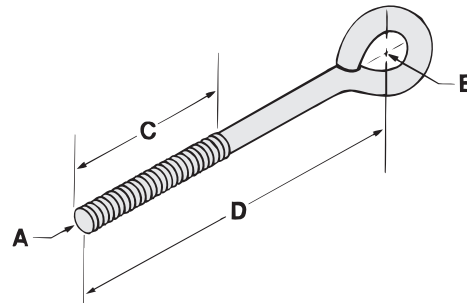
WELDED EYE ROD

Fig. 55 & 55L

Fig. 55 RIGHT-HAND THREADS

Fig. 55L LEFT-HAND THREADS

Rod Size A	B	Thread Length C	Max. Rec. Load/lbs.	
			650°F	750°F
3/8	1/2	2 1/2	730	540
1/2	5/8	2 1/2	1350	1010
5/8	3/4	2 1/2	1810	1610
3/4	7/8	3	2710	2420
7/8	1	3 1/2	3770	3360
1	1 1/8	4	4960	4420



Rod Size A	Wt. Each (in lbs.)													
	Length D (inches)													
	8	10	12	14	18	24	30	36	42	48	54	60	66	72
3/8	.32	.38	.44	.50	.63	.80	1.00	1.18	1.39	1.58	1.76	1.95	2.14	2.33
1/2	.60	.70	.82	.94	1.16	1.50	1.83	2.17	2.49	2.83	3.16	3.49	3.83	4.06
5/8	.97	1.14	1.31	1.49	1.84	2.36	2.88	3.40	3.92	4.44	4.96	5.48	6.00	6.52
3/4	1.44	1.68	1.94	2.19	2.68	3.44	4.19	4.94	5.70	6.45	7.20	7.95	8.70	9.45
7/8	2.04	2.32	2.68	3.02	3.73	4.72	5.74	6.76	7.81	8.83	9.85	10.87	11.89	12.91
1	2.67	3.11	3.56	4.00	4.89	6.78	8.18	8.89	10.48	11.87	13.19	14.51	15.91	17.25

Note: Other lengths and thread lengths available upon request.



U-BOLTS



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SPECIALTY ITEMS SERVICES & DATA

STANDARD U-BOLTS

- Fig. 90 PLAIN W/NUTS
- Fig. 90-1 PLAIN WITHOUT NUTS
- Fig. 91 ELECTRO-GALVANIZED W/NUTS
- Fig. 91-1 ELECTRO-GALVANIZED WITHOUT NUTS
- Fig. 93 PVC COATED W/NUTS
- Fig. 93-1 PVC COATED WITHOUT NUTS
- Fig. 94 STAINLESS STEEL W/NUTS
- Fig. 94-1 STAINLESS STEEL WITHOUT NUTS

FUNCTION: Designed for use as a support, anchor, or guide for various types of pipe. The PVC coating on Fig. 93 protects the surface of the pipe from contact with the metal surface of the U-Bolt.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 24) and Manufacturers' Standardization Society SP- 69 (Type 24).

ORDERING: Specify pipe size and figure number.

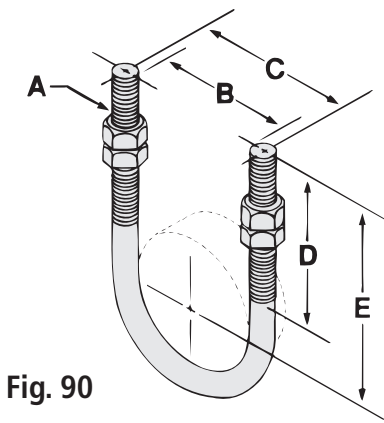


Fig. 90

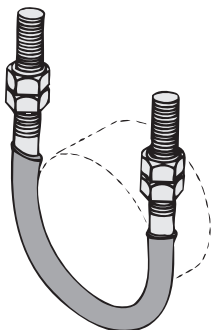


Fig. 93

MATERIAL: Low carbon steel

Pipe Size	Rod Size A	B	C	D	Tangent E	Max. Rec. Load/lbs.		Wt. Each (in lbs.)	
						650°F	750°F	w/o nut	with nut
1/2	1/4	15/16	13/16	2 1/8	2 3/4	485	435	.07	.11
3/4	1/4	1 1/8	1 3/8	2 1/8	2 3/4	485	435	.08	.12
1	1/4	1 3/8	1 5/8	2 1/8	2 3/4	485	435	.08	.12
1 1/4	3/8	1 11/16	2 1/16	2 1/8	2 7/8	1220	1090	.20	.28
1 1/2	3/8	2	2 3/8	2 1/2	3	1220	1090	.22	.30
2	3/8	2 7/16	2 13/16	2 1/2	3 1/4	1220	1090	.25	.33
2 1/2	1/2	2 15/16	3 7/16	3	3 3/4	2260	2020	.57	.73
3	1/2	3 9/16	4 1/16	3	4	2260	2020	.62	.78
3 1/2	1/2	4 1/16	4 9/16	3	4 1/4	2260	2020	.68	.84
4	1/2	4 9/16	5 1/16	3	4 1/2	2260	2020	.74	.90
5	1/2	5 5/8	6 1/8	3	5	2260	2020	.85	1.01
6	5/8	6 3/4	7 3/8	3 3/4	6 1/8	3620	3230	1.72	2.00
8	5/8	8 3/4	9 3/8	3 3/4	7 1/8	3620	3230	2.05	2.33
10	3/4	10 7/8	11 5/8	4	8 3/8	5420	4830	4.43	4.91
12	7/8	12 7/8	13 3/4	4 1/4	9 5/8	7540	6730	6.97	7.73
14	7/8	14 1/8	15	4 1/4	10 1/4	7540	6730	7.55	8.30
16	7/8	16 1/8	17	4 1/4	11 1/4	7540	6730	8.44	9.20
18	1	18 1/8	19 1/8	4 3/4	12 5/8	9920	8850	12.38	13.50
20	1	20 1/8	21 1/8	4 3/4	13 5/8	9920	8850	13.48	14.60
24	1	24 1/8	25 1/8	4 3/4	15 5/8	9920	8850	15.78	16.90
30	1	30 1/8	31 1/8	4 3/4	18 5/8	9920	8850	17.98	19.10
36	1	36 1/8	37 1/8	4 3/4	21 5/8	9920	8850	22.08	23.20

SPECIAL U-BOLTS

Fig. 90S

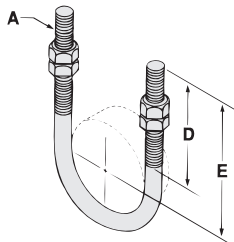


Fig. 90S special U-Bolts are available upon request. Please specify:

- Pipe Size
- Rod Size A
- Length of threads D
- Tangent E
- With or without nuts
- Finish
- Type of material if other than low carbon steel

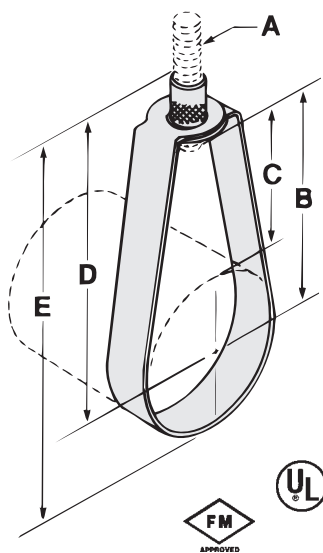


ADJUSTABLE SWIVEL RING HANGERS



NFPA SWIVEL RING HANGER

Fig. 141 PRE-GALVANIZED
Fig. 141F PRE-GALVANIZED WITH FELT LINING



FUNCTION: Designed for the suspension of non-insulated stationary pipe lines. The knurled insert nut that allows a vertical adjustment after installation, is tapped to NFPA reduced rod size standards. Fig. 141F has a layer of felt which separates the pipe from the hanger to reduce vibration and sound.

APPROVALS: Underwriters' Laboratories listed and Factory Mutual approved Fig. 141 3/4" to 8" sizes only. Complies with Federal Specification A-A-1192A (Type 10), Manufacturers' Standardization Society SP-69 (Type 10) and NFPA standards for reduced rod sizes.

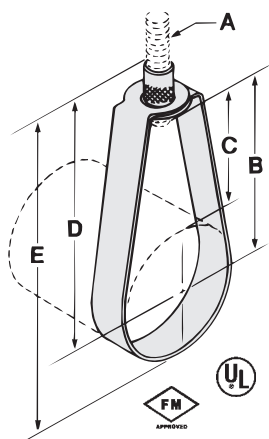
ORDERING: Specify pipe size and figure number.

Pipe Size	Rod Size A	B	Adj. C	D	E	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
1/2	3/8	1 1/8	1 1/16	2 3/4	3 1/16	300	.09
3/4	3/8	1 11/16	1 1/8	2 1/2	3 1/16	300	.10
1	3/8	1 3/8	1	2 1/2	3 3/16	300	.10
1 1/4	3/8	1 5/16	1 1/16	2 13/16	3 9/16	300	.10
1 1/2	3/8	2 1/8	1 1/16	3 1/8	3 3/8	300	.11
2	3/8	2 7/16	1 1/8	3 9/16	4 3/8	300	.12
2 1/2	3/8	2 3/4	1 1/4	3 11/16	5	525	.25
3	3/8	2 7/8	1 1/8	3 3/4	5 5/16	525	.30
3 1/2	3/8	3 3/8	1 3/8	4 5/16	6 5/16	525	.33
4	3/8	3 3/8	1 1/2	4 1/2	7	650	.41
5	1/2	4 3/8	1 3/8	5 5/8	8 3/8	1000	.58
6	1/2	5 5/8	2 1/4	6 1/2	9 13/16	1000	.92
8	1/2	6 13/16	2 7/16	7 15/16	12 1/4	1000	1.16

Note: If ordering Fig. 141F felt lined hangers for pipe sizes of 3 1/2" or under, order the next largest size to allow for the thickness of the felt lining.

SWIVEL RING HANGER

Fig. 151 PRE-GALVANIZED
Fig. 151F PRE-GALVANIZED WITH FELT LINING



FUNCTION: Designed for the suspension of non-insulated stationary pipe lines. The knurled insert nut, allows for vertical adjustment after installation. Fig. 151F has a layer of felt which separates the pipe from the hanger to reduce vibration and sound.

APPROVALS: Underwriters' Laboratories listed and Factory Mutual approved Fig. 151 2 1/2" to 8" sizes only. Complies with Federal Specification A-A-1192A (Type 10), and Manufacturers' Standardization Society SP-69 (Type 10).

ORDERING: Specify pipe size and figure number.

Pipe Size	Rod Size A	B	Adj. C	D	E	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
2 1/2	1/2	2 3/4	1 1/4	3 11/16	5 1/8	600	.32
3	1/2	3 1/8	1 1/8	4	5 7/8	600	.35
3 1/2	1/2	3 3/8	1 1/2	4 5/16	6 3/8	600	.39
4	5/8	3 7/8	1 1/4	4 15/16	7 1/8	1000	.43
5	5/8	4 3/8	1 3/8	5 5/8	8 1/2	1000	.65
6	3/4	5 5/16	2	6 11/16	10 1/8	1250	1.06
8	3/4	6 15/16	2 5/8	8 7/16	12 7/8	1250	1.24

Note: If ordering Fig. 151F felt lined hangers for pipe sizes of 3 1/2" or under, order the next largest size to allow for the thickness of the felt lining.

MATERIAL: Low carbon steel



ADJUSTABLE SWIVEL RING HANGERS



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COPPER TUBING SWIVEL RING

FUNCTION: Designed for the suspension of non-insulated stationary copper tubing. The knurled insert, allows for vertical adjustment after installation. The PVC coating on Fig. 154 protects the tubing from contact with the metal surface of the hanger.

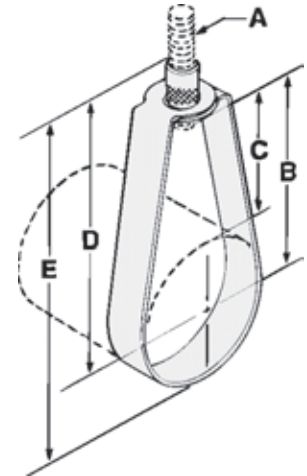
APPROVALS: Complies with Federal Specification A-A-1192A (Type 10) and Manufacturers' Standardization Society SP-69 (Type 10).

ORDERING: Specify tube size and figure number.

Fig. 152 COPPER COLOR EPOXY FINISH

Fig. 154 COPPER COLOR EPOXY FINISH WITH PVC COATING

Tube Size	Rod Size A	B	Adj. C	D	E	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
1/2	3/8	1 13/16	1 1/2	2 11/16	3	300	.07
3/4	3/8	1 5/8	1 3/16	2 1/2	2 15/16	300	.07
1	3/8	1 9/16	1	2 9/16	3	300	.07
1 1/4	3/8	1 5/8	1 5/16	2 1/2	3 3/16	300	.08
1 1/2	3/8	1 11/16	7/8	2 9/16	3 3/8	300	.08
2	3/8	2 7/16	1 3/8	3 5/16	4 3/8	300	.10
2 1/2	1/2	2 13/16	1 1/2	3 7/8	5 9/16	525	.31
3	1/2	3 3/8	1 9/16	4 3/16	5 3/4	525	.34
3 1/2	1/2	3 1/2	1 11/16	4 9/16	6 3/8	525	.37
4	1/2	3 3/4	1 11/16	4 13/16	6 15/16	650	.41
5	1/2	4 1/8	1 9/16	5 3/16	7 13/16	1000	.47
6	1/2	4 5/8	1 9/16	5 11/16	8 15/16	1000	.53



MATERIAL: Low carbon steel

PVC COATED SWIVEL RING

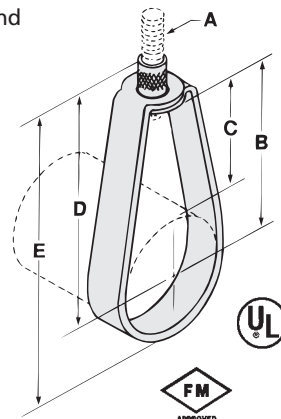
Fig. 153

FUNCTION: Designed for the suspension of non-insulated stationary pipe lines. The PVC coating on Fig. 153 protects the pipe from contact with the metal surface of the hanger. Frequently used with Aluminum, Glass, Plastic, Brass or Copper pipe lines. Underwriters' Laboratories listed and Factory Mutual approved 3/4" to 8" sizes only.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 10) and Manufacturers' Standardization Society SP-69 (Type 10). * Underwriters' Laboratories listed and Factory Mutual approved 3/4" to 8" sizes only.

ORDERING: Specify pipe size and figure number.

Pipe Size	Rod Size A	B	Adj. C	D	E	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
1/2	3/8	1 7/8	1 1/16	2 3/4	3 1/16	300	.11
3/4	3/8	1 11/16	1 1/8	2 1/2	3 1/16	300	.13
1	3/8	1 5/8	1	2 1/2	3 3/16	300	.13
1 1/4	3/8	1 5/8	1 1/16	2 13/16	3 9/16	300	.15
1 1/2	3/8	2 1/8	1 1/16	3 1/8	3 7/8	300	.17
2	3/8	2 7/16	1 1/8	3 5/16	4 3/8	300	.18
2 1/2	1/2	2 3/4	1 1/4	3 11/16	5 1/8	600	.34
3	1/2	3 1/8	1 1/8	4	5 7/8	600	.39
3 1/2	1/2	3 5/8	1 1/2	4 5/16	6 5/8	600	.42
4	5/8	3 7/8	1 1/4	4 15/16	7 7/8	1000	.48
5	5/8	4 3/8	1 3/8	5 5/8	8 1/2	1000	.69
6	3/4	5 1/16	2	6 11/16	10 1/8	1250	1.13
8	3/4	6 15/16	2 5/8	8 5/16	12 7/8	1250	1.29



MATERIAL: Low carbon steel

FINISH: Pre-galvanized with PVC Coating



ADJUSTABLE SWIVEL WITH STAND HANGER



ADJUSTABLE SWIVEL HANGER RING SECURED INSULATION SHIELD

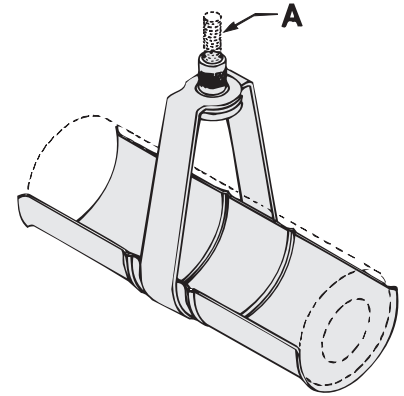
Fig. 155

FUNCTION: Designed for the suspension of insulated pipe lines. Fig 155 is a combination of our Fig. 170 shield welded to a Fig. 151 hanger, which ensures that the shield will be installed in conjunction with the hanger. Fig. 155 allows vertical adjustment after installation and offers maximum protection from crushing of the insulation by the hanger.

ORDERING: Specify size number and figure number.

MATERIAL: Low carbon steel

FINISH: Pre-galvanized



Note: All shields furnished with flared ends.

Size No.	Rod Size A	Shield I.D.	Shield Length	Shield Gauge	Hanger Size	Wt. Each (in lbs.)
1	3/8	2 3/8	8	18	2	.55
2	1/2	2 3/8	8	18	2 1/2	.80
3	1/2	2 7/8	8	18	2 1/2	.84
4	1/2	3 1/2	8	18	3	.99
5	1/2	4	8	18	3 1/2	1.12
6	5/8	4 1/2	8	18	4	1.26
7	5/8	5	8	18	5	1.58
8	5/8	5 5/8	8	18	5	1.70
9	3/4	6	8	18	6	2.20
10	3/4	6 5/8	8	18	6	2.35
11	3/4	7 5/8	12	18	8	3.40
12	3/4	8 5/8	12	18	8	3.67

Note: To determine proper size consult shield selection guide on page 12.

- WARNING -

Pipe hanger products included in this catalog are intended for installation and service only as described.

We are aware these products have also been used (often without incident) for purposes and in ways other than those for which designed and manufactured. In such cases of misapplication or improper use, we assume no responsibility for injuries or property damage which may result from: (some examples of which are) use of hanger products as erection tools; use of beam clamps on a beam not specified for them; use of concrete inserts as an anchor for pulling pipe to proper elevation; suspension of one clevis hanger under another, resulting in a cumulative load greater than specified support capability.

These pipe hanger products are carefully designed and manufactured to the above mentioned standards. Care should be exercised by installers and end users to install, use and maintain these products properly to avoid any possible on the job accidents.



SHIELD SELECTION GUIDE



SELECTION GUIDE

Fig. 155, 170 & 455

To Determine Proper Shield Size For Sizes Not Listed:

Add 2 times the thickness of the insulation plus the O.D. of the pipe.
Select shield with I.D. no smaller than the sum total of pipe and insulation.

SHIELD NUMBER FOR STEEL PIPE

Pipe Size	Pipe O.D.	Insulation Thickness (inches)								
		½	¾	1	1½	2	2½	3	3½	4
½	.840	1	1	3	5	7	9	11	-	-
¾	1.050	1	2	4	5	7	10	11	-	-
1	1.315	1	3	4	6	8	10	11	12	13
1¼	1.660	3	4	5	7	8	10	11	12	13
1½	1.900	3	4	5	7	9	11	12	13	14
2	2.375	4	5	6	8	10	11	12	13	14
2½	2.875	5	6	7	9	11	12	13	14	15
3	3.500	6	7	8	10	11	12	13	14	15
3½	4.000	7	8	9	11	12	13	14	15	16
4	4.500	8	9	10	11	12	13	14	15	16
5	5.563	10	11	11	12	13	14	15	16	17
6	6.625	11	12	12	13	14	15	16	17	18
8	8.626	13	14	14	15	16	17	18	19	20
10	10.750	15	16	16	17	18	19	20	21	22
12	12.750	17	18	18	19	20	21	22	23	24

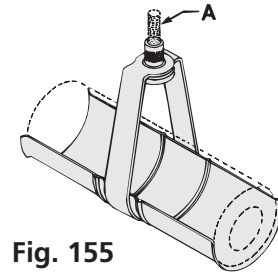


Fig. 155

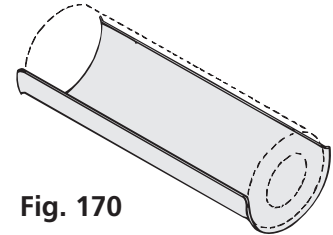


Fig. 170

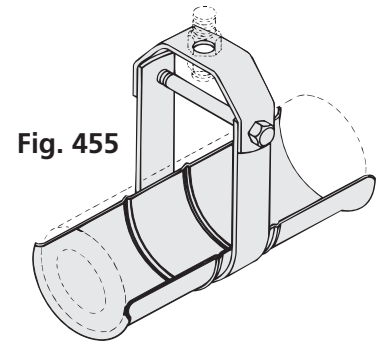


Fig. 455

SHIELD NUMBER FOR COPPER TUBING

Tube Size	Tube O.D.	Insulation Thickness (inches)						
		½	¾	1	1½	2	2½	3
½	.625	1	1	2	5	7	8	10
¾	.875	1	1	3	5	7	9	11
1	1.125	1	2	4	6	8	10	11
1¼	1.375	1	3	4	6	8	10	11
1½	1.625	2	4	5	7	8	10	11
2	2.125	4	5	6	8	10	11	12
2½	2.625	5	6	7	8	10	11	12
3	3.125	6	7	8	10	11	12	13
3½	3.625	7	8	8	10	11	12	13
4	4.125	8	8	10	11	12	13	14
5	5.125	10	10	11	12	13	14	15
6	6.125	11	11	12	13	14	15	16

For Model 170
Specify Shield Type & Shield Number

Shield Type	Length	Gauge
A	12	18
B	12	16
C	18	16
D	24	14
E	24	12

SAFETY PRODUCTS
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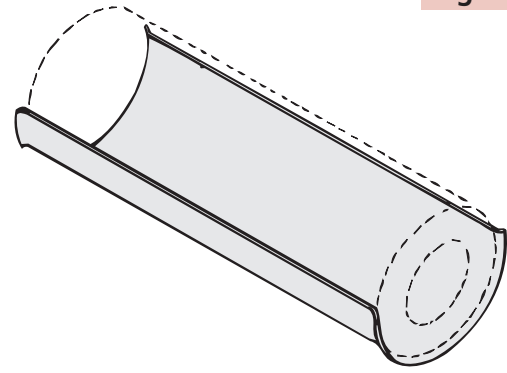
INSULATION SHIELDS



INSULATION PROTECTION SHIELD

Fig. 170

Shield No.	Shield I.D.	Shield Gauge	Size Length	Hanger Size	Wt. Each (in lbs.)
1A	2 $\frac{3}{8}$	18	12	2	.62
2A	2 $\frac{5}{8}$	18	12	2 $\frac{1}{2}$.68
3A	2 $\frac{7}{8}$	18	12	2 $\frac{1}{2}$.76
4A	3 $\frac{1}{2}$	18	12	3	.92
5A	4	18	12	3 $\frac{1}{2}$	1.04
6A	4 $\frac{1}{2}$	18	12	4	1.16
7A	5	18	12	5	1.32
8A	5 $\frac{1}{8}$	18	12	5	1.46
8B	5 $\frac{1}{8}$	16	12	5	2.00
9A	6	18	12	6	1.58
9B	6	16	12	6	2.10
10A	6 $\frac{1}{8}$	18	12	6	1.74
10B	6 $\frac{1}{8}$	16	12	6	2.37
11A	7 $\frac{1}{8}$	18	12	8	2.02
11B	7 $\frac{1}{8}$	16	12	8	2.50
11C	7 $\frac{1}{8}$	16	18	8	3.75
12A	8 $\frac{1}{8}$	18	12	8	2.28
12B	8 $\frac{1}{8}$	16	12	8	2.83
12C	8 $\frac{1}{8}$	16	18	8	4.25
13A	9 $\frac{1}{8}$	18	12	10	2.54
13B	9 $\frac{1}{8}$	16	12	10	3.15
13C	9 $\frac{1}{8}$	16	18	10	4.73
14A	10 $\frac{3}{4}$	18	12	10	2.84
14B	10 $\frac{3}{4}$	16	12	10	3.53
14C	10 $\frac{3}{4}$	16	18	10	5.30
14D	10 $\frac{3}{4}$	14	24	10	9.63
15B	11 $\frac{3}{4}$	16	12	12	4.00
15C	11 $\frac{3}{4}$	16	18	12	6.00
15D	11 $\frac{3}{4}$	14	24	12	10.00
16B	12 $\frac{3}{4}$	16	12	12	4.18
16C	12 $\frac{3}{4}$	16	18	12	6.28
16D	12 $\frac{3}{4}$	14	24	12	10.90
17B	14	16	12	14	4.58
17D	14	14	24	14	12.25
18B	15	16	12	16	4.90
18D	15	14	24	16	13.00
19B	16	16	12	16	5.20
19D	16	14	24	16	13.81
20B	17	16	12	18	5.53
20D	17	14	24	18	14.56
21B	18	16	12	18	6.20
21D	18	14	24	18	15.46
21E	18	12	24	18	21.25
22B	19	16	12	20	6.50
22D	19	14	24	20	16.32
22E	19	12	24	20	22.41
23B	20	16	12	20	7.25
23D	20	14	24	20	17.18
23E	20	12	24	20	24.75
24B	21	16	12	24	7.30
24E	21	12	24	24	24.75
25B	22	16	12	24	7.60
25E	22	12	24	24	25.92
26B	23	16	12	24	7.75
26E	23	12	24	24	26.50
27B	24	16	12	24	8.00
27E	24	12	24	24	27.20
28E	26	12	24	30	28.00
29E	27	12	24	30	30.20
30E	28	12	24	30	32.50



FUNCTION: Designed for use in the suspension of insulated pipe lines to protect the insulation from being crushed by the hanger.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 40) and Manufacturers' Standardization Society SP-69 (Type 40).

ORDERING: Specify shield number and figure number.

MATERIAL: Low Carbon Steel

FINISH: Pre-galvanized

Note: 12" length shields furnished with flared ends.

NOTE: TO DETERMINE PROPER SIZE CONSULT SHIELD SELECTION GUIDE ON PAGE 129



BAND HANGERS



PHD Manufacturing, Inc.

SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA

BAND HANGER

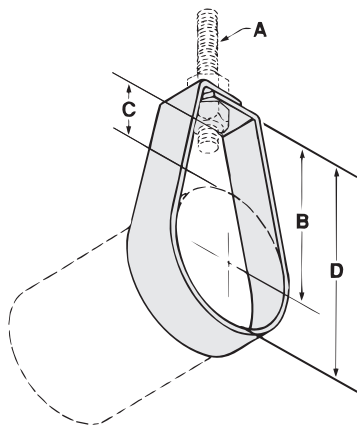
- Fig. 180 PLAIN
- Fig. 180F FELT LINED
- Fig. 181 ELECTRO-GALVANIZED
- Fig. 183 PLAIN WITH PVC COATING

FUNCTION: Designed for the suspension of non-insulated stationary pipe lines. Fig. 180F has a layer of felt which separates the pipe from the hanger to reduce vibration and sound. The PVC coating on Fig. 183 protects the pipe from the metal surface of the hanger.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 7) and Manufacturers' Standardization Society SP-69 (Type 7).

ORDERING: Specify pipe size and figure number.

MATERIAL: Low carbon steel

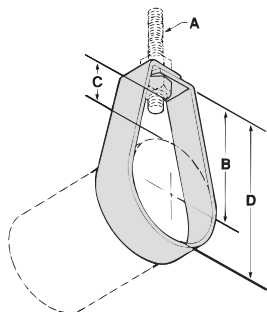


Pipe Size	Rod Size A	B	Adj. C	D	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
1/2	3/8	2 1/4	1 3/8	2 1/16	610	.13
3/4	3/8	2 1/8	1 1/8	2 1/16	610	.13
1	3/8	2 1/8	1 1/16	2 3/16	610	.14
1 1/4	3/8	2 5/16	1	3 3/16	610	.16
1 1/2	3/8	2 7/16	1 1/16	3 7/16	610	.18
2	3/8	2 7/8	1 3/16	4 1/16	610	.20
2 1/2	1/2	3 1/8	7/8	4 7/16	970	.37
3	1/2	3 3/4	1 3/8	5 1/2	970	.43
3 1/2	1/2	3 7/8	1 1/4	5 7/8	970	.47
4	1/2	4 1/4	1 3/8	6 1/2	1250	.69
5	1/2	4 13/16	1 1/2	7 7/8	1250	.82
6	3/4	5 15/16	1 11/16	9 1/4	1600	1.50
8	3/4	7 15/16	2 1/2	12 1/4	1800	1.89

Note: Use of an upper locknut ensures proper performance. If ordering felt lined hangers for 3 1/2 pipe or less, order the next largest size to allow for the thickness of the felt lining.

COPPER TUBING BAND HANGER

- Fig. 182 **FUNCTION:** Designed for the suspension of non-insulated stationary copper tubing. When proper adjustment has been obtained, the hanger should be locked in place with an upper locknut.
- APPROVALS:** Complies with Federal Specification A-A-1192A (Type 7) and Manufacturers' Standardization Society SP-69 (Type 7).
- ORDERING:** Specify tube size and figure number.
- MATERIAL:** Low carbon steel
- FINISH:** Copper color epoxy finish



Note: Use of an upper locknut ensures proper performance.

Tube Size	Rod Size A	B	Adj. C	D	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
1/2	3/8	2 5/16	1 1/16	2 5/8	610	.10
3/4	3/8	2 1/8	1 1/4	2 5/16	610	.10
1	3/8	2	1	2 5/16	610	.10
1 1/4	3/8	2 1/16	1 5/16	2 13/16	610	.12
1 1/2	3/8	2 3/16	1 1/16	3 3/8	610	.12
2	3/8	2 5/8	1 1/8	3 11/16	610	.14
2 1/2	1/2	3 3/16	1 1/4	4 1/2	610	.30
3	1/2	3 1/2	1 5/16	5	970	.32
3 1/2	1/2	3 3/16	1 3/8	5 5/16	970	.38
4	1/2	4	1 5/16	6 1/16	1130	.44



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BEAM CLAMPS



PHD Manufacturing, Inc.

STEEL C-CLAMP

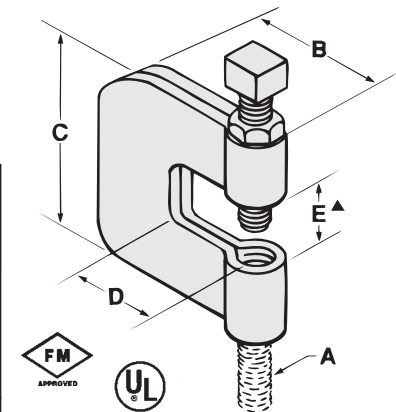
- FUNCTION:** Designed for attaching hanger rod to the bottom flange of a beam. The hanger rod should make contact with the beam flange to ensure full engagement.
- APPROVALS:** Underwriters' Laboratories listed $\frac{3}{8}$ " and $\frac{1}{2}$ " sizes only. Factory Mutual approved $\frac{3}{8}$ " only. Complies with Federal Specification A-A-1192A (Type 23) and Manufacturers' Standardization Society SP-69 (Type 23) (Approvals are only for Fig. 250 with locknut).
- ORDERING:** Specify rod size, finish and figure number.

Fig. 250 WITH LOCKNUT
Fig. 250-1 WITHOUT LOCKNUT

Rod Size A	B	C	D	E [▲]	Max. Pipe Size	Max. Rec. Load/lbs.	Wt. Each (in lbs.)	
							w/o nut	with nut
$\frac{3}{8}$	2 $\frac{1}{4}$	2 $\frac{3}{8}$	$\frac{7}{8}$	$\frac{3}{4}$	4	400	.36	.38
$\frac{1}{2}$	2 $\frac{1}{4}$	2 $\frac{3}{8}$	$\frac{7}{8}$	$\frac{3}{4}$	4	500	.36	.38
$\frac{5}{8}$	2 $\frac{3}{8}$	2 $\frac{3}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	5	550	.63	.68
$\frac{3}{4}$	2 $\frac{1}{4}$	2 $\frac{3}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	6	600	.72	.79
$\frac{7}{8}$	2 $\frac{1}{4}$	3	1 $\frac{1}{4}$	1	8	900	1.65	1.83

Note: See MSS SP-69 specs for proper set screw torque values.

▲ Reduced by $\frac{1}{8}$ " when used in conjunction with Fig. 259 retaining strap.



MATERIAL: Low carbon steel with hardened steel cup point set screw

FINISH: Plain or electro-galvanized

MALLEABLE IRON C-CLAMP

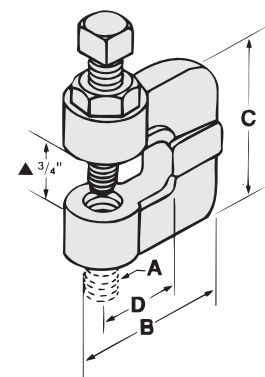
- FUNCTION:** Designed for attaching hanger rod to the bottom flange of a beam. The hanger rod should make contact with the beam flange to ensure full engagement.
- APPROVALS:** Complies with Federal Specification A-A-1192A (Type 23) and Manufacturers' Standardization Society SP-69 (Type 23). (Only for Fig. 270 with locknut)
- ORDERING:** Specify rod size, finish and figure number.

Fig. 270 WITH LOCKNUT
Fig. 270-1 WITHOUT LOCKNUT

Rod Size A	B	C	D	For Pipe Sizes	Max. Rec. Load/lbs.	Wt. Each (in lbs.)	
						w/o nut	with nut
$\frac{3}{8}$	1 $\frac{3}{4}$	1 $\frac{3}{4}$	$\frac{5}{8}$	$\frac{1}{2}$ to 2	400	.30	.33
$\frac{1}{2}$	1 $\frac{3}{4}$	1 $\frac{3}{4}$	$\frac{5}{8}$	2 $\frac{1}{2}$ to 3 $\frac{1}{2}$	400	.38	.39
$\frac{5}{8}$	2	2	$\frac{3}{4}$	4 to 5	440	.45	.46
$\frac{3}{4}$	2	2	$\frac{3}{4}$	6	500	.51	.52

Note: See MSS SP-69 specs for proper set screw torque values.

▲ Reduced by $\frac{1}{8}$ " when used in conjunction with Fig. 259 retaining strap.



MATERIAL: Malleable iron with hardened steel cup point set screw

FINISH: Plain or electro-galvanized



BEAM CLAMPS



SAFETY PRODUCTS

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HANGERS & STRUT

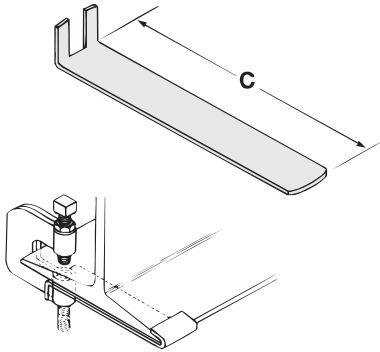
FASTENERS & THREADED ROD

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SPECIALTY ITEMS SERVICES & DATA

RETAINING STRAP

Fig. 259



FUNCTION: Designed for use with Fig. 250, 250-1, 270 and 270-1 to eliminate possible movement of the beam clamp due to vibration.

ORDERING: Specify type number, length, finish and figure number.

MATERIAL: Low carbon steel

FINISH: Plain or electro-galvanized

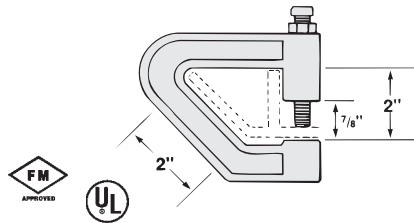
Type No.	Wt. Each (in lbs.)					
	Length C (inches)					
	4 1/2	6	8	10	12	14
1	.15	.22	.33	.36	.43	.50
2	.21	.28	.36	.45	.52	.59

Type No. Selection Chart		
Size	Model No.	
	250	270
3/8	1	2
1/2	1	2
5/8	1	2
3/4	1	2

Note: 1 inch should be added to beam flange width to determine length.

PURLIN CLAMP

Fig. 290



FUNCTION: Designed for use with large-lip rolled steel purlins to eliminate the need to modify steel purlin for standard C-clamp.

APPROVALS: Underwriters' Laboratories listed and Factory Mutual approved.

ORDERING: Specify figure number.

MATERIAL: Malleable iron with hardened steel cup point set screw

FINISH: Plain

Rod Size	Max. Pipe Size	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
3/8	4	400	.82

RETAINING STRAP

Fig. 358: RETRO-FIT RETAINING STRAP

Fig. 359: RETAINING STRAP For Fig. 350& 360

FUNCTION: Designed for use with Fig. 350, 350-1, 360 and 360-1 to eliminate possible movement of the beam clamp due to vibration.

ORDERING: Specify rod size, length, finish and figure number.

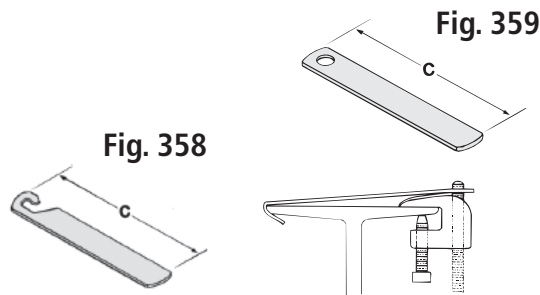


Fig. 358 Rod Size	Wt. Each (in lbs.)					
	Length C (inches)					
	4 1/2	6	8	10	12	14
3/8	.06	.092	.124	.16	.19	.22

Fig. 359 Rod Size	Wt. Each (in lbs.)					
	Length C (inches)					
	4 1/2	6	8	10	12	14
3/8	.15	.21	.28	.35	.42	.49
1/2	.15	.21	.28	.35	.42	.49
5/8	.20	.26	.35	.44	.53	.62
3/4	.20	.26	.35	.44	.53	.62
7/8	.31	.42	.56	.70	.84	.98

MATERIALS: #358 Galvanized; #359 Low carbon steel

FINISH: Plain or electro-galvanized

Note: To determine proper length add 2" to width of flange and select next strap length.



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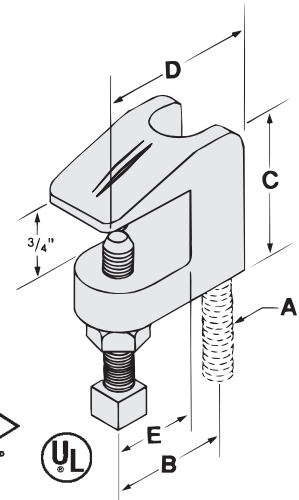
BEAM CLAMPS



DUCTILE IRON BEAM CLAMP

- FUNCTION:** Designed for attaching hanger rod to the top flange of a beam or bar joist, where the flange thickness does not exceed $\frac{3}{4}$ inch. The open U design permits rod adjustment. The universal design of the $\frac{3}{8}$ " Fig. 350 allows it to be used in an inverted position on the bottom flange of a beam as well.
- APPROVALS:** Underwriters' Laboratories listed. Factory Mutual approved $\frac{3}{8}$ " and $\frac{1}{2}$ " sizes only. Complies with Federal Specification A-A-1192A (Type 19) and Manufacturers' Standardization Society SP-69 (Type 19). When used in an inverted position on the bottom of a beam flange the $\frac{3}{8}$ " Fig. 350 also complies with Federal Specification A-A-1192A (Type 23) and Manufacturers' Standardization Society SP-69 (Type 23) (Only for Fig. 350 with locknut).
- ORDERING:** Specify rod size, finish and figure number.

Fig. 350 WITH LOCKNUT
Fig. 350-1 WITHOUT LOCKNUT



Rod Size A	B	C	D	E	Max. Pipe Size	Max. Rec. Load/lbs.	Wt. Each (in lbs.)	
							w/o nut	with nut
$\frac{3}{8}$	1	$1\frac{1}{2}$	$1\frac{5}{8}$	$\frac{1}{2}$	4	400	.32	.33
$\frac{1}{2}$	1	$1\frac{1}{2}$	$1\frac{11}{16}$	$\frac{1}{2}$	8	500	.33	.34
$\frac{5}{8}$	$1\frac{1}{16}$	$1\frac{1}{2}$	$1\frac{7}{8}$	$\frac{5}{8}$	8	600	.38	.39
$\frac{3}{4}$	$1\frac{5}{16}$	$1\frac{3}{4}$	$2\frac{3}{8}$	$\frac{5}{8}$	8	800	.59	.63
$\frac{7}{8}$	$1\frac{5}{16}$	$1\frac{3}{4}$	$2\frac{3}{8}$	$\frac{5}{8}$	8	1200	.56	.60

MATERIAL: Ductile iron with hardened steel cup point set screw

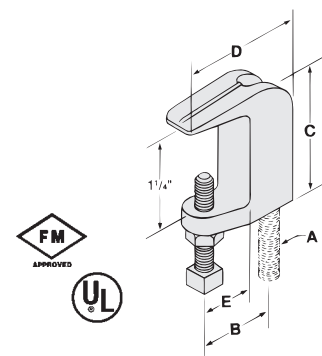
FINISH: Plain or electro-galvanized

Note: See MSS SP-69 specs for proper set screw torque values.
▲ Reversible design approved for bottom beam use.

DUCTILE IRON WIDE MOUTH BEAM CLAMP

- FUNCTION:** Designed for attaching hanger rod to the top flange of a beam or bar joist, where the flange thickness does not exceed $1\frac{1}{4}$ inches. The open U design permits rod adjustment.
- APPROVALS:** Underwriters' Laboratories listed and Factory Mutual approved ($\frac{3}{8}$ " & $\frac{1}{2}$ " size only). Complies with Federal Specification A-A-1192A (Type 19) and Manufacturers' Standardization Society SP-69 (Type 19) (Only for Fig. 360 with locknut).
- ORDERING:** Specify rod size, finish and figure number.

Fig. 360 WITH LOCKNUT
Fig. 360-1 WITHOUT LOCKNUT



Rod Size A	B	C	D	E	Max. Pipe Size	Max. Rec. Load/lbs.	Wt. Each (in lbs.)	
							w/o nut	with nut
$\frac{3}{8}$	$1\frac{1}{16}$	$1\frac{7}{8}$	$1\frac{5}{8}$	$\frac{1}{2}$	4	400	.36	.37
$\frac{1}{2}$	$1\frac{1}{16}$	$1\frac{7}{8}$	$1\frac{5}{8}$	$\frac{1}{2}$	8	500	.34	.35
$\frac{5}{8}$	$1\frac{3}{8}$	$2\frac{1}{16}$	$2\frac{1}{4}$	$\frac{3}{4}$	5	850	.74	.74
$\frac{3}{4}$	$1\frac{3}{8}$	$2\frac{3}{8}$	$2\frac{3}{8}$	$\frac{3}{4}$	6	900	.85	.87

MATERIAL: Ductile iron with hardened steel cup point set screw

FINISH: Plain or electro-galvanized

Note: See MSS SP-69 specs for proper set screw torque values.

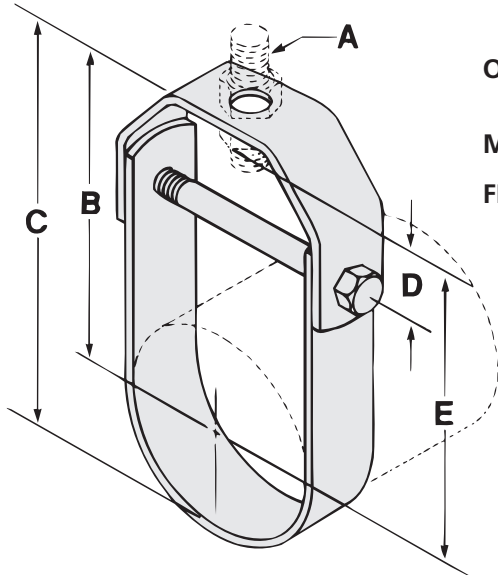


CLEVIS HANGERS



A.W.W.A. CLEVIS HANGER

Fig. 420



- FUNCTION:** Designed for the suspension of stationary (A.W.W.A.) cast iron and ductile iron pipe.
- ORDERING:** Specify A.W.W.A. pipe size and figure number.
- MATERIAL:** Low carbon steel
- FINISH:** Plain

"D" Adjustment
(Top of cross bolt to
bottom of hanger rod nut.)

A.W.W.A. Pipe Size	Pipe O.D.	Rod Size A	B	C	Adjustment D	E	Cross Bolt	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
3	3.96	1/2	4 1/2	6 1/2	1 1/4	3 7/8	3/8	1350	1.22
4	4.80	5/8	5 3/4	8 1/8	1 3/8	4 5/8	3/8	1430	2.08
6	6.90	3/4	6 15/16	10 3/8	1 3/8	5 5/8	1/2	1940	2.78
8	9.05	3/4	9 1/4	13 3/4	2 1/2	7 7/8	5/8	2000	4.47
10	11.10	7/8	10 1/4	15 3/4	1 5/8	8 3/4	3/4	3600	8.87
12	13.20	7/8	12 5/8	19 1/4	2 7/8	11 1/8	3/4	3800	12.03
14	15.30	1	14 1/8	21 3/4	3 1/8	12 3/8	7/8	4200	15.15
16	17.40	1	14 7/8	23 5/8	2 3/4	13 1/8	1	4600	23.61
18	19.50	1 1/8	16 1/2	26 1/4	3 1/4	14 5/8	1 1/8	4800	25.90
20	21.60	1 1/4	18 11/16	29 1/2	3 5/8	16 13/16	1 1/4	4800	44.30
24	25.80	1 1/4	21 13/16	34 3/4	4 5/8	19 15/16	1 1/4	4800	52.45
30	32.00	1 1/4	33 1/2	46 1/2	6 1/2	30 3/8	1 1/4	4800	76.90
36	38.30	1 1/2	38 3/8	53 1/4	7 1/4	31 1/4	1 1/2	7000	202.00

Note: Use of an upper locknut ensures proper performance. For sizes of 10" and larger a pipe spacer is added over the cross bolt.

- WARNING -

PIPE HANGER PRODUCTS INCLUDED IN THIS CATALOG ARE INTENDED FOR INSTALLATION AND SERVICE ONLY AS DESCRIBED. PLEASE READ DETAILED DISCLAIMER ON PAGE 229.



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CLEVIS HANGERS



PHD Manufacturing, Inc.

CLEVIS HANGER FOR INSULATED PIPE LINES

Fig. 430

FUNCTION:

Designed for the suspension of insulated stationary pipe lines. The elongated design permits the insulation to encompass the hanger, while maintaining a clearance between the insulation and the cross bolt. This allows the installation of the insulation to be more economical due to the fact that less cutting and fitting is required.

APPROVALS:

Complies with Federal Specification A-A-1192A (Type 1) and Manufacturers' Standardization Society SP-69 (Type 1).

ORDERING:

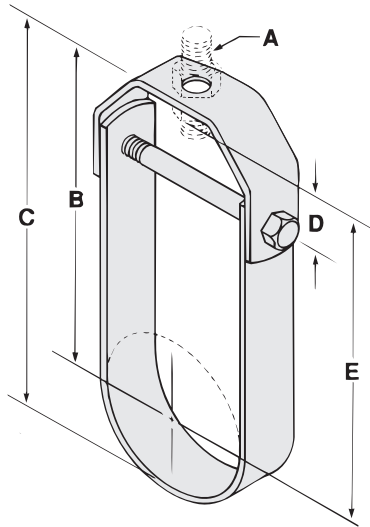
Specify pipe size and figure number.

MATERIAL:

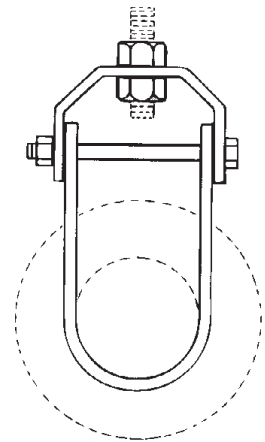
Low carbon steel

FINISH:

Plain



"D" Adjustment
(Top of cross bolt to bottom
of hanger rod nut.)



Pipe Size	Rod Size A	B	C	Adjustment D	E	Cross Bolt	Max. Insulation Thickness	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
1/2	3/8	3 3/4	4 1/4	9/16	3 7/16	1/4	2	730	.47
3/4	3/8	4 1/4	4 7/8	5/8	3 7/8	1/4	2	730	.48
1	3/8	5 1/8	5 3/4	1 5/8	4 1 1/16	1/4	2	730	.55
1 1/4	3/8	5 5/16	6 1/8	1 5/8	4 7/8	1/4	2	730	.56
1 1/2	3/8	5 7/16	6 3/8	1 1/2	5	1/4	2	730	.61
2	3/8	7 9/16	8 3/4	1 5/8	7 1/8	1/4	4	730	.84
2 1/2	1/2	7 13/16	9 1/4	1 1/8	7 3/16	3/8	4	1310	1.65
3	1/2	8 1/8	9 7/8	1 1/8	7 1/2	3/8	4	1310	1.69
3 1/2	1/2	8 3/8	10 3/8	1 1/4	7 3/4	3/8	4	1310	1.77
4	5/8	9 5/8	11 7/8	1 3/4	8 7/8	3/8	4	1430	2.07
5	5/8	7 9/16	13 1/8	1 7/8	6 13/16	1/2	4	1430	2.99
6	3/4	10 13/16	14 1/8	1 5/8	9 15/16	1/2	4	1940	3.25
8	3/4	12 1/16	16 7/8	2 1/8	11 1/16	5/8	4	2000	4.60
10	7/8	13 1/4	18 3/8	1 3/4	12 1/2	3/4	4	3600	8.97
12	7/8	15 3/4	22 1/8	2 5/8	14 5/8	3/4	4	3800	11.12

Note: Use of an upper locknut ensures proper performance.



CLEVIS HANGERS



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LIGHT DUTY CLEVIS HANGER

FUNCTION: Designed for the suspension of non-insulated stationary pipe lines in light duty applications. Fig. 440F has a layer of felt which helps to reduce sound and vibration.

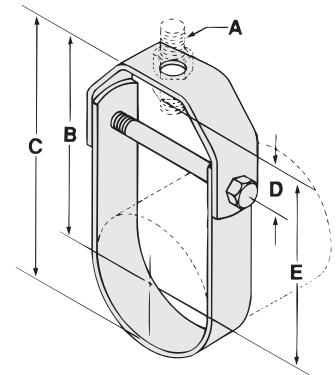
ORDERING: Specify pipe size and figure number.

APPROVALS: Complies with Federal Specification A-A-1192A (Type1) and Manufacturers' Standardization Society SP-69 (Type 1).

MATERIAL: Low Carbon Steel

- Fig. 440 PLAIN
- Fig. 440F PLAIN WITH FELT LINING
- Fig. 441 ELECTRO-GALVANIZED

"D" Adjustment
(Top of cross bolt to bottom of hanger rod nut.)



Pipe Size	Rod Size A	B	C	Adjustment D	E	Cross Bolt	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
1/2	3/8	1 7/8	3	1 1/4	2 13/16	1 1/4	150	.16
3/4	3/8	1 3/4	3 1/8	1 5/16	2 1/4	1 1/4	250	.19
1	3/8	1 13/16	3 1/4	1 11/16	2 11/16	1 1/4	250	.22
1 1/4	3/8	2 1/8	4 1/8	1 9/16	2 7/8	1 1/4	250	.29
1 1/2	3/8	2 1/2	4 3/8	1 9/16	3	1 1/4	250	.32
2	3/8	3 1/16	4 7/8	1 11/16	3 1/4	1 1/4	250	.35
2 1/2	1/2	3 13/16	5 1/4	1 1/4	3 1/4	3/8	350	.82
3	1/2	4 1/8	5 7/8	1 1/4	3 3/16	3/8	350	.91
3 1/2	1/2	4 1/2	6 1/2	1 5/8	3 15/16	3/8	350	1.07
4	5/8	5 5/8	7 7/8	1 15/16	5	3/8	400	1.30

Note: If ordering Fig. 440F felt lined hangers for pipe sizes of 3 1/2" or under, order the next largest size to allow for the thickness of the felt lining.

Note: Use of an upper locknut ensures proper performance.

COPPER TUBING CLEVIS HANGER

FUNCTION: Designed for the suspension of non-insulated stationary copper tubing.

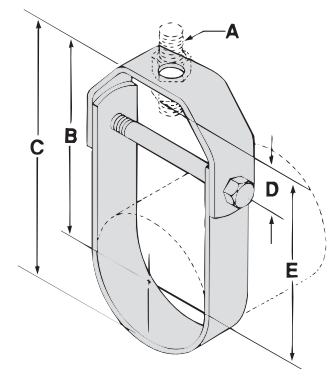
ORDERING: Specify tube size and figure number.

MATERIAL: Low carbon steel

FINISH: Copper Color Epoxy Finish

Fig. 442

"D" Adjustment
(Top of cross bolt to bottom of hanger rod nut.)



Tube Size	Rod Size A	B	C	Adjustment D	E	Cross Bolt	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
1/2	3/8	1 7/8	2 3/16	1/2	1 1/8	1/4	150	.12
3/4	3/8	1 3/4	2 1/8	1/2	1	1/4	250	.12
1	3/8	1 13/16	2 5/16	1/2	1 1/16	1/4	250	.12
1 1/4	3/8	2 1/8	2 3/4	3/4	1 5/16	1/4	250	.12
1 1/2	3/8	2 1/2	3 1/4	15/16	1 3/4	1/4	250	.18
2	3/8	2 15/16	4	1 1/16	2 3/16	1/4	250	.24
2 1/2	1/2	4 7/8	5 3/4	2 1/16	3 3/8	1/4	350	.58
3	1/2	4 1/2	6 1/8	2	3 7/16	1/4	350	.60
3 1/2	1/2	4 3/4	6 1/2	1 13/16	3 11/16	1/4	350	.66
4	1/2	5 7/8	7 7/8	2 9/16	4 3/4	5/16	400	1.02
5	5/8	5 7/8	8 3/4	1 5/8	4 3/4	3/8	550	1.68
6	5/8	6 1/16	9	1 1/2	4 3/4	3/8	550	1.84

Note: Use of an upper locknut ensures proper performance.



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CLEVIS HANGERS



PHD Manufacturing, Inc.

STANDARD CLEVIS HANGER

Fig. 425 STAINLESS STEEL*

Fig. 450 PLAIN

Fig. 450F PLAIN WITH FELT LINING

Fig. 451 ELECTRO-GALVANIZED

Fig. 453 PLAIN WITH PVC COATING

Fig. 454 HOT DIPPED GALVANIZED
W/ELECTRO-GALVANIZED
HARDWARE

*Fig. 425 - For 1/2" to 12" Only

FUNCTION:

Designed for the suspension of non-insulated stationary pipe lines. Fig. 450F has a layer of felt which separates the pipe from the hanger to reduce vibration and sound. The PVC coating on Fig. 453 protects the pipe from the metal surface of the hanger.

APPROVALS:

Underwriters' Laboratories listed and Factory Mutual approved Fig. 450 and Fig 451 for 2 1/2" thru 8" pipe. Complies with Federal Specification A-A-1192A (Type 1) and Manufacturers' Standardization Society SP-69 (Type 1).

MATERIAL:

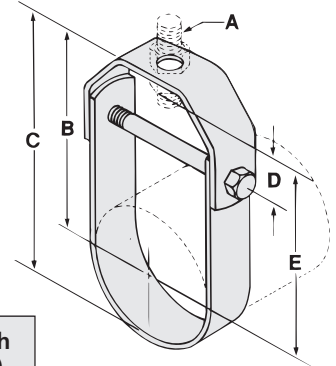
Low carbon steel

ORDERING:

Specify pipe size and figure number.

Note: When an over-sized clevis is used, a pipe spacer should be placed over the clevis bolt to prevent the lower U-strap from moving inward.

"D" Adjustment (Top of cross bolt to bottom of hanger rod nut.)



Pipe Size	Rod Size A	B	C	Adjustment D	E	Cross Bolt	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
1/2	3/8	2 7/16	2 7/8	1 1/8	2	1/4	730	.31
3/4	3/8	2 5/8	3 1/8	1 1/4	2 3/16	1/4	730	.33
1	3/8	3 1/16	3 3/4	1 5/8	2 5/8	1/4	730	.37
1 1/4	3/8	3 3/8	4 3/16	1 5/8	2 15/16	1/4	730	.41
1 1/2	3/8	3 1/2	4 7/16	1 1/2	3 1/16	1/4	730	.44
2	3/8	3 3/4	5	1 5/8	3 5/16	1/4	730	.52
2 1/2	1/2	3 7/8	5 3/8	1 5/8	3 1/4	3/8	1350	1.02
3	1/2	4 1/4	6	1 7/8	3 5/8	3/8	1350	1.10
3 1/2	1/2	4 1/2	6 1/2	1 3/4	3 7/8	3/8	1350	1.22
4	5/8	5 1/2	7 1/16	1 3/4	4 1/16	3/8	1430	1.56
5	5/8	6 1/8	9 1/8	1 7/8	5 5/16	1/2	1430	2.05
6	3/4	6 7/8	10 1/8	1 5/8	6	1/2	1940	2.66
8	3/4	8 3/4	12 7/8	2 1/8	7 7/8	5/8	2000	4.17
10	7/8	9 1/4	14 5/8	1 3/4	8 7/8	3/4	3600	8.11
12	7/8	11 5/8	18	2 1/2	10 1/2	3/4	3800	10.05
14	1	12 3/4	19 3/4	2 5/8	11 1/4	7/8	4200	12.97
16	1	14 3/8	22 1/8	2 5/8	13 3/8	1	4600	20.85
18	1 1/8	16 1/2	25 1/2	3 1/2	15	1 1/8	4800	24.75
20	1 1/4	18	28	4 1/8	16 1/8	1 1/4	4800	42.45
24	1 1/4	20 1/4	32 1/4	4 3/4	18 3/8	1 1/4	4800	48.65
30	1 1/4	24 1/2	38 7/8	5 1/2	21 1/2	1 1/4	6000	69.83
36	1 1/2	32	50	8 3/4	30	1 1/2	9500	175.00

Note: Use of an upper locknut ensures proper performance. Pipe spacers provided on 30" and larger clevises. If ordering Fig. 450F felt lined hangers for pipe sizes of 3 1/2" or under, order the next largest size to allow for the thickness of the felt lining.



CLEVIS HANGERS



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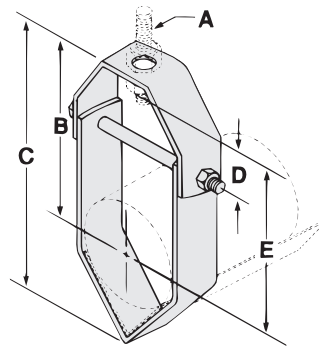
PLASTIC PIPE CLEVIS HANGER Fig. 450V

FUNCTION: Designed for the suspension of flexible plastic pipe lines. Used in conjunction with Fig. 450T.

ORDERING: Specify size number and figure number.

MATERIAL: Low carbon steel

FINISH: Plain



"D" Adjustment
(Top of cross bolt to bottom of hanger rod nut.)

Size No.	Pipe Size	Rod Size A	B	C	Adj. D	E	Cross Bolt	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
1	1/2	3/8	4 3/4	5 1/2	1 5/8	4 5/16	1/4	150	.38
1	3/4	3/8	4 9/16	5 1/2	1 5/8	4 1/8	1/4	150	.38
1	1	3/8	4 3/8	5 1/2	1 5/8	3 15/16	1/4	150	.38
1	1 1/4	3/8	4 1/8	5 1/2	1 5/8	3 11/16	1/4	150	.38
1	1 1/2	3/8	4	5 1/2	1 5/8	3 9/16	1/4	150	.38
1	2	3/8	3 11/16	5 1/2	1 5/8	3 1/4	1/4	150	.38
2	2 1/2	5/8	6 5/8	8 3/4	1 3/4	5 13/16	3/8	150	1.15
2	3	5/8	6 3/16	8 3/4	1 3/4	5 3/8	3/8	150	1.15
2	3 1/2	5/8	5 13/16	8 3/4	1 3/4	5	3/8	150	1.15
2	4	5/8	5 7/16	8 3/4	1 3/4	4 5/8	3/8	150	1.15

Note: Use of an upper locknut ensures proper performance.

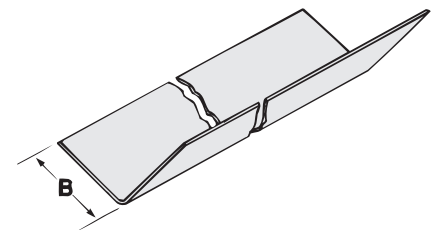
PLASTIC PIPE SUPPORT TROUGH Fig. 450T

FUNCTION: Designed for use with Fig. 450V as a support for plastic or other flexible pipe systems. Hangers should be placed as close to the trough joints as possible.

ORDERING: Specify size number and figure number.

MATERIAL: Low carbon steel

FINISH: Pre-galvanized



Size No.	For Pipe Sizes	B	Steel Gauge	Trough Length	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
1	1/2 - 2	1 1/2	18 ga.	10 ft.	150	5.40
2	2 1/2 - 4	3	18 ga.	10 ft.	150	10.75



CLEVIS HANGERS



PHD Manufacturing, Inc.

CLEVIS WITH SECURED INSULATION SHIELD

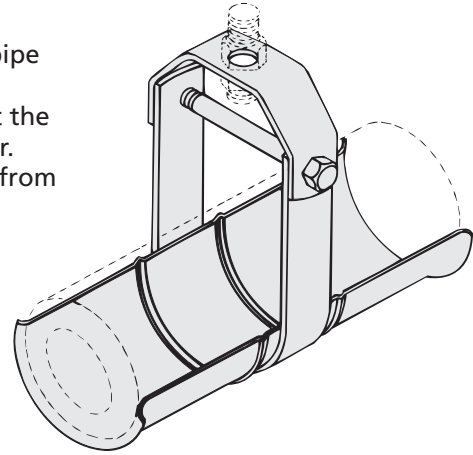
Fig. 455

FUNCTION: Designed for the suspension of stationary insulated pipe lines. Fig. 455 is a combination of our Fig. 160 shield welded to a Fig. 450 clevis hanger which ensures that the shield will be installed in conjunction with the hanger. The shield is furnished with flared ends to prevent it from cutting into the insulation.

ORDERING: Specify size number and figure number.

MATERIAL: Low carbon steel

FINISH: Plain low carbon steel clevis with pre-galvanized shield



Size No.	Rod Size A	Shield I.D.	Shield Length	Shield Gauge	Hanger Size	Wt. Each (in lbs.)
1	3/8	2 3/8	8	18	2	.95
2	1/2	2 5/8	8	18	2 1/2	1.50
3	1/2	2 7/8	8	18	2 1/2	1.54
4	1/2	3 1/2	8	18	3	1.62
5	1/2	4	8	18	3 1/2	1.95
6	5/8	4 1/2	8	18	4	2.38
7	5/8	5	8	18	5	2.98
8	5/8	5 5/8	8	18	5	3.10
9	3/4	6	8	18	6	3.77
10	3/4	6 5/8	8	18	6	3.92
11	3/4	7 5/8	12	18	8	6.33
12	3/4	8 5/8	12	18	8	6.66
13	7/8	9 5/8	12	18	10	10.84
14	7/8	10 3/4	12	18	10	11.17
15	7/8	11 3/4	12	18	12	13.39
16	7/8	12 3/4	12	18	12	13.65
17	1	14	12	18	14	16.93
18	1	15	12	18	16	25.08
19	1	16	12	18	16	25.20
20	1 1/8	17	12	18	18	29.55
21	1 1/8	18	12	18	18	29.83
22	1 1/4	19	12	18	20	47.81
24	1 1/4	21	12	18	24	53.73

Note: To determine proper size, consult shield selection guide on page 229.
Use of an upper locknut ensures proper performance.



PIPE ROLLER SUPPORTS



PHD Manufacturing, Inc.

PIPE ROLLER CHAIR

Fig. 460

FUNCTION: Designed for supporting pipe in applications where horizontal movement, due to expansion and contraction, will occur but vertical adjustment is not necessary. The chair can be welded directly to the steel structure or secured in place through bolt holes.

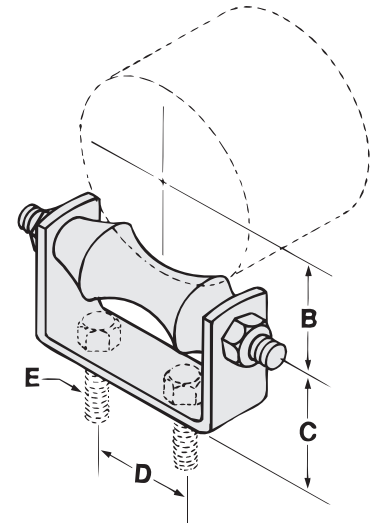
SIZING: Pipe roller size shown is for bare pipe. For proper sizing with insulation, refer to pipe roller selection guide on **page 248**, which is for use with pipe covering protection saddles.

ORDERING: Specify pipe roller size and figure number. Order mounting bolts separately.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 44) and Manufacturers' Standardization Society SP-69 (Type 44).

MATERIAL: Cast iron pipe roller with low carbon steel chair, axle and hex nuts

FINISH: Plain



"B" Center of axle to center of pipe

Pipe Roller Size	B	C	D	Recommended Bolt Size (Not Included) E	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
2	1 $\frac{5}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	$\frac{3}{8}$ X 1 $\frac{1}{2}$	300	.90
2 $\frac{1}{2}$	2	1 $\frac{5}{8}$	1 $\frac{1}{4}$	$\frac{3}{8}$ X 1 $\frac{1}{2}$	600	1.19
3	2 $\frac{1}{4}$	1 $\frac{3}{4}$	2	$\frac{3}{8}$ X 1 $\frac{1}{2}$	600	1.48
3 $\frac{1}{2}$	2 $\frac{5}{8}$	2	2	$\frac{3}{8}$ X 1 $\frac{1}{2}$	600	2.44
4	2 $\frac{3}{4}$	2 $\frac{1}{4}$	2	$\frac{1}{2}$ X 1 $\frac{1}{2}$	700	2.85
5	3 $\frac{1}{2}$	2 $\frac{1}{2}$	3	$\frac{1}{2}$ X 1 $\frac{1}{2}$	700	3.75
6	4	2 $\frac{3}{4}$	3 $\frac{1}{4}$	$\frac{1}{2}$ X 1 $\frac{1}{2}$	1000	5.76
8	5 $\frac{1}{8}$	3	3 $\frac{3}{8}$	$\frac{5}{8}$ X 1 $\frac{1}{2}$	1300	8.10
10	6 $\frac{3}{8}$	3 $\frac{5}{8}$	5 $\frac{1}{4}$	$\frac{5}{8}$ X 2	1700	12.28
12	7 $\frac{1}{2}$	4 $\frac{1}{8}$	5 $\frac{1}{2}$	$\frac{5}{8}$ X 2	2300	20.54
14	8 $\frac{3}{8}$	4 $\frac{1}{16}$	6 $\frac{1}{2}$	$\frac{3}{4}$ X 2	3100	25.63
16	9 $\frac{1}{2}$	5 $\frac{3}{8}$	8 $\frac{1}{4}$	$\frac{3}{4}$ X 2 $\frac{1}{2}$	3900	37.38
18	10 $\frac{1}{2}$	6	9 $\frac{1}{4}$	$\frac{3}{4}$ X 2 $\frac{1}{2}$	4200	45.26
20	11 $\frac{5}{8}$	6 $\frac{3}{8}$	10 $\frac{3}{8}$	$\frac{3}{4}$ X 2 $\frac{1}{2}$	4500	52.35
24	14	7 $\frac{7}{8}$	12 $\frac{1}{4}$	$\frac{7}{8}$ X 3 $\frac{1}{2}$	6000	88.00



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PIPE ROLLER SUPPORTS



PHD Manufacturing, Inc.

PIPE ROLLER HANGER

Fig. 470 WITHOUT SWIVEL

Fig. 475 WITH ADJUSTING SWIVEL

FUNCTION: Designed for suspending pipe in applications where horizontal movement, due to expansion and contraction, will occur and vertical adjustment is necessary. The knurled insert provided with Fig. 475 allows easier vertical adjustment.

APPROVAL: Complies with Federal Specification A-A-1192A (Type 43) and Manufacturers' Standardization Society SP-69 (Type 43).

SIZING: Pipe roller size is for bare pipe. For proper sizing with insulation, refer to pipe roller selection guide on **page 248**, which is for use with pipe covering protection saddles.

ORDERING: Specify pipe roller size and figure number.

MATERIAL: Cast iron pipe roller with low carbon steel frame, axle and hex nuts

FINISH: Plain

Fig. 470

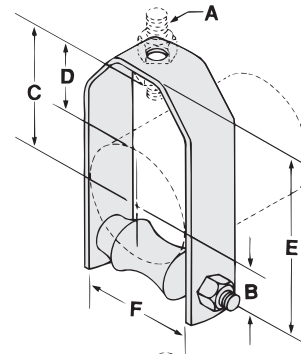
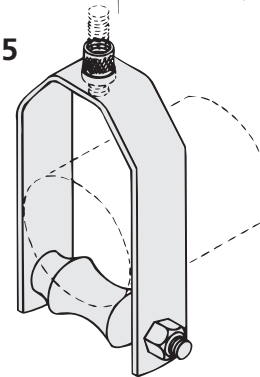


Fig. 475



Available
up to 6"
Pipe
Roller Size

"B" Center of axle
to center of pipe

Pipe Roller Size	Rod Size A	B	C	Adjustment D	E	F	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
2	$\frac{3}{8}$	$1\frac{1}{8}$	$2\frac{5}{8}$	$1\frac{1}{6}$	$4\frac{3}{8}$	$2\frac{3}{4}$	150	1.05
2½	$\frac{1}{2}$	2	$2\frac{3}{8}$	$1\frac{3}{16}$	5	$3\frac{1}{4}$	225	1.29
3	$\frac{1}{2}$	$2\frac{1}{4}$	$3\frac{1}{2}$	$1\frac{3}{4}$	$6\frac{3}{8}$	$3\frac{7}{8}$	310	1.56
3½	$\frac{1}{2}$	$2\frac{5}{8}$	$3\frac{3}{4}$	$1\frac{3}{4}$	7	$4\frac{3}{8}$	390	1.83
4	$\frac{5}{8}$	$2\frac{3}{4}$	$3\frac{15}{16}$	$1\frac{11}{16}$	$7\frac{1}{2}$	5	475	2.81
5	$\frac{5}{8}$	$3\frac{1}{2}$	$4\frac{5}{16}$	$1\frac{1}{16}$	$8\frac{5}{8}$	6	685	4.42
6	$\frac{3}{4}$	4	$5\frac{3}{8}$	$2\frac{1}{16}$	$10\frac{1}{4}$	$7\frac{1}{8}$	780	5.98
8	$\frac{3}{4}$	$5\frac{1}{8}$	$6\frac{1}{2}$	$2\frac{3}{16}$	$12\frac{3}{4}$	$9\frac{1}{4}$	780	11.42
10	$\frac{7}{8}$	$6\frac{3}{8}$	$7\frac{3}{8}$	2	15	$11\frac{1}{4}$	965	17.36
12	$\frac{7}{8}$	$7\frac{1}{2}$	$8\frac{3}{4}$	$2\frac{3}{8}$	$17\frac{1}{2}$	$13\frac{1}{4}$	1200	24.62
14	1	$8\frac{3}{8}$	9	2	$18\frac{7}{8}$	$14\frac{3}{4}$	1200	36.00
16	1	$9\frac{1}{2}$	$9\frac{3}{4}$	$1\frac{3}{4}$	$20\frac{3}{4}$	$16\frac{7}{8}$	1200	44.00
18	1	$10\frac{1}{2}$	$11\frac{3}{4}$	$2\frac{3}{4}$	$23\frac{3}{4}$	$18\frac{7}{8}$	1400	54.00
20	$1\frac{1}{4}$	$11\frac{5}{8}$	$12\frac{1}{2}$	$2\frac{1}{2}$	26	$20\frac{7}{8}$	1600	74.00
24	$1\frac{1}{2}$	$13\frac{13}{16}$	$16\frac{1}{2}$	$4\frac{1}{2}$	$32\frac{9}{16}$	$24\frac{5}{8}$	1600	126.00

Note: For Fig. 470 use of an upper locknut ensures proper performance.



PIPE ROLLER SUPPORTS



PHD Manufacturing, Inc.

ADJUSTABLE PIPE ROLLER SUPPORT

FUNCTION: Designed to support pipe in applications where horizontal movement, due to expansion and contraction, will occur and a vertical adjustment of up to 6 inches may be required. Fig. 480D is designed for supporting and guiding pipe where longitudinal movement and vertical adjustment are required.

SIZING: Pipe roller size shown is for bare pipe. For proper sizing with insulation, refer to pipe roller selection guide on **page 248**, which is for use with pipe covering protection saddles.

ORDERING: Specify pipe roller size and figure number. Shipped with rods and nuts unassembled.

MATERIAL: Cast iron pipe roller and sockets with low carbon steel rods, axles and hex nuts.

FINISH: Plain

Fig. 480 SINGLE PIPE ROLLER
Fig. 480D DOUBLE PIPE ROLLER

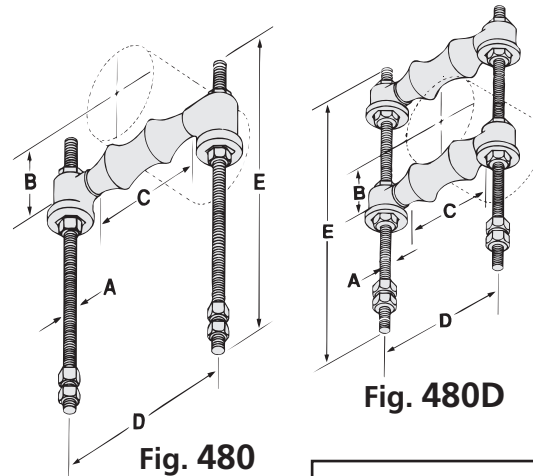


Fig. 480D

"B" Center of axle to center of pipe.

Pipe Roller Size	Rod Size A	B*	C	D	E		Max. Rec. Load/lbs.	Wt. Each (in lbs.)	
					480	480D		480	480D
1	3/8	1	1 1/2	3 1/4	7 1/4	—	600	1.08	—
1 1/4	3/8	1 1/4	1 7/8	3 1/2	7 1/4	—	600	1.17	—
1 1/2	3/8	1 3/8	2 1/8	3 5/8	7 1/4	—	600	1.20	—
2	3/8	1 5/8	2 7/8	4 1/4	7 1/4	12	600	1.25	3.23
2 1/2	1/2	2	3 3/8	5 1/16	8	14	600	2.25	4.65
3	1/2	2 1/4	3 3/4	5 9/16	8	14	700	2.36	5.01
3 1/2	1/2	2 5/8	4 1/4	6 1/16	8	14	750	2.60	5.25
4	5/8	2 3/4	4 3/4	6 9/16	9	18	750	3.65	7.57
5	5/8	3 1/2	5 3/4	8 3/8	9	18	750	4.59	8.72
6	3/4	4	6 7/8	9 5/8	10	24	1070	7.50	16.87
8	7/8	5 1/8	8 7/8	11 3/4	10	24	1350	11.00	22.77
10	7/8	6 3/8	11	14	11	30	1730	13.68	28.30
12	7/8	7 1/2	13	15 7/8	11	30	2400	19.30	38.17
14	1	8 3/8	14 3/8	17 3/4	12	36	3130	31.20	64.13
16	1 1/4	9 1/2	16 3/8	20 3/4	18	—	3970	42.35	—
18	1 1/4	10 1/2	18 3/8	22 3/8	18	—	4200	46.50	—
20	1 1/4	11 5/8	20 3/8	24 1/2	18	—	4550	66.00	—
24	1 1/2	14	24 3/8	28 5/16	24	—	6160	102.50	—
30	1 1/2	17 1/2	30 3/8	35	24	—	7290	186.80	—

*Due to the inconsistent dimensions associated with cast parts, please contact the factory if the "B" dimensions is critical for installation.



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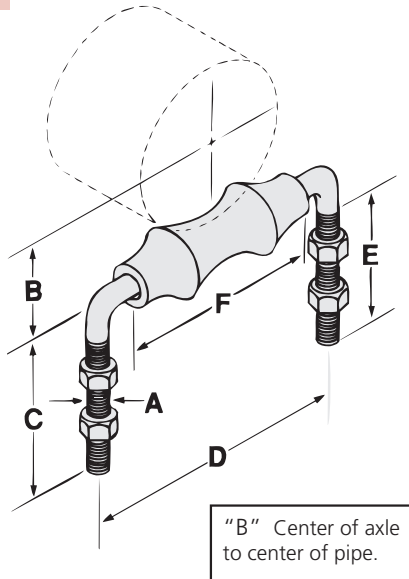
PIPE ROLLER SUPPORTS



PHD Manufacturing, Inc.

ADJUSTABLE PIPE ROLLER SUPPORT

Fig. 483



FUNCTION: Designed to support pipe in applications where horizontal movement, due to expansion and contraction, will occur and a vertical adjustment is required. The roller assembly is attached by means of the threaded support rods and locked in place after correct alignment with the hex nuts provided.

SIZING: Pipe roller size shown is for bare pipe. For proper sizing with insulation, refer to pipe roller selection guide on page 248, which is for use with pipe covering protection saddles.

ORDERING: Specify pipe roller size and figure number.

MATERIAL: Cast iron pipe roller with low carbon steel rod with four hex nuts.

FINISH: Plain

Pipe Roller Size	Rod Size A	B	C	D	E	F	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
2	$\frac{3}{8}$	$1\frac{1}{8}$	$4\frac{1}{4}$	$4\frac{1}{2}$	$2\frac{3}{4}$	$2\frac{7}{8}$	450	.56
2½	$\frac{1}{2}$	2	$4\frac{1}{2}$	$4\frac{3}{8}$	$3\frac{1}{2}$	$3\frac{1}{8}$	450	.93
3	$\frac{1}{2}$	$2\frac{1}{4}$	$4\frac{1}{2}$	$5\frac{1}{8}$	$3\frac{1}{2}$	$3\frac{3}{4}$	450	1.01
3½	$\frac{1}{2}$	$2\frac{5}{8}$	$4\frac{1}{2}$	$5\frac{7}{8}$	$3\frac{1}{2}$	$4\frac{1}{4}$	450	1.26
4	$\frac{1}{2}$	$2\frac{3}{4}$	$4\frac{1}{2}$	$6\frac{3}{4}$	$3\frac{1}{2}$	$4\frac{3}{4}$	560	1.32
5	$\frac{5}{8}$	$3\frac{1}{2}$	$4\frac{1}{2}$	$7\frac{1}{2}$	$3\frac{1}{2}$	$5\frac{3}{4}$	560	2.39
6	$\frac{3}{4}$	4	$4\frac{1}{2}$	$8\frac{1}{2}$	$3\frac{1}{2}$	$6\frac{7}{8}$	780	3.56
8	$\frac{7}{8}$	$5\frac{1}{8}$	$5\frac{1}{4}$	11	4	$8\frac{7}{8}$	1800	5.88
10	$\frac{7}{8}$	$6\frac{3}{8}$	$5\frac{1}{4}$	$13\frac{1}{2}$	4	11	1800	9.23
12	1	$7\frac{1}{2}$	6	$15\frac{1}{4}$	5	13	1800	12.97
14	$1\frac{1}{8}$	$8\frac{3}{8}$	7	$17\frac{1}{2}$	$5\frac{1}{2}$	$14\frac{3}{8}$	3075	22.46
16	$1\frac{1}{4}$	$9\frac{1}{2}$	8	20	6	$16\frac{3}{8}$	3075	28.35



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PIPE ROLLER SUPPORTS



PHD Manufacturing, Inc.

PIPE ROLLER STAND

Fig. 486

FUNCTION: Designed to support pipe in applications where horizontal movement, due to expansion and contraction, will occur.

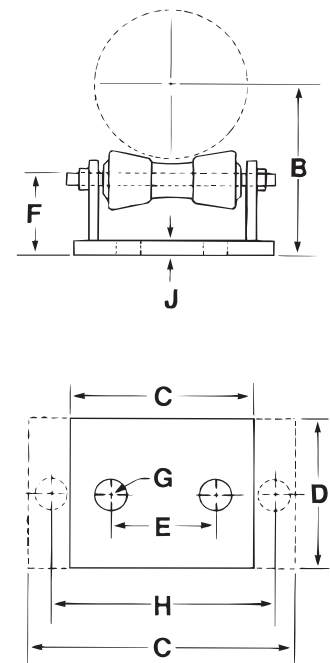
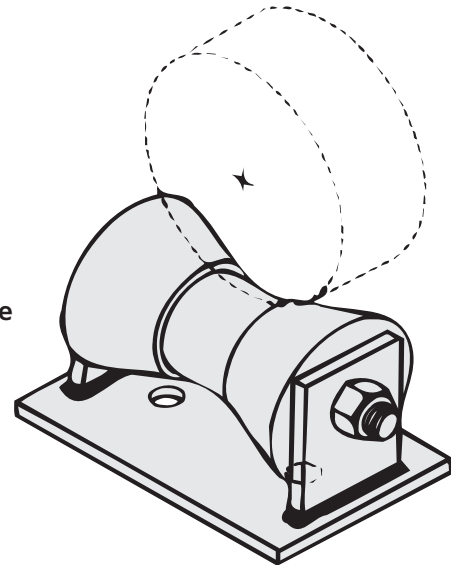
APPROVALS: Complies with Federal Specification A-A-1192A (Type 44) and Manufacturers' Standardization Society SP-69 (Type 44).

SIZING: Pipe roller size shown is for bare pipe. For proper sizing with insulation, refer to pipe roller selection guide on **page 248**, which is for use with pipe covering protection saddles. The two cored holes "G" on roller sizes 2 thru 6 are on the outside of the stand.

ORDERING: Specify pipe roller size and figure number.

MATERIAL: Cast iron pipe roller with low carbon steel stand and axle

FINISH: Plain



Pipe Roller Size	B	C	D	E	F	G	H	J	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
2	3½									
2½	3¾									
3	4⅛	—	6	—	1¾	1	6¾	8¾	390	4.48
3½	4⅜									
4	4⅓									
5	5⅙	—	6	—	2⅙	1	7⅞	9⅞	950	6.85
6	6⅙									
8	8⅙	8⅞	7	4⅞	3⅙	1	—	—	2100	14.09
10	9⅓									
12	11⅜	10⅞	8	5⅓	3⅞	1	—	—	3075	22.09
14	12									
16	13⅞									
18	14⅞	12½	9	6⅞	4¼	1	—	—	4980	32.00
20	15⅞									
24	17¾	13½	9	7⅞	4⅞	1	—	—	6100	41.43
30	21⅞		17	12	10	5⅞	1	—	7500	80.00
36	25¾	20	12	12	5¾	1	—	—	12000	125.00
42	28⅞									

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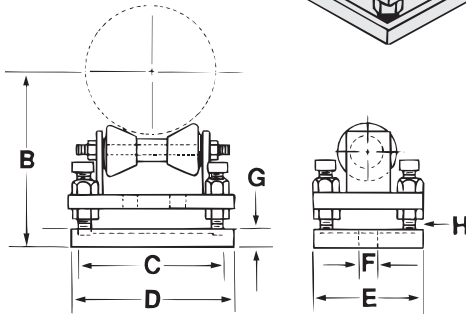
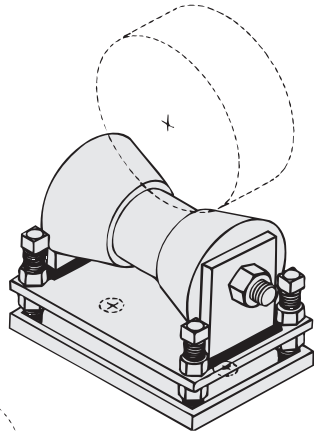
PIPE ROLLER SUPPORTS



PHD Manufacturing, Inc.

ADJUSTABLE PIPE ROLLER STAND WITH BASE

Fig. 487



FUNCTION: Designed to support pipe in applications where horizontal movement, due to expansion and contraction, will occur and vertical adjustment is required.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 46) and Manufacturers' Standardization Society SP-69 (Type 46).

SIZING: Pipe roller size shown is for bare pipe. For proper sizing with insulation, refer to pipe roller selection guide on page 248, which is for use with pipe covering protection saddles.

ORDERING: Specify pipe roller size and figure number.

MATERIAL: Cast iron pipe roller and base with low carbon steel stand, axle and adjusting screws with locknuts

FINISH: Plain

Note: Refer to Fig. 486 for measurements of roller stand.

Pipe Roller Size	B		C	D	E	Hole Size F	G	Bolt Size H	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
	Min.	Max.								
2	5 $\frac{1}{8}$	5 $\frac{3}{8}$								
2 $\frac{1}{2}$	5 $\frac{3}{8}$	5 $\frac{5}{8}$	3 $\frac{7}{8}$	7	5 $\frac{1}{2}$	1	1	$\frac{5}{8}$	390	12.03
3	5 $\frac{3}{4}$	6								
3 $\frac{1}{2}$	6	6 $\frac{1}{4}$								
4	6 $\frac{1}{2}$	7								
5	7	7 $\frac{1}{2}$	5 $\frac{1}{8}$	8 $\frac{3}{8}$	5 $\frac{3}{4}$	1	1	$\frac{5}{8}$	950	15.24
6	7 $\frac{7}{8}$	8 $\frac{1}{8}$								
8	10 $\frac{3}{8}$	11 $\frac{5}{8}$	7 $\frac{3}{8}$	10 $\frac{3}{4}$	6 $\frac{3}{4}$	1	1 $\frac{1}{8}$	$\frac{3}{4}$	2100	30.59
10	11 $\frac{1}{2}$	12 $\frac{3}{4}$								
12	13	14 $\frac{1}{4}$	9 $\frac{1}{2}$	13 $\frac{1}{8}$	8	1	1 $\frac{3}{8}$	$\frac{7}{8}$	3075	44.96
14	13 $\frac{3}{8}$	14 $\frac{7}{8}$								
16	15 $\frac{1}{4}$	16 $\frac{5}{8}$								
18	16 $\frac{3}{8}$	17 $\frac{3}{4}$	11 $\frac{1}{8}$	14 $\frac{1}{2}$	8 $\frac{3}{8}$	1	1 $\frac{3}{8}$	1	4980	64.10
20	17 $\frac{3}{8}$	18 $\frac{3}{4}$								
24	19 $\frac{5}{8}$	21	12 $\frac{1}{4}$	16	8 $\frac{5}{8}$	1	1 $\frac{3}{8}$	1	6100	76.68
30	24	26 $\frac{3}{4}$	15 $\frac{3}{4}$	19 $\frac{5}{16}$	10 $\frac{1}{2}$	1	1 $\frac{5}{8}$	1 $\frac{1}{4}$	7500	142.25
36	23 $\frac{3}{16}$	29 $\frac{3}{16}$	16	22	11 $\frac{1}{2}$	1	1 $\frac{5}{8}$	1 $\frac{1}{2}$	12000	156.23
42	29 $\frac{1}{4}$	32 $\frac{1}{4}$								



PIPE ROLLER SUPPORTS

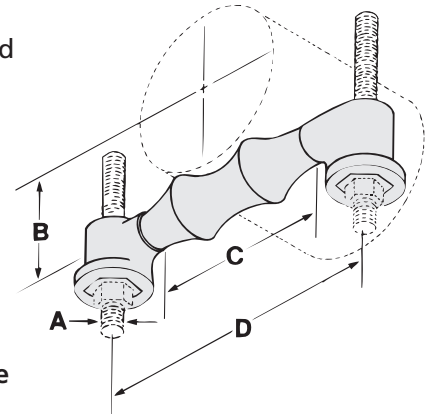


PHD Manufacturing, Inc.

PIPE ROLLER WITH SOCKETS

Fig. 490

- FUNCTION:** Designed to suspend pipe in applications where horizontal movement, due to expansion and contraction, will occur.
- APPROVALS:** Complies with Federal Specification A-A-1192A (Type 41) and Manufacturers' Standardization Society SP-69 (Type 41).
- SIZING:** Pipe roller size shown is for bare pipe. For proper sizing with insulation, refer to pipe roller selection guide on **page 248**, which is for use with pipe covering protection saddles.
- ORDERING:** Specify pipe roller size and figure number.
- MATERIAL:** Cast iron pipe roller and sockets with low carbon steel axle
- FINISH:** Plain



"B" Center of axle to center of pipe.

Pipe Roller Size	Rod Size A	B*	C	D	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
1	3/8	1	1 1/2	3/4	600	.44
1 1/4	3/8	1 1/4	1 7/8	3 1/2	600	.48
1 1/2	3/8	1 3/8	2 1/8	3 5/8	600	.50
2	3/8	1 5/8	2 7/8	4 1/4	600	.57
2 1/2	1/2	2	3 3/8	5 1/6	660	.98
3	1/2	2 1/4	3 3/4	5 5/6	700	1.10
3 1/2	1/2	2 5/8	4 1/4	6 1/6	750	1.36
4	5/8	2 3/4	4 3/4	6 5/6	750	1.62
5	5/8	3 1/2	5 3/4	8 3/8	750	2.60
6	3/4	4	6 7/8	9 5/8	1070	4.42
8	7/8	5 1/8	8 7/8	11 3/4	1350	7.20
10	7/8	6 3/8	11	14	1730	9.50
12	7/8	7 1/2	13	15 7/8	2400	16.00
14	1	8 3/8	14 3/8	17 3/4	3130	24.20
16	1 1/4	9 1/2	16 3/8	20 3/4	3970	31.75
18	1 1/4	10 1/2	18 3/8	22 3/8	4200	35.10
20	1 1/4	11 5/8	20 3/8	24 1/2	4550	47.00
24	1 1/2	14	24 3/8	28 5/6	6160	76.20
30	1 1/2	17 1/2	30 3/8	35	7290	130.00

*Due to the inconsistent dimensions associated with cast parts, please contact the factory if the "B" dimensions is critical for installation.



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PIPE ROLLER SUPPORTS SELECTION GUIDE



PHD Manufacturing, Inc.

FOR USE WITH PIPE COVERING PROTECTION SADDLE FIGURES 651-658 ON PAGE 262

Pipe Size	Insulation Thickness	Pipe Roller Size		
		Use With Fig. No.		
		460, 480 483, 490	470 475	486 487
½	1	2	2½	2-3½
	1½	3	3½	2-3½
	2	4	5	2-3½
	2½	—	—	—
	3	—	—	—
¾	1	2	2½	2-3½
	1½	3	3½	2-3½
	2	4	5	2-3½
	2½	—	—	—
	3	—	—	—
1	1	2½	3	2-3½
	1½	3	4	2-3½
	2	4	5	2-3½
	2½	—	—	—
	3	—	—	—
1¼	1	2½	3	2-3½
	1½	3½	5	2-3½
	2	4	5	2-3½
	2½	5	6	4-6
	3	—	—	—
1½	1	3	3½	2-3½
	1½	3½	5	2-3½
	2	5	6	4-6
	2½	6	8	4-6
	3	—	—	—
2	1	3½	4	2-3½
	1½	4	5	2-3½
	2	5	6	4-6
	2½	6	8	4-6
	3	8	8	4-6
2½	1	3½	5	2-3½
	1½	5	6	4-6
	2	6	8	4-6
	2½	8	8	4-6
	3	8	10	4-6
3	1	4	5	2-3½
	1½	5	6	4-6
	2	6	8	4-6
	2½	8	8	4-6
	3	8	10	8-10
3½	1	5	6	4-6
	1½	6	8	4-6
	2	8	8	4-6
	2½	8	10	8-10
	3	10	10	8-10
4	1	5	6	4-6
	1½	6	8	4-6
	2	8	8	4-6
	2½	8	10	8-10
	3	10	10	8-10

Pipe Size	Insulation Thickness	Pipe Roller Size		
		Use With Fig. No.		
		460, 480 483, 490	470 475	486 487
5	1	6	8	4-6
	1½	8	8	4-6
	2	8	10	8-10
	2½	10	10	8-10
	3	10	12	8-10
6	1	8	8	4-6
	1½	8	10	8-10
	2	10	10	8-10
	2½	10	12	8-10
	3	12	12	8-10
8	1	10	12	8-10
	1½	10	12	8-10
	2	10	12	8-10
	2½	12	14	8-10
	3	14	16	12-14
10	1	12	14	8-10
	1½	12	14	8-10
	2	14	16	12-14
	2½	14	16	12-14
	3	16	18	16-20
12	1	14	16	12-14
	1½	14	16	12-14
	2	16	18	16-20
	2½	16	18	16-20
	3	18	20	16-20
14	1	16	18	12-14
	1½	16	18	16-20
	2	18	20	16-20
	2½	18	20	16-20
	3	20	20	16-20
16	1	18	20	16-20
	1½	18	20	16-20
	2	20	—	16-20
	2½	20	—	16-20
	3	20	—	24
18	1	20	—	—
	1½	20	—	16-20
	2	20	—	24
	2½	24	—	24
	3	24	—	24
20	1	24	—	—
	1½	24	—	24
	2	24	—	24
	2½	24	—	24
	3	24	—	24
24	1	30	—	—
	1½	30	—	30
	2	30	—	30
	2½	30	—	30
	3	30	—	30



SPLIT RING HANGERS



PHD Manufacturing, Inc.

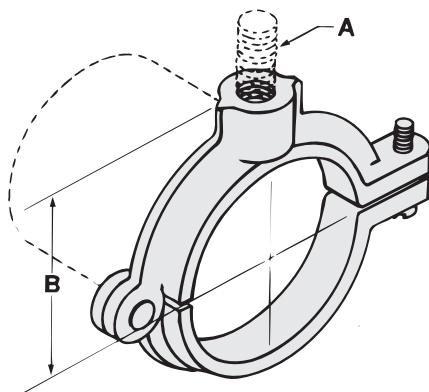
HINGED EXTENSION SPLIT CLAMP

Fig. 508 PIPE THREAD
Fig. 508R BOLT THREAD

FUNCTION: Designed for non-insulated stationary pipe lines in either a horizontal or vertical position. The hinged design allows for a quick installation.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 12) and Manufacturers' Standardization Society SP-69 (Type 12).

ORDERING: Specify pipe size, finish and figure number.



MATERIAL: Malleable iron
FINISH: Plain or Electro-galvanized

Pipe Size	A		B	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
	Pipe Thread Fig. 508	Bolt Thread Fig. 508R			
3/8	1/4	3/8	13/16	180	.13
1/2	1/4	3/8	7/8	180	.14
3/4	1/4	3/8	1	180	.16
1	1/4	3/8	1 1/8	180	.18
1 1/4	1/4	3/8	1 5/16	180	.22
1 1/2	1/4	3/8	1 7/16	180	.38
2	1/4	3/8	1 11/16	180	.44
2 1/2	1/2	1/2	2 1/8	300	1.05
3	1/2	1/2	2 7/16	300	1.40
4	1/2	1/2	3	300	1.60

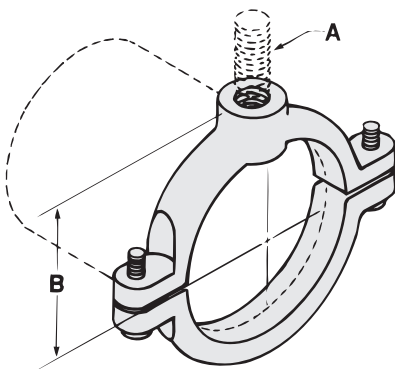
EXTENSION SPLIT CLAMP

Fig. 510 PIPE THREAD
Fig. 510R BOLT THREAD

FUNCTION: Designed for non-insulated stationary pipe lines in either a horizontal or vertical position.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 12) and Manufacturers' Standardization Society SP-69 (Type 12).

ORDERING: Specify pipe size, finish and figure number.



MATERIAL: Malleable iron
FINISH: Plain or Electro-galvanized

Pipe Size	A		B	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
	Pipe Thread Fig. 510	Bolt Thread Fig. 510R			
3/8	1/4	3/8	13/16	180	.13
1/2	1/4	3/8	7/8	180	.14
3/4	1/4	3/8	1	180	.16
1	1/4	3/8	1 1/8	180	.18
1 1/4	1/4	3/8	1 5/16	180	.22
1 1/2	1/4	3/8	1 7/16	180	.38
2	1/4	3/8	1 11/16	180	.44
2 1/2	1/2	1/2	2 1/8	300	1.05
3	1/2	1/2	2 7/16	300	1.40
4	1/2	1/2	3 1/32	300	1.60



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SPLIT RING HANGERS



PHD Manufacturing, Inc.

COPPER TUBING EXTENSION SPLIT CLAMP

FUNCTION: Designed for non-insulated stationary tubing lines in either a horizontal or vertical position. The hinged design of Fig. 512H allows for a quicker installation.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 12) and Manufacturers' Standardization Society SP-69 (Type 12).

ORDERING: Specify tube size and figure number.

MATERIAL: Malleable iron

FINISH: Copper Color Epoxy finish

Fig. 512 TWO PIECE DESIGN
Fig. 512H HINGED DESIGN

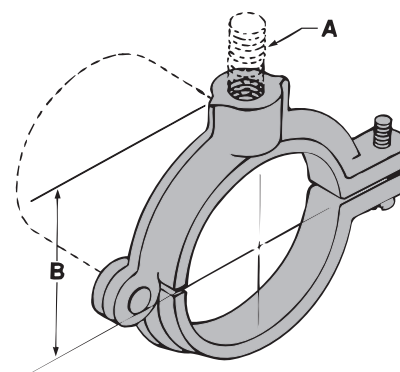


Fig. 512H shown

Tube Size	Rod Size A	B	Max. Rec. Load/lbs.	Wt. Each (in lbs.)	
				Fig. 512	Fig. 512H
3/8	3/8	9/16	180	.07	.08
1/2	3/8	1 1/16	180	.09	.09
3/4	3/8	7/8	180	.09	.12
1	3/8	1	180	.10	.11
1 1/4	3/8	1 1/8	180	.12	.15
1 1/2	3/8	1 5/16	180	.13	.20
2	3/8	1 1/2	180	.18	.25
2 1/2	1/2	1 7/8	300	.65	.72
3	1/2	2 1/8	300	1.00	1.07
4	1/2	2 3/4	300	1.40	1.50

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PIPE CLAMPS



PHD Manufacturing, Inc.

STANDARD PIPE CLAMP

Fig. 520
Fig. 521

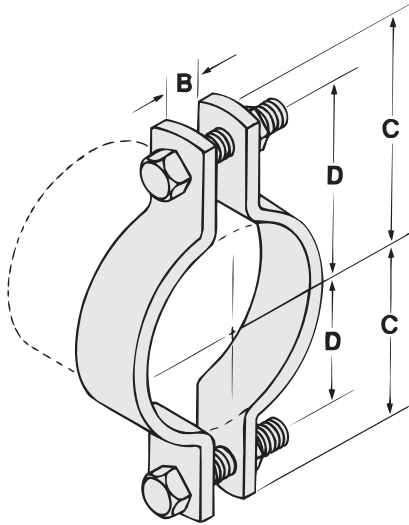
PLAIN
ELECTRO-GALVANIZED

FUNCTION: Designed to be used in the suspension of non-insulated pipe lines. Normally used in conjunction with Fig. 35 weldless eye nut, Fig. 50 eye rod or Fig. 55 welded eye rod to allow flexibility at the rod attachment.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 4) and Manufacturers' Standardization Society SP-69 (Type 4).

ORDERING: Specify pipe size and figure number.

MATERIAL: Low carbon steel



Pipe Size	B	C	D	Bolt Size	Max. Rec. Load/lbs.		Wt. Each (in lbs.)
					650°F	750°F	
1/2	3/8	1 1/16	1 1/16	3/8	500	445	.31
3/4	3/8	1 3/4	1 1/4	3/8	500	445	.35
1	3/8	1 7/8	1 3/8	3/8	500	445	.39
1 1/4	3/8	2 1/8	1 5/8	3/8	500	445	.40
1 1/2	3/8	2 1/4	1 3/4	3/8	800	715	.45
2	1/2	2 9/16	2 1/16	1/2	1040	930	1.23
2 1/2	5/8	3 1/8	2 5/8	1/2	1040	930	1.33
3	5/8	3 5/16	2 13/16	1/2	1040	930	1.53
3 1/2	5/8	3 11/16	3 3/16	1/2	1040	930	1.68
4	3/4	4 1/8	3 3/8	5/8	1040	930	1.89
5	3/4	4 3/4	4 1/8	5/8	1040	930	2.13
6	7/8	5 3/4	4 7/8	3/4	1615	1440	5.06
8	1	7	6	3/4	1615	1440	6.08
10	1	8 9/16	7 9/16	7/8	2490	2220	12.81
12	1	9 7/8	8 7/8	7/8	2490	2220	13.08
14	1 1/8	11 5/16	9 5/16	7/8	2490	2220	16.70
16	1 1/8	12 5/8	10 7/8	7/8	2490	2220	23.19
18	1 1/4	13 3/8	9 5/8	1	3060	2730	33.12
20	1 3/8	14 5/16	12 9/16	1 1/8	3060	2730	38.66
24	1 5/8	17 1/4	15 1/2	1 1/4	3060	2730	52.27
30	2	20 7/8	18 5/8	1 1/2	4000	3520	105.13



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PIPE CLAMPS



PHD Manufacturing, Inc.

HEAVY DUTY PIPE CLAMP

Fig. 522

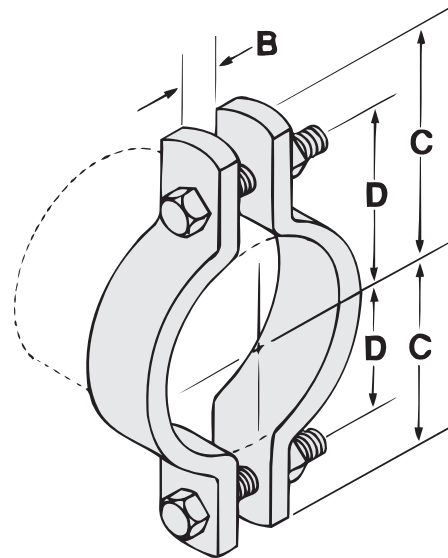
FUNCTION: Designed to be used in the suspension of non-insulated pipe lines where heavier loads are to be suspended. Normally used in conjunction with Fig. 35 weldless eye nut or Fig. 55 welded eye rod to allow flexibility at the rod attachment.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 4) and Manufacturers' Standardization Society SP-69 (Type 4).

ORDERING: Specify pipe size and figure number.

MATERIAL: Low carbon steel

FINISH: Plain



Pipe Size	B	C	D	Bolt Size	Max. Rec. Load/lbs.		Wt. Each (in lbs.)
					650°F	750°F	
3	1	4 ¹ / ₈	3	³ / ₄	3370	3005	4.96
3 ¹ / ₂	1	4 ³ / ₈	3 ¹ / ₄	³ / ₄	3370	3005	5.36
4	1	4 ¹⁵ / ₁₆	3 ¹¹ / ₁₆	⁷ / ₈	3515	3135	5.74
5	1	5 ⁹ / ₁₆	4 ⁵ / ₁₆	⁷ / ₈	3515	3135	7.13
6	1 ¹ / ₈	6 ¹¹ / ₁₆	5 ³ / ₁₆	1	4865	4340	13.48
8	1 ¹ / ₈	7 ³ / ₄	6 ¹ / ₄	1	4865	4340	15.78
10	1 ¹ / ₄	9 ¹ / ₂	7 ⁷ / ₈	1 ¹ / ₄	6010	5360	24.20
12	1 ⁵ / ₈	11 ⁵ / ₈	9 ¹ / ₂	1 ¹ / ₂	8675	7740	41.54
14	1 ⁵ / ₈	12 ¹ / ₄	10 ¹ / ₈	1 ¹ / ₂	9120	8135	53.25
16	1 ⁵ / ₈	13 ⁵ / ₁₆	11 ³ / ₁₆	1 ¹ / ₂	9120	8135	56.35
18	1 ⁵ / ₈	14 ⁵ / ₁₆	12 ³ / ₁₆	1 ¹ / ₂	9150	8160	70.12
20	1 ⁵ / ₈	15 ⁷ / ₁₆	13 ⁵ / ₁₆	1 ¹ / ₂	9150	8160	74.68
24	1 ³ / ₄	17 ³ / ₄	15 ³ / ₈	1 ¹ / ₂	9200	8205	126.29

Note: Larger sizes available upon request.

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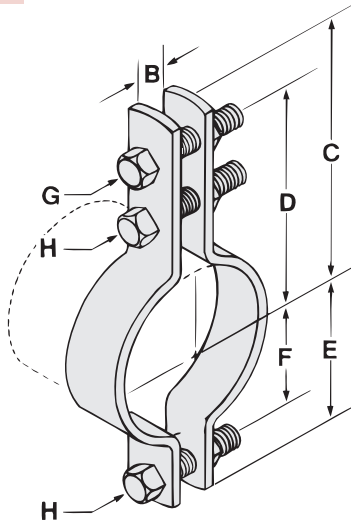
PIPE CLAMPS



PHD Manufacturing, Inc.

DOUBLE BOLT PIPE CLAMP

Fig. 525



FUNCTION: Designed for the suspension of high temperature insulated pipe lines. Normally used in conjunction with Fig. 35 weldless eye nut or Fig. 55 welded eye rod to allow flexibility at the rod attachment. The clamp can be used with up to 4 inches of insulation and temperatures up to 750° F.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 3) and Manufacturers' Standardization Society SP-69 (Type 3).

ORDERING: Specify pipe size, finish and figure number.

MATERIAL: Low carbon steel

FINISH: Plain or Electro-galvanized

Pipe Size	B	C	D	E	F	Bolt Size		Max. Rec. Load/lbs.		Wt. Each (in lbs.)
						G	H	650° F	750° F	
3/4	5/8	3 7/16	2 13/16	2	1 3/8	3/8	3/8	950	850	.83
1	5/8	3 1/2	2 7/8	2	1 3/8	3/8	3/8	950	850	1.02
1 1/4	5/8	3 3/16	2 5/16	2 1/16	1 7/16	3/8	3/8	950	850	1.07
1 1/2	1	5 1/4	4 3/8	2 5/8	2	5/8	1/2	1545	1380	2.30
2	1	5 3/8	4 3/4	2 3/4	2 1/8	5/8	1/2	1545	1380	2.60
2 1/2	1	5 11/16	5 1/16	3 1/16	2 7/16	5/8	1/2	1545	1380	2.71
3	1	6	5 3/8	3 3/8	2 3/4	5/8	1/2	1545	1380	3.03
3 1/2	1	6 5/16	5 11/16	3 11/16	3 1/16	5/8	1/2	1545	1380	3.28
4	1	8 1/16	7 1/16	5 1/16	4 1/16	3/4	5/8	2500	2230	6.67
5	1	8 3/8	7 3/8	5 5/8	4 5/8	3/4	5/8	2500	2230	7.05
6	1 1/2	9 7/8	8	6 3/8	5 5/8	7/8	3/4	2865	2555	11.45
8	1 1/2	11 1/8	9 7/8	7 3/8	6 3/8	7/8	3/4	2865	2555	13.15
10	1 1/2	12 3/8	11 1/8	8 3/8	7 3/8	1	7/8	3240	2890	19.80
12	1 1/2	13 3/4	12 1/2	10 1/4	9	1	7/8	3240	2890	22.25
14	1 1/2	15 1/16	13 3/16	11 7/16	9 15/16	1 1/4	7/8	4300	3835	37.68
16	1 1/2	15 13/16	14 5/16	12 3/16	10 11/16	1 1/4	7/8	4300	3835	41.40
18	1 1/2	16 11/16	15 7/16	13 3/16	11 13/16	1 1/4	1	4300	3835	44.87
20	2	18	16 1/2	14 1/2	13	1 3/8	1 1/8	5490	4900	57.25
24	2	20 1/4	18 3/4	16 3/4	15 1/4	1 3/8	1 1/4	4500	4015	65.90

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PIPE CLAMPS



PHD Manufacturing, Inc.

HEAVY DUTY DOUBLE BOLT PIPE CLAMP

FUNCTION: Designed for the suspension of high temperature pipe lines. The increased material and bolt sizes allow Fig. 526 to be used in applications where heavier loads will be encountered. Normally used in conjunction with Fig. 35 weldless eye nut or Fig. 55 welded eye rod to allow flexibility at the rod attachment. The clamp can be used with up to 4 inches of insulation and temperatures up to 750° F.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 3) and Manufacturers' Standardization Society SP-69 (Type 3).

ORDERING: Specify pipe size and figure number.

MATERIAL: Low carbon steel

FINISH: Plain

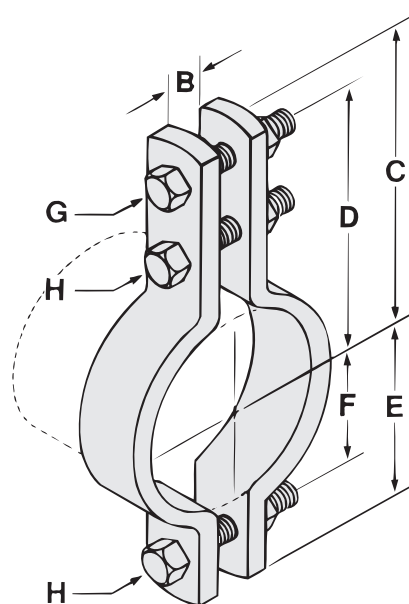


Fig. 526

Pipe Size	B	C	D	E	F	Bolt Size		Max. Rec. Load/lbs.		Wt. Each (in lbs.)
						G	H	650° F	750° F	
6	1¾	11½	8¾	6½	4¾	1	¾	3500	3125	14.14
8	2	11¾	9½	7½	6¾	1½	1	4800	4285	20.99
10	2¼	12½	11¾	9¾	7¾	1¾	1½	5500	4910	33.71
12	2½	14	12¼	10½	8½	1½	1¾	7000	6250	48.17
14	2½	15½	13¾	12	10	1½	1¾	9500	8485	70.50
16	3	16¾	14¾	13¾	11¾	1¾	1½	10000	8930	93.90
18	3½	18¾	16¾	15½	12¾	2	1¾	13800	12325	123.72
20	3½	19½	17¾	16¾	13½	2	1¾	15300	13665	156.43
24	3½	22½	19½	19	16	2	1¾	16300	14555	204.65

Note: Larger sizes available upon request.



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PIPE CLAMPS



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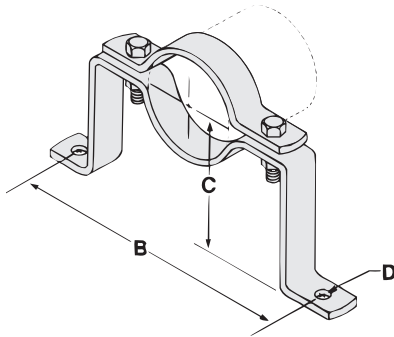
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OFFSET PIPE CLAMP

Fig. 535

FUNCTION: Designed to be used in the clamping of pipe lines at a fixed distance away from the floor or wall.

ORDERING: Specify pipe size and figure number.



MATERIAL: Low carbon steel
FINISH: Plain

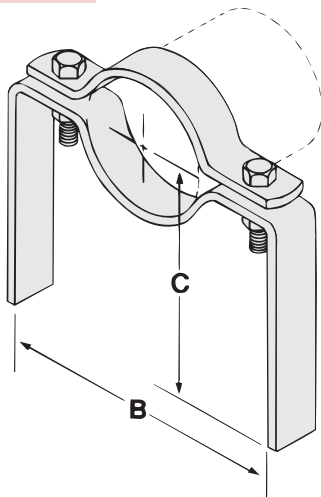
Pipe Size	B	C	D	Bolt Size	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
3/4	5 7/8	2 1/2	7/16	3/8	190	.87
1	6	2 5/8	7/16	3/8	190	.92
1 1/4	6 1/2	2 3/4	7/16	3/8	190	1.15
1 1/2	6 9/16	3	7/16	3/8	190	1.24
2	7 1/16	3 3/16	7/16	3/8	420	1.56
2 1/2	8 3/8	3 7/16	7/16	3/8	420	1.78
3	8 13/16	3 1/2	7/16	3/8	420	1.98
3 1/2	9 3/4	4	7/16	3/8	420	2.45
4	11	4 1/4	9/16	1/2	610	3.00
5	12 3/8	4 3/4	9/16	1/2	610	3.50
6	14 3/8	5 5/16	9/16	1/2	870	6.50
8	16 1/2	6 5/16	9/16	1/2	870	7.90
10	19 3/8	7 3/4	1 1/16	5/8	870	12.70
12	25 1/2	8 7/8	1 1/16	5/8	870	21.20

EXTENDED PIPE CLAMP

Fig. 545

FUNCTION: Designed to be used in the suspension or support of pipe lines where exact distance between the structure and the pipe is unknown until time of installation.

ORDERING: Specify pipe size and figure number.



MATERIAL: Low carbon steel
FINISH: Plain

Pipe Size	B	C	Bolt Size	Wt. Each (in lbs.)
3/4	4 3/16	12	3/8	1.82
1	4 5/16	12	3/8	2.25
1 1/4	4 13/16	12	3/8	2.39
1 1/2	4 15/16	12	3/8	2.44
2	5 15/16	12	3/8	3.19
2 1/2	6 9/16	12	3/8	3.34
3	7 1/16	12	3/8	3.54
4	8 15/16	12	1/2	4.75
5	10 1/8	12	1/2	5.38
6	12 1/16	12	1/2	8.38
8	14 1/8	12	1/2	9.25



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RISER CLAMPS



PHD Manufacturing, Inc.

RISER CLAMP

FUNCTION: Designed for supporting and stabilizing vertical pipe runs. The PVC coating on Fig. 553 protects the pipe from the metal surface on the clamp. This product is not intended for use with hanger rods. Clamp is designed for standard iron pipe O.D. and must be considered when sizing other types of piping. When possible, the clamp should be placed under a coupling, hub, or welded lugs on steel pipe. Bolt torques should be per industry standards.

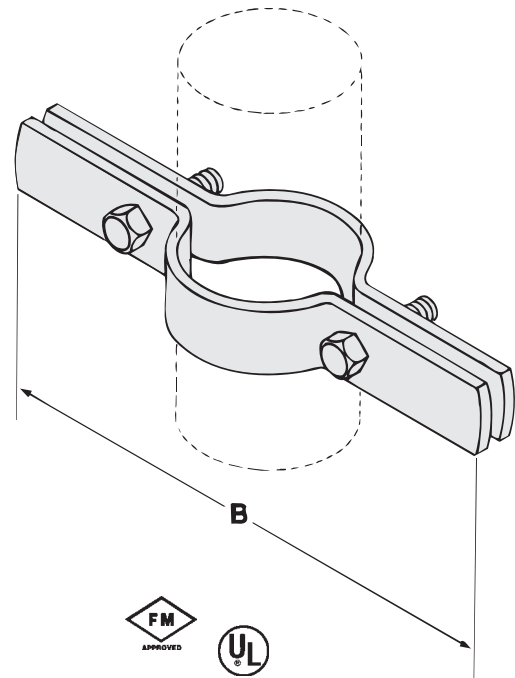
Fig. 550 PLAIN
Fig. 551 ELECTRO-GALVANIZED
Fig. 553 PLAIN WITH PVC COATING

APPROVALS: Complies with Federal Specification A-A-1192A (Type 8) and Manufacturers' Standardization Society SP-69 (Type 8). Underwriter's Laboratories listed and Factory Mutual Approved 3/4" to 8" only.

ORDERING: Specify pipe size and figure number.

MATERIAL: Low carbon steel

Pipe Size	B	Bolt Size	Max. Rec Load/lbs.	Wt. Each (in lbs.)
1/2	9	3/8 X 1 1/4	220	1.05
3/4	9 3/8	3/8 X 1 1/4	220	1.10
1	9 5/8	3/8 X 1 1/4	220	1.10
1 1/4	10	3/8 X 1 1/4	250	1.60
1 1/2	10 3/8	3/8 X 1 1/4	250	1.60
2	10 3/4	3/8 X 1 1/4	300	1.70
2 1/2	11 1/4	3/8 X 1 1/2	400	1.90
3	11 3/4	3/8 X 1 1/2	500	1.90
3 1/2	12	3/8 X 1 1/2	600	2.30
4	12 1/2	1/2 X 1 3/4	750	2.40
5	14 1/2	1/2 X 1 3/4	1500	3.60
6	16	1/2 X 1 3/4	1600	4.00
8	18	5/8 X 2	2500	7.60
10	21 1/2	5/8 X 2	2500	11.10
12	24	5/8 X 2 1/2	2700	16.50
14	25	5/8 X 3	2700	17.70
16	26 1/4	3/4 X 3 1/2	2900	30.40
18	28 3/8	3/4 X 3 1/2	2900	33.30
20	30	3/4 X 3 1/2	2900	36.30
24	34 3/4	7/8 X 3 1/2	2900	48.68
30	40 3/4	7/8 X 3 1/2	2900	60.16





RISER CLAMPS



PHD Manufacturing, Inc.

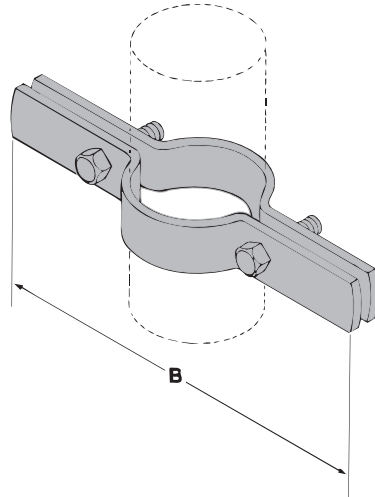
COPPER TUBING RISER CLAMP

Fig. 552

COPPER COLOR
EPOXY FINISH

Fig. 554

COPPER COLOR
EPOXY FINISH
WITH PVC
COATING



Tube Size	B	Bolt	Wgt. Each (lbs.)	Max Rec Load (lbs.)
1/2	6 ¹¹ / ₁₆	1/4	.48	75
3/4	7	1/4	.50	75
1	8 ³ / ₄	1/4	.64	120
1 1/4	9	1/4	.66	150
1 1/2	9 ³ / ₈	1/4	.68	150
2	9 ¹⁵ / ₁₆	3/8	1.06	150
2 1/2	10 1/2	3/8	1.08	300
3	11	3/8	1.16	300
3 1/2	12 ³ / ₁₆	3/8	1.58	300
4	12 ⁵ / ₈	3/8	1.66	300
5	14 ¹ / ₈	1/2	3.42	500
6	15	1/2	3.76	500

- FUNCTION:** Designed for supporting and stabilizing vertical tubing runs. The PVC coating on Fig. 554 protects the tube from the metal surface of the clamp.
- APPROVALS:** Complies with Federal Specification A-A-1192A (Type 8) and Manufacturers' Standardization Society SP-69 (Type 8).
- ORDERING:** Specify tube size and figure number.
- MATERIAL:** Low carbon steel

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UNDERGROUND PIPE CLAMPS



PHD Manufacturing, Inc.

TWO BOLT UNDERGROUND PIPE CLAMP

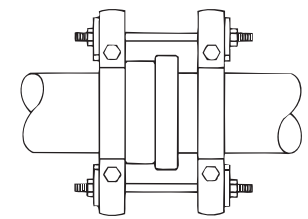
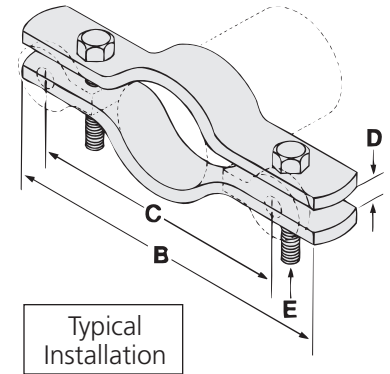
FUNCTION: Designed for clamping the caulked joints of underground A.W.W.A. ductile iron water pipes to prevent separation of joints.

Fig. 580

ORDERING: Specify pipe size and figure number.
Order Fig. 585 washer separately.

Pipe Size	Max. Pipe O.D.	B	C	D	Bolt Size E	Recom. Tie Rod Size	Wt. Each (in lbs.)
3	3.96	11 $\frac{3}{4}$	9	1 $\frac{1}{4}$	$\frac{5}{8}$ X 3	$\frac{3}{4}$	6.18
4	4.80	13	10 $\frac{1}{4}$	1 $\frac{1}{4}$	$\frac{5}{8}$ X 3	$\frac{3}{4}$	8.80
6	6.90	14 $\frac{3}{4}$	12	1 $\frac{1}{4}$	$\frac{5}{8}$ X 3	$\frac{3}{4}$	10.50
8	9.05	17 $\frac{1}{4}$	14 $\frac{1}{2}$	1 $\frac{1}{4}$	$\frac{5}{8}$ X 3	$\frac{3}{4}$	12.34
10	11.10	19 $\frac{1}{2}$	16 $\frac{3}{4}$	1 $\frac{1}{4}$	$\frac{5}{8}$ X 3	$\frac{3}{4}$	14.80
12	13.20	21 $\frac{3}{4}$	19	1 $\frac{1}{4}$	$\frac{5}{8}$ X 3 $\frac{1}{2}$	$\frac{3}{4}$	16.03
14	15.30	27 $\frac{1}{4}$	23 $\frac{3}{8}$	1 $\frac{3}{8}$	$\frac{7}{8}$ X 4	1	44.37
16	17.40	29 $\frac{1}{2}$	25 $\frac{1}{2}$	1 $\frac{1}{2}$	1 X 4 $\frac{1}{2}$	1 $\frac{1}{8}$	64.74
18	19.50	32 $\frac{1}{4}$	28	1 $\frac{1}{2}$	1 $\frac{1}{4}$ X 4 $\frac{1}{2}$	1 $\frac{1}{4}$	73.69
20	21.60	33 $\frac{1}{4}$	29 $\frac{3}{4}$	1 $\frac{5}{8}$	1 $\frac{1}{4}$ X 4 $\frac{1}{2}$	1 $\frac{3}{8}$	86.00
24	25.80	37 $\frac{3}{4}$	34	1 $\frac{3}{4}$	1 $\frac{1}{2}$ X 5	1 $\frac{1}{2}$	113.00
30	32.00	45 $\frac{5}{8}$	41 $\frac{3}{8}$	2	1 $\frac{1}{2}$ X 5 $\frac{1}{2}$	1 $\frac{3}{4}$	136.78
36	38.30	50 $\frac{3}{4}$	46 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$ X 5	1 $\frac{3}{4}$	155.50

Note: Clamps must be connected by means of threaded tie rods and the nuts drawn tight on the washers to assure a tight joint.



MATERIAL: Low carbon steel

FINISH: Plain

WASHER FOR FIG. 580

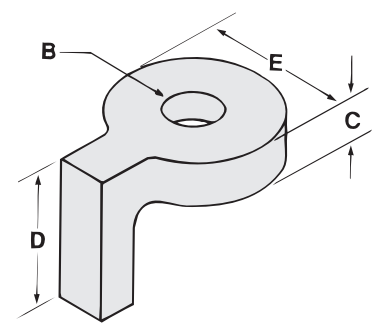
FUNCTION: Designed to secure tie rods when used in conjunction with Fig. 580 two bolt underground pipe clamp.

Fig. 585

ORDERING: Specify tie rod size and figure number.

Tie Rod Size	Dia B	C	D	E	For Pipe Sizes	Wt. Each (in lbs.)
$\frac{3}{4}$	$\frac{7}{8}$	$\frac{5}{8}$	1 $\frac{3}{4}$	2 $\frac{5}{16}$	3 - 12	.80
1	1 $\frac{1}{8}$	$\frac{5}{8}$	1 $\frac{7}{8}$	3 $\frac{3}{16}$	14	1.45
1 $\frac{1}{8}$	1 $\frac{1}{4}$	$\frac{5}{8}$	3	4	16	2.31
1 $\frac{1}{4}$	1 $\frac{3}{8}$	$\frac{5}{8}$	3	4	18	2.26
1 $\frac{3}{8}$	1 $\frac{1}{2}$	$\frac{3}{4}$	3	4	20	2.87
1 $\frac{1}{2}$	1 $\frac{5}{8}$	$\frac{3}{4}$	3	4	24	2.71
1 $\frac{3}{4}$	1 $\frac{7}{8}$	1	3	4	30 - 36	4.17

Note: Tie rod size $\frac{3}{4}$ " made of cast iron material.



MATERIAL: Low carbon steel

FINISH: Plain



UNDERGROUND PIPE CLAMPS



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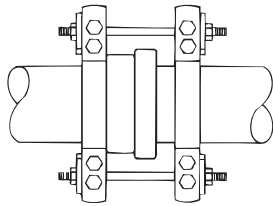
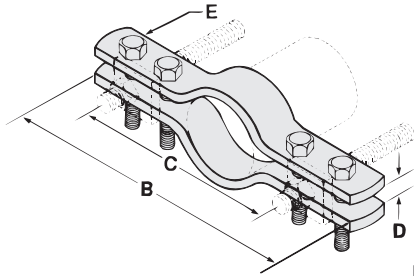
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FOUR BOLT UNDERGROUND PIPE CLAMP

Fig. 590



Typical Installation

FUNCTION: Designed for clamping the caulked joints of underground A.W.W.A. ductile iron water pipe lines to prevent separation of joints.

APPROVALS: Complies with National Fire Protection Association Standard 24 for 4" thru 12" pipe

ORDERING: Specify pipe size and figure number. Order Fig. 595 washer separately

Pipe Size	Max. Pipe O.D.	B	C	D	Bolt Size E	Recom. Tie Rod Size	Max. Test Pressure P.S.I.	Force On Clamp (in lbs.)	Wt. Each (in lbs.)
3	3.96	13 ³ / ₈	9 ³ / ₈	1 ¹ / ₄	5/8 X 3	3/4	250	4550	8.60
4	4.80	14 ¹ / ₂	10 ¹ / ₈	1 ¹ / ₄	5/8 X 3	3/4	250	4550	9.38
6	6.90	17	12 ³ / ₈	1 ¹ / ₄	5/8 X 3	3/4	250	9340	11.50
8	9.05	19 ³ / ₄	15 ³ / ₈	1 ¹ / ₄	5/8 X 3 ¹ / ₂	3/4	250	16080	20.54
10	11.10	22	17 ¹ / ₈	1 ¹ / ₄	5/8 X 3 ¹ / ₂	3/4	250	24180	23.15
12	13.20	25 ⁵ / ₈	20 ¹ / ₂	1 ¹ / ₄	7/8 X 3 ¹ / ₂	1	250	34230	35.85
14	15.30	28 ¹ / ₄	23 ¹ / ₈	1 ³ / ₄	7/8 X 4	1	120	22200	46.78
16	17.40	31 ¹ / ₈	25 ⁵ / ₈	1 ³ / ₄	1 X 4	1 ¹ / ₈	115	27760	70.53
18	19.50	36	29	1 ³ / ₄	1 ¹ / ₄ X 4 ¹ / ₂	1 ¹ / ₄	100	23900	84.65
20	21.60	38 ¹ / ₈	31 ¹ / ₈	1 ³ / ₄	1 ¹ / ₄ X 4 ¹ / ₂	1 ¹ / ₈	75	27500	98.65
24	25.80	44 ¹ / ₂	36 ¹ / ₂	1 ³ / ₄	1 ¹ / ₂ X 5	1 ¹ / ₂	50	26200	135.50

MATERIAL: Low carbon steel

FINISH: Plain

Note: Clamps must be connected by means of threaded tie rods and the nuts drawn tight on the washers to assure a tight joint.

WASHER FOR FIG. 590

Fig. 595

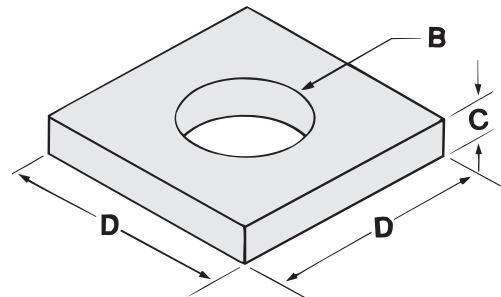
FUNCTION: Designed to secure tie rods when used in conjunction with Fig. 590 four bolt underground pipe clamp.

ORDERING: Specify tie rod size and figure number.

MATERIAL: Low carbon steel

FINISH: Plain

Tie Rod Size	Dia. B	C	D	For Pipe Sizes	Wt. Each (in lbs.)
3/4	7/8	1/2	3	3 - 10	1.19
1	1 1/8	1/2	3 1/2	12 - 14	1.49
1 1/8	1 1/4	5/8	3 1/2	16	1.57
1 1/4	1 3/8	3/4	3 1/2	18	2.15
1 3/8	1 1/2	3/4	3 1/2	20	1.92
1 1/2	1 5/8	3/4	3 1/2	24	1.85





BEAM CLAMPS



PHD Manufacturing, Inc.

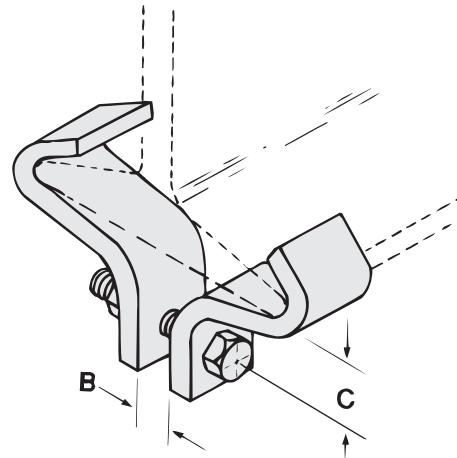
STANDARD DUTY CENTER LOAD BEAM CLAMP

Fig. 610

- FUNCTION:** Designed to be used in the suspension of a hanger rod from the center of an I-beam. The clamp's design allows the load to be distributed equally on either side of the beam. Normally used in conjunction with Fig. 50 eye rod, Fig. 55 welded eye rod or Fig. 35 weldless eye nut.
- APPROVAL:** Complies with Federal Specification A-A-1192A (Type 21) and Manufacturers' Standardization Society SP-69 (Type 21).
- ORDERING:** Specify type number, width of flange and figure number.
- MATERIAL:** Low carbon steel
- FINISH:** Plain

Type No.	B	C	Bolt Size	Max. Rec. Load/lbs.
1	1/2	1 1/2	3/8	1000
2	1/2	1 1/2	1/2	1250
3	5/8	1 1/2	1/2	1500

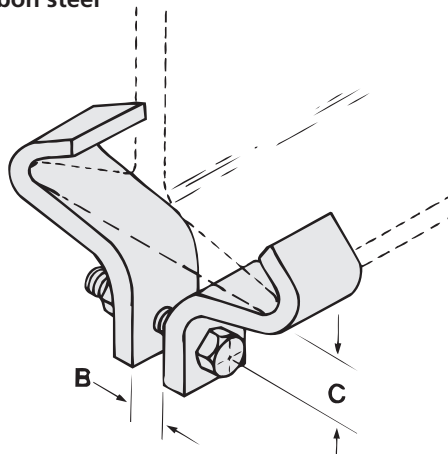
Flange Width	Max. Flange Thickness	Wt. Each (in lbs.)		
		Type 1	Type 2	Type 3
2	7/16	.63	.84	1.28
3	7/16	.85	.93	1.42
4	1/2	.88	1.10	1.63
5	5/8	1.10	1.28	2.06
6	3/4	1.13	1.44	2.21
7	7/8	1.23	1.57	2.47
8	7/8	1.25	1.66	2.53
9	1	1.43	1.77	2.69
10	1	1.52	1.86	2.81
11	1	1.63	1.98	3.06
12	1 1/4	1.71	2.10	3.18



HEAVY DUTY CENTER LOAD BEAM CLAMP

Fig. 620

- FUNCTION:** Designed to be used in the suspension of a hanger rod from the center of an I-beam. The clamp's design allows the load to be distributed equally on either side of the beam. Normally used in conjunction with Fig. 55 welded eye rod or Fig. 35 weldless eye nut.
- APPROVAL:** Complies with Federal Specification A-A-1192A (Type 21) and Manufacturers' Standardization Society SP-69 (Type 21).
- ORDERING:** Specify type number, width of flange and figure number.
- MATERIAL:** Low carbon steel
- FINISH:** Plain



Type No.	B	C	Bolt Size	Max. Rec. Load/lbs.
4	3/4	2 1/4	5/8	3000
5	3/4	2 1/4	5/8	3250
6	3/4	2 1/4	3/4	3500

Flange Width	Max. Flange Thickness	Wt. Each (in lbs.)		
		Type 4	Type 5	Type 6
3	1/2	3.48	4.26	—
4	1/2	3.92	4.82	6.29
5	5/8	4.28	5.23	6.61
6	3/4	4.45	5.52	7.27
7	7/8	4.76	5.91	7.63
8	7/8	5.25	6.12	8.57
9	1	5.73	6.57	9.21
10	1	5.94	6.98	9.81
11	1	6.53	7.95	10.52
12	1 1/4	6.97	8.50	11.13



BEAM CLAMPS



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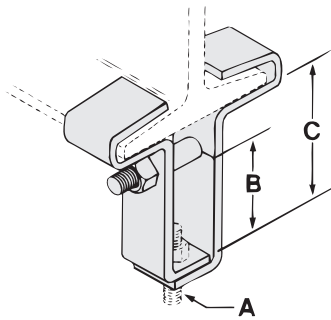
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STEEL CENTER LOAD BEAM CLAMP

Fig. 625



FUNCTION: Designed to be used in the suspension of a hanger rod from the center of an I-beam. The clamp provides a vertical adjustment of approximately 2".

ORDERING: Specify rod size, flange width and figure number.

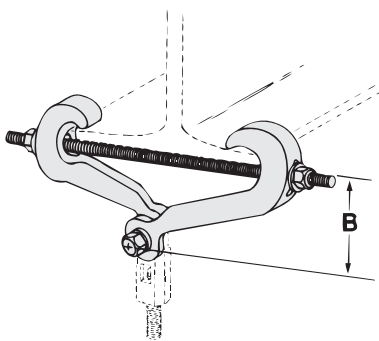
Note: Box style furnished on some sizes.

MATERIAL: Low carbon steel
FINISH: Plain

Rod Size A	B	C	Max. Rec. Load/lbs.	Wt. Each (in lbs.) Flange Width (inches)						
				4	5	6	7	8	10	12
3/8	3	4	550	1.68	1.81	1.93	2.05	2.14	2.35	2.59
1/2	3	4	850	2.01	2.17	2.31	2.46	2.56	2.82	3.11
5/8	3 1/4	4 1/2	1100	3.28	3.52	3.73	3.95	4.11	4.49	4.93
3/4	3 1/4	4 1/2	1500	4.34	4.66	4.95	5.25	5.46	5.96	6.55
7/8	3 1/2	5	2600	6.57	6.67	7.05	7.44	7.73	8.40	9.18
1	3 1/2	5	4300	7.97	8.24	8.77	9.26	9.62	10.46	11.43
1 1/8	3 1/2	5 1/2	6100	14.46	13.69	13.74	15.07	15.60	16.86	18.32
1 1/4	3 1/2	5 1/2	8000	18.76	18.17	18.45	19.82	20.36	22.21	24.18

MALLEABLE IRON CENTER LOAD BEAM CLAMP

Fig. 630



FUNCTION: Designed to be used in the suspension of a hanger rod from the center of an I-beam. The clamp's design allows the load to be distributed equally on either side of the beam. The clamp is adjustable from 2 3/8" to 7" and can be used with flange thicknesses up to .60 inches. Normally used in conjunction with Fig. 25 extension piece. An additional 1" or more of vertical adjustment is obtained when used with Fig. 25.

APPROVAL: Complies with Federal Specification A-A-1192A (Type 30) and Manufacturers' Standardization Society SP-69 (Type 30) when used with Fig. 25.

ORDERING: Specify figure number. If extension piece is required, order Fig. 25 extension piece separately.

MATERIAL: Malleable iron
FINISH: Plain

Max. Rod Size	B Rod Take Out (Clamp only) Beam Flange Width (inches)						Max. Rec. Load/lbs.	Wt. Each (in lbs.)
	2 3/8	3	4	5	6	7		
7/8	3 1/2	3 7/16	3 5/16	2 15/16	2 9/16	1 7/8	1365	2.49



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PIPE COVERING PROTECTION SADDLES



PHD Manufacturing, Inc.

PIPE SADDLE FOR 1" INSULATION

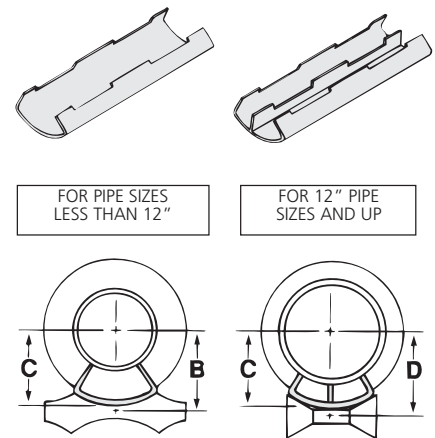
Fig. 651

FUNCTION: Designed to protect insulation on high temperature pipe lines. The saddle is furnished with notches to minimize surface contact with the pipe, thereby keeping heat loss to a minimum.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 39) and Manufacturers' Standardization Society SP-69 (Type 39).

ORDERING: Specify pipe size, insulation size and figure number.

Pipe Size	Pipe Roller Size Use With Fig. No.			Fig. 460 480 483 490 B	Fig. 470 475 B	C	Fig. 486 487 D	Actual Thickness of Covering	Max. Rec. Load (in lbs.)	Wt. Each (in lbs.)
	460, 480 483, 490	470 475	486 487							
3/4	2	2 1/2	2 - 3 1/2	2 1/8	2 1/8	1 1/8	2 1/4	7/8	1200	1.65
1	2 1/2	3	2 - 3 1/2	2 5/8	2 5/8	1 1/4	2 7/8	1 1/8	1200	1.65
1 1/4	2 1/2	3	2 - 3 1/2	2 1/2	2 1/2	1 1/8	2 7/8	7/8	1200	1.65
1 1/2	3	3 1/2	2 - 3 1/2	2 5/8	2 5/8	2 1/8	2 1/4	1	1200	1.78
2	3 1/2	4	2 - 3 1/2	3	2 15/16	2 3/8	3 1/8	1 1/8	1200	1.86
2 1/2	3 1/2	5	2 - 3 1/2	3 1/4	3 1/4	2 1/8	3 5/8	1 1/8	1200	1.86
3	4	5	2 - 3 1/2	3 1/2	3 1/2	2 1/4	3 3/8	1	1200	2.15
3 1/2	5	6	4 - 6	4	4	3 3/8	3 5/8	1 1/4	1200	2.39
4	5	6	4 - 6	4 1/4	4 1/4	3 3/8	4 3/8	1 1/8	1800	2.39
5	6	8	4 - 6	4 3/8	4 3/8	4 1/2	4 3/4	1	1800	2.39
6	8	8	4 - 6	5 3/8	5 3/8	4 1/2	5 1/4	1	1800	4.47
8	10	12	8 - 10	7 1/8	7 1/8	6	7 1/8	1 1/2	1800	5.10
10	12	14	8 - 10	8 5/8	8 1/2	7 1/4	8 5/8	1 1/8	1800	5.80
12	14	16	12 - 14	8 1/8	8 7/8	7 3/8	8 3/8	1 1/8	5000	6.88



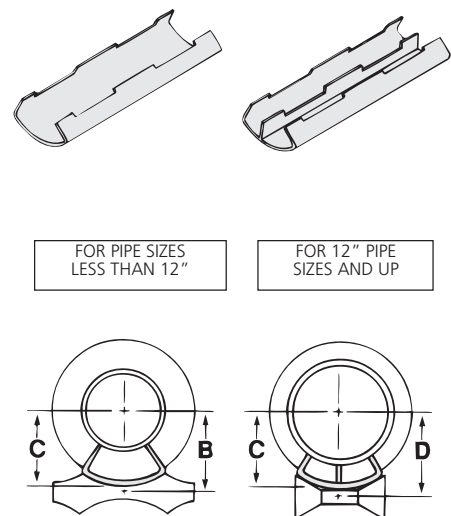
MATERIAL: Low carbon steel

FINISH: Plain

PIPE SADDLE FOR 1 1/2" INSULATION

Fig. 653

Pipe Size	Pipe Roller Size Use With Fig. No.			Fig. 460 480 483 490 B	Fig. 470 475 B	C	Fig. 486 487 D	Actual Thickness of Covering	Max. Rec. Load (in lbs.)	Wt. Each (in lbs.)
	460, 480 483, 490	470 475	486 487							
3/4	3	3 1/2	2 - 3 1/2	2 3/4	2 3/4	2 3/8	2 7/8	1 1/8	1200	2.34
1	3	4	2 - 3 1/2	2 7/8	2 7/8	2 3/8	3	1 1/8	1200	2.34
1 1/4	3 1/2	5	2 - 3 1/2	3 1/8	3 1/8	2 3/8	3 3/8	1 1/8	1200	2.34
1 1/2	3 1/2	5	2 - 3 1/2	3 1/4	3 1/4	2 3/8	3 5/8	1 1/2	1200	2.34
2	4	5	2 - 3 1/2	3 1/2	3 1/2	2 7/8	3 7/8	1 1/8	1200	2.60
2 1/2	5	6	4 - 6	4	4	3 3/8	3 5/8	1 1/8	1200	2.97
3	5	6	4 - 6	4 3/8	4 3/8	3 3/8	4 1/4	1 1/8	1800	2.97
3 1/2	6	8	4 - 6	4 7/8	4 7/8	3 1/8	4 1/2	1 3/8	1800	3.32
4	6	8	4 - 6	4 7/8	4 7/8	4 1/8	4 3/4	1 1/8	1800	3.32
5	8	8	4 - 6	5 1/2	5 1/2	4 1/8	5 3/8	1 1/2	1800	3.32
6	8	10	8 - 10	5 7/8	5 11/16	5 1/8	6	1 1/2	1800	5.22
8	10	12	8 - 10	7 1/8	7 1/8	6	7 1/8	1 1/2	1800	5.98
10	12	14	8 - 10	8 5/8	8 1/2	7 1/4	8 5/8	1 1/8	1800	5.98
12	14	16	12 - 14	9 1/2	9 1/2	8 1/8	9 1/4	1 1/8	5000	8.33
14	16	18	12 - 14	10 3/8	10 3/8	8 3/4	10 1/8	1 1/2	5000	8.33
16	18	20	16 - 20	11 1/4	11 1/4	9 3/8	11 1/8	1 1/2	5000	9.01
18	20	—	16 - 20	12 3/8	—	10 13/16	12 3/8	1 1/2	5000	9.68
20	24	—	24	13 3/8	—	11 3/8	13 1/8	1 1/2	7200	11.00
24	30	—	30	16 3/8	—	13 1/2	15 1/4	1 1/2	7200	13.00





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PIPE SADDLE FOR 2" INSULATION

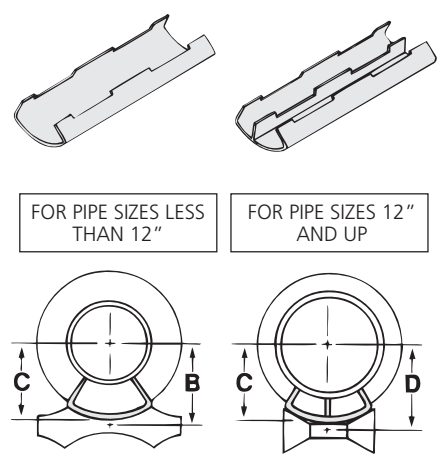
Fig. 654

FUNCTION: Designed to protect insulation on high temperature pipe lines. The saddle is furnished with notches to minimize surface contact with the pipe, thereby keeping heat loss to a minimum.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 39) and Manufacturers' Standardization Society SP-69 (Type 39).

ORDERING: Specify pipe size, insulation size and figure number.

Pipe Size	Pipe Roller Size			Fig. 460 480 483 490 B	Fig. 470 475 B	C	Fig. 486 487 D	Actual Thickness of Covering	Max. Rec. Load (in lbs.)	Wt. Each (in lbs.)
	460, 480, 483, 490	470 475	486 487							
¾	4	5	2 - 3½	3¾	3½	2½	3¾	1½	1200	3.02
1	4	5	2 - 3½	3½	3½	2½	3½	2½	1200	3.02
1¼	4	5	2 - 3½	3¾	3¾	3	3¾	1¾	1200	3.02
1½	5	6	4 - 6	4	4	3¾	3¾	2½	1800	3.50
2	5	6	4 - 6	4¼	4¼	3¾	4¾	2½	1800	3.50
2½	6	8	4 - 6	4½	4½	3¾	4½	2½	1800	3.50
3	6	8	4 - 6	4¾	4¾	4½	4¾	2½	1800	3.77
3½	8	8	4 - 6	5½	5½	4½	5	2¼	1800	3.77
4	8	8	4 - 6	5¾	5¾	4¾	5¼	2½	1800	3.77
5	8	10	8 - 10	6	6½	5¾	6½	2	1800	3.77
6	10	10	8 - 10	6¾	6¾	5½	6½	2	1800	6.14
8	10	12	8 - 10	7¾	7¾	6½	7¾	2	1800	6.78
10	14	16	12 - 14	9½	9	7½	8¾	2½	1800	7.09
12	16	18	16 - 20	10¾	10¾	8½	10	2½	5000	9.33
14	16	20	16 - 20	10¾	13¾	9¾	10¾	2	5000	9.33
16	18	—	16 - 20	11¾	11¾	10¾	11¾	2	5000	10.68
18	20	—	24	12¾	—	11¾	12¾	2	7200	10.68
20	24	—	24	13¾	—	12¼	13¾	2	7200	11.96
24	30	—	30	16¾	—	14	15¾	2	7200	13.95

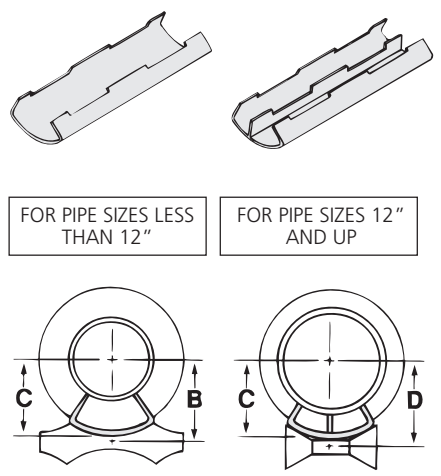


MATERIAL: Low carbon steel
FINISH: Plain

PIPE SADDLE FOR 2½" INSULATION

Fig. 655

Pipe Size	Pipe Roller Size			Fig. 460 480 483 490 B	Fig. 470 475 B	C	Fig. 486 487 D	Actual Thickness of Covering	Max. Rec. Load (in lbs.)	Wt. Each (in lbs.)
	460, 480, 483, 490	470 475	486 487							
1¼	5	6	4 - 6	4¾	4¾	3¾	4¾	2½	1200	3.87
1½	6	8	4 - 6	4½	4¾	3¾	4½	2¾	1800	3.87
2	6	8	4 - 6	4¾	4¾	4¾	4¾	2¾	1800	3.87
2½	8	8	4 - 6	5½	5½	4¾	5	2¾	1800	4.35
3	8	8	4 - 6	5¾	5¾	4¾	5¾	2¾	1800	4.35
3½	8	10	8 - 10	5¾	5¾	4¾	5¾	2¾	1800	4.38
4	8	10	8 - 10	5¾	5¾	5	6	2¾	1800	4.38
5	10	10	8 - 10	6¾	6¾	5¾	6¾	2¾	1800	4.38
6	10	12	8 - 10	7¾	7¾	6¾	7¾	2¾	1800	7.18
8	12	14	8 - 10	8¾	8½	7¾	8¾	2¾	1800	7.73
10	14	16	12 - 14	9¾	9¾	8¾	9¾	2¾	1800	8.77
12	16	18	16 - 20	10¾	10¾	9¾	10½	2¾	5000	10.93
14	18	—	16 - 20	11¾	11¾	9¾	11¾	2½	5000	10.93
16	20	—	16 - 20	12¾	—	10¾	12¾	2½	7200	11.64
18	24	—	24	13¾	—	11¾	13¾	2½	7200	12.92
20	24	—	24	14¾	—	12¾	14¾	2½	7200	12.92
24	30	—	30	17½	—	14¾	16¾	2½	7200	14.91





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PIPE COVERING PROTECTION SADDLES



PHD Manufacturing, Inc.

PIPE SADDLE FOR 3" INSULATION

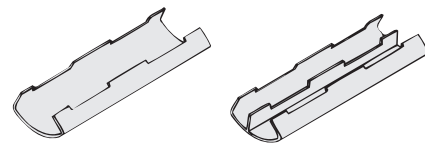
Fig. 656

FUNCTION: Designed to protect insulation on high temperature pipe lines. The saddle is furnished with notches to minimize surface contact with the pipe, thereby keeping heat loss to a minimum.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 39) and Manufacturers' Standardization Society SP-69 (Type 39).

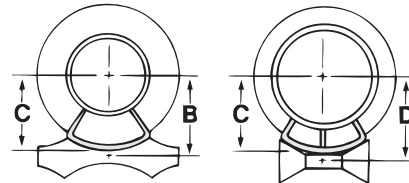
ORDERING: Specify pipe size, insulation size and figure number.

Pipe Size	Pipe Roller Size			Fig. 460 480 483 490 B	Fig. 470 475 B	C	Fig. 486 487 D	Actual Thickness of Covering	Max. Rec. Load (in lbs.)	Wt. Each (in lbs.)
	460, 480, 483, 490	470, 475	486, 487							
2	8	8	4 - 6	5 $\frac{3}{16}$	5 $\frac{3}{16}$	4 $\frac{9}{16}$	5 $\frac{1}{4}$	3 $\frac{3}{16}$	1800	4.78
2 $\frac{1}{2}$	8	10	4 - 6	5 $\frac{3}{16}$	5 $\frac{3}{16}$	4 $\frac{7}{16}$	5 $\frac{1}{2}$	3 $\frac{3}{16}$	1800	4.78
3	8	10	8 - 10	6	6	5 $\frac{1}{16}$	6 $\frac{1}{16}$	3 $\frac{3}{16}$	1800	4.99
3 $\frac{1}{2}$	10	10	8 - 10	6 $\frac{9}{16}$	6 $\frac{9}{16}$	5 $\frac{3}{16}$	6 $\frac{3}{16}$	3 $\frac{3}{16}$	1800	4.99
4	10	10	8 - 10	6 $\frac{9}{16}$	6 $\frac{9}{16}$	5 $\frac{3}{16}$	6 $\frac{3}{16}$	3 $\frac{3}{16}$	1800	4.99
5	10	12	8 - 10	7 $\frac{1}{16}$	7 $\frac{1}{16}$	6 $\frac{3}{16}$	7 $\frac{1}{4}$	3 $\frac{3}{16}$	1800	4.99
6	12	12	8 - 10	7 $\frac{7}{16}$	7 $\frac{7}{16}$	6 $\frac{9}{16}$	7 $\frac{7}{16}$	3	1800	8.29
8	14	16	12 - 14	9	9	7 $\frac{1}{16}$	8 $\frac{3}{4}$	3 $\frac{3}{16}$	1800	8.29
10	16	18	16 - 20	10 $\frac{1}{16}$	10 $\frac{1}{16}$	8 $\frac{1}{16}$	10	3 $\frac{3}{16}$	1800	9.41
12	18	20	16 - 20	11 $\frac{1}{16}$	11 $\frac{1}{16}$	9 $\frac{3}{16}$	11	3 $\frac{3}{16}$	5000	11.88
14	18	20	16 - 20	11 $\frac{3}{16}$	11 $\frac{3}{16}$	10 $\frac{5}{16}$	11 $\frac{3}{16}$	3	5000	11.88
16	20	—	24	12 $\frac{7}{16}$	—	11 $\frac{1}{16}$	12 $\frac{7}{16}$	3	7200	13.87
18	24	—	24	14 $\frac{3}{16}$	—	12 $\frac{1}{4}$	13 $\frac{3}{16}$	3	7200	13.87
20	24	—	24	15 $\frac{1}{4}$	—	13 $\frac{3}{16}$	14 $\frac{3}{4}$	3	7200	14.51
24	30	—	30	18 $\frac{3}{16}$	—	15 $\frac{1}{4}$	17	3	7200	15.86



FOR PIPE SIZES LESS THAN 12"

FOR PIPE SIZES 12" AND UP



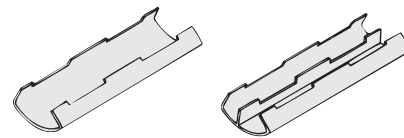
MATERIAL: Low carbon steel

FINISH: Plain

PIPE SADDLE FOR 4" INSULATION

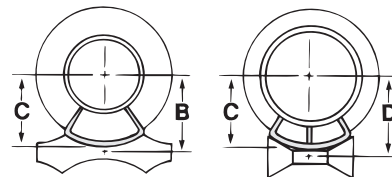
Fig. 658

Pipe Size	Pipe Roller Size			Fig. 460 480 483 490 B	Fig. 470 475 B	C	Fig. 486 487 D	Actual Thickness of Covering	Max. Rec. Load (in lbs.)	Wt. Each (in lbs.)
	460, 480, 483, 490	470, 475	486, 487							
4	10	12	8 - 10	7 $\frac{7}{16}$	7 $\frac{7}{16}$	6 $\frac{1}{2}$	7 $\frac{9}{16}$	4 $\frac{1}{16}$	1800	6.40
5	12	14	8 - 10	8 $\frac{3}{16}$	8 $\frac{3}{16}$	7 $\frac{7}{16}$	8 $\frac{3}{16}$	4 $\frac{1}{16}$	1800	6.40
6	14	16	12 - 14	9	9	7 $\frac{9}{16}$	8 $\frac{3}{4}$	4 $\frac{1}{16}$	1800	10.68
8	16	18	12 - 14	10 $\frac{1}{16}$	10 $\frac{1}{16}$	8 $\frac{1}{16}$	9 $\frac{7}{16}$	4 $\frac{1}{16}$	1800	10.68
10	18	20	16 - 20	11 $\frac{1}{16}$	11 $\frac{1}{16}$	9 $\frac{3}{4}$	11 $\frac{1}{16}$	4 $\frac{1}{16}$	1800	11.40
12	20	—	16 - 20	12 $\frac{3}{16}$	—	10 $\frac{3}{16}$	12 $\frac{3}{16}$	4 $\frac{1}{16}$	5000	14.43
14	20	—	24	12 $\frac{7}{16}$	—	11 $\frac{1}{16}$	12 $\frac{7}{16}$	4	5000	14.43
16	24	—	24	14 $\frac{3}{16}$	—	13 $\frac{3}{16}$	12 $\frac{3}{16}$	4	7200	15.79
18	24	—	24	15 $\frac{1}{4}$	—	13 $\frac{3}{16}$	14 $\frac{3}{4}$	4	7200	15.79
20	30	—	30	17	—	14 $\frac{3}{16}$	15 $\frac{7}{16}$	4	7200	16.90
24	30	—	30	19 $\frac{1}{4}$	—	16 $\frac{3}{16}$	19 $\frac{1}{4}$	4	7200	17.78



FOR PIPE SIZES LESS THAN 12"

FOR PIPE SIZES 12" AND UP





PIPE STRAPS



PHD Manufacturing, Inc.

SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

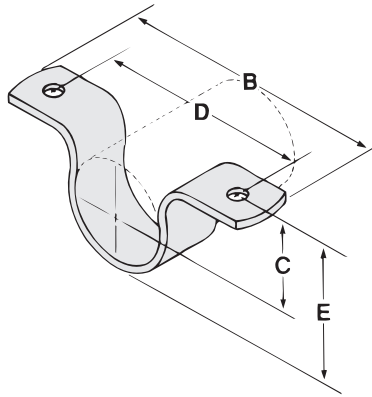
FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA

SHORT PIPE STRAP

Fig. 830



FUNCTION: Designed to hold pipe flush with mounting surface.

APPROVAL: Complies with Federal Specification A-A-1192A (Type 26) and Manufacturers' Standardization Society SP-69 (Type 26).

ORDERING: Specify pipe size and figure number.

MATERIAL: Low carbon steel

FINISH: Plain

Pipe Size	B	C	D	E	Hole Size	Max. Rec. Load / lbs.	Wt. Each (in lbs.)
1/2	3 7/8	5/16	2 7/8	1 5/16	7/16	300	.25
3/4	4 1/8	7/16	3 1/8	1 1/8	7/16	300	.27
1	4 5/8	9/16	3 5/8	1 3/8	7/16	300	.29
1 1/4	4 1 1/16	1 1/16	3 1 1/16	1 5/8	7/16	300	.33
1 1/2	4 1 5/16	1 3/16	3 1 5/16	2	7/16	300	.35
2	5 1/2	1 5/16	4 1/2	2 1/4	7/16	300	.41
2 1/2	6	1 3/8	5	2 7/8	7/16	500	.89
3	6 5/8	1 1/2	5 5/8	3 1/2	7/16	500	1.06
3 1/2	7 1/8	1 3/4	6 1/8	4	7/16	500	1.23
4	8 3/8	2	7 1/8	4 1/2	9/16	500	1.58



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WALL BRACKETS



PHD Manufacturing, Inc.

LIGHT DUTY WALL BRACKET

FUNCTION: Designed to suspend hanger rod for support of light loads under 750 lbs. Normally used in conjunction with Fig. 850C wall bracket clip.

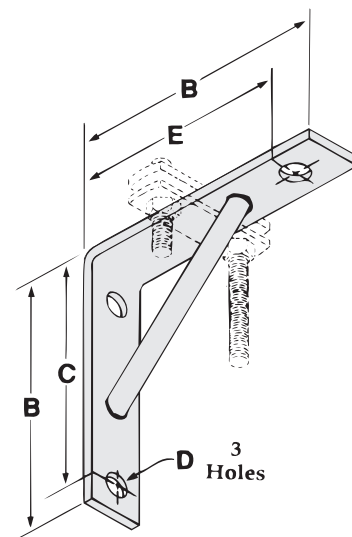
Fig. 850

APPROVALS: Complies with Federal Specification A-A-1192A (Type 31) and Manufacturers' Standardization Society SP-69 (Type 31).

ORDERING: Specify type number and figure number.

MATERIAL: Low carbon steel

FINISH: Plain



Type Number	B	C	Hole Size D	E	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
1	9	6½	13/16	8	750	6.00
2	13	10½	13/16	12	750	8.70
3	19	16½	13/16	18	750	10.60

MEDIUM DUTY WALL BRACKET

FUNCTION: Designed for the support or suspension of loads up to 1500 lbs. from walls or structures. The 1" space between the angles allows the rod to be placed anywhere along the length of the brackets.

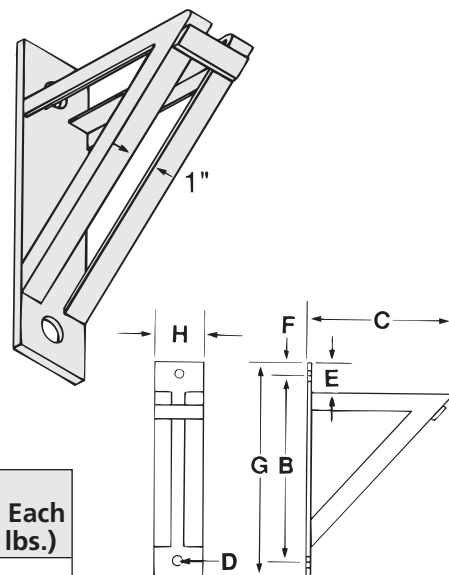
Fig. 855

APPROVALS: Complies with Federal Specification A-A-1192A (Type 32) and Manufacturers' Standardization Society SP-69 (Type 32).

ORDERING: Specify type number and figure number.

MATERIAL: Low carbon steel

FINISH: Plain



Type No.	B	C	Hole Size D	E	F	G	H	Angle Iron Size	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
0	15½	12	13/16	2½	1¼	18	4	1½ X 1½ X 3/16	1500	17.40
1	21½	18	13/16	2½	1¼	24	4½	1¾ X 1¾ X 3/16	1500	27.30
2	27½	24	13/16	2½	1¼	30	5	2 X 2 X ¼	1500	47.60



WALL BRACKETS

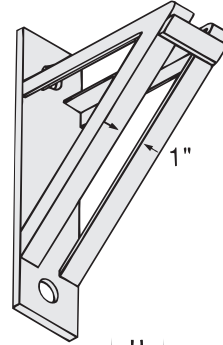


PHD Manufacturing, Inc.

HEAVY DUTY WALL BRACKET

Fig. 860

FUNCTION: Designed for the support or suspension of loads up to 3000 lbs. from walls or structures. The 1" space between the angles allows the rod to be placed anywhere along the length of the brackets.

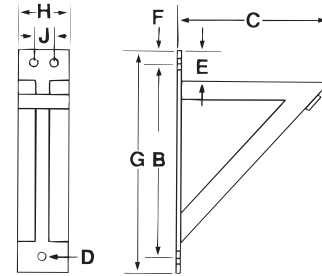


APPROVALS: Complies with Federal Specification A-A-1192A (Type 33) and Manufacturers' Standardization Society SP-69 (Type 33).

ORDERING: Specify type number and figure number.

MATERIAL: Low carbon steel

FINISH: Plain



Type No.	B	C	Hole Size D	E	F	G	H	J	Angle Iron Size	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
0	15¼	12	13/16	2¾	1½	18	4	*	2 X 1½ X ¼	3000	24.33
1	21¾	18	15/16	2¾	1¾	24	5	2¾	2 X 2 X ¼	3000	51.80
2	27½	24	1¼	2¾	1¼	30	5	2½	2½ X 2 X 5/16	3000	65.84
3	33¼	30	1¼	3	1½	36	5	2½	2½ X 2 X 5/16	3000	82.10
4	39	36	1¼	3	1½	42	6	3½	3½ X 2½ X 3/8	3000	140.52
5	46	42	1¼	3½	2	50	6	3½	3½ X 2½ X 3/8	3000	166.40

* One hole

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PIPE SUPPORTS



ADJUSTABLE PIPE SADDLE SUPPORT

Fig. 875

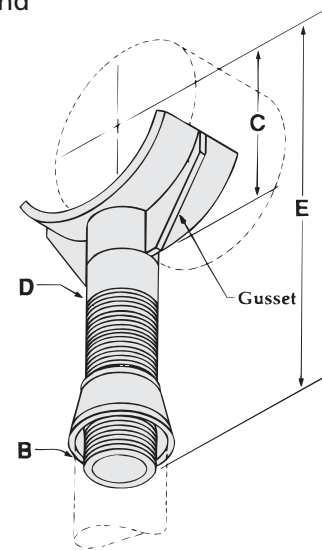
FUNCTION: Designed to support horizontal pipe. Normally used in conjunction with Fig. 871 threaded base stand to provide vertical adjustment of the pipe.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 38) and Manufacturers' Standardization Society SP-69 (Type 38).

ORDERING: Specify pipe size and figure number.

Pipe Size	B	C	D	Adjustment E		Wt. Each (in lbs.)
				Min.	Max.	
2½	2½	3¼	1½	9⅞	13⅝	5.25
3	2½	4	1½	9¾	14¼	5.50
3½	2½	4¼	1½	10	14½	5.50
4	3	4½	2½	10¾	15¼	10.60
5	3	5¼	2½	11⅞	15⅝	10.81
6	3	5⅞	2½	11⅝	16⅞	12.34
8	3	6⅞	2½	12⅝	17⅞	15.00
10	3	7⅞	2½	14⅞	18⅞	16.14
12	3	8⅞	2½	15⅞	19⅞	17.68
14	4	11⅞	3	17⅞	21⅞	28.18
16	4	12⅞	3	18⅞	22⅞	30.10
18	6	14¾	4	20½	25	49.98
20	6	15¾	4	21½	26	52.00
24	6	18	4	23¾	28¼	63.47
30	6	21	4	26¾	31¼	92.24
36	6	24	4	29¾	34¼	110.77

Note: Gussets furnished on 8" and larger.



MATERIAL: Steel

FINISH: Plain

ADJUSTABLE PIPE SADDLE SUPPORT WITH U-BOLT

Fig. 876

FUNCTION: Designed to support horizontal pipe. Normally used in conjunction with Fig. 871 threaded base stand to provide vertical adjustment of the pipe. The U-bolt is used to secure the pipe to the saddle.

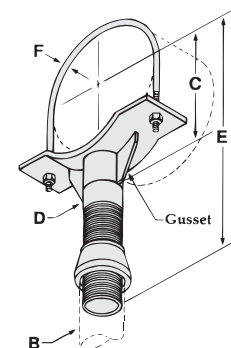
ORDERING: Specify pipe size and figure number.

MATERIAL: Steel

FINISH: Plain

Pipe Size	B	C	D	Adjustment E		Dia. F	Wt. Each
				Min.	Max.		
2½	2½	3¼	1½	9⅞	13⅝	½	8.90
3	2½	4	1½	9¾	14¼	½	9.05
3½	2½	4¼	1½	10	14½	½	9.25
4	3	4½	2½	10¾	15¼	½	13.25
5	3	5¼	2½	11⅞	15⅝	½	13.45
6	3	5⅞	2½	11⅝	16⅞	¾	16.25
8	3	6⅞	2½	12⅝	17⅞	¾	17.95
10	3	8	2½	14¼	18¾	¾	22.55
12	3	9	2½	15¼	19¾	¾	26.10
14	4	11¾	3	17½	22	¾	41.65
16	4	12¾	3	18½	23	¾	44.10
18	6	15	4	20¾	25¼	1	70.90
20	6	16	4	21¾	26¼	1	73.75
24	6	18½	4	24¼	28¾	1	91.60
30	6	21	4	26¾	31¼	1	106.55
36	6	24	4	29¾	34¼	1	112.50

Note: Gussets furnished on 8" and larger.





PIPE SUPPORTS



PHD Manufacturing, Inc.

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HANGERS & STRUT

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CONCRETE ANCHORS

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PIPE SUPPORT ADJUSTER

Fig. 877

FUNCTION: Designed to provide up to 4½ inches of vertical adjustment after installation. Normally used in conjunction with Fig. 871 threaded base stand, Fig. 880 pipe saddle support or Fig. 882 pipe saddle support with U-bolt.

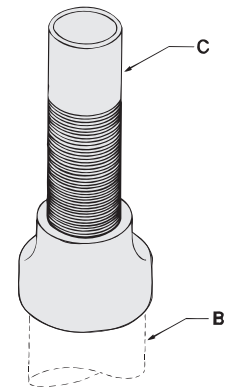
APPROVALS: Complies with Federal Specification A-A-1192A (Type 38) and Manufacturers' Standardization Society SP-69 (Type 38) when used with Fig. 880.

ORDERING: Specify adjuster size and figure number.

MATERIAL: Steel pipe with malleable iron reducer

FINISH: Plain

Adjuster Size	For Pipe Size	B	C	Max. Adjustment	Wt. Each (in lbs.)
1½	2½ to 3½	2½	1½	4½	4.05
2½	4 to 12	3	2½	4½	8.30
3	14 to 16	4	3	4½	12.60
4	18 to 36	6	4	4½	22.60



PIPE SUPPORT ADJUSTERS

Fig. 878 & 879

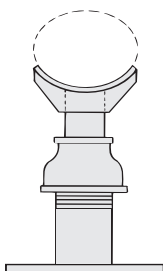


Fig. 878

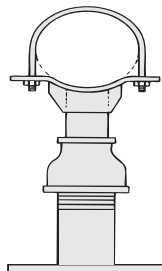


Fig. 879

FUNCTION: Designed to provide up to 4½ inches of vertical adjustment after installation.

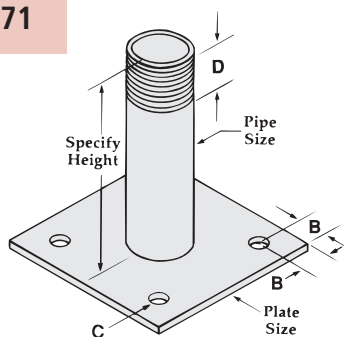
ORDERING: Specify pipe size, figure number, and height to Center of pipe.

MATERIAL: Steel pipe with malleable iron reducer

FINISH: Plain

THREADED BASE STAND

Fig. 871



FUNCTION: Designed for use as a base stand for pipe supports.

ORDERING: Specify pipe size, height and figure number.

Pipe Size	B	Hole Size C	Thread Length D	Plate Size	Wt. Each (in lbs.)
1	1	¾"	1½"	¼ X 6 X 6	4.95
1¼	1	¾"	1½"	¼ X 6 X 6	5.83
1½	1	¾"	1½"	¼ X 6 X 6	6.49
2	1	¾"	1½"	¼ X 6 X 6	7.85
2½	1¼	¾"	1½"	⅜ X 8 X 8	15.24
3	1½	1⅜"	1½"	⅜ X 12 X 12	26.24
4	1½	1⅝"	2"	½ X 12 X 12	35.94
6	1½	1⅞"	2"	½ X 18 X 18	73.46

Note: Wt. based on a height of 18".

MATERIAL: Steel
FINISH: Plain



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ADJUSTABLE Q-DECK INSERT SEISMIC BRACE



PHD Manufacturing, Inc.

ADJUSTABLE Q-DECK INSERT

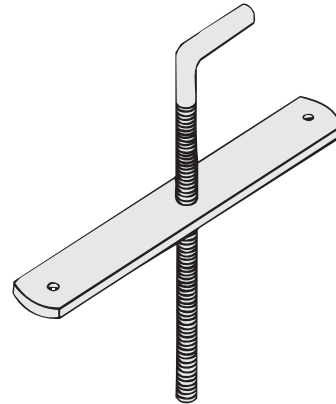
Fig. 885

FUNCTION: Designed for installation in metal concrete deck forms to provide a means to support piping and equipment.

ORDERING: Specify rod size and figure number.

MATERIAL: Low carbon steel with electro-galvanized rod

FINISH: Plain



Rod Size A	B	Thread Length	C	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
3/8	1 1/16	7	1	730	.80
1/2	1 3/4	7	1	1350	.99
5/8	2 5/16	7	1	1810	1.29
3/4	2 3/8	7	1	2710	2.38
7/8	2 3/8	7	1	3770	2.84
1	2 3/8	7	1	4960	2.97



WELDED BEAM ATTACHMENT



PHD Manufacturing, Inc.

WELDED BEAM ATTACHMENT

Fig. 900 WITH BOLT AND NUT
Fig. 900-1 WITHOUT BOLT AND NUT

FUNCTION: Designed for attaching hanger rod to the bottom flange of a beam. If installed in the inverted position, the hanger rod can be vertically adjusted otherwise bolt and nut are required.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 22) and Manufacturers' Standardization Society SP-69 (Type 22).

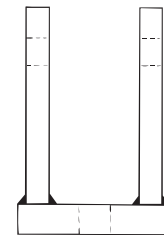
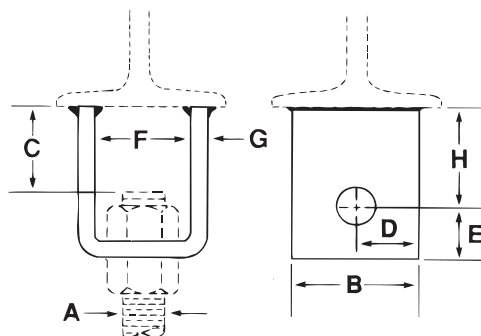
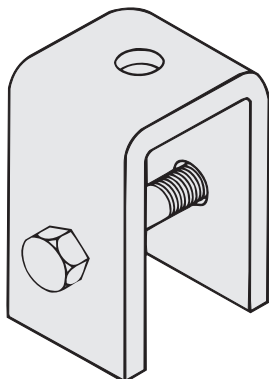
ORDERING: Specify rod size and figure number.

MATERIAL: Low carbon steel

FINISH: Plain

Rod Size A	B	C	D	E	F	G	H	Bolt or Pin Size	Max. Rec. Load/lbs.		Wt. Each (in lbs.)	
									650°F	750°F	w/o B&N	with B&N
3/8	2	1 7/8	1	7/8	1 1/4	3 ga.	2	1/2 X 2 1/2	730	510	.87	1.13
1/2	2	1 3/4	1	7/8	1 1/4	3 ga.	2	5/8 X 2 1/2	1350	940	.85	1.28
5/8	2	1 3/4	1	7/8	1 1/4	3 ga.	2	3/4 X 2 1/2	1810	1510	.84	1.50
3/4	2 1/2	2	1 1/4	1 1/4	2 1/4	3/8	2	7/8 X 4	2710	2260	2.00	3.04
7/8	2 1/2	3	1 1/4	1 1/4	2 3/8	3/8	3	1 X 4 1/2	3770	3150	2.50	4.02
1	3	3	1 1/2	1 1/2	2 3/4	1/2	3	1 1/8 X 5	4960	4150	4.14	6.30
1 1/8	3	3	1 1/2	1 3/4	3	1/2	3	1 1/4 X 5	6230	5200	4.37	7.15
1 1/4	4	3 1/2	2	2	3 1/2	5/8	3	1 3/8 X 6 1/2	8000	6660	8.50	12.62
1 1/2	5	4	2 1/2	2 1/2	3	3/4	4	1 5/8 X 6	11630	9700	16.41	23.23
1 3/4	5	5	2 1/2	2 3/4	3 3/4	3/4	5	1 7/8 X 7	15700	14000	18.70	24.20
2	6	5 1/4	3	3 1/4	3 3/4	3/4	5	2 1/4 X 7	20700	18460	22.80	30.60

Note: The 1" size and larger are furnished with pin and cotter on Fig. 900.



Welded design furnished on 1 1/2" and larger.



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CONCRETE ATTACHMENTS



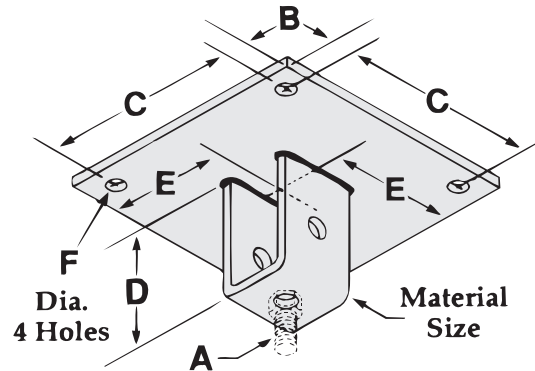
CONCRETE ROD ATTACHMENT PLATE

Fig. 903

FUNCTION: Designed for attaching hanger rod to a concrete ceiling.

ORDERING: Specify rod size and figure number.

MATERIAL: Low carbon steel



Size	A	B	C	D	E	F	Plate Size	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
3/8	1	8	27/8	5	9/16		10 X 10 X 3/8	730	11.60
1/2	1	8	27/8	5	9/16		10 X 10 X 3/8	1350	11.60
5/8	1	8	27/8	5	9/16		10 X 10 X 3/8	1810	15.10
3/4	1	8	33/4	5	11/16		10 X 10 X 1/2	2710	16.10
7/8	1	8	41/4	5	11/16		10 X 10 X 1/2	3770	16.70
1	2	8	41/2	6	13/16		12 X 12 X 1/2	4960	34.90
1 1/8	2	8	43/4	6	13/16		12 X 12 X 1/2	6230	35.25
1 1/4	2	8	5	6	15/16		12 X 12 X 3/4	8000	38.70
1 1/2	2	8	61/2	6	11/16		12 X 12 X 1	11630	56.40
1 3/4	2	10	73/4	7	13/8		14 X 14 X 1 1/4	15700	88.10
2	2	10	81/4	7	13/8		14 X 14 X 1 1/4	20700	92.20



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CONCRETE CLEVIS PLATE

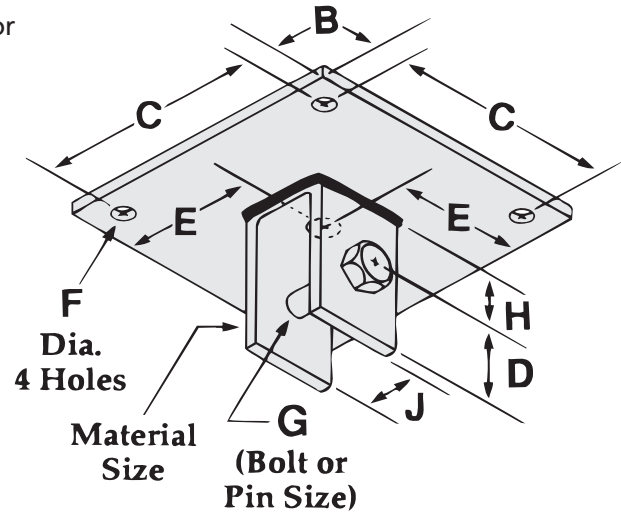
Fig. 904

FUNCTION: Designed for use as a structural attachment to a concrete ceiling. Normally used in conjunction with Fig. 35 weldless eye nut or Fig. 55 welded eye rod.

ORDERING: Specify rod size and figure number.

MATERIAL: Low carbon steel

FINISH: Plain



Rod Size	B	C	D	E	F	G	H	J	Plate Size	Max. Rec. load/lbs.	Wt. Each (in lbs.)
3/8	1	8	7/8	5	9/16	1/2	2	1 1/4	10 X 10 X 3/8	730	11.80
1/2	1	8	7/8	5	9/16	5/8	2	1 1/4	10 X 10 X 3/8	1350	11.90
5/8	1	8	7/8	5	9/16	3/4	2	1 1/4	10 X 10 X 3/8	1810	15.70
3/4	1	8	1 1/4	5	1 1/16	7/8	2	2 1/4	10 X 10 X 1/2	2710	16.90
7/8	1	8	1 1/4	5	1 1/16	1	3	2 3/8	10 X 10 X 1/2	3770	18.10
1	2	8	1 1/2	6	1 3/16	1 1/8	3	2 3/4	12 X 12 X 1/2	4960	36.90
1 1/8	2	8	1 3/4	6	1 3/16	1 1/4	3	3	12 X 12 X 1/2	6230	37.75
1 1/4	2	8	2	6	1 5/16	1 3/8	3	3 1/2	12 X 12 X 3/4	8000	40.90
1 1/2	2	8	2 1/2	6	1 1/16	1 5/8	4	3	12 X 12 X 1	11630	59.80
1 3/4	2	10	2 3/4	7	1 3/8	1 7/8	5	3 3/4	14 X 14 X 1 1/4	15700	93.60
2	2	10	3 1/4	7	1 3/8	2 1/4	5	3 3/4	14 X 14 X 1 1/4	20700	100.00

Note: The 1" size and larger are furnished with pin and cotter.

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UPPER ATTACHMENTS



PHD Manufacturing, Inc.

SIDE BEAM CONNECTOR

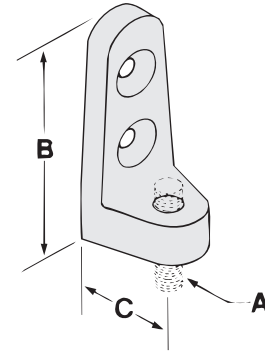
FUNCTION: Designed for attaching hanger rod to the side of wooden beams or walls. Normally secured in place with Fig. 48 wood drive screw.

Fig. 905 PLAIN
Fig. 905C COPPER COLOR EPOXY FINISH

ORDERING: Specify rod size and figure number.

MATERIAL: Malleable iron

Rod Size A	B	C	Drive Screw Size	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
3/8	2 3/16	9/16	#12 X 1 1/2	250	.13
1/2	2 3/4	3/4	#14 X 1 1/2	480	.25



STEEL SIDE BEAM CONNECTOR

FUNCTION: Designed for attaching hanger rod to the sides of steel or wood beams. Fig. 908 is designed to secure with wood drive screws.

Fig. 907 & 908

APPROVALS: Underwriters' Laboratories listed. Factory Mutual approved (907 approval is for 1/2" bolt only). Complies with Federal Specification A-A-1192A (Type 34) and Manufacturers' Standardization Society SP-69 (Type 34).

ORDERING: Specify figure number.

MATERIAL: Low carbon steel 3 ga. X 1

FINISH: Plain

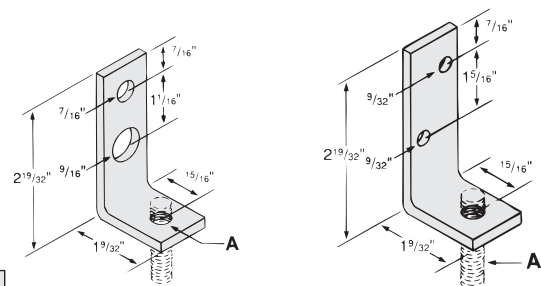


Fig. 907



Fig. 908

Bolt Size	Rod Size A	Max Pipe Size	Bolt or Screw Size	Max. Rec. Load/lbs.			Wt. Each (in lbs.)
				With Lag Screw	With Bolt to Steel	With Wood Drive Screw	
907	3/8	2	3/8	400	620	—	.21
907	3/8	4	1/2	560	620	—	.21
908	3/8	2	16 X 2	—	—	400	.21

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SIDE BEAM ANGLE BRACKET

Fig. 920

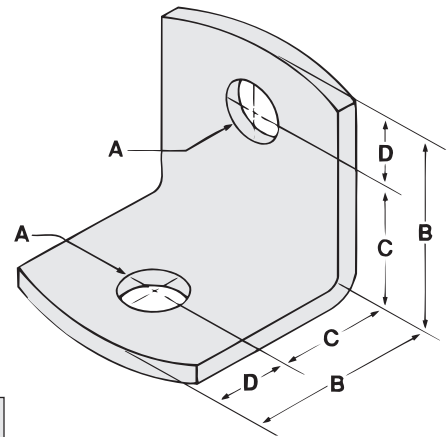
FUNCTION: Designed for use with wood, steel or concrete beams to provide a means for supporting hanger rod. When used on steel beams Fig. 920 can be welded or bolted in place.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 34) and Manufacturers' Standardization Society SP-69 (Type 34).

ORDERING: Specify rod size, finish and figure number.

MATERIAL: Low carbon steel

FINISH: Plain or Electro-galvanized



Rod Size A	For Pipe Size	B	C	D	Max. Rec. Load/lbs.	Wt. Each (in lbs.)	
					Lag Screw	Bolted to Steel	
3/8	1/2 to 2	2 1/8	1 1/2	5/8	390	580	.52
1/2	2 1/2 to 3 1/2	2 3/8	1 1/2	5/8	640	960	.50
5/8	4 to 5	2 1/2	1 1/2	1	760	1500	.75
3/4	6	2 1/2	1 1/2	1	830	2500	.73
7/8	8 to 12	3 1/4	2 1/4	1	830	3600	1.38

SQUARE PLATE WASHER

Fig. 930

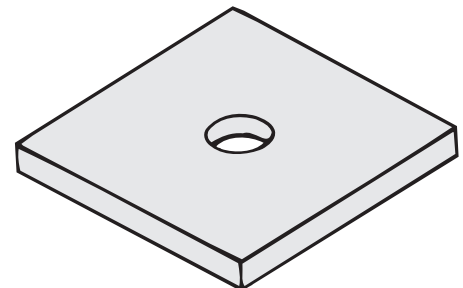
FUNCTION: Designed as a heavy-duty washer to suspend hanger rods.

ORDERING: Specify plate number, rod size and figure number.

MATERIAL: Low carbon steel

FINISH: Plain

Plate No.	Standard Rod Size	Plate Size	Wt. Each (in lbs.)
1	3/8 or 1/2	2 X 2 X 1/4	.27
2	5/8 or 3/4	2 1/2 X 2 1/2 X 1/4	.40
3	3/8 or 1/2	3 X 3 X 1/4	.64
4	5/8 or 3/4	4 X 4 X 1/4	1.13
5	7/8	3 X 3 X 3/8	.85
6	1	4 X 4 X 3/8	1.60
7	7/8 or 1	4 X 4 X 1/2	2.26
8	1 1/4	5 X 5 X 1/2	3.54
9	2	6 X 6 X 3/4	6.80





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CEILING FLANGE & CONCRETE INSERT



PHD Manufacturing, Inc.

CEILING FLANGE

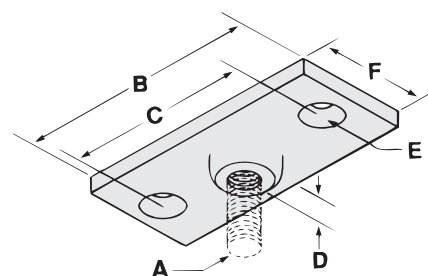
FUNCTION: Designed to provide a means for attaching hanger rod to wood beams or ceilings.

MATERIAL: Malleable Iron

ORDERING: Specify thread size and figure number.

A		B	C	D	E	F	Max. Rec. Load/lbs.	Wt. Each (in lbs.)
Bolt Thread	Pipe Thread							
—	1/4	2 3/4	2	1/2	1/4	1 1/4	180	.18
3/8	—	2 3/4	2	1/2	1/4	1 1/4	180	.18
1/2	—	2 3/4	2	1/2	1/4	1 1/4	180	.18

- Fig. 940 PLAIN WITH BOLT THREAD
 Fig. 940-1 PLAIN WITH PIPE THREAD
 Fig. 941 ELECTRO-GALVANIZED WITH BOLT THREAD
 Fig. 941-1 ELECTRO-GALVANIZED WITH PIPE THREAD
 Fig. 942 COPPER COLOR EPOXY FINISH WITH BOLT THREAD



CONCRETE INSERT

FUNCTION: Designed to be embedded in concrete to provide a means of suspending pipe from ceilings. The insert is held in place by nailing it to the forms, until the concrete is poured. The insert comes with a snap-out plug to keep the inner housing clean during pouring of the concrete. After the concrete has set, the plug is removed, exposing the inner housing. The rod should be tightened until it touches the top of the insert, but should not be forced further to avoid damage to the insert.

APPROVALS: Complies with Federal Specification A-A-1192A (Type 18) and Manufacturers' Standardization Society SP-69 (Type 18).

ORDERING: Specify figure number. If insert nut is required order separately, include the rod size and figure number.

Rod Sizes	B	C	D	E	F	Max. Rec. Load/lbs.	Wt. Each (in lbs.)	
							Insert	Nut
1/4	3 1/8	1 5/8	7/8	1 1/2	2	240	.44	.08
3/8	3 1/8	1 5/8	7/8	1 1/2	2	600	.44	.10
1/2	3 1/8	1 5/8	7/8	1 1/2	2	600	.44	.11
5/8	3 1/8	1 5/8	7/8	1 1/2	2	600	.44	.14
3/4	3 1/8	1 5/8	7/8	1 1/2	2	600	.44	.16
7/8	3 1/8	1 5/8	7/8	1 1/2	2	600	.44	.17

- Fig. 950 PLAIN
 Fig. 951 ELECTRO-GALVANIZED
 Fig. 950N PLAIN INSERT NUT
 Fig. 951N ELECTRO-GALVANIZED INSERT NUT

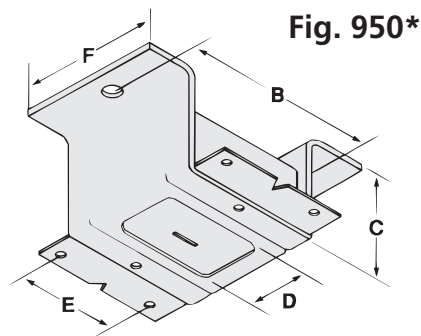


Fig. 950*

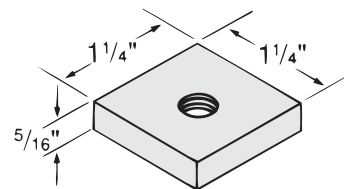


Fig. 950N

MATERIAL: Low carbon steel

* Fig. 950 maximum rod size is 3/4



TURNBUCKLE



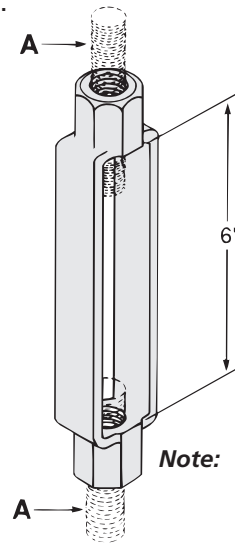
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TURNBUCKLE

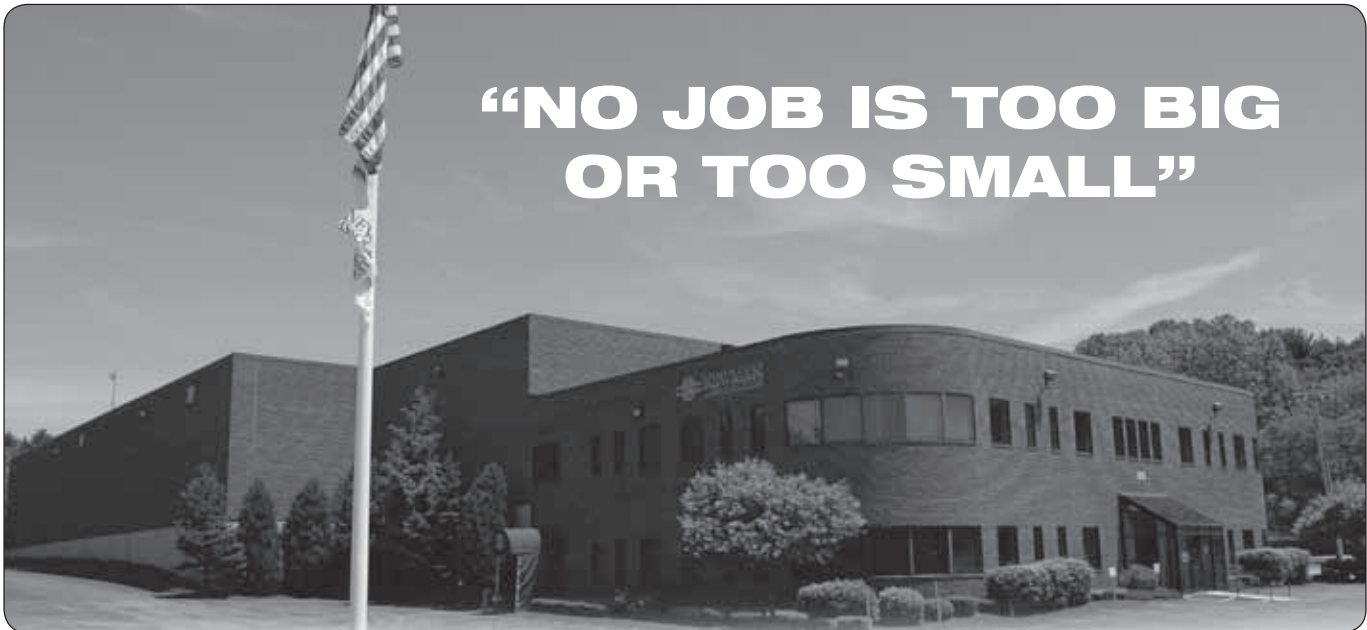
Fig. 960

- FUNCTION:** Designed for use as a hanger rod connection on heavy loads when an adjustment of up to 6 inches is required.
- APPROVALS:** Complies with Federal Specification A-A-1192A (Type 13) and Manufacturers' Standardization Society SP-69 (Type 13).
- ORDERING:** Specify rod size, finish and figure number.
- MATERIAL:** Forged steel
- FINISH:** Plain or electro-galvanized

Rod Size A	Max. Rec. Load/lbs.		Wt. Each (in lbs.)
	650°F	750°F	
3/8	730	540	.50
1/2	1350	1010	.75
5/8	1810	1610	1.12
3/4	2710	2420	1.75
7/8	3770	3360	1.83
1	4960	4420	2.60
1 1/8	6230	5560	3.68
1 1/4	8000	7140	4.75
1 1/2	11630	10370	6.25



Note: Openings of 3", 9" and 12" are available upon request.



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TECHNICAL DATA



PHD Manufacturing, Inc.

STEEL PIPE DATA

SCHEDULE 40 & 80

Pipe Size	Schedule No.	O.D.	Wall Thickness	Wt. Per Foot (in lbs.)	
				Water	Pipe
3/8	40	.675	.091	.083	.567
	80		.126	.061	.738
1/2	40	.840	.109	.132	.850
	80		.147	.101	1.087
3/4	40	1.050	.113	.230	1.130
	80		.154	.186	1.473
1	40	1.315	.133	.374	1.678
	80		.179	.311	2.171
1 1/4	40	1.660	.140	.647	2.272
	80		.191	.555	2.996
1 1/2	40	1.900	.145	.882	2.717
	80		.200	.765	3.631
2	40	2.375	.154	1.452	3.652
	80		.218	1.279	5.022
2 1/2	40	2.875	.203	2.072	5.790
	80		.276	1.834	7.660
3	40	3.500	.216	3.200	7.570
	80		.300	2.860	10.250
3 1/2	40	4.000	.226	4.280	9.110
	80		.318	3.850	12.510
4	40	4.500	.237	5.510	10.790
	80		.337	4.980	14.980

Pipe Size	Schedule No.	O.D.	Wall Thickness	Wt. Per Foot (in lbs.)	
				Water	Pipe
5	40	5.563	.258	8.660	14.620
	80		.375	7.870	20.780
6	40	6.625	.280	12.510	18.970
	80		.432	11.920	28.570
8	40	8.625	.322	21.600	28.550
	80		.500	19.800	43.390
10	40	10.750	.365	34.100	40.480
	80		.593	31.100	64.400
12	40	12.750	.406	48.500	53.600
	80		.687	44.000	88.600
14	40	14.000	.437	58.500	63.000
	80		.750	51.200	107.000
16	40	16.000	.500	76.500	83.000
	80		.843	69.700	137.000
18	40	18.000	.563	97.200	105.000
	80		.937	88.500	171.000
20	40	20.000	.593	120.400	123.000
	80		1.031	109.400	209.000
24	40	24.000	.687	174.200	171.000
	80		1.218	158.200	297.000
30	20	30.000	.500	286.000	158.000
	API		36.000	.500	417.000

SPACING OF HANGERS FOR STEEL PIPE

Nominal Pipe Size, Inches	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12	14	16	18	20	24
Maximum Span. Feet	7	7	7	7	9	10	11	12	13	14	16	17	19	22	23	25	27	28	30	32
Recommended Hanger Rod Sizes	3/8	3/8	3/8	3/8	3/8	3/8	3/8	1/2	1/2	5/8	5/8	3/4	7/8	7/8	7/8	1	1	1 1/8	1 1/4	1 1/2
	OR TRAPEZE																			

Note: Spacing and capacities are based on pipe filled with water.

Additional valves and fittings increase the load and therefore closer hanger spacing is required.

* Many Codes and specifications require pipe hangers to be spaced every 10 feet regardless of size. Check local codes.



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COPPER TUBE DATA

TYPE L

Tube Size	Tubing O.D.	Wall Thickness	Wt. Per Foot (in lbs.)	
			Water	Pipe
¼	.375	.030	.034	.126
⅜	.500	.035	.062	.198
½	.625	.040	.100	.285
⅝	.750	.042	.151	.362
¾	.875	.045	.209	.455
1	1.125	.050	.357	.655
1¼	1.375	.055	.546	.884
1½	1.625	.060	.767	1.140
2	2.125	.070	1.341	1.750
2½	2.625	.080	2.064	2.480
3	3.125	.090	2.949	3.330
3½	3.625	.100	3.989	4.290
4	4.125	.110	5.188	5.380
5	5.125	.125	8.081	7.610
6	6.125	.140	11.616	10.200
8	8.125	.200	20.289	19.260
10	10.125	.250	31.590	30.100
12	12.125	.280	45.426	40.400

TYPE K

Tube Size	Tubing O.D.	Wall Thickness	Wt. Per Foot (in lbs.)	
			Water	Pipe
¼	.375	.035	.032	.145
⅜	.500	.049	.055	.269
½	.625	.049	.094	.344
⅝	.750	.049	.144	.418
¾	.875	.065	.188	.641
1	1.125	.065	.337	.839
1¼	1.375	.065	.527	1.040
1½	1.625	.072	.743	1.360
2	2.125	.083	1.310	2.060
2½	2.625	.095	2.000	2.920
3	3.125	.109	2.960	4.000
3½	3.625	.120	3.900	5.120
4	4.125	.134	5.060	6.510
5	5.125	.160	8.000	9.670
6	6.125	.192	11.200	13.870
8	8.125	.271	19.500	25.900
10	10.125	.338	30.423	40.300
12	12.125	.405	43.675	57.800

SPACING OF HANGERS FOR COPPER TUBING

Tubing Size	½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12
Span in Ft.	6	8	8	10	10	10	12	12	12	12	12	14	14	18	19

Note: Spacing and capacities are based on pipe filled with water.
Additional valves and fittings increase the load and therefore closer hanger spacing is required.

AWWA DUCTILE IRON PIPE DATA

Based on AWWA C108-70, Table 8.2.
Add flange weight for flanged cast iron pipe.

Nom. Pipe Size	Class	O.D. D.I. Pipe	Wall Thick.	Wt. Per Foot (in lbs.)	
				Pipe	Water
3	53	3.96	.31	11.20	3.80
4	53	4.80	.32	14.20	5.90
6	53	6.90	.34	22.00	13.10
8	53	9.05	.36	31.00	23.00
10	53	11.10	.38	40.40	36.40
12	53	13.20	.40	50.70	52.30
14	53	15.30	.42	62.40	71.10
16	53	17.40	.43	72.80	93.10
18	53	19.50	.44	83.60	117.90

Nom. Pipe Size	Class	O.D. D.I. Pipe	Wall Thick.	Wt. Per Foot (in lbs.)	
				Pipe	Water
20	53	21.60	.45	95.20	145.80
24	53	25.80	.47	119.20	210.20
30	53	32.00	.51	161.30	326.50
36	53	38.30	.58	219.50	469.30
42	53	44.50	.65	285.20	634.90
48	53	50.80	.72	360.30	828.90



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TECHNICAL DATA



PHD Manufacturing, Inc.

PVC PLASTIC PIPE DATA

SCHEDULE 40 & 80

Pipe Size	Schedule No.	O.D.	Wall Thickness	Wt. Per Foot (in lbs.)		Pipe Size	Schedule No.	O.D.	Wall Thickness	Wt. Per Foot (in lbs.)	
				Water	Pipe					Water	Pipe
1/8	40	.405	.068	.025	.043	2 1/2	40	2.875	.203	2.072	1.020
	80		.095	.016	.055		80		.2761	.834	1.350
1/4	40	.540	.088	.045	.074	3	40	3.500	.216	3.200	1.333
	80		.119	.031	.094		80		.3002	.860	1.804
3/8	40	.675	.091	.083	.100	3 1/2	40	4.000	.226	4.280	1.598
	80		.126	.061	.129		80		.3183	.850	2.195
1/2	40	.840	.109	.132	.150	4	40	4.500	.237	5.510	1.899
	80		.147	.101	.150		80		.3374	.980	2.636
3/4	40	1.050	.113	.230	.199	5	40	5.563	.258	8.660	2.770
	80		.154	.186	.259		80		.3757	.870	4.126
1	40	1.315	.133	.374	.295	6	40	6.625	.280	12.150	3.339
	80		.179	.311	.382		80		.4321	1.290	5.028
1 1/4	40	1.660	.140	.647	.400	8	40	8.625	.322	21.600	5.280
	80		.191	.555	.527		80		.5001	9.800	8.023
1 1/2	40	1.990	.145	.882	.478	10	40	10.75	0.366	34.100	7.505
	80		.200	.765	.639		80		.5933	1.100	11.894
2	40	2.375	.154	1.452	.643	12	40	12.75	0.406	48.500	10.023
	80		.218	1.279	.884		80		.6874	4.000	16.365

SPACING OF HANGERS FOR PVC PLASTIC PIPE

Schedule 40 Pipe Size	Support Spacings (In Feet)									
	Temperature									
	20°F	40°F	60°F	80°F	100°F	110°F	120°F	130°F	140°F	150°F
1/2 to 3/4	5.00	4.75	4.50	4.25	4.00	3.75	3.33	3.00	2.66	2.00
1 to 1 1/4	5.50	5.25	5.00	4.66	4.33	4.00	3.75	3.33	2.80	2.25
1 1/2 to 2	5.80	5.50	5.25	5.00	4.66	4.33	3.80	3.50	3.00	2.50
2 1/2	6.66	6.33	6.00	5.50	5.25	4.80	4.50	4.00	3.50	2.80
3	6.80	6.50	6.25	5.80	5.50	5.25	4.75	4.25	3.66	3.00
4	7.33	7.00	6.50	6.25	5.80	5.50	5.00	4.50	3.80	3.25
6	7.80	7.50	7.00	6.80	6.33	5.80	5.33	4.80	4.25	3.50

Schedule 80 Pipe Size	Support Spacings (In Feet)									
	Temperature									
	20°F	40°F	60°F	80°F	100°F	110°F	120°F	130°F	140°F	150°F
1/2 to 3/4	5.75	5.50	5.25	4.80	4.50	4.33	3.80	3.50	3.00	2.50
1	6.33	6.00	5.75	5.33	5.00	4.60	4.33	3.80	3.33	2.75
1 1/4 to 1 1/2	6.66	6.33	6.00	5.66	5.25	4.80	4.50	4.00	3.50	3.00
2	7.00	6.50	6.25	6.00	5.50	5.12	4.75	4.33	3.66	3.12
2 1/2	7.80	7.50	7.00	6.66	6.33	5.80	5.33	4.75	4.25	3.33
3	8.20	7.75	7.33	7.00	6.50	6.00	5.50	5.00	4.33	3.50
4	8.66	8.25	7.80	7.33	6.80	6.33	5.80	5.25	4.66	3.75
6	9.80	9.33	8.80	8.33	7.80	7.33	6.50	6.00	5.12	4.25



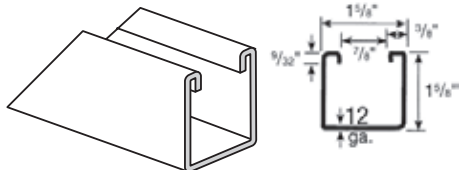
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METAL FRAMING CHANNELS (SERIES 1000)

Superstrut® Thomas & Betts

STANDARD CHANNELS

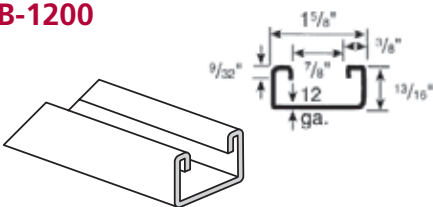
A-1200



Channel available in Solid, Half Slot, Punched, Slotted and Knockout configurations.

wt./ft. 1.90 lbs.

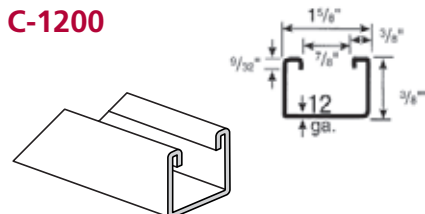
B-1200



Channel available in Solid, Half Slot, Punched and Slotted configurations.

wt./ft. 1.28 lbs.

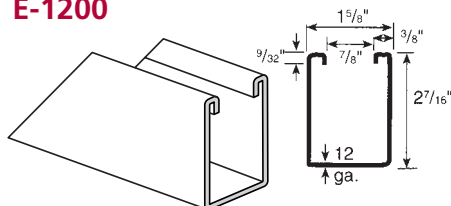
C-1200



Channel available in Solid, Half Slot and Punched configuration.

wt./ft. 1.70 lbs.

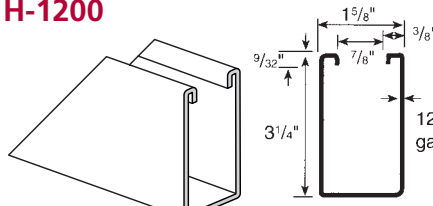
E-1200



Channel available in Solid, Half Slot and Punched configurations.

wt./ft. 2.47 lbs.

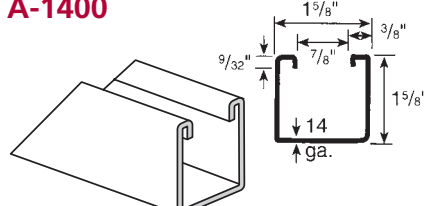
H-1200



Channel available in Solid, Half Slot and Punched configurations.

wt./ft. 3.05 lbs.

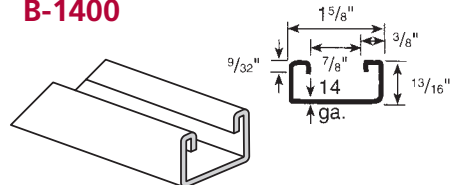
A-1400



Channel available in Solid, Half Slot, Punched, Slotted and Knockout configurations.

wt./ft. 1.40 lbs.

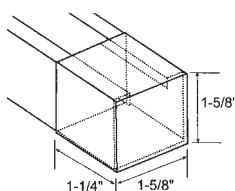
B-1400



Channel available in Solid, Half Slot, Punched and Slotted configurations.

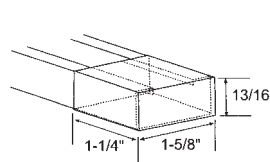
wt./ft. 1.90 lbs.

A804 NEOP WH



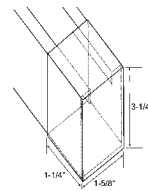
1 5/8" x 1 5/8" White Plastisol Safety End Cap. wt./C 2 lbs.

B804 NEOP WH



1 5/8" x 13/16" White Plastisol Safety End Cap. wt./C 1.5 lbs.

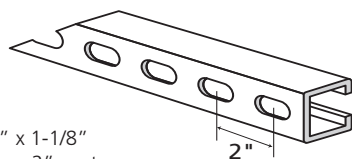
H804 NEOP WH



1 5/8" x 3 1/4" White Plastisol Safety End Cap. wt./C 2 lbs.

HOLE CONFIGURATIONS

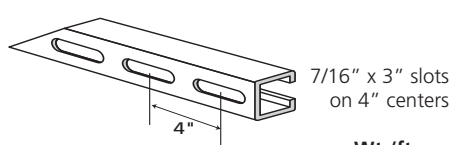
HALF SLOT CHANNEL



9/16" x 1-1/8" slots on 2" centers

Prod. #	Dim.	Ga.	Wt./ft. lbs.
A-1200-HS	1-5/8 x 1-5/8	12	1.85
B-1200-HS	1-5/8 x 13/16	12	1.23
C-1200-HS	1-5/8 x 1-3/8	12	1.65
E-1200-HS	1-5/8 x 2-7/16	12	2.42
H-1200-HS	1-5/8 x 3-1/4	12	3.00
A-1400-HS	1-5/8 x 1-5/8	14	1.36
B-1400-HS	1-5/8 x 13/16	14	0.87

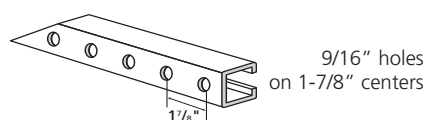
SLOTTED CHANNEL



7/16" x 3" slots on 4" centers

Prod. #	Dim.	Ga.	Wt./ft. lbs.
A-1200-S	1-5/8 x 1-5/8	12	1.80
B-1200-S	1-5/8 x 13/16	12	1.18
A-1400-S	1-5/8 x 1-5/8	14	1.37
B-1400-S	1-5/8 x 13/16	14	0.85

PUNCHED CHANNEL

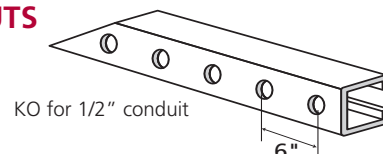


9/16" holes on 1-7/8" centers

Prod. #	Dim.	Ga.	Wt./ft. lbs.
A-1200-P	1-5/8 x 1-5/8	12	1.85
B-1200-P	1-5/8 x 13/16	12	1.23
H-1200-P	1-5/8 x 13/16	12	3.00
A-1400-P	1-5/8 x 1-5/8	14	1.36
B-1400-P	1-5/8 x 13/16	14	0.87

CHANNEL WITH KNOCKOUTS

Prod. #	Dim.	Ga.	Wt./ft. lbs.
A-1200-KO	1-5/8 x 1-5/8	12	1.90
A-1400-KO	1-5/8 x 1-5/8	14	1.40



KO for 1/2" conduit



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THREADED PRODUCTS & HARDWARE

Superstrut® Thomas&Betts

CHANNEL NUTS

Superstrut channel nuts are manufactured from mild steel and are case hardened.

DESIGN DATA

Superstrut self aligning channel nuts are designed to provide resistance to pull out and resistance to side slip in excess of the full strength of the channels with which they are used. The extreme resistance to side slip results from the unique design of the alternate teeth, spaced and designed to develop a wedging action that increases with pressure or load.

LOAD RATINGS FOR 1/2" STRUT NUTS USED IN SUPERSTRUT CHANNEL

If connections will be subjected to dynamic or seismic loading conditions, contact the factory for design assistance.

Channel No.	Slip Resistance lbs.	Pull Out Strength lbs.
A-1200	1500	2000
C-1200	1500	2000
B-1200	1400	1400
A-1400	1000	1400
B-1400	1000	1400

UC-100 UNIVERSAL NUT

Eliminates the inventory and installation hassles of conventional spring nuts. Fits all 1-5/8" channel, regardless of depth, with a simple twist of your thumb. Pliable nylon cone secures the nut in place through the entire range of construction site temperatures.

SCREW THREADS

All threaded products are American Standard thread, free fit class 2.

Thread Size	1/4	5/16	3/8	1/2
Threads per inch	20	18	16	13
Design Torque (ft.-lbs.)	6	11	19	50

GoldGalv® hardware finish is standard for all Superstrut products. This is a multi-process finish of electro-plated zinc, followed by gold colored zinc dichromate to give excellent corrosion resistance and a superior paint base. See **page 289** for a complete description of the GoldGalv® hardware finish.

GoldGalv® hardware will be furnished if no other finish is specified.

FITTINGS & BRACKETS

MATERIAL

Superstrut fittings and brackets are manufactured from hot rolled carbon steel.

DIMENSIONS

The following standard dimensions apply to all fittings except as indicated on the individual drawings.

Hole spacing	13/16" from end of fittings
Hole spacing	1-7/8" centers
Hole size	9/16" diameter
Material	1-5/8" wide
Material	1/4" thick

APPLICATION INSTRUCTIONS

Parts drawings illustrate a typical use for the fitting, and in many cases other uses for the part are appropriate.

DESIGN DATA

Ratings vary when used with 12 or 14 gauge channel and are shown for each channel material.

GoldGalv® hardware finish is standard for all Superstrut products. This is a multi-process finish of electro-plated zinc, followed by gold colored zinc dichromate to give excellent corrosion resistance and a superior paint base. See **Page 289** for complete description of the GoldGalv® hardware finish. GoldGalv® hardware will be furnished if no other finish is specified.

NUTS AND BOLTS REQUIRED

Unless otherwise noted, nuts and bolts for use with fittings and brackets should be ordered separately. The standard bolt for the 9/16" hole is a 1/2" hex head cap screw 15/16" long. The 15/16" length may be used with all series channel.



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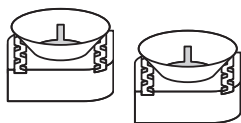
THREADED PRODUCTS & HARDWARE

Superstrut® Thomas&Betts

NUTS & BOLTS — STANDARD FINISH - GOLDGALV® BRAND

CM-100 NYLON CONE NUT

For all 1-5/8" channel

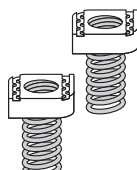


Prod. # & size	Wt./C lbs.
CM-100-1/4	8
CM-100-3/8	10
CM-100-1/2 •	12
CM-100B-1/2 ••	10

- Will not fit "B" series channel
- For "B" Series channel

A-100 REGULAR SPRING NUT

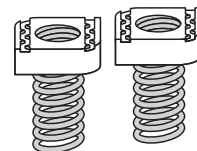
For all "A" and "C" series channel and inserts



Prod. # & Size	Wt./C lbs.
A-100-1/4	8
A-100-5/16	9
A-100-3/8	10
A-100-1/2	12
Nut is square over 1/2" size	
A-100-5/8	19
A-100-3/4	19
A-100-7/8	18

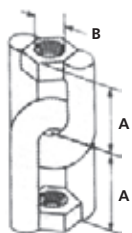
H-100 LONG SPRING NUT

For all "E" and "H" series channel and inserts



Prod. # & Size	Wt./C lbs.
H-100-3/8	10
H-100-1/2	14
Nut is square over 1/2" size.	
H-100-5/8	20

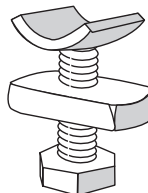
E-122



Prod. #	A	B	Wt./C lbs.	Design Load lbs.
E-122-3/8	1-3/8	3/8	28	1000
E-122-1/2	1-1/2	1/2	48	1800

ES-142 SEISMIC STIFFNER NUT

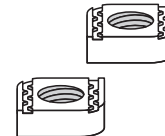
Seismic bracing rod stiffener connector



Prod. # & Size	Bolt Dia.	Wt./C lbs.
ES-142-1/2x1-1/2	1/2	21

AB-100 SPRINGLESS NUT

For use with all channels

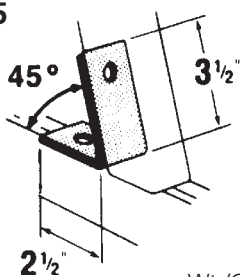


Prod. # & Size	Wt./C lbs.
AB-100-1/4	7
AB-100-5/16	8
AB-100-3/8	9
AB-100-1/2	9
Nut is square over 1/2" size.	
AB-100-5/8	10
AB-100-3/4	

FITTINGS & BRACKETS

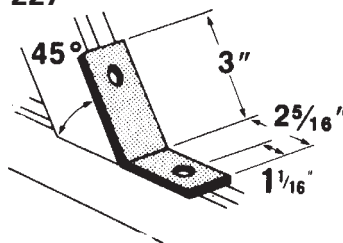
ANGULAR FITTINGS — STANDARD FINISH - GOLDGALV® BRAND

AB-225



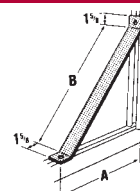
Wt./C 58 lbs.

AB-227



Wt./C 58 lbs.

AB-239

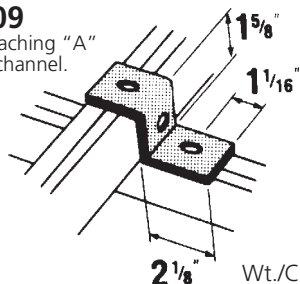


Prod. #	A	B	Wt. lbs./C
AB-239-1	7-13/16	8-1/2	148
AB-239-2	13-3/4	17	255
AB-239-3	19-3/4	25-1/2	363

"Z" SHAPE FITTINGS — STANDARD FINISH — GOLDGALV® BRAND

A-209

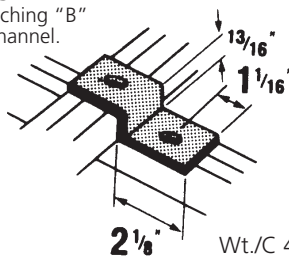
For attaching "A" series channel.



Wt./C 55 lbs.

B-209

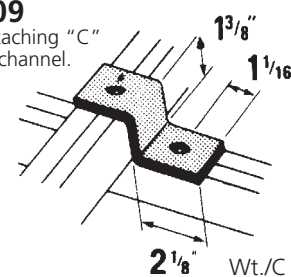
For attaching "B" series channel.



Wt./C 43 lbs.

C-209

For attaching "C" series channel.



Wt./C 49 lbs.

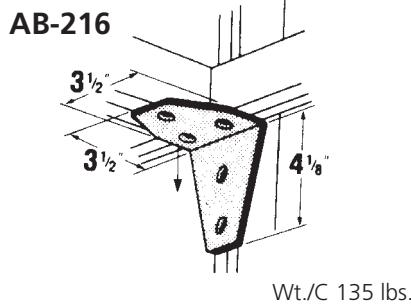
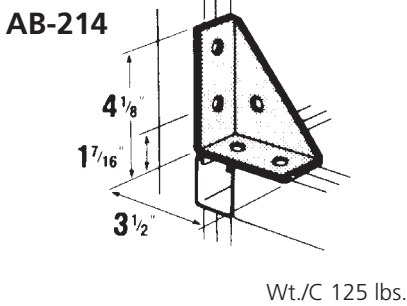
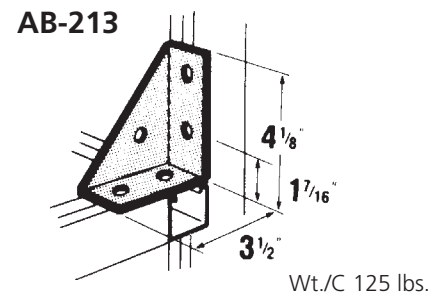
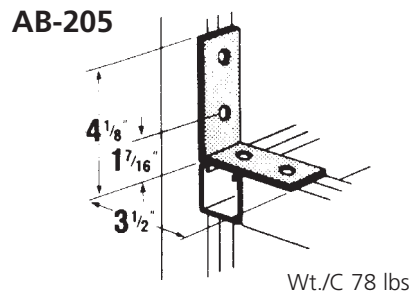
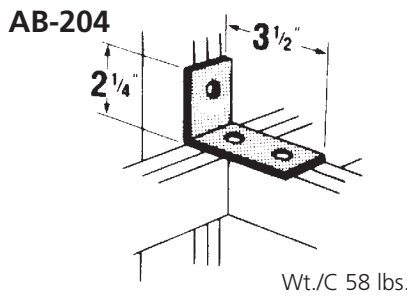
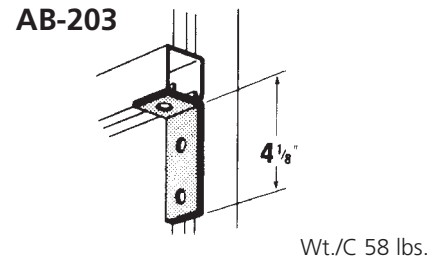
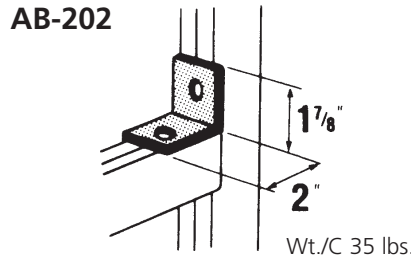
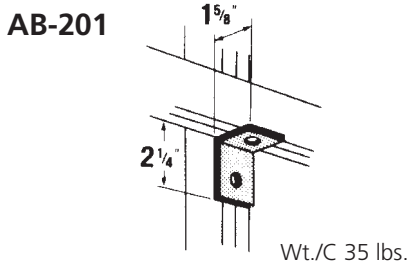


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FITTINGS & BRACKETS

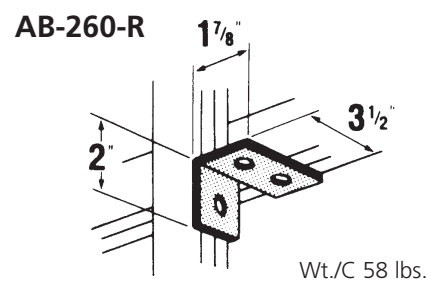
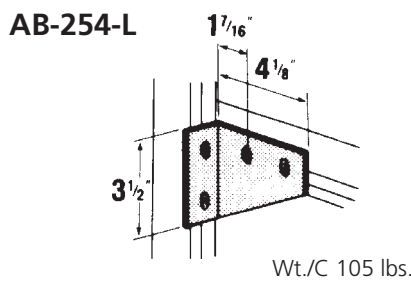
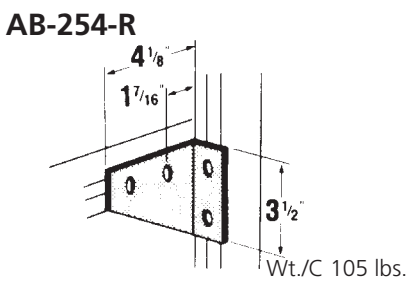
Superstrut® Thomas&Betts

90° ANGLE FITTINGS— STANDARD FINISH—GOLDGALV® BRAND



AB-252 **1 thru 4**

Prod. #	A	Wt. lbs./C
AB-252-1	3-7/8	61
AB-252-2	5-7/8	84
AB-252-3	7-7/8	107
AB-252-4	9-7/8	130



Standard Dimensions:	Hole Spacing	13/16" From End	Hole Spacing	1-7/8" Centers
	Hole Size	9/16" Diam.	Material	1-5/8" Width
			Material	1/4" Thick

SAFETY PRODUCTS
TOOLS & ACCESSORIES
CONTRACTOR SUPPLIES
HANGERS & STRUT
FASTENERS & THREADED ROD
CONCRETE ANCHORS
SPECIALTY ITEMS SERVICES & DATA

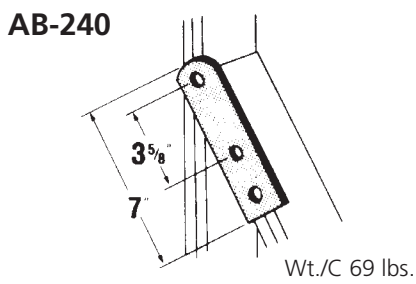
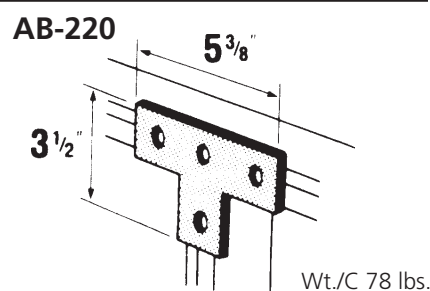
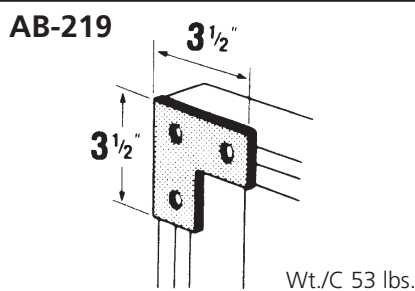
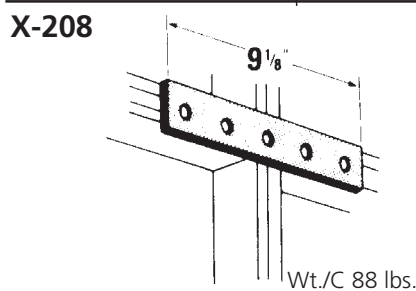
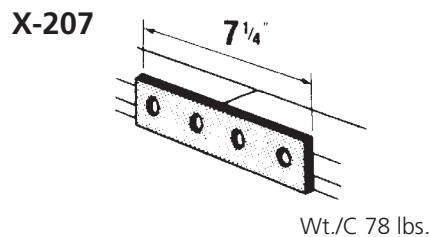
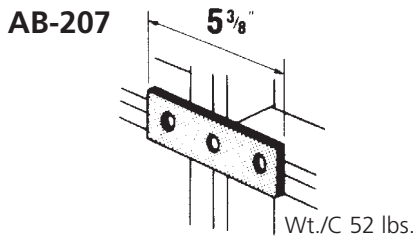
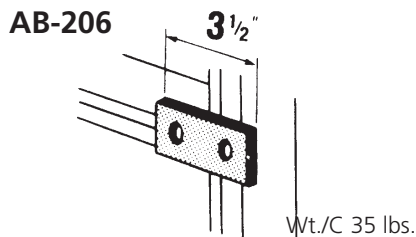


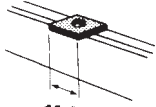
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FITTINGS & BRACKETS

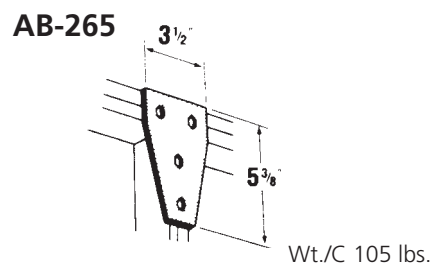
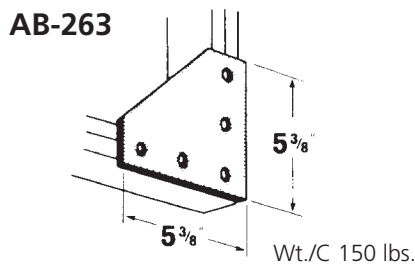
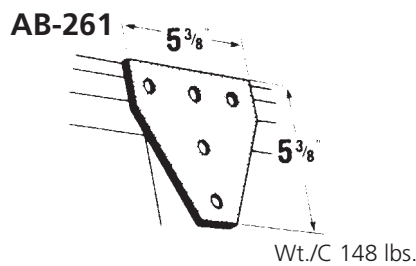
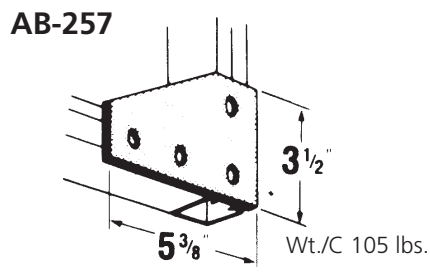
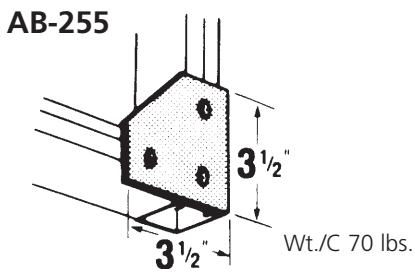
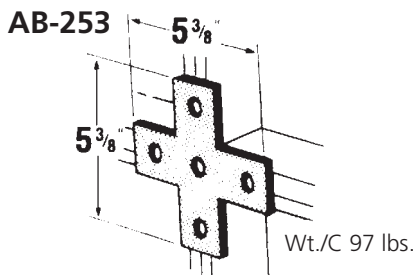
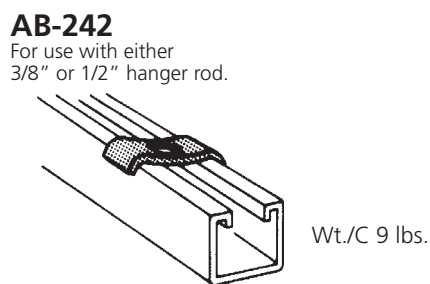
Superstrut® Thomas & Betts

FLAT PLATE FITTINGS—STANDARD FINISH—GOLDGALV® BRAND



AB-241 

Prod. #	Bolt Size	Wt. lbs./C
AB-241-1/4	1/4	18
AB-241-5/16	5/16	18
AB-241-3/8	3/8	18
AB-241-1/2	1/2	17
AB-241-5/8	5/8	15
AB-241-3/4	3/4	14



Standard Dimensions:	Hole Spacing	13/16" From End	Hole Spacing	1-7/8" Centers
	Hole Size	9/16" Diam.	Material	1-5/8" Width
			Material	1/4" Thick



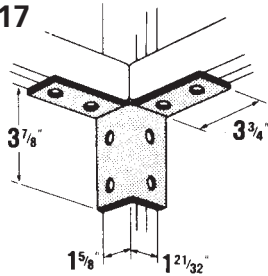
(800) 733-0089 • (781) 329-4000 • FAX: (781) 326-4757

FITTINGS & BRACKETS

Superstrut® Thomas&Betts

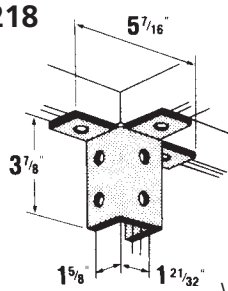
WING SHAPE FITTINGS—STANDARD FINISH - GOLDGALV® BRAND

A-217



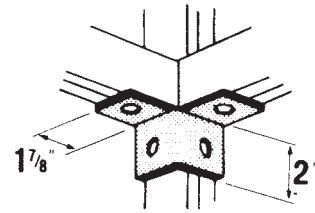
Wt./C 155 lbs.

A-218



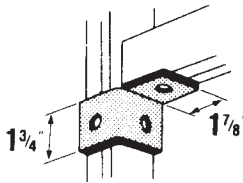
Wt./C 177 lbs.

AW-204



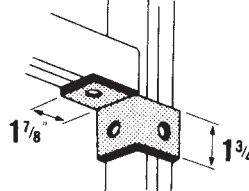
Wt./C 76 lbs.

AW-205-L



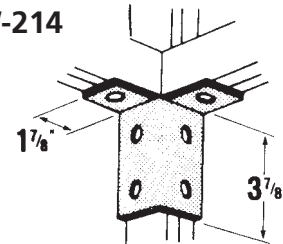
Wt./C 59 lbs.

AW-205-R



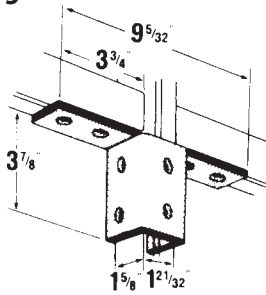
Wt./C 59 lbs.

AW-214



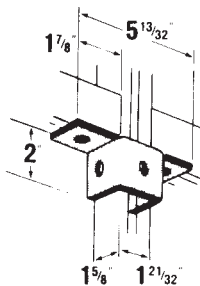
Wt./C 115 lbs.

AW-219



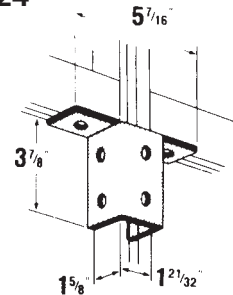
Wt./C 187 lbs.

AW-220



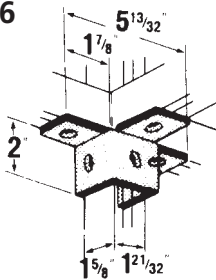
Wt./C 90 lbs.

AW-224



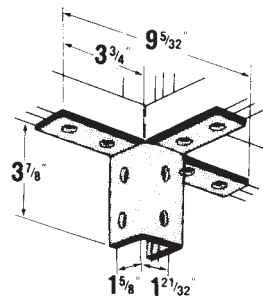
Wt./C 147 lbs.

AW-226



Wt./C 113 lbs.

AW-228



Wt./C 230 lbs.

Standard Dimensions:	Hole Spacing Hole Size	13/16" From End 9/16" Diam.	Hole Spacing Material Material	1-7/8" Centers 1-5/8" Width 1/4" Thick
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SAFETY PRODUCTS
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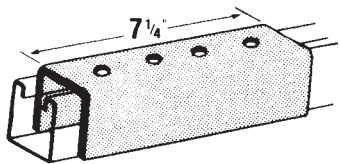
FITTINGS & BRACKETS

Superstrut® Thomas & Betts

"U" SHAPE FITTINGS—STANDARD FINISH - GOLDGALV® BRAND

A-208

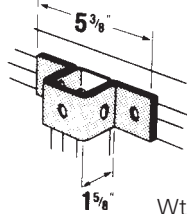
Does not include strut nut or bolts.
For attaching "A" series channel.



Wt./C 275 lbs.

A-210

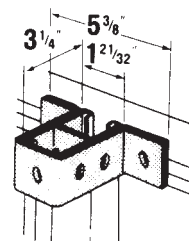
For attaching "A" series channel.



Wt./C 88 lbs.

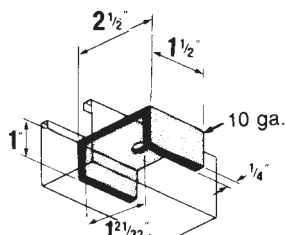
A-211

For attaching "A" series double channel.



Wt./C 128 lbs.

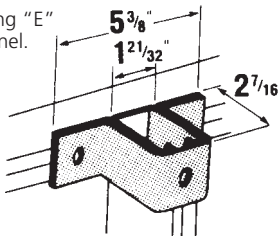
AB-288



Prod. #	Bolt Size	Wt. lbs./C
AB-288	3/8	37
AB-288	1/2	37
AB-288	5/8	37

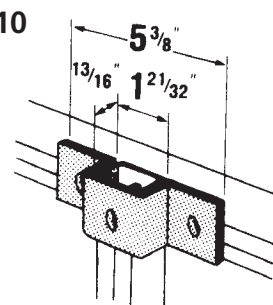
E-210

For attaching "E" series channel.



Wt./C 112 lbs.

B-210

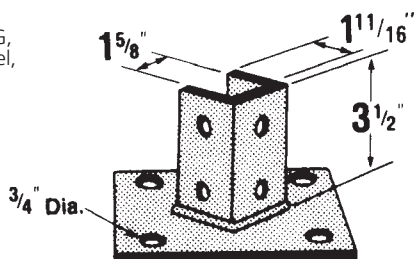


Wt./C 65 lbs.

POST BASES—STANDARD FINISH - GOLDGALV® BRAND

AP-232

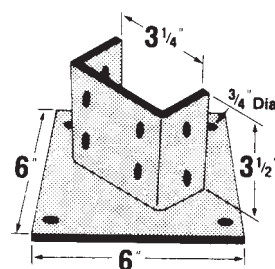
Available GoldGalv, HDG, EG (Silver), Stainless Steel, and White Painted



Wt./C 384 lbs.

AP-235

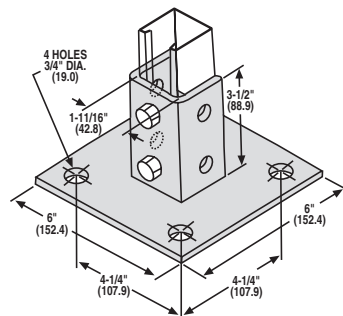
Available GoldGalv, HDG, EG (Silver), Stainless Steel, and White Painted



Wt./C 400 lbs.

AP-232SQ

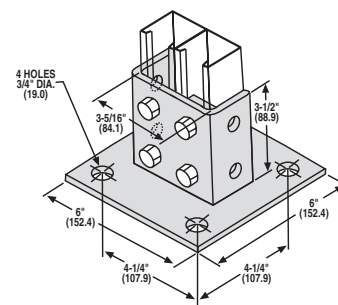
Available GoldGalv, HDG, EG (Silver), Stainless Steel, and White Painted



Wt./C 392 lbs.

AP-235SQ

Available GoldGalv, HDG, EG (Silver), Stainless Steel, and White Painted



Wt./C 400 lbs.

Standard Dimensions:	Hole Spacing	13/16" From End	Hole Spacing	1-7/8" Centers
	Hole Size	9/16" Diam.	Material	1-5/8" Width
			Material	1/4" Thick



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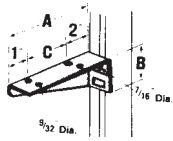
FITTINGS & BRACKETS

Superstrut® Thomas & Betts

SPECIAL APPLICATION FITTINGS—STANDARD FINISH - GOLDGALV® BRAND

S-201-L and R

R as shown
L opposite hand.
12 ga. steel



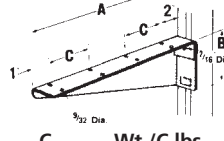
A	B	C	Wt./C lbs.
6	1-15/16	3	67
8	2-7/16	5	92
10	2-15/16	7	120

Design Uniform Load/Lbs.

A-1200	250	A-1400	200
--------	-----	--------	-----

S-201-L and R

R as shown
L opposite hand.
12 ga. steel



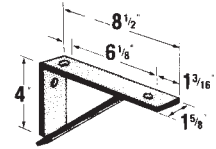
A	B	C	Wt./C lbs.
12	3-7/16	3	152
14	3-15/16	4	173
16	4-7/16	5	223
18	4-15/16	6	266
20	5-7/16	7	308

Design Uniform Load/Lbs.

A-1200	250	A-1400	200
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S-204

Wt./C 174 lbs.

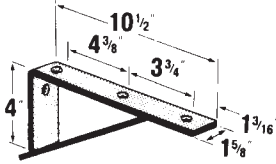


Design Uniform Load/Lbs.

A-1200	650	A-1400	500
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S-205

Wt./C
264
lbs.

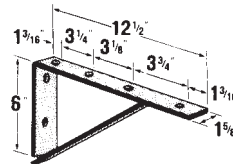


Design Uniform Load/Lbs.

A-1200	650	A-1400	500
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S-217

Wt./C 264 lbs.

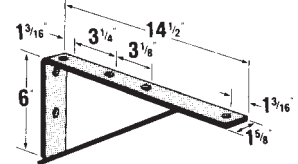


Design Uniform Load/Lbs.

A-1200	750	A-1400	650
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S-218

Wt./C 295 lbs.



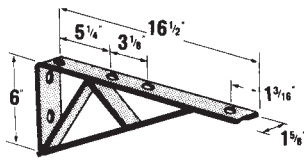
Design Uniform Load/Lbs.

A-1200	750	A-1400	650
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BRACKETS—STANDARD FINISH - GOLDGALV® BRAND

S-222

Wt./C
385
lbs.

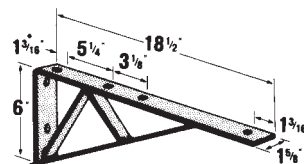


Design Uniform Load/Lbs.

A-1200	1000	A-1400	750
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S-226

Wt./C
421 lbs.

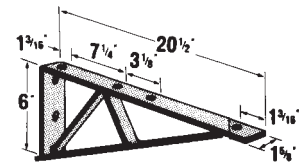


Design Uniform Load/Lbs.

A-1200	1000	A-1400	750
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S-236

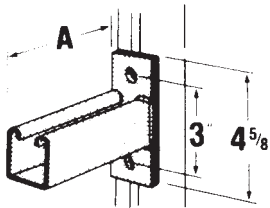
Wt./C
744
lbs.



Design Uniform Load/Lbs.

A-1200	800	A-1400	650
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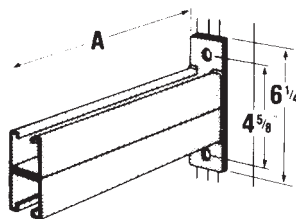
S-250



May be installed inverted with no change in load ratings. Strut section made from half slot channel.

A	Design load lbs.	Wt./C lbs.
6	1500	150
12	800	250
18	550	350
24	400	450

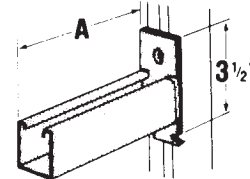
S-251



Strut section made from half slot channel.

A	Design load lbs.	Wt./C lbs.
12	1650	514
18	1050	714
24	800	914
30	650	1114
36	500	1314

S-256



When installed in inverted position reduce load rating 40%. Strut section made from half slot channel.

A	Design load lbs.	Wt./C lbs.
6	1000	151
12	500	251
18	300	351
24	250	451

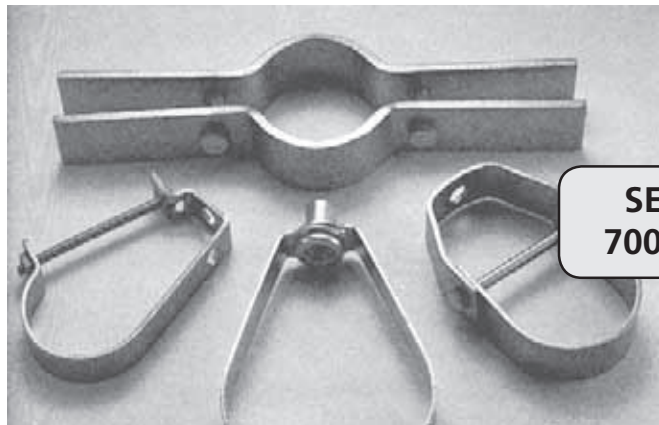
Standard Dimensions:	Hole Spacing	13/16" From End	Hole Spacing	1-7/8" Centers
	Hole Size	9/16" Diam.	Material	1-5/8" Width
			Material	1/4" Thick

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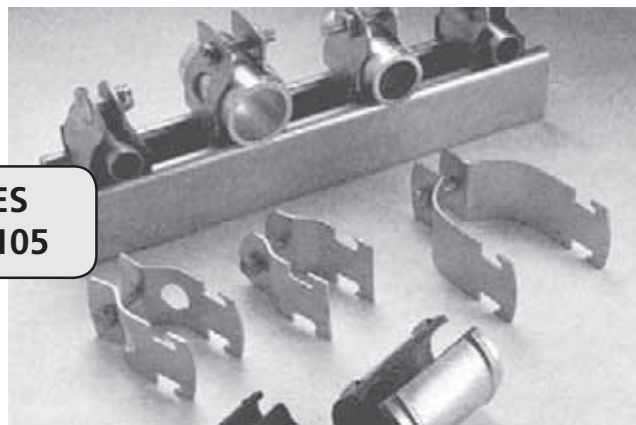


PIPE STRAPS AND CLAMPS

Superstrut® Thomas&Betts



**SERIES
700 / 105**



MATERIALS

Most products are manufactured from hot rolled carbon steel bars or hot rolled strip steel. Pie rollers are cast iron. Products which are copper plated carry the letter "T" in the prefix.

DESIGN LOADS

Where design loads are indicated, they provide for a safety factor of 3 in conformance with the "AMERICAN STANDARD CODE FOR PRESSURE PIPING."

HANGER DESIGN

Pipe hangers are of advanced design and afford a new and better way of ordinary use.

STANDARD DIMENSIONS

The following, except where noted, apply to all beam clamp fittings.

Hole Size	9/16" diameter
Material	1-5/8" wide
Material	1/4" thick

GoldGalv® hardware finish is standard for all Superstrut products. This is a multi-process finish of electro-plated zinc, followed by gold colorized zinc dichromate to give excellent corrosion resistance and a superior paint base.

GoldGalv® OUTPERFORMS COPPER PLATED

In a test conforming to ASTM G-87-84, also known as the Kesternich Test, Superstrut's GoldGalv® electrogalvanized zinc dichromate finish achieved superior corrosion resistance in comparison to copper plated.

Performed and certified by an independent testing laboratory, the stringent Kesternich test is equivalent to an acid rain environment. The test procedure exposes subject material to condensed moisture containing harsh sulfur dioxide (SO₂) which accelerates the aging process. During the series of test time cycles, the material is thoroughly inspected for signs and progression of damaging red rust.

The first test series conducted included various light-duty adjustable clevis hangers assembled to copper tubing. The GoldGalv® finish exhibited five times the red rust resistance as compared to copper plated.

The second test series was performed on various O.D. pipe straps attached to copper tubing and continuous slot channel. GoldGalv® achieved greater red rust resistance by seven times over copper plating.

Once tests were completed, all copper tubes were split open and inspected for signs of electrolysis. The copper tubes showed minimal deterioration as a result of the test and no indication of electrolysis occurrence when attached to material with GoldGalv® finish.

ASTM G-87-84 CORROSION TEST RESULTS

Test Series I: Light-Duty Adjustable Clevis Hanger

Finish	Initial Red Rust	50% Red Rust	100% Red Rust
GoldGalv obtained	120 Hours	216 Hours	•Never
Copper Plated	24 Hours	48 Hours	72 Hours

•Test series ended after 360 hours.

Test Series II: O.D. Pipe Straps

Finish	Initial Red Rust	50% Red Rust	100% Red Rust
GoldGalv	168 Hours	192 Hours	240 Hours
Copper Plated	24 Hours	48 Hours	168 Hours

SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA



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PIPE STRAPS AND CLAMPS

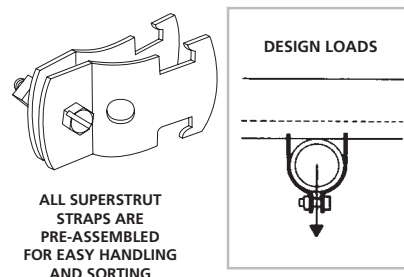
Superstrut® Thomas & Betts

PIPE STRAPS

Superstrut Pipe Straps are designed to be twist inserted anywhere along the slot side of the channel. Pipes can be placed as closely as pipe couplings permit.

Some unique features of the straps include:

- Bolt head is combination slot and hex head for flexibility of attachment
- Square nut is captivated on the shoulder for easy one-handed tightening
- Straps are interchangeable with 1-1/2" strut, for broader application
- Straps are shipped assembled so counting and sorting are easier
- Pipe or conduit sizes are shown on the strap for easy identification

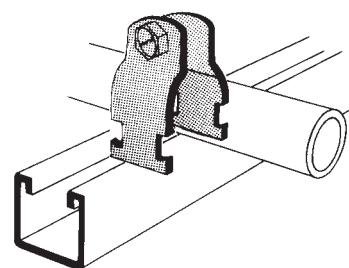


ALL SUPERSTRUT STRAPS ARE PRE-ASSEMBLED FOR EASY HANDLING AND SORTING

700 SUPERSTRUT STRAPS FOR EMT

Standard Finishes – GoldGalv® Brand

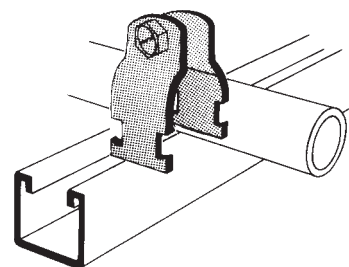
Cat. No.	EMT Size	O.D. Size (In.)	Steel Strap Thickness	Design Load (Lbs.)	Std. Ctn.
700-3/8-STR	3/8"	0.577	14 ga.	750	100
700-1/2-STR	1/2"	0.706	14 ga.	750	100
700-3/4-STR	3/4"	0.922	14 ga.	750	100
700-1-STR	1"	1.163	14 ga.	750	100
700-1-1/4-STR	1-1/4"	1.510	14 ga.	750	50
700-1-1/2-STR	1-1/2"	1.740	12 ga.	800	50
700-2-STR	2"	2.197	12 ga.	800	50



701 SUPERSTRUT STRAPS FOR O.D. TUBING

Standard Finishes – GoldGalv® Brand,
Electro-Galvanized (i.e.) 701-1-1/2EG (Silver)
Copper Plated CT701-1-1/2

Cat. No.	Tubing O.D.	Steel Strap Thickness	Design Load (Lbs.)	Std. Ctn.
701-1/4	1/4"	14 ga.	750	100
701-3/8	3/8"	14 ga.	750	100
701-1/2-STR	1/2"	14 ga.	750	100
701-5/8	5/8"	14 ga.	750	100
701-3/4	3/4"	14 ga.	750	100
701-7/8	7/8"	14 ga.	750	100
701-1-STR	1"	14 ga.	750	50
701-1-1/8	1-1/8"	14 ga.	1000	100
701-1-1/4	1-1/4"	14 ga.	1000	25
701-1-3/8	1-3/8"	14 ga.	1000	100
701-1-1/2	1-1/2"	14 ga.	1000	25
701-1-5/8	1-5/8"	14 ga.	1000	100
701-1-3/4	1-3/4"	12 ga.	1000	25
701-1-7/8	1-7/8"	12 ga.	1000	50
701-2	2"	12 ga.	1000	50
701-2-1/8	2-1/8"	12 ga.	1300	50
701-2-1/4	2-1/4"	12 ga.	1300	25
701-2-3/8	2-3/8"	12 ga.	1300	25
701-2-1/2	2-1/2"	12 ga.	1300	25
701-2-5/8	2-5/8"	12 ga.	1300	50
701-2-3/4	2-3/4"	12 ga.	1300	25
701-2-7/8	2-7/8"	12 ga.	1300	25
701-3	3"	12 ga.	1300	25
701-3-1/8	3-1/8"	12 ga.	1300	25
701-3-1/4	3-1/4"	12 ga.	1300	25
701-3-3/8	3-3/8"	12 ga.	1300	25
701-3-1/2	3-1/2"	12 ga.	1300	25
701-3-5/8	3-5/8"	11 ga.	1650	25
701-3-3/4	3-3/4"	11 ga.	1650	25
701-3-7/8	3-7/8"	11 ga.	1650	25



Other Finishes And Materials Are Available

Consult Your Newman Associates Representative



(800) 733-0089 • (781) 329-4000 • FAX: (781) 326-4757

PIPE STRAPS AND CLAMPS

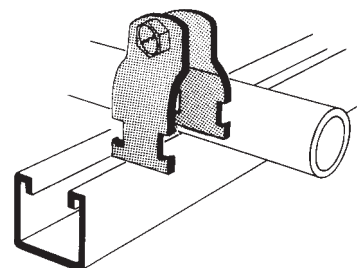
Superstrut® Thomas&Betts

702 – SUPERSTRUT STRAPS

FOR RIGID CONDUIT, IMC AND PIPE

Standard Finishes – GoldGalv® Brand, Electro-Galvanized EG (Silver)

Cat. No.	Rigid Conduit Or Pipe Size	O.D. Size (In.)	Steel Strap Thickness	Design Load (Lbs.)	Std. Ctn.
702-3/8	3/8"	0.675	14 ga.	750	100
702-1/2	1/2"	0.840	14 ga.	750	100
702-3/4	3/4"	1.050	14 ga.	750	100
702-1	1"	1.315	14 ga.	750	100
702-1-1/4	1-1/4"	1.660	14 ga.	800	50
702-1-1/2	1-1/2"	1.900	12 ga.	800	50
702-2-STR	2"	2.375	12 ga.	800	50
702-2-1/2	2-1/2"	2.875	12 ga.	1000	50
702-3	3"	3.500	12 ga.	1650	50
702-3-1/2	3-1/2"	4.000	11 ga.	1650	25
702-4	4"	4.500	11 ga.	1650	25
702-4-1/2	4-1/2"	5.000	11 ga.	1650	25
702-5	5"	5.563	11 ga.	1650	25
702-6	6"	6.625	11 ga.	1650	10
702-8	8"	8.625	11 ga.	1650	10
702-10	10"	10.750	10 ga.	1650	25
702-12	12"	12.750	10 ga.	1650	25

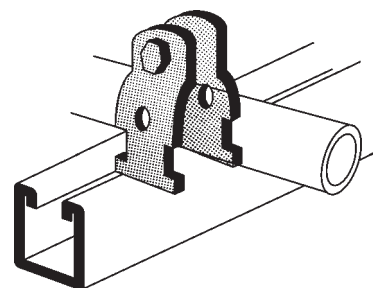


703 UNIVERSAL CLAMP

Standard Finishes - GoldGalv® Brand

Electro-Galvanized (Silver) - Use EG Suffix, (i.e.) 703-1-1/2EG

Cat. No.	Pipe O.D.	Material	Design Load (Lbs.)	Std. Ctn.
703-1/2	.706 – .840	16 ga.	400	100
703-3/4	.932 – 1.050	14 ga.	550	100
703-1	1.163 – 1.315	14 ga.	550	100
703-1-1/4	1.508 – 1.660	14 ga.	800	50
703-1-1/2	1.738 – 1.900	14 ga.	800	50
703-2	2.195 – 2.375	14 ga.	800	50



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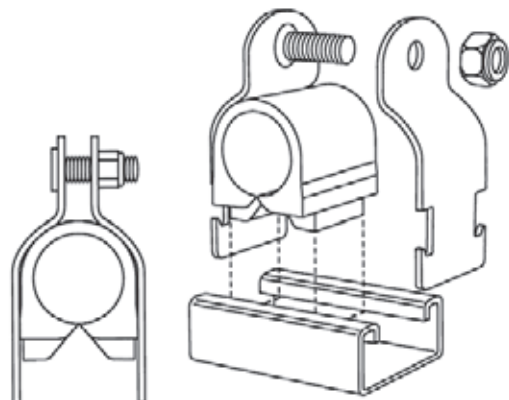
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PIPE STRAPS AND CLAMPS

Superstrut® Thomas & Betts



A-716
P-716

- Assembly consisting of GoldGalv® finish steel clamp with bolt/locknut and cushion
- Secure pipes, tubes and hoses for fluid conductors
- Installation is easy and requires no more time than a simple pipe clamp installation
- Cushion absorbs the shocks and associated vibrations from fluid surges in tubes, pipes and hoses
- It can handle temperatures from 300°F to -40°F
- Cushioned Clamp assemblies are available individually bagged

A-716 – SNAP•GUARD® CUSHIONED CLAMP TUBE SERIES

P-716 – PIPE SERIES

Standard Finishes – GoldGalv® Brand,

Available In Stainless Steel - Use SS Suffix (i.e.) A-716-1SS
Electro-Galvanized (Silver) - Use EG Suffix (i.e.) A-716-1EG

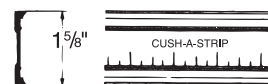
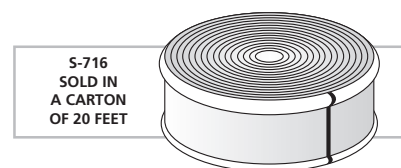
O.D. Tubing Sizes		Standard Pipe Sizes		
Assembly Cat. No.	Tube O.D.	Assembly Cat. No.	Nominal Pipe Size	Std. Ctn.
A-716-1/4	1/4	P-716-1/4	1/4	25
A-716-3/8	3/8	P-716-3/8	3/8	25
A-716-1/2	1/2	P-716-1/2	1/2	25
A-716-5/8	5/8	P-716-3/4	3/4	25
A-716-3/4	3/4	P-716-1	1	25
A-716-7/8	7/8	P-716-1-1/4	1-1/4	25
A-716-1	1	P-716-1-1/2	1-1/2	10
A-716-1-1/8	1-1/8	P-716-2	2	10
A-716-1-1/4	1-1/4	P-716-2-1/2	2-1/2	10
A-716-1-3/8	1-3/8	P-716-3	3	10
A-716-1-1/2	1-1/2	P-716-3-1/2	3-1/2	10
A-716-1-5/8	1-5/8	P-716-4	4	10
A-716-1-3/4	1-3/4	—	—	10
A-716-1-7/8	1-7/8	—	—	10
A-716-2	2	—	—	10
A-716-2-1/8	2-1/8	—	—	10
A-716-2-3/8	2-3/8	—	—	10
A-716-2-5/8	2-5/8	—	—	10
A-716-3-1/8	3-1/8	—	—	10
A-716-4-1/8	4-1/8	—	—	10

S-716 - CUSHIONED STRIP FOR ISOLATION AND VIBRATION APPLICATIONS

For use with 701 O.D. tubing and pipe clamp. To determine 701 clamp size add 1/4" to O.D. tube size to allow for the cushioned strip material. 1/4" markings for fast measuring and cutting. Measurement chart is printed on back of carton. 20 feet included in each carton.

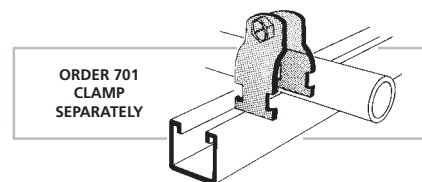
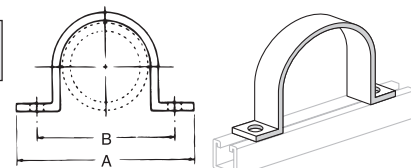
Prevent metal to metal contact with the cushioned strip material. It aids in sound insulation, shock absorption and protects against corrosion, distortion and abrasion. Cushioned strip material is designed for optimal use between -30°F and 300°F.

Cushioned strip material combined with the Superstrut 701 pipe strap can handle clamping assignments from 1/4" to 6".



C-708-U SHORT STRAP FOR CHANNEL OR WALL MOUNTING

Cat. No.	Pipe Size	A	B	Hole Size	Stock Size	Design Load Lbs.	Std. Ctn.
C-708-U-1/2	1/2	2-7/8	2	9/32	1/8 x 1-5/8	650	50
C-708-U-3/4	3/4	3-1/16	2-3/16	9/32	1/8 x 1-5/8	650	50
C-708-U-1	1	3-3/8	2-1/2	9/32	1/8 x 1-5/8	650	50
C-708-U-1-1/4	1-1/4	3-11/16	2-3/16	9/32	1/8 x 1-5/8	650	25
C-708-U-1-1/2	1-1/2	3-15/16	3-1/16	9/32	1/8 x 1-5/8	650	25
C-708-U-2	2	5-3/4	4-1/8	7/16	1/4 x 1-5/8	650	25
C-708-U-2-1/2	2-1/2	6-3/16	4-9/16	7/16	1/4 x 1-5/8	1000	25
C-708-U-3	3	6-3/16	5-3/16	7/16	1/4 x 1-5/8	1000	25
C-708-U-3-1/2	3-1/2	7-5/16	5-11/16	7/16	1/4 x 1-5/8	1000	25
C-708-U-4	4	7-13/16	6-3/16	7/16	1/4 x 1-5/8	1200	25
C-708-U-5	5	8-7/8	7-1/4	7/16	1/4 x 1-5/8	1200	10
C-708-U-6	6	9-15/16	8-5/16	7/16	1/4 x 1-5/8	1200	10



Carbon Steel



PIPE CLAMPS

Superstrut® Thomas&Betts



- **One-piece, heavy-duty construction** ready to install right out of the box.
- **Installs quickly and securely** using one hand.
- **Reconfigure wiring without complete disassembly.** Remove cables easily without disturbing neighboring clamps.
- **Clear markings** on each clap identify the catalog number, min./max. outer cable diameters, EMT/Rigid trade sizes, CSA and UL stamps.
- **One size clamp** works on equal trade sizes for both EMT and rigid conduit.
- **Works with all depths of strut** - 13/16" to 3-1/4".
- **Two hooks on the same side** make the clamp easy to install and keep conduits and cable square with strut.
- **Rugged stirrup and wide saddle design** holds securely with no damage to conduit or cable.
- **Suggested design load is 200 lbs.** (1/2" to 2"); 350 lbs. (2-1/2" to 4") Safety factor 4:1 (safety factor = ratio of ultimate load to the design load).
- **Heavy-duty 5/16" hex bolt with multi-driver head** (Robertson square, Phillips cross-recess and slot).
- **Bright zinc finish** - clamps are electrogalvanized after fabrication for additional durability.

CAT. NUMBER	FOR EMT AND RIGID CONDUIT TRADE SIZE	CABLE O.D. RANGE (IN.)	STATIC LOAD LIMIT (LB) SAFETY FACTOR = 4
Electro Galvanized Steel			
CPC050	1/2"	0.650 - 0.890	200
CPC075	3/4"	0.860 - 1.110	200
CPC100	1"	1.100 - 1.400	200
CPC125	1-1/4"	1.400 - 1.725	200
CPC150	1-1/2"	1.690 - 1.980	200
CPC200	2"	1.980 - 2.576	200
CPC250	2-1/2"	2.576 - 3.060	350
CPC300	3"	3.060 - 3.626	350
CPC350	3-1/2"	3.626 - 4.126	350
CPC400	4"	4.126 - 4.626	350
316 Stainless Steel			
CPC050SS6	1/2"	0.650 - 0.890	200
CPC075SS6	3/4"	0.860 - 1.110	200
CPC100SS6	1"	1.100 - 1.400	200
CPC125SS6	1-1/4"	1.400 - 1.725	200
CPC150SS6	1-1/2"	1.690 - 1.980	200
CPC200SS6	2"	1.980 - 2.576	200
CPC250SS6	2-1/2"	2.576 - 3.060	350
CPC300SS6	3"	3.060 - 3.626	350
CPC350SS6	3-1/2"	3.626 - 4.126	350
CPC400SS6	4"	4.126 - 4.626	350

Stainless steel bolt head is hexagonal and slotted only. Not available in aluminum.



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KING COBRA™ CABLE & PIPE CLAMPS With GoldGalv® Finish

Superstrut® Thomas&Betts

- **Durable** one-piece, heavy-duty steel construction.
- **Embosses on shoulder and hooks** increase loading capability and durability, preventing deformation of clamps.
- **Increased corrosion protection*** - GoldGalv® (yellow zinc dichromate) finish stands up to harsh industrial applications.
- **Clear markings** on each clamp identify the catalog number, min./max. outer cable diameters, EMT/Rigid trade sizes, CSA and UL stamps.
- **One size clamp** works on equal trade sizes for both EMT and rigid conduit.
- **Works with all depths of strut** - 13/16" to 3-1/4".
- **Two hooks on the same side** make the clamp easy to install and keep conduits and cable square with strut.
- **Rugged stirrup and wide saddle design** holds securely with no damage to conduit or cable.
- **Suggested design load is 350 lbs.** (1/2" to 2-1/2"); 450 lbs. (3" to 4"). Safety factor 4:1 (safety factor = ratio of ultimate load to the design load).
- **Heavy-duty 5/16" hex bolt with multi-driver head** (Robertson square, Phillips cross-recess and slot).



*Compared to conventional electrogalvanization

CAT. NUMBER	FOR EMT AND RIGID CONDUIT TRADE SIZE	CABLE O.D. RANGE (IN.)	STATIC LOAD LIMIT (LB) SAFETY FACTOR = 4
GoldGalv® Finish			
KCPC050	1/2"	0.650 - 0.890	350
KCPC075	3/4"	0.860 - 1.110	350
KCPC100	1"	1.100 - 1.400	350
KCPC125	1-1/4"	1.400 - 1.725	350
KCPC150	1-1/2"	1.690 - 1.980	350
KCPC200	2"	1.980 - 2.576	350
KCPC250	2-1/2"	2.576 - 3.060	350
KCPC300	3"	3.060 - 3.626	450
KCPC350	3-1/2"	3.626 - 4.126	450
KCPC400	4"	4.126 - 4.626	450
316 Stainless Steel			
KCPC050SS6	1/2"	0.650 - 0.890	350
KCPC075SS6	3/4"	0.860 - 1.110	350
KCPC100SS6	1"	1.100 - 1.400	350
KCPC125SS6	1-1/4"	1.400 - 1.725	350
KCPC150SS6	1-1/2"	1.690 - 1.980	350
KCPC200SS6	2"	1.980 - 2.576	350
KCPC250SS6	2-1/2"	2.576 - 3.060	350
KCPC300SS6	3"	3.060 - 3.626	450
KCPC350SS6	3-1/2"	3.626 - 4.126	450
KCPC400SS6	4"	4.126 - 4.626	450

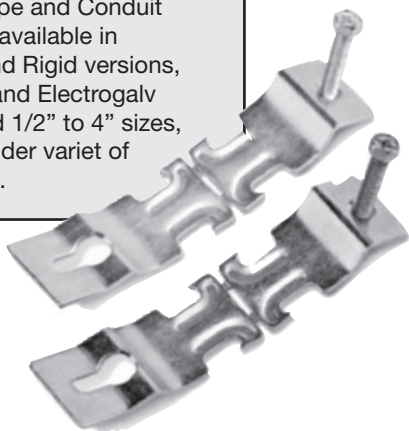
Stainless steel bolt head is hexagonal and slotted only.



ANGLER™ PIPE & CONDUIT CLAMPS



Angler™ Pipe and Conduit Clamps are available in Universal and Rigid versions, Galvkrom® and ElectroGalv finishes, and 1/2" to 4" sizes, to meet a wider variety of applications.



Superstrut™ Thomas&Betts

- **Angler™ makes it simple** to reach bolts with a screwdriver or power tool, even when clamps are installed side by side.
- **Fast Installation.** Keyhole-shaped opening enables bolt to be fed through strap without first being unthreaded.
- **Convenient, One-Piece Design.** No disassembly.
- **Superior Load Performance.** The highest load ratings of any break-apart strap in the industry. Integrated, rolled threading provides the load performance of a hex nut without the extra hardware.
- **Galvkrom® Outperforms Other Finishes.** Gold color matches Kindorf® strut systems and outperforms other finishes for corrosion protection, abrasion resistance, and service life.
- **Also available in ElectroGalv Finish.** Versatile silver color matches other pre-galvanized or green painted strut systems.

UNIVERSAL SERIES

FOR EMT, IMS, RIGID, AND STANDARD PIPE

CAT. NUMBER	SIZE	STRAP THICKNESS	DESIGN LOAD (LBS.)	TORQUE (IN. LBS.)
Galvkrom® Finish				
C 109 1/2	1/2"	14 ga.	400	40
C 109 3/4	3/4"	14 ga.	500	40
C 109 1	1"	14 ga.	500	40
C 109 1 1/4	1-1/4"	14 ga.	500	40
C 109 1 1/2	1-1/2"	12 ga.	800	60
C 109 2	2"	12 ga.	800	60
C 109 2 1/2	2-1/2"	12 ga.	800	60
C 109 3	3"	12 ga.	800	60
C 109 3 1/2	3-1/2"	11 ga.	1200	60
C 109 4	4"	11 ga.	1200	60
ElectroGalv® Finish				
C 109 1/2 EG	1/2"	14 ga.	400	40
C 109 3/4 EG	3/4"	14 ga.	500	40
C 109 1 EG	1"	14 ga.	500	40
C 109 1 1/4 EG	1-1/4"	14 ga.	500	40
C 109 1 1/2 EG	1-1/2"	12 ga.	800	60
C 109 2 EG	2"	12 ga.	800	60
C 109 2 1/2 EG	2-1/2"	12 ga.	800	60
C 109 3 EG	3"	12 ga.	800	60
C 109 3 1/2 EG	3-1/2"	11 ga.	1200	60
C 109 4 EG	4"	11 ga.	1200	60



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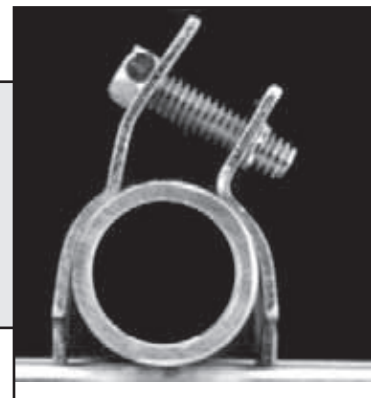
ANGLER™ PIPE & CONDUIT CLAMP**Superstrut® Thomas&Betts****RIGID SERIES****FOR RIGID CONDUIT AND STANDARD PIPE**

CAT. NUMBER	SIZE	STRAP THICKNESS	DESIGN LOAD (LBS.)	TORQUE (IN. LBS.)
Galvkrom® Finish				
C 109 1/2	1/2"	14 ga.	600	40
C 109 3/4	3/4"	14 ga.	600	40
C 109 1	1"	14 ga.	600	40
C 109 1 1/4	1-1/4"	14 ga.	600	40
C 109 1 1/2	1-1/2"	12 ga.	800	60
C 109 2	2"	12 ga.	800	60
C 109 2 1/2	2-1/2"	12 ga.	800	60
C 109 3	3"	12 ga.	800	60
C 109 3 1/2	3-1/2"	11 ga.	1200	60
C 109 4	4"	11 ga.	1200	60
ElectroGalv® Finish				
C 109 1/2 EG	1/2"	14 ga.	600	40
C 109 3/4 EG	3/4"	14 ga.	600	40
C 109 1 EG	1"	14 ga.	600	40
C 109 1 1/4 EG	1-1/4"	14 ga.	600	40
C 109 1 1/2 EG	1-1/2"	12 ga.	800	60
C 109 2 EG	2"	12 ga.	800	60
C 109 2 1/2 EG	2-1/2"	12 ga.	800	60
C 109 3 EG	3"	12 ga.	800	60
C 109 3 1/2 EG	3-1/2"	11 ga.	1200	60
C 109 4 EG	4"	11 ga.	1200	60

Hex head size 3/8" for 1/2" to 1-1/4" sizes,
1/2" for 1-1/2" to 4" sizes.

Material: Stamped Steel.

Pipe sizes 2-1/2" to 4" utilize the same clamps for the
Rigid Series and the Universal Series.





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TO OUR CUSTOMERS . . .

This section of the catalog includes information for many commonly used fasteners.

Other special types may also be available, so be sure to call us with your special needs.

The first seventeen pages pertain to "Fastener Technical Data & Charts".

This information was gathered from reputable sources and manufacturers in the fastener industry.

Although we have tried to be as accurate as possible, please be sure to read the "Important Disclaimer" below before utilizing any of this information.

FASTENER TECHNICAL DATA AND CHARTS SECTION IMPORTANT DISCLAIMER

All of the information provided in this section has been assembled with concern for accuracy.

It is intended for advisory purposes only and use of this information is completely voluntary. We do not guarantee its completeness or validity and assume no responsibility for any loss, claims or damages resulting from use or application of this information. All information is subject to change without prior notice.

BE SURE TO VERIFY!

We will gladly provide specific product information and certifications prior to your purchase.

Our sales staff can answer most questions and offer suggestions.

Remember, if you need an unlisted item, it may be in stock or we may be able to get it for you quickly.



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FASTENER TECHNICAL DATA & CHARTS

Stainless Steel

DESCRIPTION

Stainless Steels are broadly defined as Iron alloys containing from 12 to 30% Chromium and from 0 to 20% Nickel. This analysis is further modified by additions of Carbon and other minor elements which contribute specific effects either to control mechanical properties or to improve corrosion resistance. The corrosion resistance of Stainless Steels is attributed to a surface phenomenon, passivity. When oxygen comes in contact with the surface it forms an invisible film which protects the underlying metal from rusting and corrosion under severe environment.

CHARACTERISTICS

The family of Stainless Steels is divided into three general classifications:

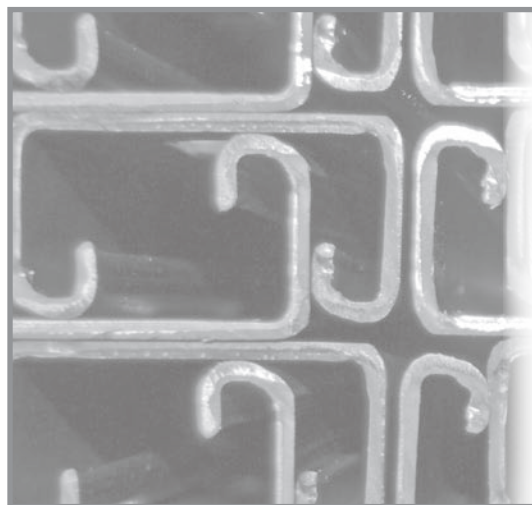
"Austenitic" Stainless Steels make up the general group of the 18-8 (or 300) series. They are the Chromium-Nickel type containing upwards of 8% Nickel. They are not hardenable by heat treatment, non-magnetic for practical purposes and offer the greatest degree of corrosion resistance.

"Martensitic" Stainless Steels contain from 12 to 20% Chromium. They are magnetic and hardenable. Type 410 and 416, common fastening alloys, are Martensitic Stainless Steels.

"Ferritic" alloys are also Chromium Stainless Steel alloys. They are magnetic and not hardenable by heat treatment. Type 430 is an example.

USES

There are almost as many uses for Stainless Steel fastenings as there are problems of corrosion, temperature and strength. Because of its high tensile strength, corrosion resistant qualities and ability to attain a mirror-like finish it is one of the most versatile of all metals. Applications include its use in the petroleum, chemical, food, plumbing, transportation and oil equipment industries to mention just a few. Listed on page 139 are the types of various Stainless Steel alloys which are most frequently used in the manufacture of fastenings.



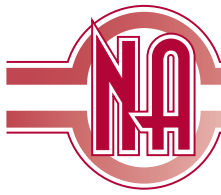
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Standard Stainless Steel Specifications

Type 301: Cr. 18, Ni. 8 (18-8 type), austenitic, hardenable by cold work only; t.s., 80-270,000 psi; y.s. 30-240,000 psi.; elongation in 2 in., 40-5%. In rods, bars, billets, wire, sheet, plate, strip and tubing. For parts requiring good corrosion resistance combined with high tensile strength and good ductility.

Type 302: Cr. 18, Ni. 8 (18-8 type), austenitic, hardenable by cold work only; t.s. 80-250,000 psi.; y.s. 30-225,000 psi.; elongation in 2 in., 60-5%; fair machinability excellent cold forming and welding properties. Furnished in sheet, strip, plate, bar, rod, forging billets and tube rounds, tubing, cold drawn shapes and structural shapes. For parts in acid handling food and dairy equipment; shafting, bearing plates, heat exchanger tubes, hydraulic tubing, piston rods, plungers, etc.

Type 303: Cr. 18, Ni. 8 (18-8 type), austenitic, hardenable by cold work only; t.s., 80-200,000 psi.; y.s. 30-135,000 psi.; elong. in 2 in. 55-10%; good machinability; fair cold forming and welding properties. In sheet, strip, plate, bar, rod, forging billets, tube rounds, tubing, cold drawn and structural shapes. For working parts in pumps and valves which must resist corrosion; screw machine parts requiring strength, good corrosion resistance.

Type 304: Cr. 18, Ni. 8 (18-8 type), austenitic, hardenable by cold work only; t.s., 85-250,000 psi; y.s., 30-225,000 psi; elongation in 2 in. 60-5%; slightly better corrosion resistance than Type 302. Furnished in rods, bars, billets, wire, sheet, plate strip, tubing and castings. For parts in chemical equipment such as shafting, bearing plates, heat exchanger tubes, etc.

Type 309: Cr. 25, Ni. 12 (25-12 type), austenitic, hardenable by cold work only; t.s., 95-190,000 psi.; y.s. 45-165,000 psi.; elong. in 2 inches, 50-5%; resists scaling to 2000°F, fair machinability, good cold C forming properties, excellent weldability. Furnished in sheet, strip, plate, bar, rod, forging billets, tube rounds, tubing, cold drawn shapes and structural shapes. For parts that must operate continuously at high temperatures; oil burner parts, furnace parts, heat exchangers, air heaters, baffle plates, etc.

Type 310: Cr. 25, Ni. 20 (25-20 type), austenitic, hardenable by cold work only; t.s., annealed, 70-155,000 psi.; elong. in 2 in., 55-5% good weldability, drawing, stamping properties; fair machinability. In sheet, strip, plate, bar, rod, forging billet, tube rounds, tubing, cold drawn, structural shapes. For parts subject to intermittent heating and cooling; oil burner parts, heat exchangers; dye house, paper mill, chemical equipment.

Type 316: Cr. 18, Ni. 12, No. 3 (18-12-3 type), austenitic, hardenable by cold work only; t.s., 80-170,000 psi; y.s., 35-150,000 psi; elong. in 2 in., 55-5% fair machinability; excellent welding, cold forming properties. Best creep strength at high temp. and best corrosion resistance of all grades. In sheet, strip, plate, bar, rod, forging billets, tube rounds, tubing, cold drawn and structural shapes.

Type 321: Cr. 18, Ni. 8, Ti. 4 x C min.; austenitic hardenable by cold work only; t.s., 80-170,000 psi.; y.s., 30-145,000 psi.; elong. in 2 in., 55-5%; fair machinability, excellent welding and cold forming properties. In sheet, strip, plate, bar, rod, forging billets, tube rounds, tubing, cold drawn shapes, structural shapes. For welded parts not annealed after welding or which operate at 800-1200°F; aircraft engine exhaust rings, flanges, etc.

Type 347: Cr. 8, Ni. 18, Cr. 8 x C min.; austenitic, hardenable by cold work only; t.s. 80-170,000 psi.; y.s., 30-150,000 psi.; elong. in 2 in. 50-5%; fair machinability, excellent welding and cold forming properties. In sheet, strip, plate, bar, rod, forging billets, tube rounds, tubing cold drawn and structural shapes. For welded parts not annealed after welding or which operate at 800-1200°F; aircraft engine exhaust rings, flanges, etc.

Type 410: Cr. 12 (straight chromium type), hardenable by heat treatment; t.s., 60-180,000 psi; y.s.30-160,000 psi.; elong. in 2 in., 30-15%, good machinability, cold forming properties; good welding properties when annealed; most popular forging grade. In sheet, strip, plate, bar, rod, forging billets, tube rounds, tubing, cold drawn and structural shapes. Used where corrosion not severe, for bolts, nuts, shafting turbine blading, valve trim, heat treated parts; where hardness, toughness, desired.

Type 416: Cr. 12 (straight chromium type with sulphur or selenium added); excellent machinability; t.s., 70-170,000 psi; y.s., 4-140,000 psi; elong. in 2 in. 30-10%; fair cold forming properties, fair corrosion resistance. In bar, rod, forging billets, wire, cold drawn shapes. For mass production machined parts; Carburetor, instrument and electrical parts; screw machine parts.

Type 420: Cr. 13, C. 35; a widely used stainless cutlery steel. In the hardened and tempered condition, it combines an adequate hardness and cutting edge with good flexibility. It retains a bright polished finish and can be hardened to Rockwell C55. Maximum corrosion resistance is obtained in the hardened condition.

Type 420F: Cr. 13, C.35; free machining; has sulphur intentionally added to the base Type 420 analysis to make it easier to machine, grind and polish. Type 420°F has practically the same mechanical hardness, and corrosion resisting properties as Type 420.

Type 430: Cr. 17 (straight chromium type), non-hardenable by heat treatment; resists scaling to 1500°F; excellent cold heading properties, excellent machinability; does not discolor in atmosphere. t.s., 60-85,000 psi.; y.s. 35-55,000 psi.; elongation in 2 in. 35-20%. Furnished in sheet, strip, plate, bar, rod, forging billets, tube rounds, tubing, cold drawn shapes and structural shapes. For press plates, oil burner parts, screw machine parts, trim for automobiles such as body moldings, hub caps, finishing washers, gas tank caps, etc.; also trim for appliances.

Type 430F: Cr. 17 with 0.07 S. or Se.; straight chromium free machining type, non-hardenable by heat treatment; t.s., 60-85,000 psi.: 35-55,000 psi.: elong. in 2 in., 25-10% excellent machinability, fair cold forming properties. In forging billets, hot-rolled and cold-finished bars, wire and polished shafting. Particularly suitable for parts requiring considerable machining and only moderate corrosion resistance; screw machine parts.

Type 431: Cr. 16, Ni. 2 (straight chromium type), hardenable by heat treatment: t.s., 110-200,000 psi.; 80-150,000 psi.; elongation in 2 in., 20-15%; good machinability; fair cold forming properties: resists scaling to 1500°F. Best corrosion resistance of all hardenable stainless steels. Furnished in sheet, strip, plate, bar, rod, forging billets, tube rounds, tubing, cold drawn shapes, structural shapes. For parts requiring excellent physical properties coupled with high corrosion resistance.

Type 440 C and 440 A, B and C: Cr. 17, C 1.00 (straight chromium type) hardenable by heat treatment: t.s., 110-285,000 psi; 60-275,000 psi.: elong. in 2 in., 15-21%; fair machinability., cold forming properties. Types A, B, same analysis except for lower carbon content: less hardenable; Type F, free machining. In sheet, strip, plate, bar, rod, forging billets, tube round tubing, cold drawn and structural shapes; needle, ball check valves; ball bearings, scissors, rules, cutlery, etc.

Types 501 and 502: Type 501, 4/6 Cr. plus Mo. over .10 C. Type 502, 4/6 Cr. plus Mo., over .10 C. maximum. Both types are recommended for use in the petroleum industry. In refinery equipment, particularly where sour crudes are encountered, a life of four to ten times that of mild steel is not uncommon. These alloys are suitable for use at slightly elevated temperatures, and are more resistant to scaling or oxidation than mild steel. Scaling temperature about 1150° Fahrenheit.



FASTENER TECHNICAL DATA & CHARTS

Industry Standards and Specifications

INDUSTRY STANDARDS

Most industrial fasteners are covered by two basic standards: one for materials and properties; the other, for dimensions and tolerances. Specifications for materials and properties are published by the American Society for Testing and Materials (ASTM), although other groups such as the Society of Automotive Engineers (SAE) also publish specifications covering these requirements.

Standards for dimensions and tolerances are issued by the American National Standards Institute (ANSI) in cooperation with the American Society of Mechanical Engineers (ASME) and the Industrial Fasteners Institute (IFI).

Where applicable, published specifications covering a particular fastener will be referenced in the section of this booklet dealing with that fastener.

When referring to standards and specifications, we will use only the well-known initials of the above societies-ANSI, ASME, IFI, ASTM and SAE.

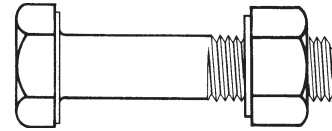
Standard fasteners are basic industrial fasteners - square and hex bolts, cap screws, carriage bolts, plow bolts, lag screws, studs, nuts, rivets and others - which have been standardized over the years as to type, style, usage, properties, dimensions and tolerances.

These include a vast range of sizes and types stocked by distributors and manufacturers for an almost limitless range of applications: the assembly and maintenance of vehicles, appliances, farm equipment, construction equipment, industrial and plant machinery of all kinds, furniture and toys.

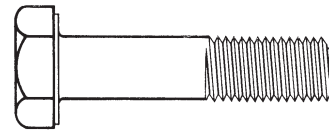
Wherever there's a need for holding parts together, holding them apart, holding them up, or holding them down, a standard fastener can usually be found to do the job efficiently and economically.

Modern industrial fasteners are manufactured to a variety of standards covering dimensions, tolerances, materials, mechanical properties, testing procedures, etc.

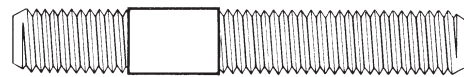
BASIC FASTENER TYPES



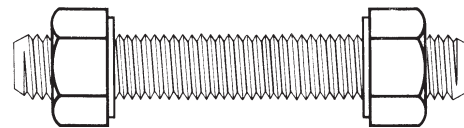
A Bolt is a device with a head on one end of a shank or body and a thread on the other end. Designed for insertion through holes in assembly parts, it is mated with a tapped nut. Tension is normally induced in the bolt to compress the assembly by rotating the nut. This may also be done by rotation of the bolt head.



A Screw is a headed and threaded bolt used without a nut. It is inserted into an internally tapped hole and tension is induced by rotation of the screw head.

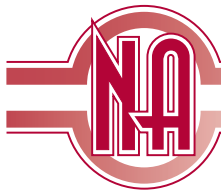


A Stud is a fastener with no head but it has threads at both ends of the shank. It, like a screw, has one end that screws into a tapped hole. A nut is used on the other end to create tension.



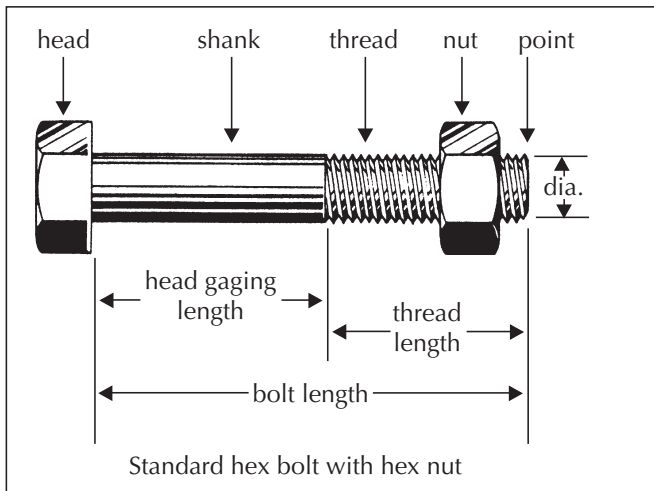
If a stud is threaded its entire shank length and a nut used on both ends to create tension, it serves the function of a bolt and is then classified as a *Stud Bolt*.

Many variations of these basic fastener types are available.



Basic Fastener Data

TERMINOLOGY & MEASUREMENTS

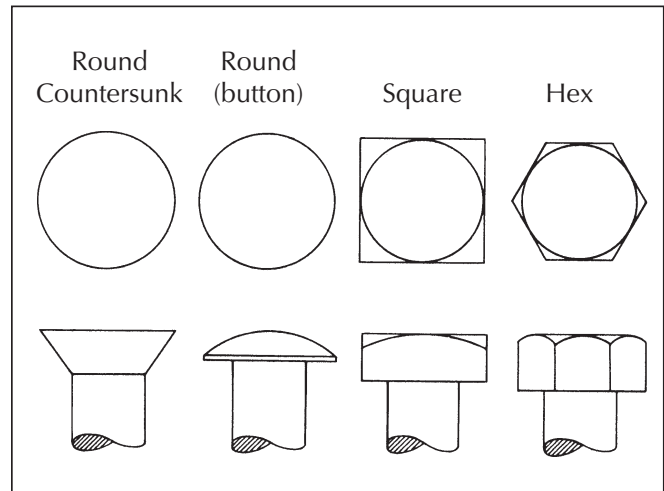


The diameter of all bolts is measured as the outside of major diameter of the thread. The length of a headed bolt is measured from the largest diameter of the bearing surface of the head to the extreme end of the point in a line parallel to the axis of the bolt. For example, square or hex head bolts are measured from under the head to the end of the bolt; a bolt with a countersunk head is measured overall. The point of a bolt is always included in the measured length.

Headless fasteners such as studs are measured overall, including points, except for continuous-thread alloy studs made to ASTM Specification A193. This type is measured from first thread to first thread.

Bolts have various styles of heads. Some of the more popular styles are illustrated above.

STYLES OF HEAD



HEAVY HEADS AND NUTS

Bolt users may require a bolt head or nut of greater width to compensate for wide clearance in bolt holes or unusually heavy loading. For such needs we offer heavy bolt heads or nut sizes. Heavy nuts are quite common and readily available in various types and sizes but heavy head bolts have more limited availability.

BOLT AND NUT BEARING SURFACES

Cold-upset bolts made on a "boltmaker" usually are washer faced but large or very long bolts may have a flat face (not machined). Nuts made on cold "nut-formers" may have double chamfered or washer faces. Large size nuts have hot-forged washer bearing faces, not machined, unless specially ordered.



FASTENER TECHNICAL DATA & CHARTS

Heat Treatment and Mechanical Properties

HEAT TREATMENT

Heat treatment covers various techniques that may be used to develop certain end-product characteristics. Customary procedures for fasteners include annealing, stress relieving, case hardening, direct quench and temper, and carbon restoration.

ANNEALING: A thermal cycle involving heating to, and holding at a suitable temperature and then cooling at a suitable rate, for such purposes as reducing hardness, improving machinability, facilitating cold working, producing a desired microstructure, or obtaining desired mechanical or other properties.

STRESS RELIEVING: A thermal cycle involving heating to a suitable temperature, usually 1000/1200°F, holding long enough to reduce residual stresses from either cold deformation or thermal treatment, and then cooling slowly enough to minimize the development of new residual stresses.

CASE HARDENING: A term descriptive of one or more processes of hardening steel in which the outer portion, or case, is made substantially harder than the inner portion, or core. Most of the processes involve either enriching the surface layer with carbon and/or nitrogen, usually followed by quenching and tempering, or the selective hardening of the surface layer by means of flame or induction hardening.

QUENCHING AND TEMPERING: A thermal process used to increase the hardness and strength of steel. It consists of austenitizing, then cooling at a rate sufficient to achieve partial or complete transformation to martensite. Tempering should follow immediately, and involves reheating to a temperature below the transformation range and then cooling at any rate desired. Tempering improves ductility and toughness, but reduces the quenched hardness by an amount determined by the tempering temperature used.

MECHANICAL PROPERTIES

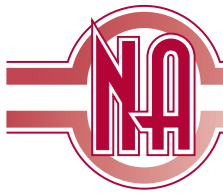
Standard industrial fasteners are manufactured from either carbon or alloy steels. When strength requirements are moderate, low-carbon steel is used. High-strength fasteners are made from medium-high carbon or alloy steels and are heat treated to develop desired properties. Most fasteners are covered by specifications that define required mechanical properties such as tensile strength, yield strength, proof load, and hardness.

TENSILE STRENGTH: The maximum tensile stress in pounds per sq. in. which a material is capable of sustaining, as developed by a tension test.

YIELD STRENGTH: The stress at which a material exhibits a specified deviation from the proportionality of stress to strain. The deviation is expressed in terms of strain, and in the offset method, usually a strain of 0.2 percent is specified.

PROOF LOAD: The point to which a material may be stressed without evidence of permanent deformation.

HARDNESS: The resistance of a material to plastic deformation. Usually measured in steels by the Brinell, Rockwell, or Vickers indentation-hardness test methods.



Screw Threads

THREAD FORMS: Screw threads are spiral grooves produced on the outside of a bolt (external threads) or machined inside a nut (internal threads). Four thread forms have been established by the ANSI: UN (internal and external threads), UNR (external threads only), UNK (external threads only), UNJ (internal and external threads).

CUT VS. ROLL THREADS: The terms “rolled thread” and “cut thread” refer solely to the physical characteristics of commercial bolts or studs, not to the method of thread production. A cut-thread bolt has a shank diameter equal to the threaded diameter; a rolled-thread bolt has a shank diameter less than the threaded diameter.

CLASSES OF THREAD FIT: Classes of thread fit are distinguished from each other by the amounts of tolerance specified. Classes 1A, 2A, and 3A apply to external threads; Classes 1B, 2B and 3B, to internal threads.

Classes 1A and 1B are shown in ANSI standards but are rarely used. Most standard fasteners are produced with a Class 2A fit for bolts and a Class 2B fit for nuts. The Class 2A allowance assures easier assembly of mating parts, minimizes galling and seizing in high-cycle wrench assembly, and can be used to accommodate commercial electroplated finishes. Classes 3A and 3B afford no allowance or clearance for mating parts and are used chiefly for applications where a close tolerance fit is important.

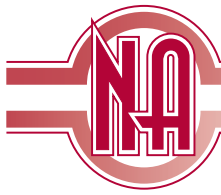
Class 5 is a special interference fit which results in an actual overlap of dimensions when threaded parts are fitted together. It is normally used only on the tap-end of studs.

Threading requirements are designated (1) by the number of threads per inch applied to a specific diameter; (2) by the initial letters of the thread standard (UNR or UN); (3) by the letters C, F, or numeral 8 to indicate coarse-, fine-, or 8-thread series; and (4) by the thread fit. The following example illustrates the method of designating a screw thread:

1/2 in. -13 UNRC-2A	
	where
1/2 in.	= nominal diameter of thread
13	= number of threads per inch
UNR	= thread form standard (Unified National Radius-Root)
C	= coarse-thread series
2A	= class of thread fit

The coarse-thread series (UNRC or UNC) is used on the vast majority of bolts and nuts. Number of threads per inch ranges from 20 threads for a 1/4-in.- diameter bolt to 4 threads for a 4-in.-diameter bolt. The fine-thread series (UNRF or UNF) is found mostly in automotive and aeronautical work. Threads per inch range from 28 threads for a 1/4-in.-diameter bolt to 12 threads for a 1-1/2-in.-diameter bolt. There is no fine-thread standard for fasteners over 1-1/2 in.

The 8-thread series (8UNR or 8UN) is used only for sizes over 1 in. in diameter, usually in high-temperature, high pressure service.



FASTENER TECHNICAL DATA & CHARTS

Identification Markings On Bolt Heads

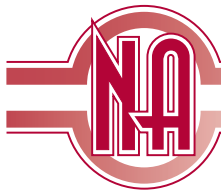
ASTM and SAE Standards Specifications - Proof Loads - Tensile Strengths

Grade Marking	Specification	Material	Bolt and Screw Size Inches	Proof Load psi	Tensile Strength min psi
	SAE-J429 Grade 1	Low or Medium Carbon Steel	1/4 thru 1-1/2	33,000	60,000
	ASTM-A307		1/4 thru 4		
	SAE-J429 Grade-2	Low or Medium Carbon Steel	1/4 thru 3/4	55,000	74,000
			Over 3/4 thru 1-1/2	33,000	60,000
	SAE-J429 Grade 5	Medium Carbon Steel	1/4 thru 1	85,000	120,000
			Over 1 thru 1-1/4	74,000	105,000
	ASTM-A449	Quenched and Tempered	1/4 thru 1	85,000	120,000
			Over 1 thru 1-1/2	74,000	105,000
			Over 1-1/2 thru 3	55,000	90,000
	ASTM-A325 Type 1	Medium Carbon Steel Quenched and Tempered	1/2 thru 1-1/2	85,000	120,000
			Over 1 thru 1-1/2	74,000	105,000
*	ASTM-A325 Type 2	Low Carbon Martensite Steel Quenched and Tempered	1/2 thru 1	85,000	120,000
	ASTM-A325 Type 3	Weather Resistant Steel Quenched and Tempered	1-1/8 thru 1-1/2	74,000	105,000
			1/2 thru 1	85,000	120,000
	ASTM-A354 Grade BB	Low Alloy Steel Quenched and Tempered	1/4 thru 2-1/2	80,000	105,000
			Over 2-1/4 thru 4	75,000	100,000
	ASTM-A354 Grade BC	Alloy Steel Quenched and Tempered	1/4 thru 4	105,000	125,000
			Over 2-1/2 thru 4	95,000	115,000
	SAE-J429 GRADE 8	Medium Carbon Alloy Steel Quenched and Tempered	1/4 thru 1-1/2	120,000	150,000
	ASTM-A354 Grade BD	Alloy Steel Quenched and Tempered			
	ASTM-A490 Type 1	Alloy Steel Quenched and Tempered	1/2 thru 1-1/2	120,000	150,000

*Radial lines on Type 1 bolts are optional to manufacturer.

*On Type 2 bolts radial lines 60 degrees apart are required.

Bolt Head markings include manufacturers identity symbols.



FASTENER TECHNICAL DATA & CHARTS

SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA

Tightening Torque For Screws, Bolts & Nuts

TABLE I - TORQUE COEFFICIENTS - K

Bolt Size	Theoretical ¹ K	Measured K (average)	
		High-point torque	Mid-point torque
1/4 -20	0.210	0.243	0.267
1/4 -28	0.205	0.216	0.231
5/16 -18	0.210	0.206	0.186
5/16 -24	0.205	0.194	0.183
3/8 -16	0.204	0.200	0.247
3/8 -24	0.198	0.192	0.234
7/16 -14	0.205	0.217	0.224
7/16 -20	0.200	0.194	0.190
1/2 -13	0.201	0.205	0.158
1/2 -20	0.195	0.167	0.205
9/16 -12	0.198	0.194	0.214
9/16 -18	0.193	0.196	0.207
5/8 -11	0.199	0.178	0.196
5/8 -18	0.193	0.183	0.175
3/4 -10	0.194	0.169	0.172
3/4 -16	0.189	0.170	0.180
7/8 - 9	0.194	0.181	0.194
7/8 -14	0.189	0.171	0.178
1 - 8	0.193	0.188	0.204
1 -14	0.188	0.161	0.167
Average	0.198	0.191	0.201

NOTE: 1. Computed with coefficient of friction of 0.15 and the dimensions of American National Standard Hex Nut.

TABLE II - TORQUE COEFFICIENTS - COMPUTED

Size	Hex Nut				Hex Cap Screw (Finished Hex Bolt)	Heavy Hex Screw
	K1	K2	K3	K	K	K
1/4-20	0.1055	0.0753	0.0318	0.213	0.213	0.223
1/4-28	0.1055	0.0786	0.0227	0.207	0.207	0.218
5/16-18	0.0993	0.0766	0.0284	0.204	0.204	0.213
5/16-24	0.0993	0.0790	0.0212	0.200	0.200	0.208
3/8-16	0.0950	0.0772	0.0265	0.199	0.199	0.213
3/8-24	0.0950	0.0802	0.0176	0.193	0.193	0.207
7/16-14	0.0980	0.0772	0.0260	0.201	0.196	0.207
7/16-20	0.0980	0.0800	0.0181	0.196	0.190	0.202
1/2-13	0.0950	0.0780	0.0245	0.198	0.198	0.208
1/2-20	0.0950	0.0811	0.0159	0.192	0.192	0.203
9/16-12	0.0970	0.0781	0.0235	0.199	0.195	0.202
9/16-18	0.0970	0.0811	0.0157	0.194	0.191	0.197
5/8-11	0.0950	0.0783	0.0231	0.196	0.196	0.205
5/8-18	0.0950	0.0816	0.0141	0.191	0.191	0.199
3/4-10	0.0950	0.0790	0.0212	0.195	0.195	0.203
3/4-16	0.0950	0.0819	0.0132	0.190	0.190	0.198
7/8- 9	0.0950	0.0793	0.0201	0.194	0.194	0.201
7/8-14	0.0950	0.0819	0.0130	0.190	0.190	0.196
1 - 8	0.0950	0.0795	0.0199	0.194	0.194	0.200
1-14	0.0950	0.0826	0.0109	0.189	0.189	0.194
Average				0.197	0.196	0.205

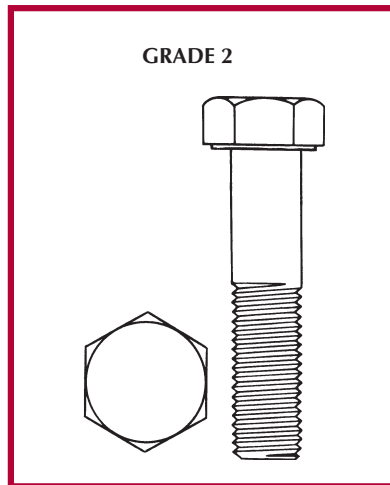
NOTE: K1 + K2 + K3 = K



FASTENER TECHNICAL DATA & CHARTS

Cap Screws

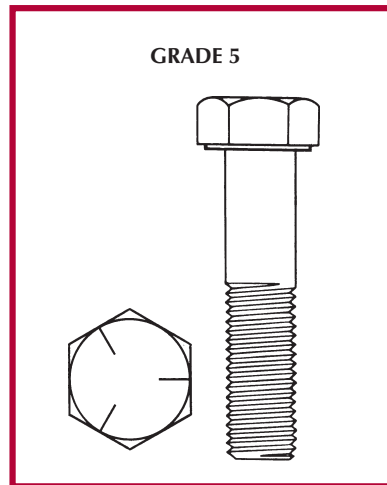
SAE Standard J429 - Grades 2, 5 and 8



Grade 2

Low-carbon bright $\frac{1}{4}$ in. to $1\frac{1}{2}$ in. inclusive, with minimum tensile strength of 74,000 psi in diameters through $\frac{3}{4}$ in. and 60,000 psi for diameters over $\frac{3}{4}$ in. through $1\frac{1}{2}$ in.

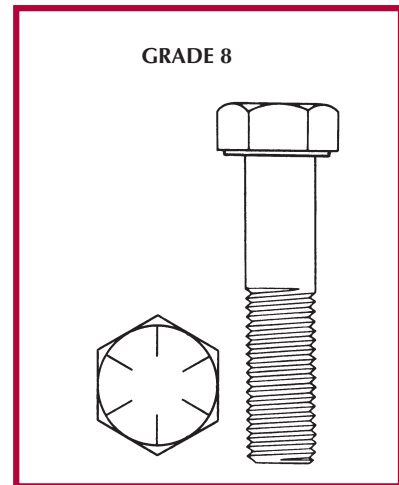
Warning to fine thread users! Grade 2 is not recommended for use with fine threads. We suggest the use of Grade 5 because of superior resistance to stripping during tightening. Grade 2 may be used as an alternate for ASTM A307 Grade A.



Grade 5

Medium-carbon, heat treated in a carbon controlled atmosphere, $\frac{1}{4}$ in. to $1\frac{1}{2}$ in., inclusive, with minimum tensile strength of 120,000 psi in diameters through 1 in. and 105,000 psi for diameters over 1 in. through $1\frac{1}{2}$ in.

Grade 5 will also meet other specifications such as ASTM A449.



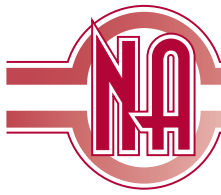
Grade 8

Alloy, heat treated in a carbon controlled atmosphere, $\frac{1}{4}$ in. to 1 in., inclusive, with minimum tensile strength of 150,000 psi.

Grade 8 will also meet ASTM specification A354 Grade BD.

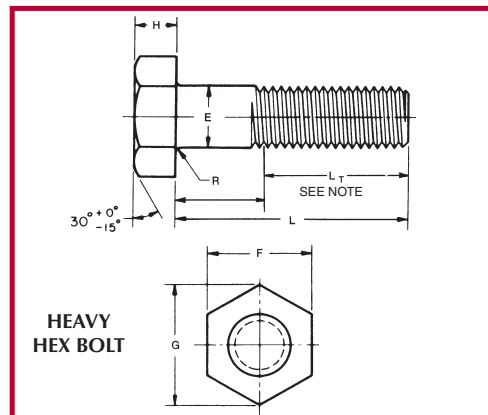
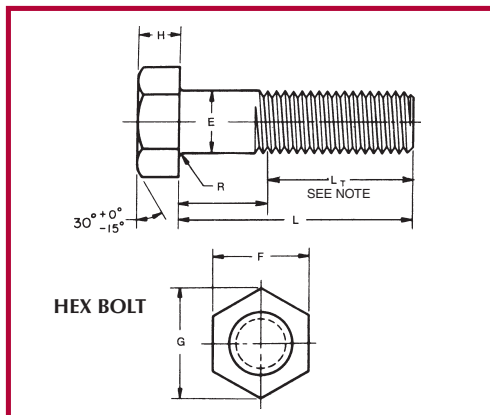
BE SURE TO VERIFY!

We will gladly provide specific product information and certifications prior to your purchase.



Bolts - Hex And Heavy Hex

ASTM A307 Grade A and B Mechanical Properties



Hex bolts are available in two dimensional standards:

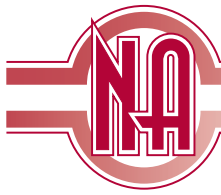
- **The heavy hex bolt** has a head dimension averaging approximately 1/8" wider across the flats than the standard hex bolt. It is generally used for applications where maximum bearing area is required.
- **Hex bolts** are offered with UNRC-2A threads in diameters ranging from 1/4" through 2". Heavy hex bolts with UNRC-2A threads are offered in diameters of 1/2" to 1-1/2" inclusive.

Hex bolts of heat treated carbon or alloy steel are available from cap-screw stock.

SPECIAL NOTE:

Hex bolts in a size range from 1/4" thru 3/4" in diameter and in lengths 8" and shorter are often shipped from Cap-screw stock at the Hex bolt price. However, when ordered as hex bolts there is no guarantee that they will meet all Cap-screw requirements.

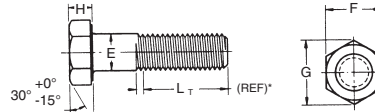
DIMENSIONAL DATA FOR BOTH TYPES IS SHOWN ON NEXT PAGE



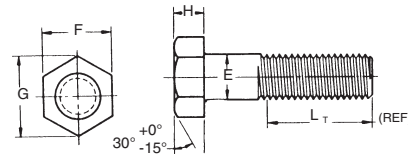
FASTENER TECHNICAL DATA & CHARTS

Bolts - Hex and Heavy Hex

HEX HEAD CAP SCREWS



Nominal Size or Basic Screw Dia.	E		F			G		H			L _T (Ref)*	
	Body Dia.		Width Across Flats			Width Across Corners		Height			Thread Length	
	Max.	Min.	Basic	Max.	Min.	Max.	Min.	Basic	Max.	Min.	For Screw Lengths ≤6 in.	For Screw Lengths >6 in.
1/4	0.2500	0.2450	7/16	0.438	0.428	0.505	0.488	5/32	0.163	0.150	0.750	1.000
5/16	0.3125	0.3065	1/2	0.500	0.489	0.577	0.557	13/64	0.211	0.195	0.875	1.125
3/8	0.3750	0.3690	9/16	0.562	0.551	0.650	0.628	15/64	0.243	0.226	1.000	1.250
7/16	0.4375	0.4305	5/8	0.625	0.612	0.722	0.698	9/32	0.291	0.272	1.125	1.375
1/2	0.5000	0.4930	3/4	0.750	0.736	0.866	0.840	5/16	0.323	0.302	1.250	1.500
9/16	0.5625	0.5545	13/16	0.812	0.798	0.938	0.910	23/64	0.371	0.348	1.375	1.625
5/8	0.6250	0.6170	15/16	0.938	0.922	1.083	1.051	25/64	0.403	0.378	1.500	1.750
3/4	0.7500	0.7410	1 1/8	1.125	1.100	1.299	1.254	15/32	0.483	0.455	1.750	2.000
7/8	0.8750	0.8660	1 1/4	1.312	1.285	1.516	1.465	35/64	0.563	0.531	2.000	2.250
1	1.0000	0.9900	1 1/2	1.500	1.469	1.732	1.675	39/64	0.627	0.591	2.250	2.500
1 1/8	1.1250	1.1140	1 11/16	1.688	1.631	1.949	1.859	11/16	0.718	0.658	2.500	2.750
1 1/4	1.2500	1.2390	1 7/8	1.875	1.812	2.165	2.066	25/32	0.813	0.749	2.750	3.000
1 3/8	1.3750	1.3630	2 1/16	2.062	1.994	2.382	2.273	27/32	0.878	0.810	3.000	3.250
1 1/2	1.5000	1.4880	2 1/4	2.250	2.175	2.598	2.480	15/16	0.974	0.902	3.250	3.500
1 3/4	1.7500	1.7380	2 5/8	2.625	2.538	3.031	2.893	1 3/32	1.134	1.054	3.750	4.000
2	2.0000	1.9880	3	3.000	2.900	3.464	3.306	1 7/32	1.263	1.175	4.250	4.500
2 1/4	2.2500	2.2380	3 3/8	3.375	3.262	3.897	3.719	1 3/8	1.423	1.327	4.750	5.000
2 1/2	2.5000	2.4880	3 3/4	3.750	3.625	4.330	4.133	1 17/32	1.583	1.479	5.250	5.500
2 3/4	2.7500	2.7380	4 1/8	4.125	3.988	4.763	4.546	1 11/16	1.744	1.632	5.750	6.000
3	3.0000	2.9880	4 1/2	4.500	4.350	5.196	4.959	1 7/8	1.935	1.815	6.250	6.500



HEX AND HEAVY HEX BOLTS

Nominal Size or Basic Bolt Dia.	E		F			G		H			L _T (Ref)*	
	Body or Shoulder Dia.		Width Across Flats			Width Across Corners		Height			Thread Length	
	Max.	Basic	Max.	Min.	Max.	Min.	Basic	Max.	Min.	For Bolt Lengths ≤6 in.	For Bolt Lengths >6 in.	
1/4	0.260	7/16	0.438	0.425	0.505	0.484	11/64	0.188	0.150	0.750	1.000	
5/16	0.324	1/2	0.500	0.484	0.577	0.552	7/32	0.235	0.195	0.875	1.125	
3/8	0.388	9/16	0.562	0.544	0.650	0.620	1/4	0.268	0.226	1.000	1.250	
7/16	0.452	5/8	0.625	0.603	0.722	0.687	19/64	0.316	0.272	1.125	1.375	
1/2	0.515	3/4	0.750	0.725	0.866	0.826	11/32	0.364	0.302	1.250	1.500	
5/8	0.642	15/16	0.938	0.906	1.083	1.033	27/64	0.444	0.378	1.500	1.750	
3/4	0.768	1 1/8	1.125	1.088	1.299	1.240	1/2	0.542	0.455	1.750	2.000	
7/8	0.895	1 1/16	1.312	1.269	1.516	1.447	37/64	0.604	0.531	2.000	2.250	
1	1.022	1 1/2	1.500	1.450	1.732	1.653	43/64	0.700	0.591	2.250	2.500	
1 1/8	1.149	1 11/16	1.688	1.631	1.949	1.859	3/4	0.780	0.658	2.500	2.750	
1 1/4	1.277	1 7/8	1.875	1.812	2.165	2.066	27/32	0.876	0.749	2.750	3.000	
1 3/8	1.404	2 1/16	2.062	1.994	2.382	2.273	29/32	0.940	0.810	3.000	3.250	
1 1/2	1.531	2 1/4	2.250	2.175	2.598	2.480	1	1.036	0.902	3.250	3.500	
1 3/4	1.785	2 3/8	2.625	2.538	3.031	2.893	1 5/32	1.196	1.054	3.750	4.000	
2	2.039	3	3.000	2.900	3.464	3.306	1 11/32	1.388	1.175	4.250	4.500	
2 1/4	2.305	3 3/8	3.375	3.262	3.897	3.719	1 1/2	1.548	1.327	4.750	5.000	
2 1/2	2.559	3 3/4	3.750	3.625	4.330	4.133	1 21/32	1.708	1.479	5.250	5.500	
2 3/4	2.827	4 1/8	4.125	3.988	4.763	4.546	1 13/16	1.869	1.632	5.750	6.000	
3	3.081	4 1/2	4.500	4.350	5.196	4.959	2	2.060	1.815	6.250	6.500	
3 1/4	3.335	4 7/8	4.875	4.712	5.629	5.372	2 3/16	2.251	1.936	6.750	7.000	
3 1/2	3.589	5 1/4	5.250	5.075	6.062	5.786	2 5/16	2.380	2.057	7.250	7.500	
3 3/4	3.858	5 3/8	5.625	5.437	6.495	6.198	2 1/2	2.572	2.241	7.750	8.000	
4	4.111	6	6.000	5.800	6.928	6.612	2 11/16	2.764	2.424	8.250	8.500	

* BASIC THREAD LENGTH, L_T, is a reference dimension, intended for calculation purposes only, which represents the distance from the extreme end of the screw or bolt to the last complete (full form) thread.

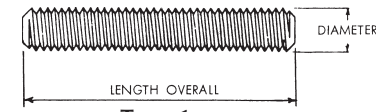


Types of Studs

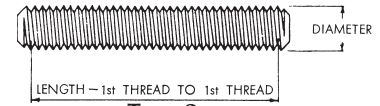
CONTINUOUS THREAD STUDS: Continuous-thread studs are threaded from end to end and are often used for flange bolting with two nuts applied.

Type 1—General purpose. The length of this type is measured from end to end. Threads are UNRC-2A.

Type 2—Studs for temperature-pressure piping. These studs are made to the dimensional standard requirements of ANSI B16.5 and have a length measurement requirement different from all other studs, i.e., the length is measured from first thread to first thread, exclusive of points. Points are flat and chamfered. Threads are UNRC-2A for all sizes 1 in. and under and 8UNR-2A for all sizes over 1 in.

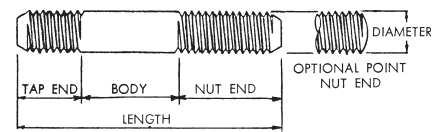


Type 1



Type 2

TAP-END STUDS: Tap-end studs have a short thread on one end, called the tap end which is threaded to a Class NC5 or Class UNRC-3A fit. This end is for screwing into a tapped hole. The other or nut end is threaded with a Class UNRC-2A fit. Length of the stud is measured overall. The tap end has a chamfered point, but the nut end may have either a chamfered or round point, at the manufacturer's option. Tap-end studs are available in four types, as follows:



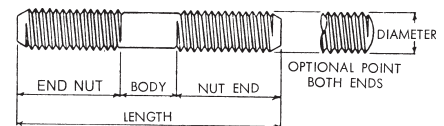
Type 1—Unfinished, have a full diameter but no standard body tolerances.

Type 2—Finished, having either an undersize body with rolled threads or a full-size body with cut threads, at the manufacturer's option. The body portion will be finished to a minimum Class 2A pitch diameter or maximum basic major diameter of the nut-end thread.

Type 3—Finished full-body, having tolerances equal to that on major diameter of Class 2A threads.

Type 4—Finished close-body, milled or ground to tolerances specified by the user.

DOUBLE-END STUDS: Double-end studs have equal-length threads on each end to accommodate a nut and are threaded to a Class 2A fit. Length of stud is measured overall. Both ends have chamfered points, but round points may be furnished on either or both ends at the manufacturer's option. This style is furnished in the same four types listed for tap-end studs. Double-end studs are used for flange bolting or other applications where torquing from both ends is necessary or desirable.



Most steel grades not heat treated or quenched and tempered can be furnished on special order for production quantities. Only the Type 2 continuous thread studs made to specification ASTM A193 grade B7 are stocked in a full range of sizes. Page 155 lists all the commonly available grades of Alloy steel quenched and tempered studs.

Tap end and double end studs are not available from stock - They are available only on special order.



FASTENER TECHNICAL DATA & CHARTS

Heat Treated Alloy Studs, Bolts and Threaded Bars

Commonly used are the following grades of heat-treated alloy steel for high-pressure or extreme temperature service in diameters of 1/2 in. to 2 in., inclusive. Other grades and other diameters are available on special order.

ASTM A354 - Grades BC and BD

Heat treated alloy steels for applications at normal atmospheric temperatures where high strength is required.

ASTM A193 - Grade B7

A heat treated chromium-molybdenum steel widely used for medium high-temperature service.

ASTM A193 - Grade B16

A heat treated chromium-molybdenum-vanadium steel widely used for high-temperature service.

ASTM A320 - Grade L7

This grade is intended for low-temperature service down to minus 150° F and has a minimum Charpy impact value of 15 ft-lb at this temperature. Sizes 2-1/2 in. and under.

ASTM A320 - Grade L43

The same properties offered by Grade L7 in sizes up to 2-1/2 in. are obtainable up to 4 in. in Grade L43.

Heat-treated alloy steel bolts and threaded bars are also available in the grades listed above - bolts in diameters of 3/8 in. to 1-1/4 in., inclusive; bars in diameters of 1/2 in. to 2 in., inclusive. These are available only on special order.

CHEMICAL COMPOSITION

HEAT-TREATED, ALLOY STEEL STUDS

Elements	A354 Grades BC, BD		A193 Grade B7 Chromium Molybdenum (AISI 4140, 4142, 4145)	
	+ See note below			
	Range percent	Check variation over percent	Range percent	Check variation Over or under percent
Carbon	—	—	0.38-0.48	0.02
Manganese	—	—	0.75-1.00	0.04
Phosphorus, max	0.04	0.005	0.04	0.005 over
Sulphur, max	0.04	0.005	0.04	0.005 over
Silicon	—	—	0.20-0.35	0.02
Chromium	—	—	0.80-1.10	0.05
Molybdenum	—	—	0.15-0.25	0.02

Elements	A193 Grade B16, Chromium, Molybdenum, Vanadium	
	Range percent	Check variation Over or under percent
	Carbon	0.36-0.44
Manganese	0.45-0.70	0.03
Phosphorus, max	0.04	0.005 over
Sulphur, max	0.04	0.005 over
Silicon	0.20-0.35	0.02
Chromium	0.80-1.15	0.05
Molybdenum	0.50-0.65	0.03
Vanadium	0.25-0.35	0.03

Elements	A320 Grade L7 Chromium-Molybdenum (AISI 4140, 4142, 4145)		A320 Grade L43 Nickel-Chromium Molybdenum (AISI 4340)	
	Range percent	Check variation over or under percent	Range percent	Check variation Over or under percent
	Carbon	0.38-0.48	0.02	0.38-0.43
Manganese	0.75-1.00	0.04	0.60-0.85	0.03
Phosphorus, max	0.04	0.005 over	0.04	0.005 over
Sulphur, max	0.04	0.005 over	0.04	0.005 over
Silicon	0.20-0.35	0.02	0.20-0.35	0.02
Nickel	—	—	1.65-2.00	0.05
Chromium	0.80-1.10	0.05	0.70-0.90	0.03
Molybdenum	0.15-0.25	0.02	0.20-0.30	0.02

*For bar sizes over 3-1/2 in. to 4 in., inclusive, the carbon content may be 0.50 pct max
+Any alloy steel capable of meeting the tensile requirements of Specification A354 may be used

TENSILE REQUIREMENTS

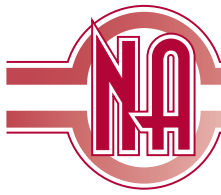
HEAT-TREATED, ALLOY STEEL STUDS

Grade	Diameter, in.	Min. tempering temp F	Tensile strength min psi	Yield point min psi	Elongation in 2 in. min pct	Reduction of area min pct
A354 Grade BC	2-1/2 and under Over 2-1/2 to 4 incl	850	125,000	109,000	16	50
		850	115,000	99,000	16	45
A354 Grade BD	1-1/2 and under	850	150,000	125,000	14	35
A193 Grade B7 Chromium Molybdenum	2-1/2 and under Over 2-1/2 to 4 incl Over 4 to 7 incl	1100	125,000	105,000	16	50
		1100	115,000	95,000	16	50
A193 Grade B16 Chromium Molybdenum Vanadium	2-1/2 and under Over 2-1/2 to 4 incl Over 4 to 7 incl	1200	125,000	105,000	18	50
		1200	110,000	95,000	17	45
A320 Grade L7 Chromium Molybdenum	2-1/2 and under	—	125,000	105,000	16	50
A320 Grade L43 Nickel Chromium Molybdenum	4 and under	—	125,000	105,000	16	50

Not sure?

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Complete Product Literature
and detailed specifications.

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FASTENER TECHNICAL DATA & CHARTS

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Nuts for High-Temperature, High Pressure Service

ASTM A194 - GRADE 2, 2H, 4 AND 7AN STANDARD B18.2.2

For high-temperature, high-pressure in combination with alloy studs and bolts. These nuts are tapped UNC-2B in sizes of 1 in. and under or 8UN-2B over 1 in.

ASTM A194 - GRADE 2

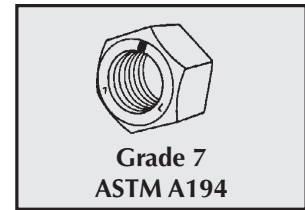
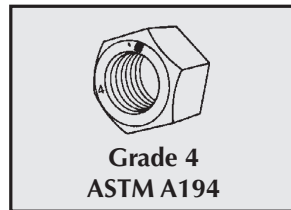
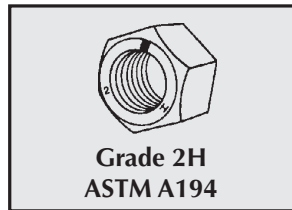
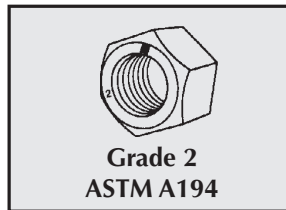
Treated nuts suitable for moderate temperature and pressure conditions.

ASTM A194 - GRADE 2H

Quenched nuts suitable for high-temperature and high-pressure conditions.

ASTM A194 - GRADES 4 AND 7

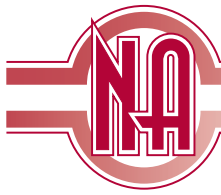
Heat-treated carbon-molybdenum and chromium molybdenum steel nuts suitable for severe temperature and pressure conditions.



Chemical Composition							
Grade	C	Mn	P	S	Si	Mo	Cr
2 and 2H	0.40min	—	0.04 max	0.05 max	—	—	—
4	0.40 to 0.50	0.70 to 0.90	0.035 max	0.04 max	0.20 to 0.35	0.20 to 0.30	—
7	0.38 to 0.48	0.75 to 1.00	0.04 max	0.04 max	0.20 to 0.35	0.15 to 0.25	0.80 to 1.10

Hardness Requirements			
Grade	Brinell	Rockwell B	Rockwell C
2	159 to 352	84 min.	—
2H	248 to 352	—	24 to 38
4 and 7	248 to 352	—	24 to 38

**IF YOU CAN'T FIND THE FASTENER YOUR LOOKING FOR...
CALL US - It may be in stock or we can order it for you!**

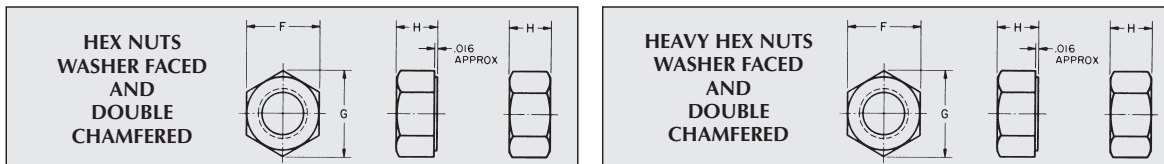


FASTENER TECHNICAL DATA & CHARTS

Nuts - Hex and Heavy Hex

ASTM A563 GRADE A DIMENSIONS

Hex nuts are available in diameters ranging from 1/4 in. to 2 in. Double chamfered through the 1 in. size, and washer faced in sizes over 1 in. Heavy hex nuts are available from 1/4 in. to 4 in., washer faced in the full range of sizes, as well as double chamfered in sizes through 1 in.

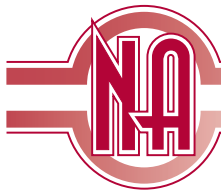


HEX NUTS DIMENSIONS (in.) ANSI B18.22

Nominal Size or Basic Major Dia. of Thread	F - Width Across Flats			G - Width Across Corners		H - Thickness Heavy Hex Nuts			
	Basic	Max.	Min.	Max.	Min.	Basic	Max.	Min.	
1/4	0.2500	7/16	0.438	0.428	0.505	0.488	7/32	0.226	0.212
5/16	0.3125	1/2	0.500	0.489	0.577	0.557	17/64	0.273	0.258
3/8	0.3750	9/16	0.562	0.551	0.650	0.628	21/64	0.337	0.320
7/16	0.4375	11/16	0.688	0.675	0.794	0.768	3/8	0.385	0.365
1/2	0.5000	3/4	0.750	0.736	0.866	0.840	7/16	0.448	0.427
9/16	0.5625	7/8	0.875	0.861	1.010	0.982	31/64	0.496	0.473
5/8	0.6250	15/16	0.938	0.922	1.083	1.051	35/64	0.559	0.535
3/4	0.7500	1 1/8	1.125	1.088	1.299	1.240	41/64	0.665	0.617
7/8	0.8750	1 3/16	1.312	1.269	1.516	1.447	3/4	0.776	0.724
1	1.0000	1 1/2	1.500	1.450	1.732	1.653	55/64	0.887	0.831
1 1/8	1.1250	1 11/16	1.688	1.631	1.949	1.859	31/32	0.999	0.939
1 1/4	1.2500	1 7/8	1.875	1.812	2.165	2.066	1 1/16	1.094	1.030
1 3/8	1.3750	2 1/16	2.062	1.994	2.382	2.273	1 11/64	1.206	1.138
1 1/2	1.5000	2 1/4	2.250	2.175	2.598	2.480	1 9/32	1.317	1.245
1 3/4	1.7500	2 5/8	2.625	2.538	3.031	2.883	1 1/2	1.540	1.460
2	2.0000	3	3.000	2.900	3.464	3.306	1 23/32	1.763	1.675

HEAVY HEX NUTS DIMENSIONS (in.) ANSI B18.22

Nominal Size or Basic Major Dia. of Thread	F - Width Across Flats			G - Width Across Corners		H - Thickness Heavy Hex Nuts			
	Basic	Max.	Min.	Max.	Min.	Basic	Max.	Min.	
1/4	0.2500	1/2	0.500	0.488	0.577	0.556	15/64	0.250	0.218
5/16	0.3125	9/16	0.562	0.546	0.650	0.622	19/64	0.314	0.280
3/8	0.3750	11/16	0.688	0.669	0.794	0.763	23/64	0.377	0.341
7/16	0.4375	3/4	0.750	0.728	0.866	0.830	27/64	0.441	0.403
1/2	0.5000	7/8	0.875	0.850	1.010	0.969	31/64	0.504	0.464
9/16	0.5625	15/16	0.938	0.909	1.083	1.037	35/64	0.568	0.526
5/8	0.6250	1 1/16	1.062	1.031	1.227	1.175	39/64	0.631	0.587
3/4	0.7500	1 1/4	1.250	1.212	1.443	1.382	47/64	0.758	0.710
7/8	0.8750	1 7/16	1.438	1.394	1.660	1.589	55/64	0.885	0.833
1	1.0000	1 5/8	1.625	1.575	1.876	1.796	63/64	1.012	0.956
1 1/8	1.1250	1 13/16	1.812	1.756	2.093	2.002	1 7/64	1.139	1.079
1 1/4	1.2500	2	2.000	1.938	2.309	2.209	1 7/32	1.251	1.187
1 3/8	1.3750	2 3/16	2.188	2.119	2.526	2.416	1 11/32	1.378	1.310
1 1/2	1.5000	2 3/8	2.375	2.300	2.742	2.622	1 15/32	1.505	1.433
1 5/8	1.6250	2 9/16	2.562	2.481	2.959	2.828	1 19/32	1.632	1.556
1 3/4	1.7500	2 3/4	2.750	2.662	3.175	3.035	1 23/32	1.759	1.679
1 7/8	1.8750	2 15/16	2.938	2.844	3.392	3.242	1 27/32	1.886	1.802
2	2.0000	3 1/8	3.125	3.025	3.608	3.449	1 31/32	2.013	1.925
2 1/4	2.2500	3 1/2	3.500	3.388	4.041	3.862	2 13/64	2.251	2.155
2 1/2	2.5000	3 7/8	3.875	3.750	4.474	4.275	2 29/64	2.505	2.401
2 3/4	2.7500	4 1/4	4.250	4.112	4.907	4.688	2 45/64	2.759	2.647
3	3.0000	4 5/8	4.625	4.475	5.340	5.102	2 61/64	3.013	2.893
3 1/4	3.2500	5	5.000	4.838	5.774	5.515	3 3/16	3.252	3.124
3 1/2	3.5000	5 3/8	5.375	5.200	6.207	5.928	3 7/16	3.506	3.370
3 3/4	3.7500	5 3/4	5.750	5.562	6.640	6.341	3 11/16	3.760	3.616
4	4.0000	6 1/8	6.125	5.925	7.073	6.755	3 15/16	4.014	3.862

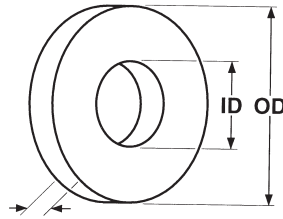


FASTENER TECHNICAL DATA & CHARTS

Washers and Split Lockwashers

SAE

Bolt Size	Inches I.D.	Inches O.D.	Thick-ness	Est. Pcs. Per 1 Lb.
#4	1/8	5/16	#21 (1/32)	1650
#6	5/32	3/8	#18 (3/64)	790
#8	3/16	7/16	#18 (3/64)	585
#10	7/32	1/2	#18 (3/64)	435
#12	1/4	9/16	#16 (1/16)	280
1/4	9/32	5/8	#16 (1/16)	222
5/16	11/32	11/16	#16 (1/16)	192
3/8	13/32	13/16	#16 (1/16)	140
7/16	15/32	59/64	#16 (1/16)	105
1/2	17/32	1-1/16	#13 (3/32)	55
9/16	19/32	1-3/16	#13 (3/32)	43
5/8	21/32	1-5/16	#13 (3/32)	36
3/4	13/16	1-1/2	#10 (9/64)	21
7/8	15/16	1-3/4	#10 (9/64)	16
1	1-1/16	2	#10 (9/64)	12
1-1/8	1-3/16	2-1/4	#10 (9/64)	9.2
1-1/4	1-5/16	2-1/2	#9 (5/32)	6.3
1-3/8	1-7/16	2-3/4	#9 (5/32)	5.25
1-1/2	1-9/16	3	#9 (5/32)	4.25

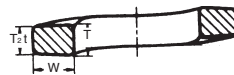


S.A.E. washers are of smaller O.D. and thinner gauges than their counterpart bolt sizes of U.S. Standard washers. USS washers were developed to requirements in the majority of industrial applications in all fields of manufacturing, maintenance and repair. The O.D., I.D. and thickness specifications meet the optimum of applications.

USS STANDARD

Bolt Size	Inches I.D.	Inches O.D.	Thick-ness	Est. Pcs. Per 1 Lb.
3/16	1/4	9/16	#18 (3/64)	361
1/4	5/16	3/4	#16 (1/16)	149
5/16	3/8	7/8	#14 (5/64)	87
3/8	7/16	1	#14 (5/64)	67
7/16	1/2	1-1/4	#14 (5/64)	41
1/2	9/16	1-3/8	#12 (7/64)	26
9/16	5/8	1-1/2	#12 (7/64)	22
5/8	11/16	1-3/4	#10 (9/64)	13
3/4	13/16	2	#9 (5/32)	9.1
7/8	15/16	2-1/4	#8 (11/64)	6.5
1	1-1/16	2-1/2	#8 (11/64)	5.3
1-1/8	1-1/4	2-3/4	#8 (11/64)	4.5
1-1/4	1-3/8	3	#8 (11/64)	3.8
1-3/8	1-1/2	3-1/4	#7 (3/16)	3
1-1/2	1-5/8	3-1/2	#7 (3/16)	2.6
1-5/8	1-3/4	3-3/4	#7 (3/16)	2.3
1-3/4	1-7/8	4	#7 (3/16)	2
1-7/8	2	4-1/4	#7 (3/16)	1.8
2	2-1/8	4-1/2	#7 (3/16)	1.6
2-1/4	2-3/8	4-3/4	#5 (7/32)	1.2

MEDIUM SPLIT HELICAL SPRING LOCKWASHERS



Nominal Washer Size	A Inside Diameter		B Outside Diameter	W Washer Section Thickness	
	Min.	Max.	Max. ²	Min.	Min.
2	0.086	0.088	0.094	0.035	0.020
4	0.112	0.115	0.121	0.040	0.025
5	0.125	0.128	0.134	0.047	0.031
6	0.138	0.041	0.148	0.047	0.031
8	0.164	0.168	0.175	0.055	0.040
10	0.190	0.194	0.202	0.062	0.047
12	0.216	0.221	0.229	0.070	0.056
1/4	0.250	0.255	0.263	0.109	0.062
5/16	0.312	0.318	0.328	0.125	0.078
3/8	0.375	0.382	0.393	0.141	0.094
7/16	0.438	0.446	0.459	0.156	0.109
1/2	0.500	0.509	0.523	0.171	0.125
9/16	0.562	0.572	0.587	0.188	0.141
5/8	0.625	0.636	0.653	0.203	0.156
3/4	0.750	0.763	0.783	0.234	0.188
7/8	0.875	0.890	0.912	0.266	0.219
1	1.000	1.017	1.042	0.297	0.250
1 1/16	1.062	1.080	1.107	0.312	0.266
1 1/8	1.125	1.144	1.172	0.328	0.281
1 3/16	1.188	1.208	1.237	0.344	0.297
1 1/4	1.250	1.271	1.302	0.359	0.312
1 1/2	1.500	1.525	1.561	0.422	0.375



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DRYWALL AND CONSTRUCTION FASTENERS



PHILLIPS BUGLE HEAD FINE THREAD - BLACK PHOSPHATE

Part Number	Size	Carton Quantity	Carton Weight	Drive Size	Application
SS 100 B	# 6 x 1"	10 M	32 lbs.	# 2 Phillips	Original and primary application of D/W to 20-25 gauge metal studs. Also known as "all-purpose" screws.
SS 118 B	# 6 x 1-1/8"	10 M	35 lbs.	# 2 Phillips	
SS 114 B	# 6 x 1-1/4"	8 M	31 lbs.	# 2 Phillips	
SS 158	# 6 x 1-5/8"	5 M	25 lbs.	# 2 Phillips	
SS 200 B	# 6 x 2"	3.5 M	20 lbs.	# 2 Phillips	
SS 214	# 6 x 2-1/4"	3 M	22 lbs.	# 2 Phillips	
SS 212 B	# 8 x 2-1/2"	2.5 M	21 lbs.	# 2 Phillips	Extra length allows user to attach D/W to 20-25 gauge metal stud used in "scab over" applications.
SS 300	# 8 x 3"	2 M	24 lbs.	# 2 Phillips	
SS 312	# 10 x 3-1/2"	1 M	23 lbs.	# 2 Phillips	
SS 334	# 10 x 3-3/4"	1 M	23 lbs.	# 2 Phillips	
SS 400	# 10 x 4"	1 M	24 lbs.	# 2 Phillips	



PHILLIPS BUGLE HEAD COARSE THREAD - BLACK PHOSPHATE

Part Number	Size	Carton Quantity	Carton Weight	Drive Size	Application
C 100 B	# 6 x 1"	10 M	32 lbs.	# 2 Phillips	Original and primary application of D/W to wood studs. Also used in many interior wood and fixture fastening applications.
C 114 B	# 6 x 1-1/4"	8 M	31 lbs.	# 2 Phillips	
C 158 B	# 6 x 1-5/8"	5 M	25 lbs.	# 2 Phillips	
C 200 B	# 6 x 2"	3.5 M	20 lbs.	# 2 Phillips	
C 214 B	# 6 x 2-1/4"	3 M	22 lbs.	# 2 Phillips	
C 212 B	# 8 x 2-1/2"	2.5 M	21 lbs.	# 2 Phillips	
C 300 B	# 8 x 3"	2 M	24 lbs.	# 2 Phillips	
C 312 B	# 10 x 3-1/2"	1.5 M	27.5 lbs.	# 2 Phillips	



PHILLIPS BUGLE HEAD LAMINATOR - BLACK PHOSPHATE

Part Number	Size	Carton Quantity	Carton Weight	Drive Size	Application
L 112	# 10 x 1-1/2"	5 M	39 lbs.	# 2 Phillips	Temporary fastening of D/W to D/W in doublewall requirements.



PHILLIPS PAN HEAD FRAMER - BLACK PHOSPHATE

Part Number	Size	Carton Quantity	Carton Weight	Drive Size	Application
SS 7716 X	# 7 x 7/16"	15 M	40 lbs.	# 2 Phillips	Light gauge metal stud & track framing.



PHILLIPS TRIM HEAD "S" POINT - BLACK PHOSPHATE

Part Number	Size	Carton Quantity	Carton Weight	Drive Size	Application
TH 158 T	# 6 x 1-5/8"	5 M	24 lbs.	# 1 Phillips	Finish screw for fastening of base or trim through D/W to light gauge metal studs.
TH 214 T	# 6 x 2-1/4"	3 M	21 lbs.	# 1 Phillips	
TH 300 T	# 8 x 3"	2 M	23 lbs.	# 2 Phillips	



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DRYWALL AND CONSTRUCTION FASTENERS



SQUARE DRIVE TRIM HEAD - BLACK PHOSPHATE

Part Number	Size	Carton Quantity	Carton Weight	Drive Size	Application
THS 158	# 6 x 1-5/8"	5 M	24 lbs.	# 1 Robertson SQ	Finish screw for fastening of base of trim through D/W to light gauge metal studs.
THS 214	# 6 x 2-1/4"	3 M	21 lbs.	# 1 Robertson SQ	
THS 300	# 8 x 3"	2 M	23 lbs.	# 2 Robertson SQ	



MODIFIED TRUSS HEAD - BLACK PHOSPHATE OR ZINC PLATED

Part Number	Size	Carton Quantity	Carton Weight	Drive Size	Application
W 916 Z	# 8 x 9/16"	10 M	35 lbs.	# 2 Phillips	For the application of metal lathe to light 20-25 gauge metal studs. Recommended drive speed is 2500 rpm.
W 100 Z	# 8 x 1"	5 M	28 lbs.	# 2 Phillips	
W 114 Z	# 8 x 1-1/4"	5 M	34 lbs.	# 2 Phillips	



PHILLIPS BUGLE HEAD - LONG LIFE COATING

Part Number	Size	Carton Quantity	Carton Weight	Drive Size	Application
C 114 D	# 6 x 1-1/4"	8 M	31 lbs.	# 2 Phillips	For any exterior fastening including: decks, fences, shade structures, Recommended for use in treated yellow pine.
C 158 D	# 6 x 1-5/8"	5 M	25 lbs.	# 2 Phillips	
C 200 D	# 6 x 2"	3.5 M	23 lbs.	# 2 Phillips	
C 214 D	# 6 x 2-1/4"	3 M	22 lbs.	# 2 Phillips	
C 250 D	# 8 x 2-1/2"	2.5 M	24 lbs.	# 2 Phillips	
C 300 D	# 8 x 3"	2 M	25 lbs.	# 2 Phillips	
C 312 D	# 10 x 3-1/2"	1 M	23 lbs.	# 2 Phillips	
C 400 D	# 10 x 4"	1 M	25 lbs.	# 2 Phillips	

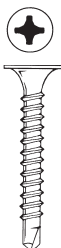


SELF PIERCING SCREWS HEX WASHER HEAD - ZINC COATING

Part Number	Size	Carton Quantity	Carton Weight	Drive Size	Application
812 HWHSMS	# 8 x 1/2"	10 M	31 lbs.	1/4" Hex	For H.V.A.C. or other thin gauge metals. Screws have a needle point for self piercing piercing of sheet metal in a range of 20 - 26 gauge.
834 HWHSMS	# 8 x 3/4"	10 M	38 lbs.	1/4" Hex	
8100 HWHSMS	# 8 x 1"	8 M	38 lbs.	1/4" Hex	
1012 HWHSMS	# 10 x 1/2"	8 M	33 lbs.	5/16" Hex	
1034 HWHSMS	# 10 x 3/4"	6 M	32 lbs.	5/16" Hex	
10100 HWHSMS	# 10 x 1"	6 M	34 lbs.	5/16" Hex	

PHILLIPS BUGLE HEAD

- Zinc Plated



Part No.	Size	Pkg.	Case
SD1142*	#6 X 1 1/4"	100	8000
SD1582*	#6 X 1 5/8"	500	5000
SD1782*	#6 X 1 7/8"	500	4000
SD2382*	#6 X 2 3/8"	250	3000
SD2582*	#6 X 2 5/8"	250	2000
SD3002*	#6 X 3"	250	2000

SELF DRILLING METAL FRAMING SCREWS

- Pan Head • Zinc Plated



Part No.	Size	Pkg.	Case
SD7716X*	#7 X 7/16"	100	15,000



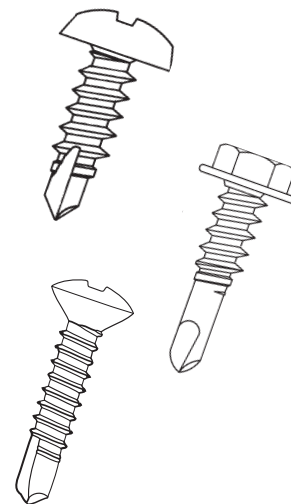
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TEKS® SELF-DRILLING FASTENERS

TW Buildex

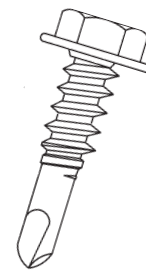
Part Number	Description	Head Style	Drill Point	Drill & Tap Capacity	Max. Material Attachments	Applications
1208200	6-20 x 3/8"	Pan	#2	.036-.100	.100	<ul style="list-style-type: none"> • HVAC, electrical trim accessories to steel framing. • Residential steel frame construction. • Track to stud. • Hat channel to stud. • Stud splicing.
1210200	8-18 x 1/2"	Pan	#2	.036-.100	.205	
1213200	8-18 x 3/4"	Pan	#2	.036-.100	.455	
1218200	8-18 x 1"	Pan	#2	.036-.100	.705	
1196200	8-18 x 1/2"	HWH	#2	.036-.100	.205	
1199200	8-18 x 5/8"	HWH	#2	.036-.100	.330	
1200200	8-18 x 3/4"	HWH	#2	.036-.100	.455	
1202200	8-18 x 1"	HWH	#2	.036-.100	.705	
1204200	8-18 x 1-1/2"	HWH	#2	.036-.100	1.205	
1107000	10-16 x 3/4"	HWH	#1	.018-.095	.220	
1109000	12-14 x 3/4"	HWH	#1	.018-.095	.205	
1399000	1/4-14 x 7/8"	HWH	#1	.018-.095	.380	
1398000	10-16 x 1/2"	Pan	#3	.036-.175	.150	<ul style="list-style-type: none"> • Clips, duct straps, brick ties or accessories to framing.
1541000	10-16 x 5/8"	Pan	#3	.036-.175	.200	
1224000	10-16 x 3/4"	Pan	#3	.036-.175	.325	
1542000	10-16 x 3/4"	Oval	#3	.036-.175	.325	
1397000	10-16 x 1/2"	HWH	#3	.036-.175	.150	
1127000	10-16 x 5/8"	HWH	#3	.036-.175	.200	
1128000	*10-16 x 3/4"	HWH	#3	.036-.175	.325	
1129000	10-16 x 1"	HWH	#3	.036-.175	.575	
1544000	10-16 x 1"	Oval	#3	.036-.175	.575	
1544000	10-16 x 1"	Pan	#3	.036-.175	.575	
1130000	10-16 x 1-1/4"	HWH	#3	.036-.175	.825	
1546000	10-16 x 1-1/4"	Oval	#3	.036-.175	.825	
1131000	*10-16 x 1-1/2"	HWH	#3	.036-.175	1.075	
1550000	10-24 x 3/4"	HWH	#3	.036-.175	.323	
1551000	10-24 x 1"	HWH	#3	.036-.175	.575	
+1786200	10-24 x 5/8"	**HWH	#2	.036-.175	.200	<ul style="list-style-type: none"> • Vibration Resistance; HVAC Applications
+1707200	10-16 x 3/4"	**HWH	#3	.036-.175	.323	
+1821200	10-16 x 3/4"	**HWH	#3	.036-.175	.323	

* Available with Bonded Washer ** With serrations under head † Electro-zinc finish

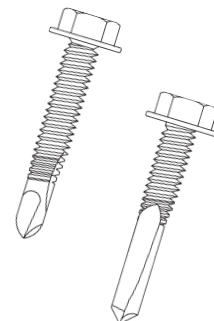


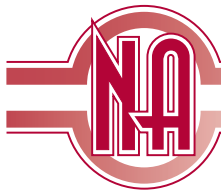
Part Number	Description	Head Style	Drill Point	Drill & Tap Capacity	Max. Material Attachments	Applications
1134000	12-14 x 3/4"	HWH	#3	.036-.210	.270	<ul style="list-style-type: none"> • Roof deck to steel framing. • Wall panel to girt. • Duct work to steel framing. • Accessories to steel framing. • Clip to steel framing. • Retrofit framing.
1136000	12-14 x 1"	HWH	#3	.036-.210	.520	
1120000	12-14 x 1-1/4"	HWH	#2	.036-.210	.550	
1123000	12-14 x 1-1/2"	HWH	#2	.036-.210	.800	
1140000	12-14 x 2"	HWH	#3	.036-.210	1.450	
1553000	12-14 x 2-1/2"	HWH	#3	.036-.210	1.950	
1143000	12-14 x 3"	HWH	#3	.036-.210	2.450	
1146000	12-14 x 4"	HWH	#3	.036-.210	3.450	
1147000	1/4-14 x 3/4"	HWH	#3	.036-.210	.210	
1149000	1/4-14 x 1"	HWH	#3	.036-.210	.400	
1150000	1/4-14 x 1-1/4"	HWH	#3	.036-.210	.650	
1152000	1/4-14 x 1-1/2"	HWH	#3	.036-.210	.900	
1155000	1/4-14 x 2"	HWH	#3	.036-.210	1.400	
1554000	1/4-14 x 2-1/2"	HWH	#3	.036-.210	1.900	
1157000	1/4-14 x 3"	HWH	#3	.036-.210	2.460	
1304000	1/4-14 x 4"	HWH	#3	.036-.210	3.460	
All available with bonded washer.						
1586000	1/4-14 x 3/4"	*HWH	#3	.036-.210	.250	<ul style="list-style-type: none"> • Commercial overhead steel doors, hinges & latches
1587000	1/4-14 x 1"	*HWH	#3	.036-.210	.500	

* With serrations under head.



Part Number	Description	Drill Style	Drill Point	Capacity	Max. Material Attachments	Applications
1088000	12-24 x 7/8"	HWH	#4	.125-.250	.325	<ul style="list-style-type: none"> • Metal deck, clips, liner panels or accessories to structural steel or bar joist. • Longer fasteners can be used in retrofit clip and sheet applications.
1414000	12-24 x 1-1/4"	HWH	#4.5	.125-.375	.575	
1006000	12-24 x 1-1/4"	HWH	#5	.125-.500	.375	
1070000	12-24 x 1-1/2"	HWH	#5	.125-.500	.625	
1072000	12-24 x 2"	HWH	#5	.125-.500	1.125	
1074000	12-24 x 3"	*HWH	#5	.125-.500	2.150	
1075000	12-24 x 4"	*HWH	#5	.125-.500	3.150	
1641000	1/4-28 x 5"	HWH	#5	.125-.500	4.150	
1431000	1/4-28 x 6"	HWH	#5	.125-.500	5.150	
1590000	1/4-28 x 8"	HWH	#5	.125-.500	7.150	
All available with bonded washer.						
* 5/16" Across flats HWH						

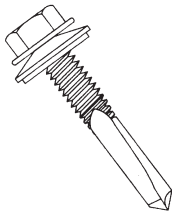
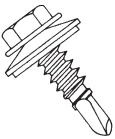




SELF-DRILLING FASTENERS



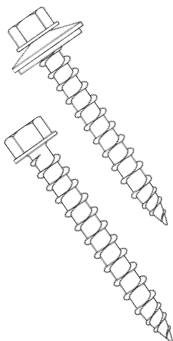
SELF-DRILLING FASTENERS W/ 9/16" BONDED WASHER



PART NUMBER	DESCRIPTION	HEAD STYLE	DRILL POINT	DRILL & TAP CAPACITY	MAX. MATERIAL ATTACHMENT	APPLICATIONS	
1005000	10-16 x 3/4"	HWH	#3	.036-.175	.205	<ul style="list-style-type: none"> • Brick tie to steel framing. • Mansard panel to steel framing. • Roof panel to purlin. • Wall panel to girt. • Stitch roof and wall panels. • Retrofit panels to structural. 	
1308000	10-16 x 1-1/2"	HWH	#3	.036-.175	.955		
1011000	12-14 x 1"	HWH	#3	.036-.210	.400		
1014000	12-14 x 1-1/4"	HWH	#2	.036-.210	.430		
1404000	12-14 x 1-1/2"	HWH	#2	.036-.210	.680		
1009000	12-14 x 3/4"	HWH	#3	.036-.210	.150		
1016000	12-14 x 2"	HWH	#3	.036-.210	1.330		
1333000	12-14 x 3"	HWH	#3	.036-.210	2.330		
1332000	12-14 x 4"	HWH	#3	.036-.210	3.330		
1416000	1/4-14 x 7/8"	HWH	#1	.024-.095	.260		
1019000	1/4-14 x 1-1/4"	HWH	#3	.036-.210	.780		
1020000	1/4-14 x 1-1/2"	HWH	#3	.036-.210	1.280		
1021000	1/4-14 x 2"	HWH	#3	.036-.210	1.340		
1022000	1/4-14 x 3"	HWH	#3	.036-.210	2.340		
1429000	1/4-14 x 4"	HWH	#3	.036-.210	3.340		
1010000	12-24 x 7/8"	HWH	#4	.125-.250	.200		<ul style="list-style-type: none"> • Roof and wall panel to bar joist or structural.
1415000	12-24 x 1-1/4"	HWH	#4.5	.125-.375	.450		
1000000	12-24 x 1-1/4"	HWH	#5	.250-.500	.250		<ul style="list-style-type: none"> • Longer fasteners may be used in retrofit applications.
1001000	12-24 x 1-1/2"	HWH	#5	.250-.500	.500		
1002000	12-24 x 2"	HWH	#5	.250-.500	1.000		
1003000	12-24 x 3"	HWH	#5	.250-.500	2.100		
1004000	12-24 x 4"	HWH	#5	.250-.500	3.100		
1647000*	1/4-28 x 5"	HWH*	#5	.250-.500	4.100		
1642000**	1/4-28 x 5"	HWH**	#5	.250-.500	4.100		
1432000*	1/4-28 x 6"	HWH*	#5	.250-.500	5.100		
1619000*	1/4-28 x 6"	HWH*	#5	.250-.500	7.100		

* 3/4" Bonded Washer ** 1-1/8" Bonded Washer

TRUGRIP™ GT METAL-TO-WOOD FASTENERS



Part Number	Description	Head Style	Drill Point	Drill & Tap Capacity	Max. Material Attachment	Applications
1271000	9-15 x 1"	HWH	Gimlet	.012-.048	0-.250	<ul style="list-style-type: none"> • Wall panel to wood structure. • Panel over insulation to wood.
1272000	9-15 x 1-1/2"	HWH	Gimlet	.012-.048	0-.750	
1275000	9-15 x 2-1/2"	HWH	Gimlet	.012-.048	1.000-1.750	
1276000	9-15 x 3"	HWH	Gimlet	.012-.048	1.500-2.250	
1557000	14-10 x 1"	3/8" AF HWH	Type 17	.012-.048	0-.445	<ul style="list-style-type: none"> • Stitching of wall panel.
1558000	14-10 x 1-1/2"	5/16" AF HWH	Type 17	.012-.048	0-.750	
1277000	12-14 x 3/4"	HWH	Gimlet	.012-.048	---	
	With 1/2" Bonded Washer					<ul style="list-style-type: none"> • Roof and wall panel to wood. • Panel over insulation to wood.
1262000	9-15 x 1"	HWH	Gimlet	.012-.048	0-.250	
1264000	9-15 x 1-1/2"	HWH	Gimlet	.012-.048	0-.750	
1267000	9-15 x 2"	HWH	Gimlet	.012-.048	.500-1.250	
1268000	9-15 x 2-1/2"	HWH	Gimlet	.012-.048	1.000-1.750	
1269000	9-15 x 3"	HWH	Gimlet	.012-.048	1.500-2.250	
1270000	12-14 x 3/4"*	HWH	Gimlet	.012-.048	---	<ul style="list-style-type: none"> • Stitching of roof and wall panel.

*With 9/16" O.D. Bonded Washer.



MACHINE SCREWS

FLAT HEAD MACHINE SCREWS SLOTTED AND PHILLIPS

Steel • Zinc Plated

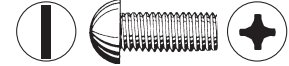


LENGTH	DIAMETER - THREAD		
	1/4-20	3/8-16	1/2-13
1/2	S	S	S
3/4	S	S	S
1	S	S	S
1-1/4	S	S	S
1-1/2	S	S	S
1-3/4	S	S	S
2	S	S	S
2-1/4	S	S	S
2-1/2	S	S	S
2-3/4	S	S	S
3	S	S	S

S - Denotes Normally Stocked • Unlisted Items May Be Available

ROUND HEAD MACHINE SCREWS SLOTTED AND PHILLIPS

Steel • Zinc Plated



LENGTH	DIAMETER - THREAD		
	6-32	8-32	1/4-20
1/2	S	S	S
3/4	S	S	S
1	S	S	S
1-1/4	S	S	S
1-1/2	S	S	S
1-3/4	S	S	S
2	S	S	S

S - Denotes Normally Stocked • Unlisted Items May Be Available

PAN HEAD COMBINATION MACHINE SCREWS SLOTTED AND PHILLIPS

Steel • Zinc Plated

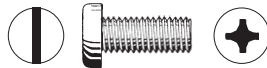


LENGTH	DIAMETER - THREAD		
	6-32	8-32	1/4-20
1/2	S	S	S
3/4	S	S	S
1	S	S	S
1-1/4	S	S	S
1-1/2	S	S	S
1-3/4	S	S	S
2	S	S	S

S - Denotes Normally Stocked • Unlisted Items May Be Available

PAN HEAD MACHINE SCREWS SLOTTED AND PHILLIPS

Steel • Zinc Plated



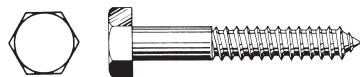
LENGTH	DIAMETER - THREAD		
	6-32	8-32	1/4-20
1/2	S	S	S
3/4	S	S	S
1	S	S	S
1-1/4	S	S	S
1-1/2	S	S	S
1-3/4	S	S	S
2	S	S	S

S - Denotes Normally Stocked • Unlisted Items May Be Available

HEX HEAD LAG SCREWS

HEX HEAD LAG SCREWS

Steel • Plain • Plated



Also Available
In Plated and HDG

LENGTH	DIAMETER - THREAD		
	1/4	3/8	1/2
1	S	S	
1-1/4	S	S	
1-1/2	S	S	S
1-3/4	S	S	S
2	S	S	S
2-1/4	S	S	S
2-1/2	S	S	S
2-3/4	S	S	S
3	S	S	S

S - Denotes
Normally Stocked

• Unlisted Items
May Be Available

Not sure?

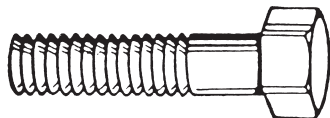
**We're happy to provide you with
Complete Product Literature
and detailed specifications.**

Just ask us!



(800) 733-0089 • (781) 329-4000 • FAX: (781) 326-4757

HEX HEAD CAP SCREWS



Steel • Zinc Plated
ASTM A307A • U.S.S. Coarse Thread

Note: Thread Length x 2 Dia. + 1/4"

Tap Bolts (Full Thread) Available Upon Request

Dia.	Length (Inches)																						
	3/4	1	1-1/4	1-1/2	1-3/4	2	2-1/4	2-1/2	2-3/4	3	3-1/4	3-1/2	3-3/4	4	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2		
1/4*																							
3/8*																							
1/2*																							
5/8																							
3/4																							
7/8																							
1																							
1-1/8																							
1-1/4																							
1-1/2																							

* Denotes zinc plated only

HEAVY HEX BOLTS

ASTM A307 GRADE B*

Mechanical Properties and Characteristics

Material: Low-carbon steel with Phosphorus 0.04% max, sulfur 0.05% max

Mechanical Properties:

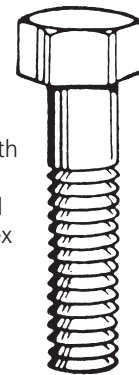
	MIN	MAX
Tensile Strength, psi	60,000	100,000
Hardness, Rockwell B	69	95

Threads: Coarse treads-UNRC-2A

Finish: Uncoated from stock. Protective coatings - electrogalvanized, hot-dip galvanized available on special order.

Head: Washer-faced heavy hex head

Dimensions: Made to heavy-hex bolt standards of ANSI B18 8.2.1



Intended primarily for flanged joints in piping systems where one or both flanges are cast iron. Will serve well for any general application. The heavy hex head provides maximum bearing area.

Diameter	Length (Inches)							
1/2	1-1/2	1-3/4	2	2-1/4	2-1/2	2-3/4		
5/8	2-1/2	2-3/4	3	3-1/4	3-1/2			
3/4	2-3/4	3	3-1/4	3-1/2	3-3/4	4	5	5-1/2
7/8	3-1/2	4	4-1/2					
1	4-1/2	5	5-1/2	6				
1-1/8	4-3/4	5	6-1/2					
1-1/4	5	5-1/2	6					
1-1/2	6	7						

SIZES BEYOND THE RANGE OF THE STOCK SIZES CAN BE PRODUCED ON SPECIAL ORDER

WHEN ORDERING HEAVY HEX BOLTS - DON'T FORGET TO ORDER HEAVY HEX NUTS

NUTS ARE NOT NORMALLY PRICED AND SHIPPED WITH THESE BOLTS

* A193 GRADE B-7 ALSO AVAILABLE - SIZES PRICED UPON REQUEST



(800) 733-0089 • (781) 329-4000 • FAX: (781) 326-4757

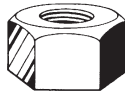
HEX NUTS AND COUPLINGS

HEAVY HEX NUTS

Steel • Zinc Plated

Size	Threads Per Inch - Coarse	Pkg. Qty.	Bulk* Qty.
1/4	20	100	—
5/16	18	100	—
3/8	16	100	—
1/2	13	50	—
5/8	11	50	—
3/4	10	50	—
7/8	9	—	650
1	8	—	500
1-1/8	7	—	350
1-1/4	7	—	270
1-1/2	6	—	150
1-3/4	5	—	100
2	4-1/2	—	65

* Bulk quantities may vary.
Call to confirm availability.

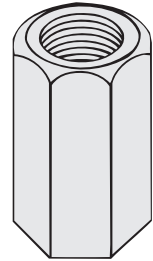


THREADED ROD COUPLINGS

Heavy Duty • Steel • Plated • U.S.S. Thread

Size & Thread	Bulk* Qty.
1/4 - 20	10,000
3/8 - 16	1,500
1/2 - 13	1,500
5/8 - 11	1,500
3/4 - 10	500
7/8 - 9	350
1 - 8	250
1 1/8 - 7	200
1 1/4 - 7	200
1 1/2 - 6	150

* Bulk quantities may vary.
Call to confirm availability.

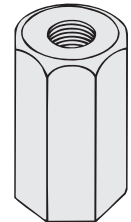


REDUCING COUPLINGS

Electro-Zinc Plated • U.S.S. Thread

Size	Size
1/4 x 3/8	5/8 x 3/4
3/8 x 1/2	3/4 x 7/8
1/2 x 5/8	

* Bulk quantities may vary.
Call to confirm availability.



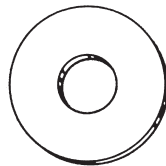
WASHERS

FLAT WASHERS

Steel • Zinc Plated

Size	Bulk Qty. (Lbs. / Box)	Pcs. Per 10 Lbs.
1/4	50	1,000
3/8	50	670
1/2	50	260
5/8	50	130
3/4	50	90
7/8	50	68
1	50	55
1-1/8	50	45
1-1/4	50	38
1-1/2	50	26

* Bulk quantities may vary.
Call to confirm availability.



FENDER WASHER

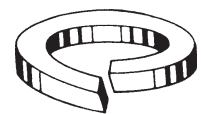
Steel • Electro Galvanized

Size	I.D.	O.D.	Wgt. Each (In. Lbs.)
1/2	9/32	1-1/4	.03
3/8	13/32	1-1/2	.03
1/2	17/32	2	.05



LOCK WASHERS

Diameter							
3/8	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4





THREADED ROD

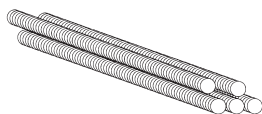


BUNDLED QUANTITIES & WEIGHTS

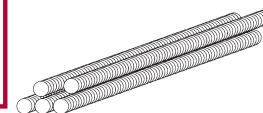
All Sizes Stocked In Both Plain And Zinc Finish

SIZE	WT./ CFT	6' Per Bdl.			10' Per Bdl.		
		PCS	FT.	WT.	PCS	FT.	WT.
1/4 (20)	12.0	100	600	72.0	50	500	61
5/16 (18)	20.0	75	450	90.0	25	250	49.8
3/8 (16)	29.0	50	300	88.0	25	250	73.3
7/16 (14)	40.0	25	150	60.3	15	150	60.3
1/2 (13)	54.0	25	150	82.0	13	130	69.3
5/8 (11)	83.0	15	90	72.0	8	80	67.5
3/4 (10)	125.0	10	60	76.0	5	50	61.8
7/8 (9)	170.0	9	54	92.0	5	50	85.3
1 (8)	223.0	6	36	80.0	3	30	67
1 1/8 (7)	281.0	4	24	68.0		BULK	
1 1/4 (7)	354.0	4	24	84.0		BULK	
1 3/8 (6)	423.0	4	24	102.0		BULK	
1 1/2 (6)	512.0	4	24	122.0		BULK	
1 3/4 (5)	635.0		BULK			BULK	
2 (4 1/2)	912.0		BULK			BULK	

Threaded Studs (all grades) cut to request. Other sizes and lengths are priced on application.



Type 304 and 316 Stainless Steel Threaded Rod
also available in 1/4" through 1-1/4" sizes - 6' and 12' lengths.



HIGH STRENGTH MATERIALS

B7 COARSE THREAD

SIZE	WT / 100 FT	Pieces / Box		
		3 FT	6 FT	12 FT
1/4 - 20	12	100	50	n/a
5/16 - 18	20	75	40	n/a
3/8 - 16	29	60	28	28
7/16 - 14	40	25	15	15
1/2 - 13	54	25	15	15
5/8 - 11	83	15	9	9
3/4 - 10	125	10	6	6
7/8 - 9	170	9	6	6
1 - 8	223	6	3	3
1 1/8 - 7	281	4	2	2
1 1/4 - 7	354	4	2	2
1 1/2 - 6	512	4	1	1

High Strength-Elevated Temperature Materials ASTM A193 - B7 Alloy

This Alloy Steel is heat-treated to provide a unique combination of high strength and high temperature properties. Used extensively in the Power Generation and Petro-Chemical Industries, this is the ultimate in threaded rod. Tensile Strength is not less than 125,000 psi with a yield of not less than 105,000 psi. Can be provided plain or electro-plated zinc / yellow-finish.

In addition to our extensive stock of fully threaded rods, we will quote you for U-Bolts, Anchor Bolts, Studs or Special to your print.



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CONCRETE ACCESSORIES



COIL THREAD

Coil Thread Rod is manufactured using high tensile steel and incorporates an easy-flow thread to provide for ease of installation.

Coil Thread Rod is available in 12 ft lengths

THREAD		L.T.S.	
SIZE	INCH	MATERIAL	MIN LBS / SQ"
1/2	4	1035	110,000
5/8	4 - 1/2	1035	110,000
3/4	4 - 1/2	1035	110,000
1	3 - 1/2	1045	110,000
1 - 1/4	3 - 1/2	1045	110,000
1 - 1/2	3 - 1/2	1045	110,000

SIZE	PCS/ BOX	WT/ BOX (LBS)
1/2 - 8	15	98
5/8 - 4 1/2	8	82
3/4 - 4 1/2	8	80
1 - 3 1/2	3	80
1 1/4 - 3 1/2	2	80
1 1/2 - 3 1/2	1	82

Watson Metal will provide the product cut to length at a modest increase in price. Watson Coil Thread is manufactured in America from Steel produced in America. We meet all requirements of any state D.O.T. Imported Hex Nuts are available for all diameters.

CONCRETE STAKES

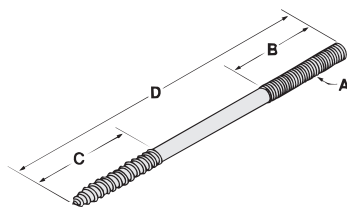
Concrete Stakes are used to secure wood or metal forms to the ground. For concrete placement, they can be removed and re-used many times. Manufactured from 1040 steel to withstand the hammer blows, the stakes have numerous nail holes to insure one will line up with the form. The nominal 3/4 round stake (0.718" diameter) meets the IFI Specifications and has a paint finish to prolong the life before rust. The stakes are packed in units of ten with plasticated capes, wrapped and palletized by length.

LENGTH	#/ PACK	WT/ PACK (LBS)	#/ PALLET	WT/ PALLET (LBS)
12'	10	13	100	2400
16'	10	21	100	2050
24'	10	27	750	2040
30'	10	35	600	2100
36'	10	42	450	1800
42'	10	50	400	2800
48'	10	58	350	2000

We can offer a nominal 7/8" diameter round stake and a 3/8" thick flat stake. In addition, if demand warrants, we will add a full 3/4" diameter. These stakes, imported from India, are very versatile and can be used in a myriad of projects outside of concrete forming.

THREADED ACCESSORIES

COACH SCREW ROD



MATERIAL: Low carbon steel

FINISH: Plain or electro-galvanized

FUNCTION: Designed for use as a vertical hanger attachment to wood structures.

ORDERING: Specify rod size, length, finish and figure number.

Rod Size A	Minimum Length		Max. Rec. Load/lbs.	Wt. Each (in lbs.)				
	Machine B	Coach C		Length D (inches)				
				4	6	8	10	12
3/8	2	2	390	.12	.19	.25	.31	.37
1/2	2	2 1/2	640	.22	.34	.44	.56	.67



THREADED ACCESSORIES



ANCHOR BOLTS

Watson manufactures Carbon Steel Anchor Bolts for stock in the following sizes:

DIAMETER / THREAD	LENGTHS (inches)
3/8" - 18	6, 8, 10, 12
1/2" - 13	6, 8, 10, 12, 14, 16, 18
5/8" - 11	6, 8, 10, 12, 14, 15, 16
3/4" - 10	8, 10, 12, 14, 15, 16, 18, 20, 24, 30
1" - 8	12, 14, 15, 16, 18, 21, 24, 30, 36

Material is ASTM A36 C-Steel 1008 / 1010

SPECIFICATIONS

DIAMETER	BEND LENGTH	THREAD LENGTH
3/8"	1 1/2"	1 1/2"
1/2"	1"	2"
5/8" (8-10")	2"	3"
5/8" (12")	2"	4"
3/4"	3"	4"
1"	3"	5"

In addition, we can provide these in stainless steel, A1541 alloy up to 5/8" diameter and Grade 5 from 3/4".

Square Washers

PRODUCT NUMBER	DIA.	O.D.	THICKNESS
CW050WSG	1/2"	2" x 2"	1/8"
CW063WSG	5/8"	2 1/4" x 2 1/4"	3/16"
CW075WSG	3/4"	2 1/4" x 2 1/4"	3/16"

ANCHOR BOLT KITS

PRODUCT NUMBER	SIZE	NUMBER PCS / BOX	WT / BOX LBS
CN03BCA06.IBK	3/8" x 6"	50	10.5
CN03BCA08.IBK	3/8" x 8"	50	13
CN05DCA06.IBK	1/2" x 6"	50	18
CN05DCA08.IBK	1/2" x 8"	50	22
CN05DCA10.IBK	1/2" x 10"	50	27
CN05DCA12.IBK	1/2" x 12"	50	31
CN05DCA14.IBK	1/2" x 14"	50	36
CN05DCA16.IBK	1/2" x 16"	50	40
CN05DCA18.IBK	1/2" x 18"	50	44
CN06BCA06.IBK	5/8" x 6"	25	19
CN06BCA10.IBK	5/8" x 10"	25	22

- Plain and hot dip galvanized finish
- Packed in boxes with nuts and washers in poly bags

PRODUCT NUMBER	SIZE	NUMBER PCS / BOX	WT / BOX LBS
CN06BCA12.IBK	5/8" x 12"	25	26
CN06BCA16.IBK	5/8" x 16"	25	33
CN06BCA18.IBK	5/8" x 18"	25	36
CN075CA06.IBK	3/4" x 6"	25	29
CN075CA10.IBK	3/4" x 10"	25	34
CN075CA12.IBK	3/4" x 12"	25	39
CN075CA15.IBK	3/4" x 15"	25	47
CN075CA16.IBK	3/4" x 16"	25	49
CN075CA18.IBK	3/4" x 18"	25	54
CN075CA24.IBK	3/4" x 24"	20	55

Products listed above are imported.
Material is ASTM A36 C-Steel 1018/1020.

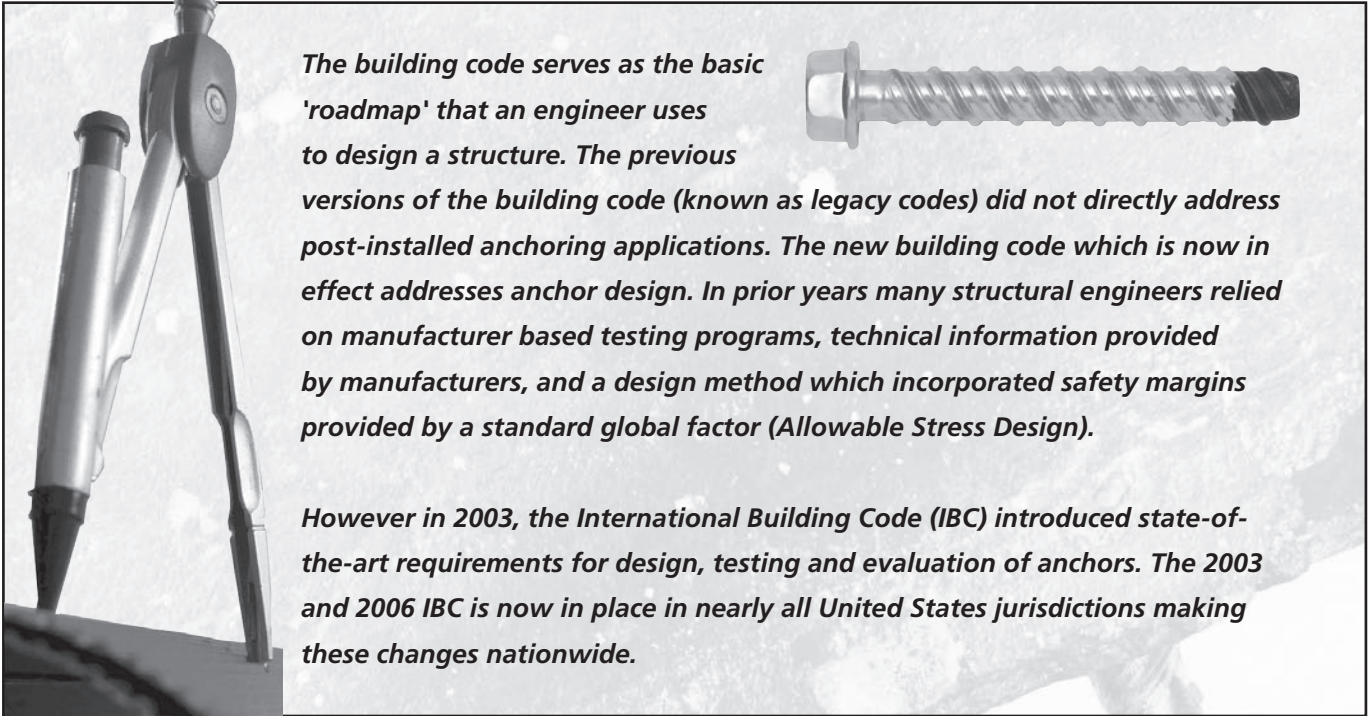
SPECIFICATIONS

DIAMETER	BEND LENGTH	THREAD LENGTH
3/8"	1 1/4"	1 3/4"
1/2"	1 1/4"	1 3/4"
5/8"	1 1/2"	3 1/2"
3/4"	2 1/3"	3 1/2"



THE ANCHORING INDUSTRY

WHY IS IT CHANGING?



The building code serves as the basic 'roadmap' that an engineer uses to design a structure. The previous versions of the building code (known as legacy codes) did not directly address post-installed anchoring applications. The new building code which is now in effect addresses anchor design. In prior years many structural engineers relied on manufacturer based testing programs, technical information provided by manufacturers, and a design method which incorporated safety margins provided by a standard global factor (Allowable Stress Design).

However in 2003, the International Building Code (IBC) introduced state-of-the-art requirements for design, testing and evaluation of anchors. The 2003 and 2006 IBC is now in place in nearly all United States jurisdictions making these changes nationwide.

WHAT IS CHANGING?

The Testing, Evaluations And Approvals

For anchors used in reinforced concrete, previous ICC-ES Evaluation Reports (based on Allowable Stress Design) became invalid after December 31, 2007. All anchoring products now are required to comply with the IBC through new product specific testing and evaluation. Approvals for non-reinforced masonry will remain provided the reports are renewed.

The Anchors

New anchors are being designed to meet the new criteria. Powers is leading the way with more than 12 new solutions.

The Design Method

Allowable Stress Design (ASD) is being replaced by Strength Design (SD). The old method of applying a 4:1 or 10:1 safety factor (as determined by the engineer) is no longer applicable under the new International Building Code. Only Strength Design will be used in the future and along with its use new anchors are being tested to these new standards.



WHAT IS STRENGTH DESIGN?



Strength Design is a design procedure used by engineers to ensure acceptable levels of safety and the proper functioning of a structure for its expected lifetime. Strength Design is based on statistics, engineering principles and a general knowledge of material behavior. When applied to anchoring, Strength Design requires the factored resistance to be greater than the factored loading. **OR**

$$\begin{array}{ccc}
 \text{Anchor Strength Reduced by} & \geq & \text{Forces Acting on an Anchor} \\
 \text{a Strength Reduction Factor} & & \text{Increased by a Load Factor} \\
 \text{(Factored Resistance)} & & \text{(Factored Load)}
 \end{array}$$

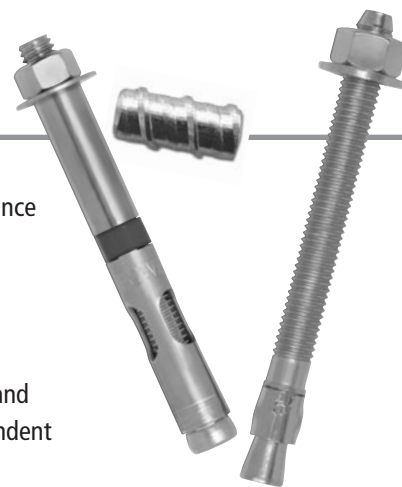
HOW DOES STRENGTH DESIGN APPLY IN ANCHORAGE IN CONCRETE?

The 2003 International Building Code requires post-installed anchors to be designed according to ACI 318 Appendix D which is based on Strength Design. Furthermore, Appendix D requires post-installed anchors to be tested and qualified according to ACI 355.2 (which is supplemented by ICC-ES Acceptance Criteria 193). ACI 355.2 introduced several new tests including the performance of anchors in cracked concrete conditions.

WHAT PRODUCTS CONFORM?

Powers Fasteners has began introducing the "+" line of Strength Design products and will continue throughout the coming years. These products have been or will be tested for compliance with the 2003 IBC. The "+" product line includes Power-Stud+ SD1, SD2, SD3, SD4 and SD5, Wedge-Bolt+ BT and OT, Power-Bolt+, Tapper+, Vertigo+, Spike+, Snake+, AC100+Gold and PE1000+.

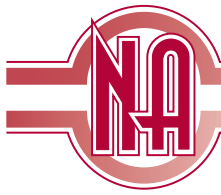
To the date of this catalog's release, Powers has completed testing on the Power-Stud+ SD2 and Snake+ where many sizes are now in stock. Both products have been evaluated by an independent testing agency as a Category 1 anchor which is highest reliability rating obtainable.



Powers ALL NEW DESIGN ANCHORING + SYSTEMS PRODUCTS FASTENERS WILL HAVE THE FOLLOWING FEATURES AND BENEFITS:

- Qualification testing for building code compliance (2003 and 2006 IBC)
- Performance over a wide range of compressive strength (2500~8500 psi)
- Knowledge of failure mode of the anchor
- Increased safety, reliability and confidence in anchor performance
- Design for cracked concrete conditions
- Easy calculations of anchor groups

Your Newman representative will keep you informed of the advances made by Powers Fasteners as the new '+' line of Strength Design products are fully tested, approved and become available for purchase.



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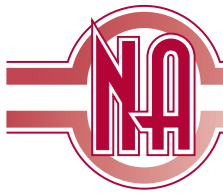
MECHANICAL ANCHOR SELECTION GUIDE

Powers
 FASTENERS

	Anchor Category	Expansion Anchors				Screw Anchors		Rod Hanging Systems		
		Power-Bolt	Power-Stud	Lok-Bolt	Set-Bolt	Wedge-Bolt	Tapper	Vertigo	Bang-It	Wood-Knocker
	Product									
Base Material	Concrete	■	■	■	■	■	■	■	■	■
	Lightweight Concrete	■	■	■	□	■	■	■	■	■
	Hollow Core Plank	□		□		□	■	■		
	Grout-filled Concrete Masonry	■	□	□	□	■	■			
	Hollow Concrete Masonry	□		■		□	■			
	Solid Brick	■		■	□	■	■			
	Hollow Brick	□		□			□			
	Stone	□	□	□	□		□			
	Structural Clay Tile						□			
	Wood							■		
Steel							■			
Anchor Diameter	3/16"						■			
	1/4"	■	■	■	■	■	■	■	■	■
	5/16"	■		■						
	8 mm									
	3/8"	■	■	■	■	■	■	■	■	■
	1/2"	■	■	■	■	■		■	■	■
	5/8"	■	■	■		■		■	■	■
	3/4"	■	■	■		■		■	■	■
	7/8"		■						■	
1"		■								
1 1/4"		■								
Head Style	Finished Hex Head	■				■	■			
	Round / Acorn Head			■						
	Flat Head (Countersunk)	■		■			■			
	Mushroom Head									
	Removable	■				■	■	■		
	Tie-Wire Head		■	■						
	Tamperproof									
	Female Coupler		■	■					■	■
Coating/Material	Coated / Plated Carbon Steel	■	■	■	■	■	■	■	■	■
	Galvanized Steel		■			■				
	Type 303/304 Stainless Steel	■	■	■			■			
	Type 316 Stainless Steel		■							
	Type 410 Stainless Steel					■	■			
	Perma-Seal Coated						■			
Nylon / Plastic								■	■	

■ - Suitable

□ - May Be Suitable



MECHANICAL ANCHOR SELECTION GUIDE



Anchor Category		Bolt and Shield Anchors								Facade Anchor	Pin Anchors		Nail Anchors		
Product		Snake	Hollow-Set Dropin	Steel Dropin	Mini Dropin	Double	Single	Calk-In	Lag-Shield	Heli-Pin	Spike	Drive	Zamac Hammer-Screw	Zamac Nailin	Nylon Nailin
Base Material	Concrete	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Lightweight Concrete	■	□	■	■	□	□	□	□	■	■	□	□	□	□
	Hollow Core Plank	■	■		■								□	□	□
	Grout-filled Concrete Masonry	□	■		□	□	□	■	■	■	■	□	□	□	□
	Hollow Concrete Masonry		■			■		■	■				■	■	■
	Solid Brick		■			■	□	■	■	■	□	□	■	■	■
	Hollow Brick		□						□				□	□	□
	Stone		□	□	□	□	□	□	□	□	□	□	□	□	□
	Structural Clay Tile														
	Wood														
Steel															
Anchor Diameter	3/16"														
	1/4"	■	■	■	■	■	■	■	■		■	■		■	■
	5/16"		■			■	■	■	■						
	8 mm									■					
	3/8"	■	■	■	■	■	■	■	■		■	■			
	1/2"		■	■	■	■	■	■	■		■	■			
	5/8"		■	■		■	■		■						
3/4"			■		■	■		■							
Head Style	Mushroom Head										■	■	■	■	■
	Round Head														■
	Flat Head (Countersunk)										■	■		■	■
	Tie-Wire										■	■			
	Removable												■		
	Tamperproof										■	■		■	■
Flush Mount	■	■	■	■	■	■	■	■				■			
Coating/Material	Coated / Plated Carbon Steel	■	■	■	■						■	■	■	■	■
	Galvanized Steel														
	Type 303/304 Stainless Steel		■	■									■	■	■
	Type 316 Stainless Steel			■						■	■				
	Type 410 Stainless Steel														
	Zamac Alloy		■			■	■	■	■				■	■	
	Perma-Seal Coated												■		
	Nylon / Plastic														■
Lead															

■ - Suitable
□ - May Be Suitable

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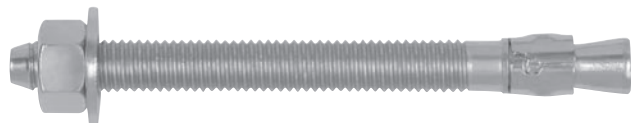


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MECHANICAL ANCHORS

Powers
FASTENERS

POWER STUD™+



POWER STUD™ +SD1

Carbon steel body plus carbon steel clip

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
07400	7400SD1	Power-Stud+ SD1 CS	1/4" x 1-3/4"	100	500
07402	7402SD1	Power-Stud+ SD1 CS	1/4" x 2-1/4"	100	500
07404	7404SD1	Power-Stud+ SD1 CS	1/4" x 3-1/4"	100	500
07410	7410SD1	Power-Stud+ SD1 CS	3/8" x 2-1/4"	100	500
07412	7412SD1	Power-Stud+ SD1 CS	3/8" x 2-3/4"	100	500
07413	7413SD1	Power-Stud+ SD1 CS	3/8" x 3"	100	500
07414	7414SD1	Power-Stud+ SD1 CS	3/8" x 3-1/2"	100	500
07415	7415SD1	Power-Stud+ SD1 CS	3/8" x 3-3/4"	100	500
07416	7416SD1	Power-Stud+ SD1 CS	3/8" x 5"	100	500
07417	7417SD1	Power-Stud+ SD1 CS	3/8" x 7"	100	500
07420	7420SD1	Power-Stud+ SD1 CS	1/2" x 2-3/4"	100	500
07422	7422SD1	Power-Stud+ SD1 CS	1/2" x 3-3/4"	100	500
07423	7423SD1	Power-Stud+ SD1 CS	1/2" x 4-1/4"	100	500
07424	7424SD1	Power-Stud+ SD1 CS	1/2" x 5-1/2"	100	500
07426	7426SD1	Power-Stud+ SD1 CS	1/2" x 7"	100	500
07427	7427SD1	Power-Stud+ SD1 CS	1/2" x 8-1/2"	100	500
07430	7430SD1	Power-Stud+ SD1 CS	5/8" x 3-1/2"	100	500
07432	7432SD1	Power-Stud+ SD1 CS	5/8" x 4-1/2"	100	500
07433	7433SD1	Power-Stud+ SD1 CS	5/8" x 5"	100	500
07434	7434SD1	Power-Stud+ SD1 CS	5/8" x 6"	100	500
07436	7436SD1	Power-Stud+ SD1 CS	5/8" x 7"	100	500
07438	7438SD1	Power-Stud+ SD1 CS	5/8" x 8-1/2"	100	500
07439	7439SD1	Power-Stud+ SD1 CS	5/8" x 10"	100	500
07440	7440SD1	Power-Stud+ SD1 CS	3/4" x 4-1/4"	100	500
07441	7441SD1	Power-Stud+ SD1 CS	3/4" x 4-3/4"	100	500
07442	7442SD1	Power-Stud+ SD1 CS	3/4" x 5-1/2"	100	500
07444	7444SD1	Power-Stud+ SD1 CS	3/4" x 6-1/4"	100	500
07446	7446SD1	Power-Stud+ SD1 CS	3/4" x 7"	100	500
07448	7448SD1	Power-Stud+ SD1 CS	3/4" x 8-1/2"	100	500
07449	7449SD1	Power-Stud+ SD1 CS	3/4" x 10"	100	500
07450	7450SD1	Power-Stud+ SD1 CS	7/8" x 6"	100	500
07451	7451SD1	Power-Stud+ SD1 CS	3/4" x 12"	100	500
07452	7452SD1	Power-Stud+ SD1 CS	7/8" x 8"	100	500
07454	7454SD1	Power-Stud+ SD1 CS	7/8" x 10"	100	500
07461	7461SD1	Power-Stud+ SD1 CS	1" x 6"	100	500
07463	7463SD1	Power-Stud+ SD1 CS	1" x 9"	100	500
07465	7465SD1	Power-Stud+ SD1 CS	1" x 12"	100	500
07473	7473SD1	Power-Stud+ SD1 CS	1-1/4" x 9"	100	500
07475	7475SD1	Power-Stud+ SD1 CS	1-1/4" x 12"	100	500

The POWER-STUD™ + SERIES anchors are fully threaded, torque-controlled, wedge expansion anchors designed for consistent performance in cracked and uncracked concrete. General applications include structural connections (i.e., beam and column anchorage), safety-related attachments, Interior applications / low level corrosion environment, tension zone applications (i.e., cable trays and strut, pipe supports and fire sprinklers), seismic and wind loading applications.

The Power-Stud™ + SD1 and Power-Stud™ + SD2 featured on this page are suitable for base materials that include normal-weight concrete, structural sand/lightweight concrete and concrete over metal deck.

POWER STUD™ +SD2

Carbon steel body plus stainless steel clip

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
00000	7413SD2	Power-Stud+ SD2 CS	3/8" x 3"	100	500
00000	7415SD2	Power-Stud+ SD2 CS	3/8" x 3-3/4"	100	500
00000	7416SD2	Power-Stud+ SD2 CS	3/8" x 5"	100	500
00000	7422SD2	Power-Stud+ SD2 CS	1/2" x 3-3/4"	100	500
00000	7423SD2	Power-Stud+ SD2 CS	1/2" x 4-1/2"	100	500
00000	7424SD2	Power-Stud+ SD2 CS	1/2" x 5-1/2"	100	500
00000	7426SD2	Power-Stud+ SD2 CS	1/2" x 7"	100	500
00000	7427SD2	Power-Stud+ SD2 CS	1/2" x 8-1/2"	100	500
00000	7435SD2	Power-Stud+ SD2 CS	5/8" x 4-3/4"	100	500
00000	7433SD2	Power-Stud+ SD2 CS	5/8" x 5"	100	500
00000	7434SD2	Power-Stud+ SD2 CS	5/8" x 6"	100	500
00000	7434SD2	Power-Stud+ SD2 CS	5/8" x 7"	100	500
00000	7438SD2	Power-Stud+ SD2 CS	5/8" x 8-1/2"	100	500
00000	7442SD2	Power-Stud+ SD2 CS	3/4" x 5-1/2"	100	500
00000	7444SD2	Power-Stud+ SD2 CS	3/4" x 6-1/4"	100	500
00000	7446SD2	Power-Stud+ SD2 CS	3/4" x 7"	100	500
00000	7448SD2	Power-Stud+ SD2 CS	3/4" x 8-1/2"	100	500

COMING SOON...

ADDITIONAL POWER-STUD™ + ANCHORS WILL BECOME AVAILABLE DURING 2008 PENDING FINAL APPROVALS AND LISTINGS.*

Ask your Newman representative about...

POWER-STUD™ + SD3: Galvanized body plus carbon steel clip

POWER-STUD™ + SD4: 304 Stainless steel body plus stainless steel clip

POWER-STUD™ + SD5: 316 Stainless steel body plus stainless steel clip

*APPROVALS AND LISTINGS

- International Code Council, Evaluation Service (ICC-ES), ESR Pending
- Tested in accordance with ACI 355.2 and AC193 criteria
- Evaluated and qualified by an accredited independent testing laboratory for use in cracked and uncracked concrete including seismic and wind loading
- Strength Design method according to ACI 318, Appendix D



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MECHANICAL ANCHORS



WEDGE-BOLT+



WEDGE-BOLT+

Blue Tip - Standard Fixture Hole Clearance

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
07204	7204SD	Wedge-Bolt+ SD BT	1/4" x 1-1/4"	100	500
07206	7206SD	Wedge-Bolt+ SD BT	1/4" x 1-3/4"	100	500
07208	7208SD	Wedge-Bolt+ SD BT	1/4" x 2-1/4"	100	500
07210	7210SD	Wedge-Bolt+ SD BT	1/4" x 3"	100	500
07220	7220SD	Wedge-Bolt+ SD BT	3/8" x 1-3/4"	100	500
07222	7222SD	Wedge-Bolt+ SD BT	3/8" x 2-1/2"	100	500
07224	7224SD	Wedge-Bolt+ SD BT	3/8" x 3"	100	500
07226	7226SD	Wedge-Bolt+ SD BT	3/8" x 4"	100	500
07228	7228SD	Wedge-Bolt+ SD BT	3/8" x 5"	100	500
07230	7230SD	Wedge-Bolt+ SD BT	3/8" x 6"	100	500
07240	7240SD	Wedge-Bolt+ SD BT	1/2" x 2"	100	500
07242	7242SD	Wedge-Bolt+ SD BT	1/2" x 2-1/2"	100	500
07244	7244SD	Wedge-Bolt+ SD BT	1/2" x 3"	100	500

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
07246	7246SD	Wedge-Bolt+ SD BT	1/2" x 4"	100	500
07248	7248SD	Wedge-Bolt+ SD BT	1/2" x 5"	100	500
07250	7250SD	Wedge-Bolt+ SD BT	1/2" x 6"	100	500
07260	7260SD	Wedge-Bolt+ SD BT	5/8" x 3"	100	500
07262	7262SD	Wedge-Bolt+ SD BT	5/8" x 4"	100	500
07264	7264SD	Wedge-Bolt+ SD BT	5/8" x 5"	100	500
07266	7266SD	Wedge-Bolt+ SD BT	5/8" x 6"	100	500
07280	7280SD	Wedge-Bolt+ SD BT	3/4" x 3"	100	500
07282	7282SD	Wedge-Bolt+ SD BT	3/4" x 4"	100	500
07284	7284SD	Wedge-Bolt+ SD BT	3/4" x 5"	100	500
07286	7286SD	Wedge-Bolt+ SD BT	3/4" x 6"	100	500
07288	7288SD	Wedge-Bolt+ SD BT	3/4" x 8"	100	500

WEDGE-BOLT+

Orange Tip - Oversized Fixture Holes

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
07214	7214SD	Wedge-Bolt+ SD OT	1/4" x 1-1/4"	100	500
07215	7215SD	Wedge-Bolt+ SD OT	1/4" x 3"	100	500
07216	7216SD	Wedge-Bolt+ SD OT	3/8" x 4"	100	500
07217	7217SD	Wedge-Bolt+ SD OT	1/2" x 4"	100	500
07218	7218SD	Wedge-Bolt+ SD OT	1/2" x 5"	100	500
07219	7219SD	Wedge-Bolt+ SD OT	5/8" x 4"	100	500

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
07221	7221SD	Wedge-Bolt+ SD OT	5/8" x 5"	100	500
07227	7227SD	Wedge-Bolt+ SD OT	5/8" x 6"	100	500
07229	7229SD	Wedge-Bolt+ SD OT	5/8" x 6"	100	500
07231	7231SD	Wedge-Bolt+ SD OT	3/4" x 3"	100	500
07232	7232SD	Wedge-Bolt+ SD OT	3/4" x 8"	100	500
07233	7233SD	Wedge-Bolt+ SD OT	1/2" X 6-1/2"	100	500

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MECHANICAL ANCHORS

LOK-BOLT™ SLEEVE TYPE EXPANSION ANCHORS

Powers
FASTENERS

BASE MATERIAL

Concrete, Block, Brick

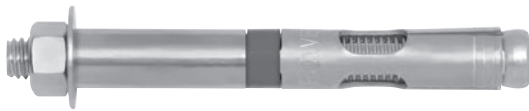
SIZE RANGE

1/4" x 5/8" to 3/4" x 7-1/2"

ANCHOR MATERIAL

Carbon Steel & Stainless Steel

The Lok-Bolt™ anchor is a pre-assembled single unit sleeve anchor available in carbon steel and stainless steel which can be used in concrete, block, brick and stone. Extension sleeves are added to create longer lengths.



HEX NUT LOK-BOLT™ CARBON STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
5005	5/16" x 1-1/2"	5/16"	1-3/8"	100	1000
5010	5/16" x 2-1/2"	5/16"	1-1/2"	100	500
5015	3/8" x 1-7/8"	3/8"	1-5/8"	50	500
5020	3/8" x 3"	3/8"	1-5/8"	50	500
5022	3/8" x 4"	3/8"	1-5/8"	50	250
5025	1/2" x 2-1/4"	1/2"	2-1/8"	25	250
5030	1/2" x 3"	1/2"	2-1/4"	25	250
5034	1/2" x 4"	1/2"	2-1/4"	25	125
5033	1/2" x 5-1/4"	1/2"	2-1/4"	25	125
5032	1/2" x 6"	1/2"	2-1/4"	10	100
5035	5/8" x 2-1/4"	5/8"	2-1/8"	25	125
5038	5/8" x 3"	5/8"	2-3/4"	25	125
5040	5/8" x 4-1/4"	5/8"	2-3/4"	10	100
5045	5/8" x 6"	5/8"	2-3/4"	10	100
5050	3/4" x 2-1/2"	3/4"	2-1/8"	10	100
5055	3/4" x 4"	3/4"	3-3/8"	10	40
5060	3/4" x 5-3/4"	3/4"	3-3/8"	10	30
5065	3/4" x 7-1/2"	3/4"	3-3/8"	10	30

The published length is measured from below the washer to the end of the anchor.

HEX NUT LOK-BOLT™ 304 STAINLESS STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
6152	3/8" x 1-7/8"	3/8"	1-5/8"	50	500
6153	3/8" x 3"	3/8"	1-5/8"	50	500
6156	1/2" x 2-1/4"	1/2"	2-1/8"	25	250
6157	1/2" x 3"	1/2"	2-1/4"	25	250
6160	1/2" x 4"	1/2"	2-1/4"	25	125
6164	5/8" x 4-1/4"	5/8"	2-3/4"	10	100
6168	3/4" x 4"	3/4"	3-3/8"	10	40

The published length is measured from below the washer to the end of the anchor.



ACORN NUT LOK-BOLT™ CARBON STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
5125**	1/4" x 5/8"	1/4"	1/2"	100	1000
5150	1/4" x 1-3/8"	1/4"	1-1/8"	100	1000
5175	1/4" x 2-1/4"	1/4"	1-1/8"	100	1000

The published length is measured from below the washer to the end of the anchor.

** This size does not have a compression ring.

ACORN NUT LOK-BOLT™ 304 STAINLESS STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
6150	1/4" x 1-3/8"	1/4"	1-1/8"	100	1000

The published length is measured from below the washer to the end of the anchor.



ROUND HEAD LOK-BOLT™ CARBON STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
5205**	1/4" x 1-1/8"	1/4"	1"	100	1000
5210	1/4" x 2"	1/4"	1-1/8"	100	1000
5215	1/4" x 2-3/4"	1/4"	1-1/8"	100	1000
5235	3/8" x 2-1/2"	3/8"	1-5/8"	50	500
5240	3/8" x 3-3/4"	3/8"	1-5/8"	50	250

** This size does not have a compression ring.

ROUND HEAD LOK-BOLT™ 304 STAINLESS STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
6180	1/4" x 2"	1/4"	1-1/8"	100	1000

Think Safety First...

WE DO!

Our Safety Section
Begins on Page 1.





MECHANICAL ANCHORS



LOK-BOLT™ SLEEVE TYPE EXPANSION ANCHORS



COMBO FLAT HEAD LOK-BOLT™ CARBON STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
5305**	1/4" x 1-1/8"	1/4"	1"	100	1000
5310	1/4" x 2"	1/4"	1-1/8"	100	1000
5315	1/4" x 3"	1/4"	1-1/8"	100	1000
5320	1/4" x 4"	1/4"	1-1/8"	100	500
5325	1/4" x 5-1/4"	1/4"	1-1/8"	100	500
5330	5/16" x 2-1/2"	5/16"	1-1/2"	100	1000
5340	3/8" x 2-3/4"	3/8"	1-5/8"	50	500
5345	3/8" x 4"	3/8"	1-5/8"	50	250
5350	3/8" x 5"	3/8"	1-5/8"	50	250
5360	3/8" x 6"	3/8"	1-5/8"	50	250

** This size does not have a compression ring.

COMBO FLAT HEAD LOK-BOLT™ 304 STAINLESS STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
6170	1/4" x 2"	1/4"	1-1/8"	100	1000
6172	1/4" x 3"	1/4"	1-1/8"	100	1000
6174	3/8" x 4"	3/8"	1-5/8"	50	250
6175	3/8" x 5"	3/8"	1-5/8"	50	250
6176	3/8" x 6"	3/8"	1-5/8"	50	250

These parts do not have a compression ring.



THRESHOLD FLAT HEAD LOK-BOLT™

CAT. NO.	SIZE	DRILL DIA.	MIN. DEPTH	STD. BOX	STD. CTN.
5500	1/4" x 2"	1/4"	1-1/8"	100	1000

This part does not have a compression ring.



ROD HANGER LOK-BOLT™ CARBON STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
5810	1/4" x 1-1/2"	5/16"	1-1/2"	50	250
5815**	3/8" x 1-7/8"	3/8"	1-5/8"	50	250
5825**	1/2" x 2-1/4"	1/2"	2-1/4"	25	125

** This size does not have a compression ring.



TIE-WIRE LOK-BOLT™

CAT. NO.	SIZE	DRILL DIA.	MIN. DEPTH	STD. BOX	STD. CTN.
5700	5/16" x 1-1/2"	5/16"	1-1/2"	100	1000



LOK-BOLT™ EXTENDERS CARBON STEEL

(FOR ADDITIONAL LENGTH)					
CAT. NO.	SIZE	DRILL DIA.	STD. BOX	STD. CTN.	
5684	3/8" x 1-1/4"	3/8"	50	500	



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MECHANICAL ANCHORS

TAPPER™ CONCRETE SCREWS AND DRILL BITS

Powers
FASTENERS

BASE MATERIAL

Concrete, Block and Brick

SIZE RANGE

3/16" x 1-1/4" to 3/8" x 6"

ANCHOR MATERIAL

Carbon Steel, Type 304 & Type 410 Stainless Steel


BLUE PERMA-SEAL™ TAPPER™ HEX HEAD

STANDARD PACKAGING-100 SCREWS AND 1 DRILL PER BOX

CAT. NO.	SIZE	STD. BOX	STD. CTN.	DRILL REFERENCES	
				STRAIGHT	SDS HEX
2700	3/16" x 1-1/4"	100	500	2781	2793
2702	3/16" x 1-3/4"	100	500	2781	2793
2704	3/16" x 2-1/4"	100	500	2782	2793
2706	3/16" x 2-3/4"	100	500	2782	2793
2708	3/16" x 3-1/4"	100	500	2783	2794
2710	3/16" x 3-3/4"	100	500	2783	2794
2712	3/16" x 4"	100	500	2783	2794
2720	1/4" x 1-1/4"	100	500	2785	2796
2722	1/4" x 1-3/4"	100	500	2785	2796
2724	1/4" x 2-1/4"	100	500	2786	2796
2726	1/4" x 2-3/4"	100	500	2786	2796
2728	1/4" x 3-1/4"	100	500	2787	2797
2730	1/4" x 3-3/4"	100	500	2787	2797
2732	1/4" x 4"	100	500	2787	2797


BLUE PERMA-SEAL™ TAPPER™ PHILLIPS FLAT HEAD

STANDARD PACKAGING-100 SCREWS AND 1 DRILL PER BOX

CAT. NO.	SIZE	STD. BOX	STD. CTN.	DRILL REFERENCES	
				STRAIGHT	SDS HEX
2740	3/16" x 1-1/4"	100	500	2781	2793
2742	3/16" x 1-3/4"	100	500	2781	2793
2744	3/16" x 2-1/4"	100	500	2782	2793
2746	3/16" x 2-3/4"	100	500	2782	2793
2748	3/16" x 3-1/4"	100	500	2783	2794
2750	3/16" x 3-3/4"	100	500	2783	2794
2752	3/16" x 4"	100	500	2783	2794
2760	1/4" x 1-1/4"	100	500	2785	2796
2762	1/4" x 1-3/4"	100	500	2785	2796
2764	1/4" x 2-1/4"	100	500	2786	2796
2766	1/4" x 2-3/4"	100	500	2786	2796
2768	1/4" x 3-1/4"	100	500	2787	2797
2770	1/4" x 3-3/4"	100	500	2787	2797
2772	1/4" x 4"	100	500	2787	2797
2774	1/4" x 5"	100	100	2788	-
2776	1/4" x 6"	100	100	2789	-

The TAPPER™ Anchoring System is a family of screw anchors, specially designed drill bits and installation tools designed to meet the needs of most light to medium duty applications in concrete, block and brick. The TAPPER™ concrete screw anchor is produced in either hex washer head or Phillips flat head styles from Perma-Seal™ coated carbon steel and Type 304 and Type 410 stainless steel. The 3/8" size is made in zinc plated carbon steel.


CARBIDE DRILL BITS FOR PERMA-SEAL™ AND 410 SS TAPPER™

TAPPER™ Drill Bits in the diameters listed are nominal size. 3/16" and 1/4" Perma-Seal™ TAPPER™ anchors must be installed with special tolerance TAPPER™ drill bits. 1/4" Stainless Steel TAPPER™ anchors require the use of specific tolerance TAPPER™ drill bits, which are gold or silver colored, to denote the standard size and special application size for harder materials. 3/8" diameter TAPPER™ anchors should be installed with a 1/4" ANSI drill bit.

Tolerance Range = 0.168" to 0.175" for the 5/32" and 0.202" to 0.204" for the 3/16" bits. (Do not use with Type 304 Stainless Steel TAPPER™)

STRAIGHT SHANK

CAT. NO.	SIZE	USABLE LENGTH	STD. TUBE
2781	5/32" x 3-1/2"	2"	10
2782	5/32" x 4-1/2"	3"	10
2783	5/32" x 5-1/2"	4"	10
2785	3/16" x 3-1/2"	2"	10
2786	3/16" x 4-1/2"	3"	10
2787	3/16" x 5-1/2"	4"	10
2788	3/16" x 6-1/2"	5"	10
2789	3/16" x 7-1/2"	6"	10


SDS HEX

CAT. NO.	SIZE	USABLE LENGTH	STD. TUBE
2793	5/32" x 5"	3"	1
2794	5/32" x 7"	5"	1
2796	3/16" x 5"	3"	1
2797	3/16" x 7"	5"	1



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MECHANICAL ANCHORS

TAPPER™ INSTALLATION TOOLS & ACCESSORIES

Powers
FASTENERS



INSTALLATION TOOLS FOR 3/16" AND 1/4" TAPPER™

CAT. NO.	DESCRIPTION	MAX SCREW LENGTH	MAX. BIT LENGTH	STD. BOX
2791	TAPPER™ 1000 Tool (as shown)	4"	5-1/2"	1
2792*	CONDRIVE®† 2000	2-3/4"	4-1/2"	1
2795	1000 SDS Extension (8")	6"	7-1/2"	1

* This tool cannot be used with SDS Drill Bits or PFH screws.



CONDRIVE®† 2000 REPLACEMENT PARTS

CAT. NO.	DESCRIPTION	STD. BOX
2956	1/4" Hex Key	1
2957	5/16" Hex Key	1

† CONDRIVE® is a Registered Trademark of Illinois Tool Works.

TAPPER 3000 TOOL KIT

CAT. NO.	DESCRIPTION	BOX	CARTON
5865	Hex Driver (use with cat. #5860) Sleeve Assembly (same as cat. #5874) 1/4" and 3/8" concrete drive sockets (blue)	1	10
5874	Sleeve Assembly	1	-

CAT. NO.	DESCRIPTION	USABLE LENGTH	STD. TUBE	WT./10
5866	1/4" x 6" Hex Shank SDS Drill Bit	4"	1	1/2



TAPPER™ 1000 REPLACEMENT PARTS

CAT. NO.	DESCRIPTION	STD. BOX
2953	Drive Sleeve Assy. (5-3/4")	1
2964	Blue 3/16" Hex Wedge-Bolt® Socket	1



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MECHANICAL ANCHORS

SLAKE™ INTERNALLY THREADED SELF-TAPPING ANCHOR

Powers
FASTENERS


BASE MATERIAL

Concrete

SIZE RANGE

1/4" and 3/8" diameter

ANCHOR MATERIAL

Carbon Steel

The Snake+ anchor is an all-steel, internally threaded, self-tapping screw anchor designed for use in cracked and uncracked concrete and is suitable for overhead anchoring applications. The Snake+ design allows for shallow embedment and can be installed in normal-weight concrete, structural sand-lightweight concrete and concrete over metal deck. The Snake+ screw anchor is installed with a power tool and Snake+ setting tool and mechanically interlocks with the base material. A hammer is not required for installation.

APPLICATIONS AND USES

- Suspending Conduit
- Cable Trays and Strut
- Pipe Supports
- Fire Sprinklers
- Suspended Lighting



SLAKE+ SD
SETTING TOOL

SLAKE+

All steel, self-tapping machine bolt anchor.

CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
6401SD	SLAKE+ Internally Threaded	3/8"	50	500
6407SD	SLAKE+ SD Setting Tool	3/8"	1	-

HOLLOW-SET™ DROPINS AND SETTING TOOL



Internally Threaded Expansion Anchor

BASE MATERIAL

Concrete, Block, Brick, Pre-cast Hollow Core Plank, Stone

SIZE RANGE

1/4" to 5/8"

ANCHOR MATERIAL

Zamac Alloy with Carbon Steel or Stainless Steel Cones

The Hollow-Set™ Dropin anchor is designed for anchoring in hollow base materials such as hollow concrete block, brick with weep holes and hollow core pre-cast concrete plank. It can also be used in solid base materials.

Hollow masonry materials often have a minimum outer wall thickness of 1-1/2".

During the drilling process, spalling on the back side of the wall often decreases the wall thickness available for anchoring to 1" or less. The design of the Hollow-Set™ Dropin overcomes this problem.

ZAMAC BODY WITH CARBON STEEL CONE

CAT. NO.	SIZE	DRILL DIA.	OVERALL LENGTH	SLEEVE LENGTH	STD. BOX	STD. CTN.
9320	1/4"	3/8"	7/8"	5/8"	100	1000
9330	5/16"	5/8"	1-5/16"	15/16"	50	500
9340	3/8"	5/8"	1-5/16"	15/16"	50	500
9350	1/2"	3/4"	1-3/4"	1-1/4"	50	250
9360	5/8"	1"	2"	1-1/2"	25	125

ZAMAC BODY WITH STAINLESS STEEL CONE

CAT. NO.	SIZE	DRILL DIA.	OVERALL LENGTH	SLEEVE LENGTH	STD. BOX	STD. CTN.
9420	1/4"	3/8"	7/8"	5/8"	100	1000
9440	3/8"	5/8"	1-5/16"	15/16"	100	500



For solid base materials

SETTING TOOLS - SOLID BASE MATERIALS

CAT. NO.	SIZE	STD. BOX	STD. CTN.
9322	1/4"	1	1
9342	5/16" & 3/8"	1	1
9352	1/2"	1	1
9362	5/8"	1	1



For hollow base materials

SETTING TOOLS - HOLLOW BASE MATERIALS

CAT. NO.	SIZE	STD. BOX	STD. CTN.
9323	1/4"	1	1
9333	5/16"	1	1
9343	3/8"	1	1
9353	1/2"	1	1
9363	5/8"	1	1



MECHANICAL ANCHORS



STEEL DROPINS AND SETTING TOOL



Internally Threaded Expansion Anchor

BASE MATERIAL

Solid Concrete, Solid Block, Hard Stone

SIZE RANGE

1/4" to 3/4" Standard Thread, 1/2" & 3/4" in Coil Thread

ANCHOR MATERIAL

Carbon Steel and Type 303 or 316 Stainless Steel

The Steel Dropin is an all-steel, machine bolt anchor available in carbon steel and two types of stainless steel. It can be used in solid concrete, hard stone, and solid block. A coil-thread version for forming applications is also available. A setting tool is also available in each standard carton.

CARBON STEEL DROPIN (SMOOTH WALL)

CAT. NO.	SIZE	DRILL DIA.	MIN. DEPTH	THREAD DEPTH	STD. BOX	STD. CTN.
6304	1/4"	3/8"	1"	7/16"	100	1000
6306	3/8"	1/2"	1-9/16"	5/8"	50	500
6308	1/2"	5/8"	2"	13/16"	50	250
6320	5/8"	7/8"	2-1/2"	1-3/16"	25	125
6312	3/4"	1"	3-3/16"	1-3/8"	10	50

CARBON STEEL FLANGED DROPIN (LIPPED)

CAT. NO.	SIZE	DRILL DIA.	MIN. DEPTH	THREAD DEPTH	STD. BOX	STD. CTN.
6324	1/4"	3/8"	1"	7/16"	100	1000
6326	3/8"	1/2"	1-9/16"	5/8"	50	500
6328	1/2"	5/8"	2"	13/16"	50	250

CARBON STEEL KNURLED WALL DROPIN

CAT. NO.	ROD/ANCHOR SIZE	OVERALL LENGTH	THREAD DEPTH	STD. BOX	STD. CTN.
6340	1/4"	1"	7/16"	100	1000
6342	3/8"	1-9/16"	5/8"	50	250
6344	1/2"	2"	13/16"	50	250

TYPE 303 STAINLESS STEEL DROPIN

CAT. NO.	SIZE	DRILL DIA.	MIN. DEPTH	THREAD DEPTH	STD. BOX	STD. CTN.
6204	1/4"	3/8"	1"	7/16"	100	1000
6206	3/8"	1/2"	1-9/16"	5/8"	50	500
6208	1/2"	5/8"	2"	13/16"	50	250
6210	5/8"	7/8"	2-1/2"	1-3/16"	25	125
6212	3/4"	1"	3-3/16"	1-3/8"	10	50

TYPE 316 STAINLESS STEEL DROPIN

CAT. NO.	SIZE	DRILL DIA.	MIN. DEPTH	THREAD DEPTH	STD. BOX	STD. CTN.
6224	1/4"	3/8"	1"	7/16"	100	1000
6226	3/8"	1/2"	1-9/16"	5/8"	50	500
6228	1/2"	5/8"	2"	13/16"	50	250
6230	5/8"	7/8"	2-1/2"	1-3/16"	25	125

CARBON STEEL COIL THREAD DROPIN

CAT. NO.	SIZE	DRILL DIA.	MIN. DEPTH	THREAD DEPTH	STD. BOX	STD. CTN.
6330	1/2"	5/8"	2"	13/16"	50	250
6332	3/4"	1"	3-3/16"	1-3/8"	10	50

Use Setting Tool Cat. No. 6309 for 1/2" size, Cat. No. 6313 for 3/4" size.



SETTING TOOLS FOR STEEL DROPIN ANCHORS

CAT. NO.	SIZE	STD. BOX	STD. CTN.
6305	1/4"	1	250
6307	3/8"	1	100
6309	1/2"	1	100
6311	5/8"	1	50
6313	3/4"	1	25

MINI DROPINS AND SETTING TOOL



Internally Threaded Expansion Anchor

BASE MATERIAL

Pre-cast Hollow Core Plank, Concrete

SIZE RANGE

1/4", 3/8" and 1/2"

ANCHOR MATERIAL

Carbon Steel

The Mini Dropin is a carbon steel, machine bolt anchor used in shallow embedment applications. It can be used in solid concrete and hollow core concrete plank, and it can be used in hard stone and solid block. It may also be used in overhead applications.

CAT. NO.	SIZE	DRILL DIA.	MIN. DEPTH	THREAD DEPTH	STD. BOX	STD. CTN.
6335	1/4"	3/8"	5/8"	3/8"	100	1000
6322	3/8"	1/2"	3/4"	13/32"	100	1000
6337	1/2"	5/8"	1"	5/8"	50	250

SETTING TOOLS

CAT. NO.	SIZE	STD. BOX	STD. CTN.
6336	1/4"	1	50
6323	3/8"	1	50
6338	1/2"	1	50



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MECHANICAL ANCHORS

VERTIGO™ ROD HANGER SYSTEMS



BASE MATERIAL	Steel, Wood, Concrete
SIZE RANGE	1/4" - 1/2"
ANCHOR MATERIAL	Carbon Steel
PRODUCT DESCRIPTION	



WOOD VERTICAL HANGER

CAT NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	POINT STYLE	BOX	CARTON
7163	1/4"	1/4" x 2"	Type 17	100	500
7203	3/8"	1/4" x 1"	Type 17	100	500
7165	3/8"	1/4" x 2"	Type 17	100	500
7167	3/8"	1/4" x 3"	Type 17	100	500
7169	3/8"	1/4" x 4"	Type 17	100	500
7162	3/8"	3/8" x 2-1/2"	Type 17	100	500
7164	1/2"	3/8" x 2-1/2"	Type 17	100	500

Vertigo is a one-piece, all steel threaded fastening system for suspending steel threaded rod and other assemblies. Vertigo can be installed in a variety of materials including steel bar joists and beams, wood frame columns and beams, as well as concrete beams and columns. In wood and steel base materials, Vertigo is also offered in a side mount style for lateral installation of 1/4" and 3/8" diameter steel threaded rods onto joists, columns and trusses. For all steel and wood Vertigo fasteners, a red Vertigo Socket Driver is recommended to provide proper installation with a screw gun or hammer drill in "rotation only" mode. Concrete Vertigo fasteners should be installed with the appropriate size standard drive sockets and hammer drill or powered impact wrench.



WOOD SIDE HANGER

CAT NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	POINT STYLE	BOX	CARTON
7185	1/4"	1/4 x 1"	Type 17	100	500
7205	3/8"	1/4 x 1"	Type 17	100	500
7170	3/8"	1/4 x 2"	Type 17	100	500
7156	3/8"	3/8 x 2-1/2"	Type 17	100	500

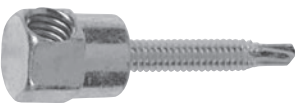
STEEL VERTICAL HANGER

CAT NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	POINT STYLE	BOX	CARTON
#3 FOR PURLINS					
7155	1/4"	1/4-20 x 1"	#3	100	500
7157	3/8"	1/4-20 x 2"	#3	100	500
7158	3/8"	1/4-20 x 1" (w/nuts)	#3	100	500
7159	3/8"	1/4-20 x 1-1/2"	#3	100	500
7160	3/8"	1/4-20 x 1-1/2" (w/nuts)	#3	100	500
#5 FOR BEAMS					
7152	1/4"	12-24 x 1-1/2"	#5	100	500
7154	3/8"	12-24 x 1-1/2" (w/nuts)	#5	100	500
7161	1/2"	12-24 x 1-1/2" (w/nuts)	#5	100	500

CONCRETE VERTICAL HANGER

CAT NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	POINT STYLE	BOX	CARTON
7171	1/4"	1/4 x 1-1/4"	ANSI WB thread	100	500
7173	3/8"	1/4 x 1-1/2"	ANSI WB thread	100	500
7175	1/2"	3/8 x 2-3/4"	ANSI WB thread	50	250

For Side Mount Concrete Applications use Cat. No. 7185 and 7170 with a 1/4" ANSI Drill Bit



STEEL SIDE HANGER

CAT NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	POINT STYLE	BOX	CARTON
#3 FOR PURLINS					
7183	1/4"	1/4-20 x 1"	#3	100	500
7184	3/8"	1/4-20 x 1" (w/nuts)	#3	100	500
7186	3/8"	1/4-20 x 1-1/2" (w/nuts)	#3	100	500
7188	3/8"	1/4-20 x 2" (w/nuts)	#3	100	500
#5 FOR BEAMS					
7200	1/4"	12-24 x 1-1/2"	#5	50	250
7201	3/8"	12-24 x 1-1/2" (w/nuts)	#5	100	500

VERTIGO™ ACCESSORIES



DRIVER SOCKET

CAT NO.	DESCRIPTION	COLOR	BOX	CARTON
7187	Universal Steel & Wood Socket	Red	5	25
7195	1/4" Concrete Socket	Blue	5	25
7197	3/8" Concrete Socket	Blue	5	25
7198	1/2" Concrete Socket	Blue	5	25

POLE TOOL

CAT NO.	DESCRIPTION	BOX	CARTON
7166	6'-12' Pole Tool (includes three Jaw Chuck)	1	1



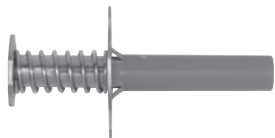
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MECHANICAL ANCHORS



BANG-IT CONCRETE INSERTS



BASE MATERIAL

Concrete, Lightweight Concrete

SIZE RANGE

1/4" to 7/8"

ANCHOR MATERIAL

Carbon Steel and Engineered Plastic

Bang-It Concrete Inserts are designed for installation through pre-drilled metal composite deck (i.e. "pan deck") used to support a newly poured concrete floor or roof slab. Depending upon the size/color chosen, the protective sleeve protrudes below the surface of the deck allowing overhead attachment of steel threaded rod in sizes ranging from 1/4" to 7/8" in diameter. The protective sleeve prevents sprayed fireproofing material and acoustical dampening products from clogging the internal threads of the insert inside, as well as burying, masking or losing the insert location. The unique, six-sided impact plate offers resistance to rotation within the concrete as a steel threaded rod is being installed.

CAT. NO.	DESCRIPTION	PRE DRILLED HOLE	STD. BOX	PALLET QTY.
7540	1/4" Brown Bang-It™	13/16"	100	4000
7542	3/8" Green Bang-It™	13/16"	100	4000
7544	1/2" Yellow Bang-It™	13/16"	100	4000
7546	5/8" Red Bang-It™	1-3/16"	50	2400
7548	3/4" Purple Bang-It™	1-3/16"	50	2400
7549	7/8" Black Bang-It™	1-3/16"	50	2400
7560	Bang-It Deck Driller		1	
7562	13/16" Carbide Hole Saw for 1/4", 3/8" and 1/2"		1	
7564	1-3/16" Carbide Hole Saw for 5/8", 3/4" and 7/8"		1	
7566	Carbide Hole Saw Center Bit		1	

WOOD-KNOCKER CONCRETE INSERTS



BASE MATERIAL

Concrete, Lightweight Concrete

SIZE RANGE

1/4" to 3/4"

ANCHOR MATERIAL

Carbon Steel and Engineered Plastic

Wood-Knocker Concrete Inserts are installed onto wooden forms used to support a newly poured concrete floor slabs, roof slabs or walls. When the forms are stripped, the color-coded flange is easily seen embedded in the concrete surface allowing attachment of steel threaded rod or threaded bolts in sizes ranging from 1/4" to 3/4" in diameter. The unique six-sided impact plate offers resistance to rotation within the concrete as a steel threaded rod or threaded bolt is being installed.

CAT. NO.	DESCRIPTION	STD. BOX	PALLET QTY.
7550	1/4" Brown Wood Knocker™	200	9600
7552	3/8" Green Wood Knocker™	200	9600
7554	1/2" Yellow Wood Knocker™	200	9600
7556	5/8" Red Wood Knocker™	150	6000
7558	3/4" Purple Wood Knocker™	150	6000
7567	1/2" Coil Thread WK	200	9600
7568	3/4" Coil Thread WK	150	6000

1/2" and 3/4" coil thread Wood-Knockers are available upon request for Framing Applications.

SPIKE™ PRE-EXPANDED ANCHORS



BASE MATERIAL

Concrete, Block

SIZE RANGE

3/16" x 1" to 1/2" x 6-1/2"

ANCHOR MATERIAL

Carbon Steel and Type 316 Stainless Steel

The SPIKE® anchor is a patented, one-piece, tamper-proof anchor for use in concrete block, brick or stone. Several head styles are available and offered in Carbon and Type 316 Stainless Steel. The SPIKE® anchor is formed with an "s" shaped configuration at the working end of the anchor to create an expansion mechanism. Since the anchor is pre-expanded, there is no secondary tightening operation.

MUSHROOM HEAD TYPE 316 STAINLESS STEEL SPIKE®

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
6602	3/16" x 1"	3/16"	7/8"	100	1000
6603	3/16" x 1-1/4"	3/16"	7/8"	100	1000
6604	3/16" x 1-1/2"	3/16"	1-1/4"	100	1000
6606	3/16" x 2"	3/16"	1-1/4"	100	1000
6623	1/4" x 1-1/4"	1/4"	1"	100	1000
6624	1/4" x 1-1/2"	1/4"	1-1/4"	100	1000
6626	1/4" x 2"	1/4"	1-1/4"	100	1000
6628	1/4" x 2-1/2"	1/4"	1-1/4"	100	1000
6630	1/4" x 3"	1/4"	1-1/4"	100	1000
6646	3/8" x 2"	3/8"	1-3/4"	25	250
6648	3/8" x 2-1/2"	3/8"	1-3/4"	25	250
6650	3/8" x 3"	3/8"	1-3/4"	25	250

The published length is measured from below the head to the end of the anchor.

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MECHANICAL ANCHORS

SPIKE® PRE-EXPANDED ANCHORS

Powers
FASTENERS

MUSHROOM HEAD GRADE 8.2 CARBON STEEL SPIKE®

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
5502	3/16" x 1"	3/16"	7/8"	100	1000
5503	3/16" x 1-1/4"	3/16"	7/8"	100	1000
5504	3/16" x 1-1/2"	3/16"	1-1/4"	100	1000
5506	3/16" x 2"	3/16"	1-1/4"	100	1000
5508	3/16" x 2-1/2"	3/16"	1-1/4"	100	1000
5510	3/16" x 3"	3/16"	1-1/4"	100	1000
5511	3/16" x 3-1/2"	3/16"	1-1/4"	100	1000
5512	3/16" x 4"	3/16"	1-1/4"	100	500
5522	1/4" x 1"	1/4"	7/8"	100	1000
5523	1/4" x 1-1/4"	1/4"	1"	100	1000
5524	1/4" x 1-1/2"	1/4"	1-1/4"	100	1000
5526	1/4" x 2"	1/4"	1-1/4"	100	1000
5528	1/4" x 2-1/2"	1/4"	1-1/4"	100	1000
5530	1/4" x 3"	1/4"	1-1/4"	100	1000
5531	1/4" x 3-1/2"	1/4"	1-1/4"	100	1000
5532	1/4" x 4"	1/4"	1-1/4"	100	1000
5546	3/8" x 2"	3/8"	1-3/4"	25	250
5548	3/8" x 2-1/2"	3/8"	1-3/4"	25	250
5550	3/8" x 3"	3/8"	1-3/4"	25	250
5551	3/8" x 3-1/2"	3/8"	1-3/4"	25	250
5552	3/8" x 4"	3/8"	1-3/4"	25	250
5554	3/8" x 5"	3/8"	1-3/4"	25	250
5556	3/8" x 6"	3/8"	1-3/4"	25	250
5569	1/2" x 2-3/4"	1/2"	2-1/2"	50	200
5571	1/2" x 3-1/2"	1/2"	2-1/2"	50	150
5572	1/2" x 4"	1/2"	2-1/2"	25	150
5574	1/2" x 5"	1/2"	2-1/2"	25	150
5577	1/2" x 6-1/2"	1/2"	2-1/2"	25	150

The published length is measured from below the head to the end of the anchor.



FLAT HEAD GRADE 8.2 CARBON STEEL SPIKE®

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
5608	3/16" x 2-1/2"	3/16"	1-1/4"	100	1000
5610	3/16" x 3"	3/16"	1-1/4"	100	1000
5612	3/16" x 4"	3/16"	1-1/4"	100	1000
5624	1/4" x 1-1/2"	1/4"	1-1/4"	100	1000
5626	1/4" x 2"	1/4"	1-1/4"	100	1000
5628	1/4" x 2-1/2"	1/4"	1-1/4"	100	1000
5630	1/4" x 3"	1/4"	1-1/4"	100	1000
5631	1/4" x 3-1/2"	1/4"	1-1/4"	100	1000
5632	1/4" x 4"	1/4"	1-1/4"	100	500

The published length is the overall length of the anchor.

SPECIAL APPLICATION SPIKE ANCHORS



ROD HANGING

PIPE SPIKE® GRADE 8.2 CARBON STEEL

CAT. NO.	HEAD SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
3755	1/4"	3/16"	1-1/4"	100	1000
3758	3/8"	1/4"	1-3/4"	50	500



SUSPENDED CEILING

TIE-WIRE SPIKE® GRADE 8.2 CARBON STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	TIE-WIRE HOLE SIZE	STD. BOX	STD. CTN.
3756	3/16"	3/16"	1-1/4"	3/16"	100	500
3759	1/4"	1/4"	1-1/4"	9/32"	100	500



CONCRETE FORMING

FORMING SPIKE® GRADE 8.2 CARBON STEEL

CAT. NO.	ANCHOR SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
3795	3/16" x 1-1/2"	3/16"	1-1/4"	100	1000
3796	3/16" x 2"	3/16"	1-1/4"	100	1000
3797	3/16" x 2-3/4"	3/16"	1-1/4"	100	1000
3794	1/4" x 2-3/4"	1/4"	1-1/4"	100	1000

SPIKE® INSTALLATION TOOLS

While the SPIKE® anchor can easily be installed using a hammer, a specially designed series of drivers and manual tools provide a fast, easy to use method for installing SPIKE® anchors into concrete and masonry materials. The tools allow SPIKE® anchors to be installed in confined areas and prevent damage to the fixture from stray hammer blows.



CAT. NO.	TOOL DESCRIPTION	GUIDE I.D.	STD. BOX
3790	SPIKE® Driver 1000	1/2"	1
3791	SPIKE® Driver 2000	1/2"	1



PIPE SPIKE® TOOL

CAT. NO.	TOOL DESCRIPTION	TIP O.D.	STD. BOX
3760	Pipe SPIKE® Setting Tool	5/16"	1



MECHANICAL ANCHORS



SAFETY PRODUCTS
TOOLS & ACCESSORIES
CONTRACTOR SUPPLIES
HANGERS & STRUT
FASTENERS & THREADED ROD
CONCRETE ANCHORS
SPECIALTY ITEMS SERVICES & DATA

Anchor Category		Metal					Plastics							
Product		Wall-Dog	Scru-Lead	Toggle-Bolt	Polly	Legs	Sharkie	Strap-Toggle	Zip-It (Also Available in Zinc)	Zip-Toggle	Poly-Toggle	Pop Toggle	Bantam Plug	Fluted Plastic
Base Material	Concrete	■	■				■				■	□	■	■
	Lightweight Concrete	□	□				■				□	□	□	□
	Hollow Core Plank	■	□	■	□		■	■			□	□	□	□
	Grout-filled Concrete Masonry	■	□				■				□	□	□	□
	Hollow Concrete Masonry	■	□	■	■		□	■			■	□	□	□
	Solid Brick	■	■				■				□	□	■	□
	Hollow Brick	□	□	□			□	□			□	□	□	□
	Stone		□				■				□	□		
	Structural Clay Tile			□	□		□	□			□	□		
	Plywood	■		■	■			□	□		□	■		
Wallboard /Plaster	■		■	■	■	□	■	■	■	■	■	■	□	
Anchor Diameter	No. 4 Screw						■							■
	No. 5 Screw						■							■
	No. 6 Screw		■			■	■		■	■	■	■	■	■
	No. 7 Screw		■			■	■		■	■	■	■	■	■
	No. 8 Screw		■			■	■		■	■	■	■	■	■
	No. 9 Screw						■			■	■	■	■	■
	No. 10 Screw		■				■	■				■	■	■
	No. 12 Screw		■				■	■				■	■	■
	No. 14 Screw		■				■	■					■	■
	No. 16 Screw		■										■	
	No. 18 Screw		■											
	1/8"			■	■									
	3/16"			■	■			■						
1/4"	■		■	■			■							
5/16"			■	■										
3/8"			■	■			■							
1/2"			■	■			■							
Head Style	Finished (Hex) Head			■	■									
	Round Head			■										
	Flat Head (Countersunk)			■	■									
	Mushroom Head	■		■	■									
	Removable	■							■					
Coating/ Material	Coated / Plated Carbon Steel	■		■	■	■		■						
	Zamac Alloy							■						
	Nylon / Plastic						■	■	■	■	■	■	■	■
	Lead		■											

■ - Suitable
□ - May Be Suitable



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MECHANICAL ANCHORS



Powers FASTENERS

WALL-DOG™

Universal Light-Duty Anchor



SIZE RANGE

3/16" Diameter x 1-1/4" Length

BASE MATERIAL

Wallboard (1/2", 5/8" & double wallboard), Plywood, Concrete, Hollow or Grout Filled Block, Brick, Plaster

ANCHOR MATERIAL

Case Hardened Steel

The Powers Wall-Dog™ is the industry's first all steel one-piece screw anchor, which features high-profile threads for easy fastening into wallboard and other masonry base materials. Its deep cutting, corkscrew-like threads provide for smooth entry and a powerful hold, and when removed the Wall-Dog leaves a much smaller hole than toggles or other systems. For fastening into wallboard or wood, no pre-drilling is required. Fastening into concrete, hollow or grout filled block, brick and plaster requires a pre-drilled 3/16" ANSI hole.

WALL-DOG™ LIGHT DUTY ANCHOR - WAFER HEAD

CAT NO.	DESCRIPTION	STD. BOX	STD. CTN.	MASTER CARTON
2277	1/4" x 1-1/2" White Wafer Head	100	500	N/A
2278	1/4" x 2" White Wafer Head	100	500	N/A
2279	1/4" x 2-1/4" White Wafer Head	100	500	N/A
2280	1/4" x 2-1/2" White Wafer Head	100	500	N/A

WALL-DOG™ LIGHT DUTY ANCHOR - OVAL HEAD

CAT NO.	DESCRIPTION	STD. BOX	STD. CTN.	MASTER CARTON
2314	1-1/4" Chrome Oval Head	100	1000	N/A
2328	1-1/4" White Oval Head	100	1000	N/A
2388	1-1/4" Black Oval Head	100	500	N/A
2329	1-1/4" Brass Oval Head	100	500	N/A

WALL-DOG™ LIGHT DUTY ANCHOR - PAN HEAD

CAT NO.	DESCRIPTION	STD. BOX	STD. CTN.	MASTER CARTON
2316	1-1/4" Chrome Pan Head	100	1000	N/A
2330	1-1/4" White Pan Head	100	1000	N/A
2273	1-1/2" White Pan Head	100	500	N/A
2274	1-1/2" Bronze Pan Head	100	500	N/A
2275	1-1/2" Zinc Pan Head	100	500	N/A
2276	1-1/2" Black Phosphate Pan Head	100	500	N/A
2286	1-1/4" Black Pan Head	100	500	N/A
2294	1-1/4" Brass Pan Head	100	500	N/A

WALL-DOG™ LIGHT DUTY ANCHOR - COMBO HWH

CAT NO.	DESCRIPTION	STD. BOX	STD. CTN.	MASTER CARTON
2265	Wall-Dog Combo HWH Chrome			5000
2271	Wall-Dog Combo HWH Chrome	100	1000	N/A
2281	1-1/4" Chrome Robertson Head			5000
2266	1-1/4" Chrome Robertson Head	100	1000	N/A

WALL-DOG™ KITS

CAT NO.	DESCRIPTION	STD. BOX	STD. CTN.
2289	Wall-Dog Kit with Screwdriver • 100 CHROME PANHEAD ANCHORS • 1 PHILLIPS® SCREWDRIVER	1	10
2332	Wall-Dog Kit with Drill Bit • 100 CHROME PANHEAD ANCHORS • 3/16" STRAIGHT SHANK BIT	1	10

ZIP-IT™



Wallboard Anchor

BASE MATERIAL

Wallboard

SIZE RANGE

Use with No. 6 or No. 8 screw

ANCHOR MATERIAL

Engineered Nylon or Zamac Alloy

The Zip-It® anchor is a one piece self drilling anchor designed for use in hollow gypsum wallboard for light duty loads. It is available in both engineered nylon and Zamac alloy for use with either a No. 6 or No. 8 screws in 3/8" to 1" wallboard. The Zip-It® Jr. is formed from engineered nylon for use with No. 6 screws in 3/8" to 5/8" wallboard.

CAT. NO.	WALL THICKNESS	DESCRIPTION	STD. BOX	STD. CTN.
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NYLON ZIP-IT®

2345	3/8" to 1"	Std. box, no screws	100	1000
2348	3/8" to 1"	Std. box, No.8 x 1" screws	100	1000
2355	3/8" to 1"	Master ctn., no screws	-	5000

ZINC ZIP-IT®

2346	3/8" to 1"	Std. box, no screws	100	1000
2349	3/8" to 1"	Std. box, No.8 x 1" screws	100	1000
2356	3/8" to 1"	Master ctn., no screws	-	1000

ZIP-IT® KITS

2368	Nylon	50 Anchors, No. 8 x 1" screws, & No. 2 Phillips Driver Bit	1	10
2369	Zinc	50 Anchors & No. 8 x 1" screws & No. 2 Phillips Driver Bit	1	10

CAT. NO.	WALL THICKNESS	DESCRIPTION	STD. BOX	STD. CTN.
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NYLON ZIP-IT JR.

2350	3/8"-5/8"	Std. Box (No screws)	100	1000
2351	3/8"-5/8"	Std. Box, No. 6 x 1" screws	100	1000

ZINC ZIP-IT JR.

2362	3/8"-5/8"	Std. Box (No screws)	100	1000
2364	3/8"-5/8"	Std. Box, No. 6 x 1" screws	100	1000
2363	3/8"-5/8"	Master Ctn. (No screws)	-	5000

ZIP-IT JR. KITS

2367	Nylon	50 Anchors, No. 6 x 1" screws, and No. 2 Phillips Driver Bit	1	10
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ADHESIVE ANCHORING SELECTION GUIDE



Anchor Category		Injection Adhesive Anchors		Glass Capsule Adhesive Anchors		Anchor Hardware			Expansion Foam		Bonding Sealant
		AC100+ Gold	PE1000+ Gold	Chem-Stud	Hammer-Capsule	Straight Cut Anchor Rod	Chisel Pointed Anchor Rod	Internally Threaded Inserts	PowerFoam	TriggerFoam	PowerStick
Base Material	Concrete	■	■	■	■	■	■	■	■	■	■
	Lightweight Concrete	■	■	□	□	■	□	□	■	■	■
	Grout-filled Concrete Masonry	■	■	□	□	■	□	□	■	■	■
	Hollow Concrete Masonry	■	■			■			■	■	■
	Solid Brick	■	■	□	□	■	□	□	■	■	■
	Hollow Brick	□	■			■			■	■	■
	Stone	□	□	□	□	■	□	□	■	■	■
	Structural Clay Tile	□	□			■			■	■	■
Anchor Diameter	1/4"					■					
	3/8"	■	■	■	■	■	■	■			
	1/2"	■	■	■	■	■	■	■			
	5/8"	■	■	■	■	■	■	■			
	3/4"	■	■	■	■	■	■	■			
	7/8"	■	■	■	■	■	■	■			
	1"	■	■	■	■	■	■	■			
	1 1/4"	■	■	■	□	■	■				
	1 3/8"										
	1 1/2"										
	1 3/4"										
2"											
Anchor Element	Coated / Plated Carbon Steel					■	■	■			
	Type 304 Stainless Steel					■	■				
Chemistry	Epoxy		■								
	Ester Based Resin	■		■	■						
	Polyurethane								■	■	
	MS Polymer										■

■ - Suitable
□ - May Be Suitable

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ADHESIVE ANCHORING SYSTEMS

AC100+™ GOLD

Powers
FASTENERS



**Mixing Nozzle Included
WITH EACH CARTRIDGE!**

Vinylester Injection Adhesive Anchoring System

PRODUCT DESCRIPTION

The AC100+Gold is a two-component vinylester injection adhesive system. The system includes injection adhesive, mixing nozzles, dispensing tools, steel brushes and handpump equipment (compressed air must be used for larger size hardware). The AC100+Gold has been evaluated for uncracked concrete only and therefore cannot be used in moderate to high seismic design categories. Suitable base materials include normal-weight concrete ranging from 2,500 psi to 8,500psi.

GENERAL APPLICATIONS AND USES

- Structural connections, i.e., beam and column anchorage
- Evaluated for dry, wet and water-filled holes
- Suitable for uncracked concrete applications

FEATURES AND BENEFITS

- Consistent performance in high and low strength concrete
- Recognized for threaded rod and Grade 60 rebar hardware elements
- For use in 2500 to 8500 psi concretes
- Can be installed in a wide range of base material temperatures.
- Evaluated and recognized for freeze/thaw performance
- Evaluated and approved for several long-term and short-term loading temperature ranges (see performance tables for applicable temperature ranges)

APPROVALS AND LISTINGS

- International Code Council, Evaluation Service (ICC-ES) ESR Pending
- Tested in accordance with AC308 criteria
- Evaluated and qualified by an accredited independent testing laboratory for uncracked concrete
- Strength design method according to AC308 and ACI 318 Appendix D

GUIDE SPECIFICATIONS

CSI Divisions: 03151-Concrete Anchoring, 04081-Masonry Anchorage and 050 Metal Fastenings. Adhesive anchoring system shall be AC100 Plus as supplied by Fasteners, Inc., Brewster, NY.

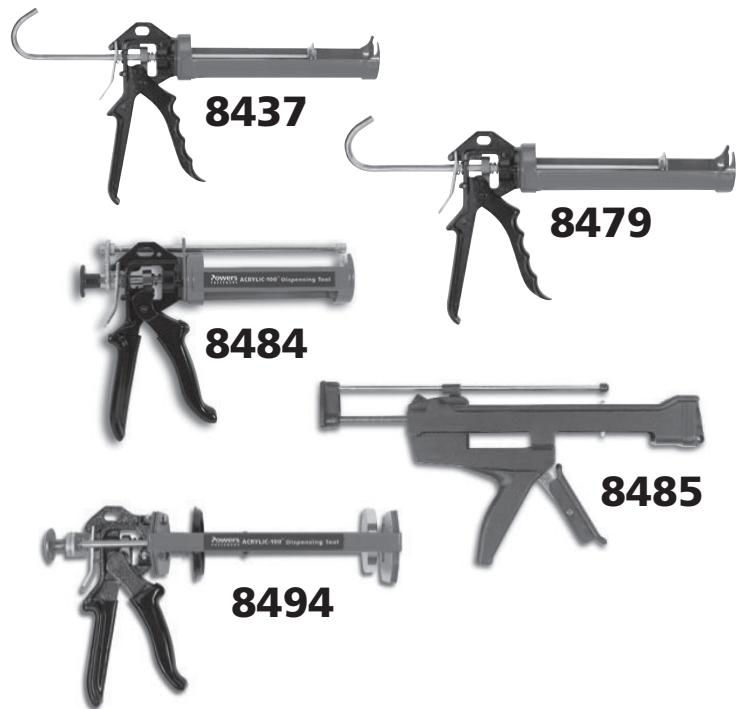
AC100+GOLD CARTRIDGES

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.	PALLET
8462SD	5.0 oz. Push-Pak	12	36	-
8478SD	10 oz. Quick Shot	12	36	972
8480SD	8.0 oz. SBS	-	12	576
8486SD	12.0 oz. SBS	-	12	864
8490SD	29.0 oz. SBS	-	6	400



AC100+GOLD MIXING NOZZLES

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.
8293	Extra Nozzle for 5 oz., 8 oz., 10, oz. & 12 oz.	1	-
8281	Mixer Nozzle Extension, 8"	1	-



AC100+GOLD MANUAL INJECTION DISPENSING TOOLS

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.
8437	Manual Caulking Gun One Shot	1	12
8479	High Performance Caulking Gun	1	6
8484	8 oz. Standard All Metal Manual	1	6
8485	8 oz. & 12 oz. High Performance Manual Tool	1	20
8494	29 oz. Std. All Metal Manual Tool	1	1



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ADHESIVE ANCHORING SYSTEMS

PE1000+



PRODUCT DESCRIPTION

The PE 1000+ is a two-component epoxy injection adhesive system. The system includes injection adhesive, mixing nozzles, dispensing tools, steel brushes and hand-pump equipment (compressed air must be used for larger size hardware). The PE 1000+ has been evaluated for uncracked concrete only and therefore cannot be used in moderate to high seismic design categories. Suitable base materials include normal-weight concrete ranging from 2,500 psi to 8,500psi.

GENERAL APPLICATIONS AND USES

- Structural connections, i.e., beam and column anchorage
- Dowelling applications that don't transfer load to embedment dowels (splice)
- Suited for dry, wet and water-filled holes
- Suitable for uncracked concrete applications only

**FREE NOZZLE
WITH EVERY 10, 15 & 20 OZ. CARTRIDGE!**

FEATURES AND BENEFITS

- Heavy duty anchoring system
- Consistent performance in high and low strength concrete
- Recognized for threaded rod and Grade 60 rebar hardware elements
- For use in 2500 to 8500 psi concrete
- Can be installed in temperatures down 41oF
- Evaluated and recognized for freeze/thaw performance
- Evaluated and approved for long-term and short-term loading (see performance tables for applicable temperature ranges)
- Recognized for embedments up to 12 diameters

APPROVALS AND LISTINGS

- International Code Council, Evaluation Service (ICC-ES) ESR Pending
- Tested in accordance with AC308 criteria
- Evaluated and qualified by an accredited independent testing laboratory for use in uncracked concrete including wind loading
- Strength Design method according to AC308 and ACI 318 Appendix D

GUIDE SPECIFICATIONS

CSI Divisions: 03151-Concrete Anchoring, 04081-Masonry Anchorage and 05090-Metal Fastenings. Adhesive anchoring system shall be AC100+Gold anchors as supplied by Powers Fasteners, Inc., Brewster, NY.

CARTRIDGE

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.	PALLET
500SD	13 oz.	12	36	-



CARTRIDGE SYSTEM NOZZLE

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.
7908	Extra Mixing Nozzle for PE1000+	1	-
7919	Mixer Nozzle Extension, 8"	1	-



MANUAL INJECTION DISPENSING TOOL

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.
8295	Heavy Duty Dispensing Tool	1	12



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ADHESIVE ANCHORING SYSTEMS

DISPENSING TOOLS AND ACCESSORIES



PNEUMATIC INJECTION TOOL DELIVERY SYSTEM

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.
8413	22 oz. High Performance Pneumatic Tool	1	1
8438	56 oz. High Performance Pneumatic Tool	1	1
8496	30 oz. High Performance Pneumatic Tool	1	1



BATTERY INJECTION DISPENSING TOOLS

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.
8442	22 oz. High Performance Battery Tool	1	1
8444	30 oz. High Performance Battery Tool	1	1

REINFORCING BAR INSTALLATION TOOLS

CHEM-STUD REBAR COUPLERS AND DRIVERS

CAT. NO.	SIZE	STD. BOX	STD. CTN.
6533	#3 Coupler	1	10
6534	#4 Coupler	1	5
6536	#6 Coupler	1	10
6537	#7 Coupler	1	10
6538	#8 Coupler	1	10
6539	#9 Coupler	1	10
6540	#10 Coupler	1	1
6590	Spline Driver Extension	1	1
6596	SDS-Max Driver Extension	1	1



INTERNALLY THREADED INSERT TOOLS*

CAT. NO.	SIZE	STD. BOX	STD. CTN.
6862	3/8"	1	1
6863	1/2"	1	1
6864	5/8"	1	1
6865	3/4"	1	1

*Use with drivers for threaded rod.



Drive-In Type Capsule Adhesive

PRODUCT DESCRIPTION

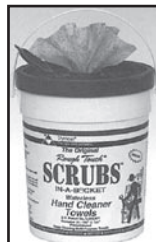
The Hammer-Capsule System consists of a self contained, single use, two-part glass capsule into which threaded anchor rod or reinforcing bars can be directly driven without the need for a chisel point or spinning action. It is designed for use in the installation of 3/8" through 1" diameter threaded rod in solid concrete and masonry materials. It can also be used to install reinforcing bars.

HAMMER-CAPSULE SELECTION GUIDE

CAT. NO.	SIZE	*DRILL DIA.	MIN. DEPTH	STD. BOX	STD. CTN.
6702	3/8"	7/16"	3-1/2"	10	500
6703	1/2"	9/16"	4-1/4"	10	200
6704	5/8"	11/16"	5"	10	100
6705	3/4"	7/8"	6-5/8"	5	50
6706	7/8"	1"	7"	5	50
6707	1"	1-1/8"	8-1/4"	5	50



We carry a full assortment of cleaning products, accessories and supplies.



Turn to page 215

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ADHESIVE ANCHORING SYSTEMS

ACCESSORIES



Adhesive installation accessories are designed to provide a dispenser or mixing nozzle extension when required and to aid in the preparation of the anchor hole.

STEEL BRUSHES

CAT. NO.	DESCRIPTION	STD. BOX
7931	1/2" x 8-1/2" brush	1
7932	3/4" x 8-1/2" brush	1
7933	1" x 12" brush	1
7934	1-1/4" x 13" brush	1
7935	1-1/2" x 13-1/2" brush	1
8284	3/8" / #3 Steel Wire Brush*	1
8285	1/2" / #4 Steel Wire Brush*	1
8286	5/8" / #5 Steel Wire Brush*	1
8287	3/4" / #6 Steel Wire Brush*	1
8288	7/8" / #7 Steel Wire Brush*	1
8289	1" / #8 Steel Wire Brush*	1
8290	1-1/4" Steel Wire Brush*	1
8291	#10 Steel Wire Brush*	1
8293	SDS Plus Adapter for Steel Brush*	1
8292	Brush Extension, 12"*	1

HAND PUMP

CAT. NO.	DESCRIPTION	STD. BOX
8280	Hand Pump / Dust Blower 25 oz. *	1
8282	Air Nozzle with Extension*	1

* Appropriate accessory for use with AC100+Gold and PE1000+Gold



Anchor seal plugs help retain the adhesive in the anchor hole and hold the anchor rod centered in the hole until the adhesive sets. The plugs are described by the anchor rod diameter they are used with.

CAT. NO.	DESCRIPTION	PLUG DEPTH	HOLE SIZE	STD. BAG
7936	3/8" Anchor Seal Plug	3/8"	7/16"	25
7937	1/2" Anchor Seal Plug	1/2"	9/16"	25

For additional sizes call for availability.



Screen tubes are made from a 300 series stainless steel. The nominal diameter of the screen listed indicates the matching rod diameter.

CAT. NO.	DESCRIPTION	DRILL DIA.	STD. CTN.
7862	1/4" x 6" Screen Tube †	3/8"	25
7864	1/4" x 8" Screen Tube †	3/8"	25
7961	3/8" x 3-1/2" Screen Tube †	1/2"	25
7962	3/8" x 6" Screen Tube †	1/2"	25
7963	3/8" x 8" Screen Tube †	1/2"	25
7964	3/8" x 10" Screen Tube †	1/2"	25
7959	3/8" x 12" Screen Tube †	1/2"	25
7965	1/2" x 3-1/2" Screen Tube	5/8"	25
7966	1/2" x 6" Screen Tube	5/8"	25
7967	1/2" x 8" Screen Tube †	5/8"	25
7968	1/2" x 10" Screen Tube †	5/8"	25
7969	5/8" x 4-1/2" Screen Tube	3/4"	20
7970	5/8" x 6" Screen Tube	3/4"	20
7971	5/8" x 8" Screen Tube †	3/4"	20
7972	5/8" x 10" Screen Tube †	3/4"	20
7973	3/4" x 6" Screen Tube	7/8"	10
7977	3/4" x 8" Screen Tube	7/8"	10
7974	3/4" x 10" Screen Tube	7/8"	10
7975	3/4" x 13" Screen Tube	7/8"	10
7865	15/16" x 8" Screen Tube	1"	10
7867	15/16" x 13" Screen Tube	1"	10
7869	15/16" x 17" Screen Tube †	1"	10
7955	Adhesive Shear Tube (steel sleeve)	-	10

† Includes extension tubing



The nominal diameter of the screen listed indicate the matching rod diameter. NOTE: Hole size required for plastic screen tubes are different than that for the stainless steel tubes.

CAT. NO.	DESCRIPTION	DRILL DIA.	STD. CTN.
8474	3/8" x 3-1/2" Screen Tube	9/16"	25
8475	1/2" x 3-1/4" Screen Tube	5/8"	25
8476	1/2" x 4" Screen Tube	5/8"	25

SAFETY PRODUCTS

TOOLS & ACCESSORIES

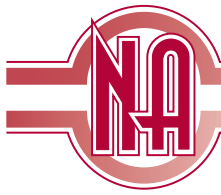
CONTRACTOR SUPPLIES

HANGERS & STRUT

FASTENERS & THREADED ROD

CONCRETE ANCHORS

SPECIALTY ITEMS SERVICES & DATA



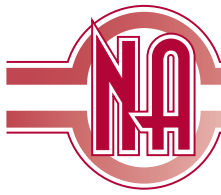
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POWDER ACTUATED SELECTION GUIDE

Powers
FASTENERS

Pin Category		0.300" Head Drive Pin						8mm Head Drive Pin						Threaded Studs		Heavy Duty Pins			
Product		.300" Head Drive Pin		.300" Head Drive Pin with Top Hat		.300" Head Drive Pin with Washers		.300" Head Step Shank Drive Pins		8mm Head Drive Pin		8mm Head Drive Pin with Top Hat		8mm Head Drive Pin with 1" Washers		1/4" - 20 Threaded Stud	3/8" - 16 Threaded Stud	3/8" Head Drive Pin	10mm Head Drive Pin
Pin Dimensions	Shank Length	1/2" to 1 1/2"	1 3/4" to 3"	1/2" to 1"	3/4" to 1 1/2"	2" to 3"	3/4" to 1"	5/8" to 1 1/2"	1 5/8" to 2 7/8"	5/8" to 1"	1" to 1 1/2"	2" to 2 7/8"	1/2" to 1 1/4"	3/4" to 1 1/4"	1" to 3 1/8"	3 1/8" to 3 1/4"			
	Shank Diameter	0.145"						.145/.130"		0.145"						0.145"	0.205"	3 1/8" / 172" / 216 / 188"	0.177"
Base Material	Concrete	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
	Lightweight Concrete	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
	Grout-filled Concrete Masonry	■	□	□	■	□	■	■	□	□	□	□	□	□	□	□	□	□	
	Steel	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Load Power Level	Gray - Power Level 1																		
	Brown - Power Level 2																		
	Green - Power Level 3																		
	Yellow - Power Level 4																		
	Red - Power Level 5																		
	Purple/Black - Power Level 6																		
Powers Tools	P3600																■	■	
	PA351	□		□	□		□	■		□	□				■	■	■	■	
	P3801												□	■	■	■			
	P3500 / PA3500	■	■	■	■	■	■	■	■	■	■	■	■	■					
	P35s	■		■	■	■	■	■		■	■	■	■	■					
	P7201	■		■	■	■	■	■		■	■	■	■	■					
	P2201	■	■	■	■	■	■	■	■	■	■	■	■	■					
	P1000	■	■	■	■	■	■	■	■	■	■	■	■	■					
	Hammer Drive Tool																		
Other Tools	721	■		■	■	■	■	■		■	■	■	■	■					
	M70	■	■	■	■	■	■	■	■	■	■	■	■	■					
	LADD (L1600)																		
	D45	■	■	■	■	■	■	■	■	■	■	■	■	■					
	D60 / D60L	■	■	■	■	■	■	■	■	■	■	■	■	■					
	MD380													■	■				
	SA270	■	■	■	■	■	■	■	■	■	■	■	■	■					
	Cobra	■		■	■	■	■	■		■	■	■	■	■					
	Viper	■		■	■	■	■	■		■	■	■	■	■					
	DX E37	■		■	■	■	■	■		■	■	■	■	■					
	DX E72	■	■	■	■	■	■	■	■	■	■	■	■	■					
	DX400	■	■	■	■	■	■	■	■	■	■	■	■	■					
	DX600N													■	■	□			
	DX35	■		■	■	■	■	■		■	■	■	■	■					
	DX350 / DX351	■	■	■	■	■	■	■	■	■	■	■	■	■					
	DX36M	■	■	■	■	■	■	■	■	■	■	■	■	■					
	DX 450																		
	DX451	■	■	■	■	■	■	■	■	■	■	■	■	■			■	■	
	DXA40	■		■	■	■	■	■		■	■	■	■	■				■	
	DXA41	□	□	□	□	□	□	□	□	□	□	□	□	■	■	■			
DX100	■	■	■	■	■	■	■	■	■	■	■	■	■						
DX200	■	■	■	■	■	■	■	■	■	■	■	■	■						
DX460	□		□	□		□	■		□	□									

■ - Suitable □ - May Be Suitable



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POWDER ACTUATED SELECTION GUIDE



Pin Category		Ballistic Point Pin		Specialty Fasteners		Clips and Accessories				Powder Actuated Loads										
Product		Ballistic Point Pin	Ballistic Point Step Shank Pin	Forming Pin	Hammer Drive Pin	Ceiling Clip Assemblies (3/8", 8mm & Ballistic Point)	Ceiling Clip Assemblies Ladd Tool (L1600)	BX - EMT Conduit Clip Assemblies (3/8" & 8mm)	Rebar Basket Clip Assemblies (8mm)	.22 Caliber "A" Single Load	.22 Caliber Single Loads Ladd Tool (L1600)	.25 Caliber Disk Load	.25 Caliber Disk Loads (Red)	.25 Caliber Single Load	.27 Caliber Single Loads	.27 Caliber Single Long Loads	.25 Caliber 10 Load Strip	.27 Caliber 10 Load Strip (Purple/Black)	.27 Caliber Safety Strip	
Pin Dimensions	Shank Length	1/2" to 7/8"	1 1/4" to 1 7/8"	1 3/4" to 2 1/2"	3/4" to 3"	1" to 1 1/4"	1 1/2" to 1 1/4"	1" to 1 1/4"	1 1/4" to 2 7/8"											
	Shank Diameter	0.150"	0.181"/0.150"	0.145"	0.140"	0.145"	0.155"	0.145"	0.145"											
Base Material	Concrete	■	■	■	■	■	■	■	■											
	Lightweight Concrete	■	■	■	■	■	■	■	■											
	Grout-filled Concrete Masonry	□	□	□	□	□	□	□	□											
	Steel	■	■	□		■	■	■	□											
Load Power Level	Gray - Power Level 1									■		■								
	Brown - Power Level 2									■		■								■
	Green - Power Level 3									■	■	■		■	■					■
	Yellow - Power Level 4									■	■	■	■	■	■	■	■	■	■	■
	Red - Power Level 5									■	■	■	■	■	■	■	■	■	■	■
	Purple/Black - Power Level 6									■	■	■	■	■	■	■	■	■	■	■
Powers Tools	P3600																		■	■
	PA351																			■
	P3801																			■
	P3500 / PA3500	■	■	■	■	■	■	■	■											■
	P35s	■	■	■		■	■	■	■											■
	P7201	■	■	■		■	■	■	■	■										■
	P2201	■	■	■	■	■	■	■	■	■										■
	P1000	■	■	■	■	■	■	■	■	■										■
	Hammer Drive Tool				■															
Other Tools	721	■	■			■		■	■	■										■
	M70	■	■	■	■	■		■	■	■										■
	LADD (L1600)						■				■									■
	D45	■	■	■	■	■		■	■	■		■	■							■
	D60 / D60L	■	■	■	■	■		■	■	■		■	■							■
	MD380															■				■
	SA270	■	■	■	■	■		■	■	■										■
	Cobra	■	■	■	■	■		■	■	■										■
	Viper	■	■	■	■	■		■	■	■										■
	DX E37	■	■	■		■		■	■	■										■
	DX E72	■	■	■	■	■		■	■	■										■
	DX400		■	■	■	■		■	■	■										■
	DX600N	■														■				■
	DX35	■	■	■		■		■	■	■										■
	DX350 / DX351	■	■	■	■	■		■	■	■								■		■
	DX36M	■	■	■	■	■		■	■	■										■
	DX 450																			■
	DX451	■	■	■		■		■	■	■										■
	DXA40	■	■	■		■		■	■	■										■
	DXA41	■	■	■	■	■		■	■	■										■
DX100	■	■	■	■	■		■	■	■				■						■	
DX200	■	■	■	■	■		■	■	■				■						■	
DX460																			■	

■ - Suitable □ - May Be Suitable

SPECIALTY ITEMS SERVICES & DATA
 CONCRETE ANCHORS
 FASTENERS & THREADED ROD
 HANGERS & STRUT
 CONTRACTOR SUPPLIES
 TOOLS & ACCESSORIES
 SAFETY PRODUCTS



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POWDER ACTUATED TOOLS

Powers
FASTENERS



P3500™

SIZE RANGE

1/2" to 3" pin lengths, .27 caliber

PRODUCT DESCRIPTION

The PA3500™ is a modified version of the P3500 that includes a power adjuster, allowing the operator to effectively decrease the power level of the load being used. A red load can be toned down to the level of a green.

POWER ADJUSTER SETTINGS

1	3	6
Minimum Power	Medium Power	Maximum Power

TECHNICAL DATA

TOOL BODY	PIN LENGTH
Precision Cast Aluminum	1/2" to 3" Total Length
TOOL LENGTH	LOAD TYPE
13-5/8"	.27 Caliber in a 10 Load Strip
TOOL WEIGHT	POWER LEVEL
5 lbs.	Brown (2), Green (3), Yellow (4), Red (5)
PIN TYPE	
Ballistic Point Drive Pin, .300 Head Drive Pin, 8mm Head Drive Pin, 1/4"-20 Threaded Stud	

TYPICAL APPLICATIONS

TRADE	APPLICATION
Acoustical	Ceiling clip assemblies
Drywall	Metal track, door frames
Forming	Concrete forms, basket clips, forming pins
Electrical	Boxes, conduit clip assemblies
Mechanical	Duct straps
Residential	Sill plates

SELECTION GUIDE

CAT NO.	DESCRIPTION	STD. CTN.
52019	PA3500 Powder Tool (Deluxe Kit)	1
52025	PA3500 Powder Tool (Blister Pack)	1
52103	PA Piston Flat End with Ring	1
52108	Guide 2/F-3	1
52110	Base Plate 2/S-13	1
52112	Piston Stop	1
52120	Shear Clip	1
52122	Steel Annular Ball	1

FOR APPLICATIONS IN TIGHT AREAS, A LIMITED ACCESS BASE PLATE/GUIDE IS AVAILABLE.

52114	Guide 2/F-4 Limited Access	1
52116	Baseplate 2/F-14-1 Limited Access	1

POLE TOOLS FOR OVERHEAD ATTACHMENTS

CAT NO.	DESCRIPTION	STD. CTN.
50065	6' Di-Electric Pole Tool	1
50066	8' Di-Electric Pole Tool	1
52041	6' Smacker Pole Tool (extension available)	1
52045	3' Smacker Pole Extension	1



P35s™

SIZE RANGE

1/2" to 1-1/2" pin lengths, .25 caliber

PRODUCT DESCRIPTION

The P35s™ is specially designed for acoustical and drywall contractors. It is a low velocity, semi-automatic, tool which can be used to install .300 head drive pins, 8mm head drive pins and 1/4"-20 threaded studs up to 1-1/2" in total length. The P35s™ is designed for high speed and repetitive volume applications. The standard version of the tool is supplied with a flat end piston and a full size baseplate/guide. A limited access baseplate/guide assembly is also available.

TECHNICAL DATA

TOOL BODY	PIN LENGTH
Precision Cast Aluminum	1/2" to 1-1/2" Total Length
TOOL LENGTH	LOAD TYPE
11-1/4"	.25 Caliber in a 10 Load Strip
TOOL WEIGHT	POWER LEVEL
4.25 lbs.	Green (3), Yellow (4), Red (5)
PIN TYPE	
Ballistic Point Drive Pin, .300 Head Drive Pin, 8mm Head Drive Pin, 1/4"-20 Threaded Stud	

TYPICAL APPLICATIONS

TRADE	APPLICATION
Acoustical	Ceiling clip assemblies
Drywall	Metal track, door frames
Electrical	Boxes, conduit clip assemblies
Mechanical	Duct straps

SELECTION GUIDE

CAT NO.	DESCRIPTION	STD. CTN.
52002	P35s Tool (Deluxe Kit)	1
52023	P35s Tool (Blister Pack)	1
52200	Piston Standard 21/SDF	1
52204	Guide 21/F3-1	1
52206	Baseplate 21/S1	1

Tool Operation

Powder actuated tools may be used only by properly trained and licensed operators as described in ANSI Standard A 10.3.

For complete tool operation details contact your Newman representative for training information.



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POWDER ACTUATED TOOLS AND LOADS

Powers FASTENERS



P3801™

SIZE RANGE

1/4" to 3/8" Threaded Studs and 3/8" Headed Drive Pins

PRODUCT DESCRIPTION

Powerful heavy-duty powder actuated tool, for installing 3/8" threaded studs into concrete and steel. This tool features an easy load ejector and has a low re-coil for greater operator comfort. The P3801 is independent of any external power source saving you time and money.

TECHNICAL DATA

TOOL BODY	PIN LENGTH
Precision Cast Aluminum	1/2" to 3" Total Length
TOOL LENGTH	LOAD TYPE
14"	.27 Caliber Short and Long
TOOL WEIGHT	POWER LEVEL
7 lbs.	Red (5), Purple (6)
PIN TYPE	

1/4" to 3/8" threaded studs and 3/8" Headed Drive Pins

TYPICAL APPLICATIONS

- Hanging sprinkler pipe
- Heavy duty applications for steel and concrete
- Electrical
- Tele-communications

SELECTION GUIDE

CAT NO.	DESCRIPTION	STD. CTN.
52008	P3801 Tool (Deluxe Kit)	1
52402	Nose Piece	1
52404	Base Plate	1
52415	Shield 1/4"	1
52417	Shield 3/8"	1
52420	Piston Guide 1/4"	1
52422	Piston Guide 3/8"	1
52426	Piston w/Ring 1/4"	1
52428	Piston w/Ring 3/8"	1

Tool Operation

Powder actuated tools may be used only by properly trained and licensed operators as described in ANSI Standard A 10.3.

For complete tool operation details contact your Newman representative for training information.

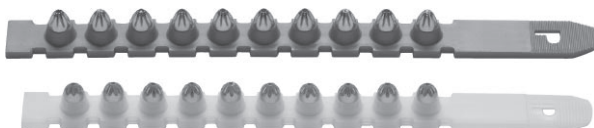


POWER LOADS - LONG

.27 CALIBER LONG LOADS FOR POWERS P3801, RAMSET® MD380 AND HILTI® DX600N

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.	MASTER CTN.
50608*	Green, .27 long	100	2500	-
50612	Red, .27 long	100	2500	-
50614	Purple, .27 long	100	2500	80,000

* Discontinued item once current stock exhausted.



SAFETY STRIPS

.27 CALIBER SAFETY STRIP® FOR POWERS P3500, PA3500, PA351, P3600, RAMSET® SA270, VIPER, HILTI® DX350, DX36M, DX451 AND DX460

The safety strip is molded in a special length to provide a visual indication that the tool is loaded.

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.
50620	Brown, .27 Safety Strip®	100	1000
50622	Green, .27 Safety Strip®	100	1000
50626	Yellow, .27 Safety Strip®	100	1000
50630	Red, .27 Safety Strip®	100	1000

MASTER PACK

.27 CALIBER SAFETY STRIP®

CAT. NO.	DESCRIPTION	STD. BOX	MASTER CTN.
50624	Green, .27 Safety Strip®	1000	10000
50628	Yellow, .27 Safety Strip®	1000	10000
50632	Red, .27 Safety Strip®	1000	10000

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Hilti® is a registered trademark of Hilti, Inc.

SAFETY PRODUCTS

TOOLS & ACCESSORIES

CONTRACTOR SUPPLIES

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CONCRETE ANCHORS

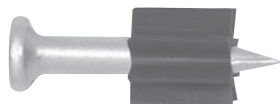
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POWDER ACTUATED FASTENERS

Powers
FASTENERS



50026 .300 HEAD DRIVE PINS

Works with Model P3500 featured on page 348. Also works with the following Powers Fasteners Tools not featured in this catalog: PA351, PA3500, 9355, P7201, P2201 and P1000.

STANDARD PINS

Drive pins with a .300 diameter head are designed for permanently fastening a fixture to concrete, some types of masonry and A36 structural steel.

Drive pins are manufactured with a 0.143" diameter shank in various lengths. Knurled shank designs are available to increase performance in steel base materials. A plastic flute is mounted over the point to retain the drive pin in the fastener guide of the tool providing guidance during the driving operation.

.300 HEAD DRIVE PINS

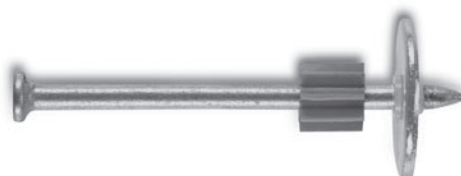
CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50012	1/2" (knurled)	.300	.145	100	5000
50016	5/8" (knurled)	.300	.145	100	5000
50022	3/4"	.300	.145	100	5000
50023	3/4" Black	.300	.145	100	5000
50026	1"	.300	.145	100	5000
50030*	1-1/8"	.300	.145	100	1000
50032	1-1/4"	.300	.145	100	1000
50034	1-1/2"	.300	.145	100	1000
50038	2"	.300	.145	100	1000
50040	2-1/4"	.300	.145	100	1000
50042*	2-3/8"	.300	.145	100	1000
50044	2-1/2"	.300	.145	100	1000
50046	2-3/4"	.300	.145	100	1000
50048	3"	.300	.145	100	1000

* Discontinued item once current stock exhausted.

MASTER PACK

CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50980	1/2" knurled	.300	.145	1000	5000
51041	3/4" Black Pins	.300	.145	1000	5000
53300	5/8" knurled	.300	.145	1000	5000
53400*	5/8" knr.Top Hat	.300	.145	1000	5000
51040	3/4"	.300	.145	1000	5000
51100	1"	.300	.145	1000	5000
51160	1-1/4"	.300	.145	1000	5000
51340	1/2" knr.Top Hat	.300	.145	1000	5000
51400	3/4" Top Hat	.300	.145	1000	5000
51520	1" Top Hat	.300	.145	1000	5000

* Discontinued item once current stock exhausted.



50096 .300 HEAD DRIVE PINS WITH WASHER WASHERED PINS

To provide resistance to pullover, these pins are available with preassembled 14 gage (0.075") metal washers in various diameters. The insulation washer has a thickness of 0.035".

.300 HEAD DRIVE PINS WITH 3/4" WASHER

CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50070	3/4"	.300	.145	100	1000
50080	2-1/2"	.300	.145	100	1000

.300 HEAD DRIVE PINS WITH 7/8" WASHER

CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50090	1"	.300	.145	100	1000
50092	1-1/4"	.300	.145	100	1000
50094	1-1/2"	.300	.145	100	1000
50096	2"	.300	.145	100	1000
50098	2-1/2"	.300	.145	100	1000
50100	3"	.300	.145	100	1000

.300 HEAD DRIVE PINS WITH 1" WASHER

CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50108	1-1/4"	.300	.145	100	1000
50110	1-1/2"	.300	.145	100	1000
50112	2"	.300	.145	100	1000
50114	2-1/2"	.300	.145	100	1000
50116	3"	.300	.145	100	1000



50122 .300 HEAD DRIVE PINS WITH INSULATION WASHER

CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50122	1-1/2"	.300	.145	100	1000
50126	2-1/2"	.300	.145	50	500



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POWDER ACTUATED FASTENERS



BALLISTIC POINT™ DRIVE PINS

Power Point-type Fasteners

Premium drive pins with a .300 diameter head have a specially designed point to allow more consistent penetration into harder base materials. Will reduce failures in dense concrete and steel. Drive Pins are manufactured with a 0.150" diameter straight and step shank in various lengths. A plastic flute is mounted over the point to retain the drive pin in the fastener guide of the tool providing guidance during the driving operation.

For use with Model PA3500 featured on page 348. Also works with the following Powers Models not featured in this catalog: PA351, P3500, 935S, P7201, P2201 and P1000.

BALLISTIC POINT DRIVE PINS (BLACK)

CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50052	1/2"	.300	.150	100	1000
50054	3/4"	.300	.150	100	1000



BALLISTIC POINT STEP SHANK PINS

CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50056	1-1/4"	.300	.181/.150	100	5000
50057	1-7/8"	.300	.181/.150	100	1000



THREADED STUDS

Threaded studs are available in 1/4"-20 and 3/8"-16 thread diameters with a variety of thread and shank lengths for use in concrete, some types of masonry, and A36 structural steel. They are used for applications where it may be desirable to remove the fixture, where shimming may be required.

The shank diameter for the threaded stud is 0.145" for the 1/4"-20 diameter and 0.205" for the 3/8"-16 diameter. Knurled shank designs are available to increase performance in steel base materials. A plastic flute is mounted over the point to retain the drive pin in the fastener guide of the tool providing guidance during the driving operation. On the 1/4"-20 threaded studs, a plastic cap is also provided to protect the threads of the fastener during the driving process.

For use with Model P3500 featured on page 348 and Model P3801 featured on page 349. Also works with the following Powers Models not featured in this catalog: PA351, PA3500, 935S, P7201, P2201 and P1000.

1/4" -20 THREADED STUDS

CAT. NO.	THREAD LENGTH	SHANK LENGTH	THREAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50322	3/4"	1/2" K	1/4"	.145	100	1000
50326	3/4"	3/4"	1/4"	.145	100	1000
50328	1/2"	1"	1/4"	.145	100	1000
50330	3/4"	1"	1/4"	.145	100	1000
50336	3/4"	1-1/4"	1/4"	.145	100	1000
50338	1-1/4"	1-1/4"	1/4"	.145	100	1000

K=Knurled



For use with Model P3801 featured on page 349. Also works with Powers Model P3600 not featured in this catalog.

3/8" -16 THREADED STUDS

CAT. NO.	THREAD LENGTH	SHANK LENGTH	THREAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50340†	1-1/4"	3/4" K	3/8"	.205	100	1000
50342	1-1/4"	1"	3/8"	.205	100	1000
50344†	1-1/4"	1-1/4"	3/8"	.205	100	1000

K=Knurled

† Factory Mutual Research Corp. approved for Pipe Hanger Components



Think Safety First... WE DO!

Our Safety Section Begins on Page 1.

SAFETY PRODUCTS

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CONTRACTOR SUPPLIES

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POWDER ACTUATED FASTENER ACCESSORIES

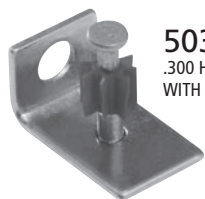
Powers
FASTENERS

CEILING CLIP ASSEMBLIES

Assemblies are combinations of drive pins and stamped steel clips designed for specific applications.

The pins are held within the clip using either a dome mechanism or a metal top hat.

For applications suspending acoustical ceiling systems or light fixtures, several styles of angled clips are pre-mounted onto pins. For use with Powers Model P3500 featured on page 348 and PA351 and P1000 not featured in this catalog.



50363
.300 HEAD PIN
WITH CEILING CLIP



50272
8mm HEAD PIN
WITH CEILING CLIP

.300 HEAD PINS WITH CEILING CLIPS

CAT. NO.	DESCRIPTION	HEAD DIA.	SHANK DIA.	WIRE HOLE	STD. BOX	STD. CTN.
50363††	1"	.300	.145	0.278"	100	1000
50364	1"	.300	.145	0.278"	100	1000
50368†	1-1/8"	.300	.145	0.278"	100	1000
50370	1-1/4"	.300	.145	0.278"	100	1000

† Economy Clip

†† Ceiling clip without dome

8MM DRIVE HEAD PINS WITH CEILING CLIPS

CAT. NO.	DESCRIPTION	HEAD DIA.	SHANK DIA.	WIRE HOLE	STD. BOX	STD. CTN.
50272	27mm w/CC	8mm	.145	0.278"	100	1000
50274	32mm w/CC	8mm	.145	0.278"	100	1000

10MM DRIVE HEAD PIN WITH CEILING CLIPS

CAT. NO.	DESCRIPTION	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50206	1/4" with ceiling clip	10mm	.177	100	1000

BALLISTIC POINT DRIVE PIN WITH CEILING CLIP

CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50058	1-1/4" with ceiling clip	.300	.181/.150	100	1000



PRE-ASSEMBLED PIN AND CLIP FOR LADD TOOL (L1600)

CAT. NO.	DESCRIPTION	HEAD DIA.	SHANK DIA.	WIRE HOLE	STD. BOX	STD. CTN.
50438	Pre-assembled Pin Clip	.310	.155	0.278"	100	1000

BX & EMT CONDUIT CLIP ASSEMBLIES

For the electrical trade, BX and EMT conduit clips are provided in various sizes for attaching conduit base materials.

For use with Powers Model P3500 featured on page 348 and PA351 and P1000 not featured in this catalog.



.300 HEAD DRIVE PINS WITH BX CABLE CLIPS

CAT. NO.	DESCRIPTION	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50150	1" (BX)	.300	.145	100	1000
50152	1-1/4" (BX)	.300	.145	100	1000



.300 HEAD DRIVE PINS WITH EMT CONDUIT CLIPS

CAT. NO.	DESCRIPTION	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50382	1/2" EMT 1" pin	.300	.145	100	1000
50384	3/4" EMT 1-1/4"	.300	.145	100	1000
50385	3/4" EMT 1" pin TH	.300	.145	100	1000
50386	3/4" EMT 1" pin	.300	.145	100	1000
50388	1" EMT 1" pin TH	.300	.145	25	250



8MM DIAMETER HEAD DRIVE PINS WITH EMT CONDUIT CLIPS

CAT. NO.	DESCRIPTION	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50276	27mm TH w/ 1/2" EMT	8mm	.145	100	1000
50278	27mm TH w/ 3/4" EMT	8mm	.145	100	500
50280	27mm TH w/ 1" EMT	8mm	.145	25	250



POWDER FASTENING SYSTEMS



D60 POWDER ACTUATED FASTENING TOOL



Patented 10-shot disc loads advance automatically, eliminating wasted loads.

**Semi-Automatic D60 2-3/8" Pin Capacity
(2-1/2" w/washer)**

- **QUICK POWER ADJUSTMENT**
gives eight levels of power with only one load level for a variety of applications
- **RUGGED POLYAMIDE HOUSING**
reduces heat transfer and maximizes operator comfort
- **SOFT, RECOIL-ABSORBING HANDLE**
for increased operator comfort.
- **RAMSET DISC TECHNOLOGY**
loads only advance after firing - eliminates 10-20% of load waste
- **5-YEAR WARRANTY**

SPECIFICATIONS

- .25 caliber, 10-shot disc loads
2 (Brown), 3 (Green), 4 (Yellow)
- Weight: 4.9 pounds
- Length: 12-1/2 inches
- Muzzle Bushing O.D.: 3/4"
- Pin Capacity: 2-3/8" (3" w/washer-D60L)
- Complies with OSHA and ANSI standards

D45A POWDER ACTUATED FASTENING TOOL



**Semi-automatic 2" Pin Capacity
(2-1/2" w/washer)**

- **MOST DURABLE, POWERFUL POWDER TOOL**
designed for high-production use in steel and concrete
- **HEAVY-DUTY BUFFER SYSTEM**
prevents front-end tool damage for longer tool life
- **WEEKLY CLEANING, NOT DAILY CLEANING**
saves time and reduces labor costs
- **QUIETER THAN STANDARD POWDER TOOL**
allows you to work in occupied buildings
- **33% FASTER THAN SEMI-AUTOMATIC TOOLS**
saves time and labor costs
- **RAMSET DISC TECHNOLOGY**
loads only advance after firing - eliminates 10-20% of load waste
- **5-YEAR WARRANTY**

SPECIFICATIONS

- .25 caliber, 10-shot disc loads
2 (Brown), 3 (Green), 4 (Yellow), 5 (Red)
- Weight: 4-1/2 pounds • Height: 7-1/2 inches
- Length: 15 inches
- Muzzle Bushing O.D.: 5/8"
- Pin Capacity: 2" or 2-1/2" with washer
- Complies with OSHA and ANSI standards

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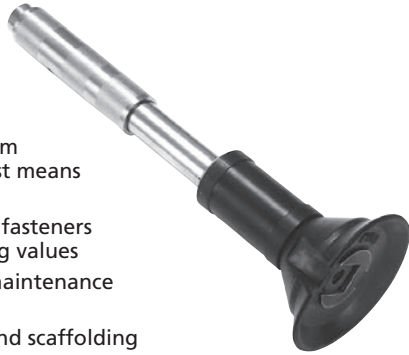
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POWDER FASTENING SYSTEMS



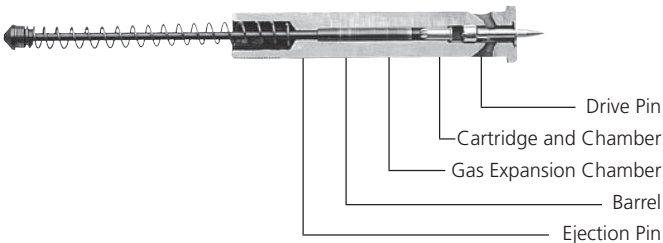
L1600 OVERHEAD POWDER FASTENING SYSTEM Single Shot .22 Caliber Crimped Loads

- Powerful — great for fast, positive attachment of hanger wire to concrete and steel
- No trigger mechanism — no cable to adjust means less down time
- Install thicker shank fasteners — for higher holding values
- Easy and fast field maintenance — saves labor costs
- Eliminates ladders and scaffolding — speeds up job; saves money
- Spent loads eject easily — increases productivity



Specifications

- .22 caliber crimped loads — 4 (Yellow), 5 (Red)
- Weight: 2.8 pounds
- Height: 13"



CLIP / PIN ASSEMBLY

- Preassembled clip and pin speeds installation and reduces labor cost
- Sturdiest clip on the market for improved pullover performance
- Accurate, positive attachment of hanger wire from concrete ceilings, steel
- Elongated wire hole allows for freedom of movement of wire loop
- 9/32" hole allows pencil rod to be suspended



Tool	Fastener	Loads	Most common application
L1600	L652	674 Yellow 675 Red	Hanger clip assembly for hard concrete

VIPER POWDER ACTUATED TOOL Semi-Automatic 30% Faster Overhead Attachment



- No cycling eliminates wasted loads—work faster and save money
- Super quiet—work in occupied buildings without disturbing occupants
- Weighs just 3 pounds—4 pounds lighter than other manufacturer's tool for more productivity
- Easy to use—just position, then push to fire. No trigger. No broken cables. No pinched fingers
- Durable ringless piston with 1-1/2" overdrive—prevents piston from breaking in thick fire-proofing material
- Easy to maintain—no tools needed for fast, daily cleaning
- Long, narrow housing—allows fastening in hard-to-reach areas
- Telescoping poles reduce expensive lift basket rentals
- 5-Year Warranty

ITW Ramset/Red Head knows the overhead marketplace. That's why we have a complete line of powder actuated tools for contractors, including the Viper™, the only custom-designed semi-automatic powder actuated tool for overhead angle clip fastening.



CEILING CLIPS

Part No.	Description
027VIPER	Ramset Ceiling Tool
027VPOL6	Ramset 6' Viper Extension Pole
027VPOL8	Ramset 8' Viper Extension Pole
027VPOL10	Ramset 10' Viper Extension Pole
027TVPOL612	Ramset 6'-12' Telescoping Viper Pole
027TVPOL618	Ramset 6'-18' Telescoping Viper Pole
027VIPER212	Ramset 2-1/2" Nosepiece for Viper



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FIRESTOPPING PRODUCTS



Installation of firestop products is mandated by all model building codes. Such products play a significant part in reducing the number of lives and amount of property lost unnecessarily due to the rapid spread of fire, smoke and toxic gases.

The American Society for Testing and Materials (ASTM) has developed a test Standard, ASTM E-814, to rate the performance of firestop products. In addition, UL has developed a mirrored test standard UL 1479, to evaluate the performance of firestop systems. Both tests are titled TEST OF THROUGH - PENETRATION FIRESTOPS.

Below is a list of Model Building Codes requiring the use of firestop products in various types of construction and occupancies. Most local codes are derived from one or more of these model codes. Bio Fireshield™ products and systems meet the through-penetration firestopping requirements of all of these codes:

IBC	International Building Code (in development)
ICBO	International Code of Building Officials; Uniform Building Code
SBCCI	Southern Building Code Congress International; Standard Building Code
BOCA	Building Official and Code Administrators International; National Building Code
CABO	Council of America Building Officials (coordinating agency between ICBO, SBCCI and BOCA)
NBCC	National Building Code of Canada
IRC	International Residence Code

Bio Fireshield™ Products are specified in many systems within the UL Fire Resistance and Warnock Hersey Directories and conform to one or more of the codes and test requirements shown below:

UL 1479	Fire Tests of Through-Penetration Firestops	
UL 2079	Tests for Fire Resistance of Building Joint Systems	
ASTM E 814	Methods for Fire Tests of Through-Penetration Fire Stops	
ASTM E 1966	Standard Test Method for Fire Resistive Joint Systems	
NFPA 101	National Fire Protection Association Life Safety Code: Chapters 6, 8-20	
NEC (NFPA 70)	National Electrical Code: Chapters 3, 7 and 8	
ASTM E 119 (UL263)	Method for Fire Tests of Building Construction and Materials	
ASTM E 84 (UL723)	Test Method of Surface Burning Characteristics of Building Materials	
4485-1372: 100-104	California State Fire Marshall	
VARIOUS	City of New York, MEA Approval	
RR 24952	City of Los Angeles, Approval	
ULC CAN4-S115M	Standard Method of Fire Tests of Fire Stop Systems	
ULC CAN/UJC-S101M	Standard Methods of Fire Endurance Tests	
AS 1530.4	Part 4: Fire Resistance Tests of Elements of Building Construction	
AS 4072.1	Part 1: Service Penetration and Control Joint	

BIOSTOP® BF 150+ FIRESTOPPING SEALANT

BIOSTOP® BF 150+ is a single component fire-rated sealant for through-penetration fire stop systems, as well as various construction joint systems. Designed for interior applications only, BIOSTOP® BF 150+ will prevent the spread of flames, smoke and gas through penetration openings.

- STC Rating of 51
- Non-slumping sealant that sets to form a hard surface
- Intumescent; expands when exposed to fire
- Inorganic and has no volatile solvents to create smoke or toxic gases
- Easy to install; no mixing required with water clean up capabilities
- Applied with a conventional caulking gun, trowel or pumping equipment



This product has been tested, and is monitored on an ongoing basis to assure its chemical compatibility with FlowGuard Gold, BlazeMaster and Corzan pipe and fittings.



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FIRESTOPPING SEALANTS

RECTORSEAL



BIOSTOP® 500+ INTUMESCENT FIRESTOP SEALANT

BIOSTOP® 500+ is a water based, flexible, highly intumescent sealant designed for use on metal, insulated and plastic pipes. It may be used for top of the wall construction joints, power and telephone cables, cable trays and bus ducts.



- STC Rating of 54
- UL Classified systems up to 4 hours
- Meets ASTM E 814, UL 1479, ASTM E 1966 & UL 2079 Standards
- Excellent Freeze-thaw
- Non-sagging, non-toxic, no VOC's
- Economical
- Paintable
- Available in cartridges and pails



BIOSTOP® 500+ has passed UL 2079 for top of the wall applications with as little as 1/4" depth of caulk. The test assembly was also subjected to 500 cycles (as per ASTM E 1399) on a specially built machine that successfully demonstrated the product's durability and movement characteristics.



This product has been tested, and is monitored on an ongoing basis to assure its chemical compatibility with FlowGuard Gold, BlazeMaster and Corzan pipe and fittings.

BIO THERM 100 / 200SL FIRESTOP SEALANT

BIO THERM® is a silicone based, highly elastic line of firestop sealants that bond to concrete, steel and most common through-penetration materials. BIO THERM® 100 is gun grade and BIO THERM® 200 is self-leveling.



- STC Rating of 55
- UL Classified systems up to 3 hours with 1/4" thickness
- Meets ASTM E 814 and UL 1479 Standards
- Single component silicone
- Tested with zero clearance
- No mixing
- BIO THERM® 100 available in 10.15 02 cartridges and 5 gallon pails, BIO THERM® 200SL available in 5 gallon pails only



RectorSeal's technical service professionals respond to customer inquires by providing documented engineering judgements within a timely manner. Technical information is also provided through the use of an Applications and Specifiers Guide and on-site training and educational seminars.

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FIRESTOPPING MASTIC

BIOSTOP® 750 FIRESTOP MASTIC



BIOSTOP® 750 is a water-based sealant that is designed for spray application and provides a fast, economical means of installation on long joint runs. Ideal for use in construction joints such as top of the wall, curtain wall perimeter, expansion, control, etc., and for general construction gaps and voids.

- STC Rating of 50
- UL Classified systems up to 3 hours
- Tested to UL 2079 and meets cycling requirement of ASTM E 1966 (500 cycles)
- Remains Flexible
- Economical



BIOSTOP® 700 INTUMESCENT FIRESTOP MASTIC



BIOSTOP® 700 is a water based, fire retardant, intumescent firestopping sealant/mastic and smoke seal that can be sprayed, brushed or troweled into construction joints, such as at top of the wall, curtain wall perimeter, and general construction gaps and voids.

- STC Rating of 54
- UL Classified systems up to 4 hours
- Meets UL 2079 Standards
- Remains flexible
- Applied by spray, trowel or brush
- Non-sagging, safe to use
- Economical
- Available in pails and drums



TEXSPRAY MARK IV ELECTRIC AIRLESS TEXTURE SPRAYER

- Proven Endurance Pump with oversized clearances ensures minimal pressure drop and surge-free performance
- SmartControl 2.0 Pressure Control for precise spray pressure, from 400 to 3300 psi
- Exclusive Brushless DC Motor compact and lightweight, delivers higher HP / wall amp
- Chrome Plated, Welded Steel Hi-Boy Cart rugged welded steel construction, integrated hose rack, tiltBack design
- Easy Out Filter filters from the inside out so filters won't get stuck or collapse when dirty
- Includes: 3/8" x 50' Hose, 1/4" x 3' Whip Hose, Flex Plus Gun and GHD 425 Tip



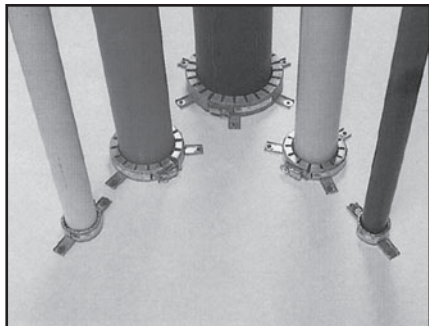
Built in kickstand for bucket changes



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FIRESTOPPING INSULATION PRODUCTS

BIOSTOP® FIRE RATED PIPE COLLAR



BIOSTOP® Pipe Collars are prefabricated for use in through penetration firestop systems using PVC, CPVC, ABS, Poly Pro, PVC foam core and ABS foam core pipe. UL Classified for both open and closed pipe systems. Available in sizes from 1½" to 6".

- Up to 33% reduction in installation time
- Simple locking mechanism for easy installation
- Economical - Most systems do not require backfill
- No measurement of material required



This product has been tested, and is monitored on an ongoing basis to assure its chemical compatibility with FlowGuard Gold, BlazeMaster and Corzan pipe and fittings.



BIOSTOP® WRAP STRIP

BIOSTOP® Wrap Strip is a flexible strip of highly intumescent firestop material used primarily for plastic and insulated pipe applications. When exposed to heat, this product expands greatly and forms a strong char to seal off the penetration by preventing the passage of flames and hot gases.

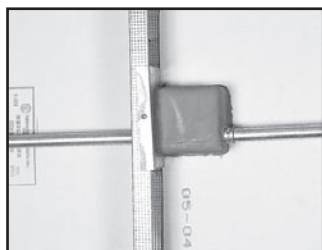
- Easy to apply - simply wrap required number of strips around penetrating item and push into annular space
- Easy dispensing carton • Economical 1" & 2" width • No cure time



This product has been tested, and is monitored on an ongoing basis to assure its chemical compatibility with FlowGuard Gold, BlazeMaster and Corzan pipe and fittings.

BIOSTOP® FIRE RATED PUTTY

BIOSTOP® Fire Rated Intumescent Putty Sticks are used to seal around penetrating items through fire rated walls and floors and blank openings. For use with electrical cables, conduit and metal pipe. Hand moldable with no curing time required. Will not dry out and can be re-used as additional penetrating items are removed or installed.



BIOSTOP® Fire Rated Intumescent Putty Pads are used to maintain the hourly rating of fire rated walls containing electrical outlet boxes and to reduce sound transmission. Only one pad thickness (1/8 inch) is required for a 1 or 2 hour fire rating. **No additional putty material needed to plug end of each electrical metallic tube or conduit at its connection to the box.** Required by Building Codes in rated partitions where horizontal separation of opposite facing electrical boxes is less than 24 inches (horizontally).



RectorSeal's technical service professionals respond to customer inquiries by providing documented engineering judgments within a timely manner. Technical information is also provided through the use of an Applications and Specifiers Guide and on-site training and educational seminars.

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LARGE OPENING FIRESTOPPING PRODUCTS

BIO FIRESHIELD™ LECTRA-STOP™

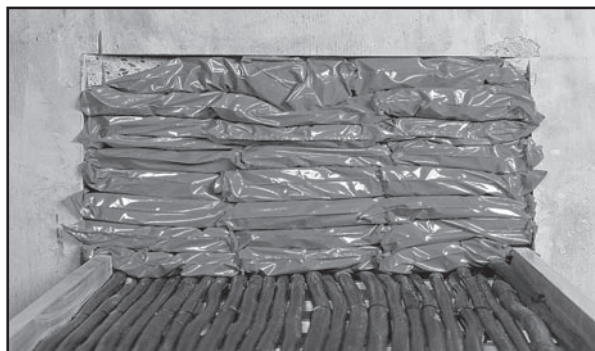


BIO Fireshield™ Lectra-Stop™ is a fire rated pad for use in electrical boxes when addressing the "24 inch rule". It is inserted on and adheres to the inside back wall of an electrical box, and is a highly intumescent firestop material. When exposed to fire Lectra-Stop™ will expand forming a char that will seal off the opening and prevent the spread of flames and limit the temperature rise on the unexposed surfaces.

- STC Rating of 53
- Easy to install • Cost effective • Self adhesive strip
- Highly intumescent • Non-conductive
- Fits on the inside of the electrical box
- Dielectric breakdown voltage 22V/mil (ASTM D 14)
- UL Classified as a Wall Opening Protective Material



BIO™ FIRESTOP PILLOWS



BIO™ Firestop Pillows are intumescent and designed for use primarily in large openings with cables, cable trays, blank openings or multiple penetrating items. For temporary or permanent applications.

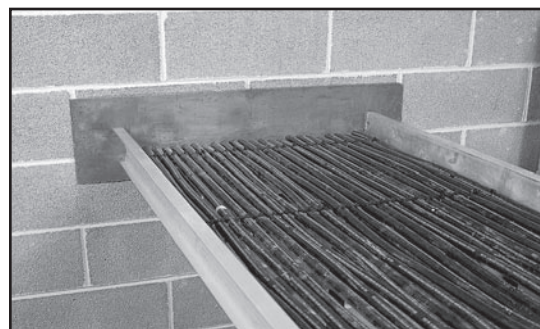
- UL Classified systems up to 4 hours
- Easy to install
- Cost effective - Reusable
- Forms a very hard char when burned
- No wire mesh required in most installations
- Two sizes available - Consult your Newman Representative

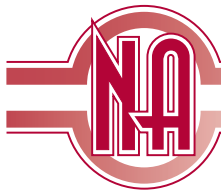


BIO K-10+™ FIRE RATED MORTAR

BIO K-10+™ is a through penetration firestop mortar that adheres to concrete, masonry, galvanized steel and most common through penetration materials.

- UL Classified systems up to 4 hours
- Easy to re-penetrate
- Meets ASTM E 814 and UL 1479 Standards
- Hand packable, few forms required
- Structural testing
- Large openings tested with multiple penetrations
- Amazing handleability and pot life





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FIRESTOPPING ACCESSORIES



CAULKING GUNS

Industrial quality hex rod guns specifically designed to handle the stiffest caulks and sealants. Patented mechanism delivers 3 times more thrust power than conventional guns. Other features include: seal puncture tool and spout cutter. For use with 10.3 oz. and 30 oz. tubes.

BULK LOADING CAULKING GUN

Economical 24 oz. caulking gun for use with mechanical 5 gal. pump

MECHANICAL 5 GALLON PUMP AND FOLLOWER PLATE

For the use with BIO Fireshield™ Sealants in 5 gallon pails to easily fill bulk loader caulking guns

OTHER ACCESSORIES AVAILABLE

Wire Mesh (No. 8) Screen in 100 Foot Rolls • Foam Backer Rod • 4 Lb. / Cu. Ft. Safing (mineral wool)

FIRESTOPPING DECISION PATH		
Use the following Firestopping Decision Path as a quick and easy method in deciding which RectorSeal® Bio Fireshield™ Products to use in a wide variety of applications.		
Metal Pipe - EMT, Copper Multiple Metal		BIOSTOP® 500+, BF 150+, BOTHERM™ 100 & 200SL, 350i BIO K-10+™ Mortar, BIOSTOP™ Putty
Insulated Metal Pipe - Combustible (Fiberglass)		BIOSTOP® 500+, 350i, BIO K-10+™ Mortar, Wrapstrip
Plastic Pipe	Open Pipe 2" and Smaller	BIOSTOP® 500+, 350i, Wrapstrip, Pipe Collar
	Closed Pipe 3" and Smaller	BIOSTOP® 500+, Wrapstrip, Pipe Collar
	Open / Closed Pipe Up to 6"	BIOSTOP® Pipe Collar
Glass Pipe		BIO K-10+™ Mortar
Cables	All Types, Single or Bundled	BIOSTOP™ 500+, BOTHERM® 100 & 200SL, 350i, BIO K-10+™ Mortar, BIOSTOP™ Putty
	Cable Trays	BIO K-10+™ Mortar, BIO™ Pillows, EZ-Block, Composite Sheet
Construction Joints Top of the wall		BIOSTOP® 500+, 700, 750, BOTHERM® 100 & 200SL, Joint Strip
Large Openings		BIO K-10+™ Mortar, BIO™ Firestop Pillows, Composite Sheets
Electrical Outlet Boxes		BIOSTOP® Fire Rated Putty Pads, Lectra-Stop™, Firestop Gasket

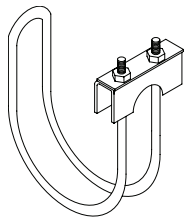
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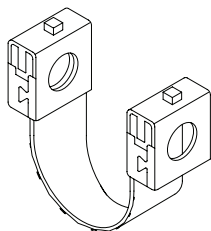
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SWAY BRACE GROUP



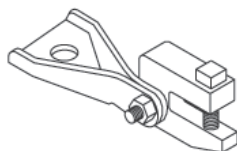
001/002 SWAY BRACE FITTING - MODEL E

- **SIZE:** Sprinkler System Pipe: 1" thru 8" Steel Schedule 7 thru 40 Sway Brace Assembly Pipe: Steel 1" and 1-1/4" Schedule 40
- **MATERIAL:** Carbon Steel or Stainless Steel (Type 304)
- **FINISH:** Plain, Electro Galvanized and Hot Dipped Galvanized
- **FUNCTION:** Per NFPA-13. Sway brace fitting of a lateral sway brace assembly. To form a 4-way, arrange adjacent lateral sway braces.
- **INSTALLATION:** Per NFPA-13. Place Model E over pipe to be braced. Insert brace pipe through MODEL "E" under channel bracket, leaving 1" minimum extension beyond. Tighten hex nuts until gage spring lays flat or torque to 65 in.-lbs.
- **ASSEMBLY:** Per NFPA-13. Combine with AFCON 70 series structure sway brace fitting and pipe brace element forming a complete sway brace.



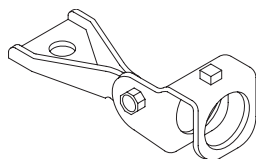
030/040 SWAY BRACE FITTING - MODEL K

- **SIZE:** Sprinkler System Pipe: Steel - 1" thru 10" Schedule 7 thru 40 and CPVC - 1" thru 3"
(Can be used to brace Copper, Plastic, FRP, Ductile and Cast Iron when OD matches the above)
Sway Brace Assembly Pipe: Steel 1" and 1- 1/4" Schedule 10 and 40
- **MATERIAL:** Carbon Steel
- **FINISH:** Plain, Electro Galvanized and Hot Dipped Galvanized
- **FUNCTION:** Per NFPA-13. Sway brace fitting of a lateral sway brace assembly. To form a 4-way, arrange adjacent lateral sway braces.
- **INSTALLATION:** Per NFPA-13. Place Model K over pipe to be braced. Insert brace pipe through Model K leaving 1" minimum extension beyond. Tighten set screws until heads contact the bracket.
- **ASSEMBLY:** Per NFPA-13. Combine with AFCON 70 series structure sway brace fitting and pipe brace element forming a complete sway brace.



076 ATTACHMENT FITTING - UNIVERSAL LOCKING

- **SIZE:** Fits 1" thru 2" bracing pipe, strut channel and structural steel. Use in combination with 1" thru 10" AFCON sway brace assemblies.
- **MATERIAL:** Ductile Iron or Carbon Steel
- **FINISH:** Plain, Electro Galvanized and Hot Dipped Galvanized
- **FUNCTION:** Structure attachment fitting of a sway brace assembly, consisting additionally of AFCON 001 thru 040 sway brace fitting and brace element of 3/8" maximum thickness forming a complete sway brace assembly.
- **INSTALLATION:** Per NFPA-13. Listed for use with NFPA fastener tables. For installation on H-beam or steel web joist, use AFCON 085 thru 088 sway brace adapters.
- **ASSEMBLY:** Insert brace component into fitting snug against back of jaw. Install set bolt finger tight, then additionally tighten 1/2 turn or torque to 125 inch pounds.

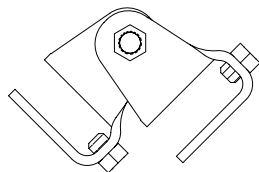


077 ATTACHMENT FITTING - LOCKING

- **SIZE:** Fits 1" and 1-1/4" bracing pipe. Use in combination with 1" thru 8" AFCON sway brace assemblies.
- **MATERIAL:** Carbon Steel, Ductile Iron or Stainless Steel (Type 304)
- **FINISH:** Plain, Electro Galvanized and Hot Dipped Galvanized
- **FUNCTION:** Structure attachment fitting of a sway brace assembly, consisting additionally of AFCON 001 040 sway brace fitting and brace element forming a complete sway brace assembly.
- **INSTALLATION:** Per NFPA-13. Listed for use with NFPA fastener tables. For installation on H-beam or steel web joist, use AFCON 085 thru 088 sway brace adapters.
- **ASSEMBLY:** Insert brace pipe into fitting against the pivot bolt. Tighten set bolt until head contacts bracket.

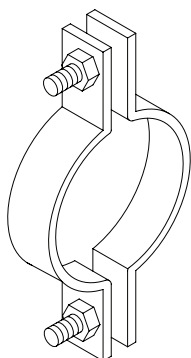


SWAY BRACE GROUP



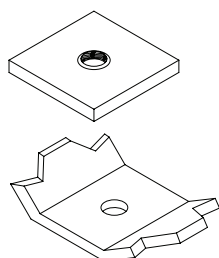
079 4-WAY SWAY BRACE ATTACHMENT

- **SIZE:** Fits 1" and 1-1/4" bracing pipe. Use in combination with 1" thru 8" AFCON sway brace assemblies.
- **MATERIAL:** Carbon Steel
- **FINISH:** Plain, Electro Galvanized and Hot Dipped Galvanized
- **FUNCTION:** 4-way sway brace assembly component for use on risers and other vertical piping configurations.
- **INSTALLATION:** Locate at 3" MAXIMUM distance from pipe being braced. Insert brace pipe into fitting against the pivot bolt. Tighten set bolt until head contacts bracket.



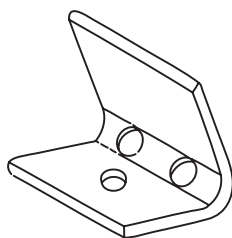
410 SWAY BRACE FITTING

- **SIZE:** 1" thru 8" Pipe
- **MATERIAL:** Carbon Steel or Stainless Steel (Type 304)
- **FINISH:** Plain, Electro Galvanized and Hot Dipped Galvanized
- **FUNCTION:** Pipe attachment component of a longitudinal or 4-way sway brace, consisting additionally of AFCON 70 series attachment end, AFCON 80 series adapter as required and brace pipe element forming a complete sway brace assembly.
- **INSTALLATION:** Per NFPA-13. Assemble 410 over pipe to be braced, install 70 series attachment end on outside of clamp ears and tighten bolts to minimum required torque of 40 ft.lbs. (078 is the preferred assembly component for use with the 410).



085 SWAY BRACE ADAPTER - STEEL WEB JOIST

- **SIZE:** 1/2" through bolt
- **MATERIAL:** Carbon Steel
- **FINISH:** Plain, Electro Galvanized and Hot Dipped Galvanized
- **FUNCTION:** Sway brace adapter used to attach an AFCON sway brace assembly to a steel web joist structural member. To provide a point of connection when drilling is not allowed or impractical. To stabilize 1/2" threaded stud in chord space.
- **INSTALLATION:** Per NFPA-13 and structural building component manufacturers recommendations. Steel Web Joist Manufacturer's warranty requires attachment within 6" of chord panel point. Per drawing, assemble 1/2" threaded stud thru chord space into tapped part B. Install part A over stud, engage AFCON sway brace assembly and nut. Install nut finger tight then additionally tighten 1/2 turn or torque to 40 ft. lbs. (1/2" threaded stud and nut furnished by customer).



086 SWAY BRACE ADAPTER - WIDE FLANGE / I-BEAM

- **SIZE:** 1/2" Rod
- **MATERIAL:** Carbon Steel
- **FINISH:** Plain, Electro Galvanized and Hot Dipped Galvanized
- **FUNCTION:** Sway brace adapter used to attach an AFCON sway brace assembly to a wide flange or I-Beam steel structural member. To provide a point of connection when drilling is not allowed or impractical. Also can be used to attach a steel web joist with a formed top chord.
- **INSTALLATION:** Per NFPA-13. Per drawing, insert 1/2" x 1 1/4" attachment bolt into 086 bracket. Install 1/2" threaded studs thru both brackets and engage on steel flange. Assemble nuts on studs and tighten. Install nuts finger tight, then additionally tighten 1/2 turn or torque to 40ft. lbs. Attach sway brace assembly on 1/2" bolt. On steel web joist with formed top chord, install within 6" of the panel points. (1/2" threaded studs and fasteners furnished by customer).

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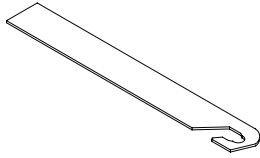
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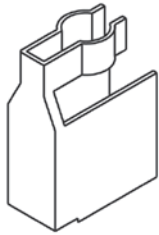
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RESTRAINT GROUP



162 UNIVERSAL RESTRAINING STRAP FOR VERTICAL PIPING

- **SIZE:** One size fits both 3/8" and 1/2" rod or set screw. Available lengths 4" and longer.
- **MATERIAL:** Carbon Steel
- **FINISH:** Mil. Galvanized
- **FUNCTION:** To enhance hanger attachment in areas subject to Earthquakes.
- **FEATURES:** Fast installation for new construction or retrofit. Requires no hanger disassembly to install.
- **INSTALLATION:** Install tight to structure and component parts - 1" minimum return on strap. L-dimension is measured from hanger rod center to the strap end.



310 RING RESTRAINER

- **SIZE:** One size fits 3/4" thru 2" AFCON #300 Ring Hanger. One size fits 2" and 3" AFCON #300 Ring Hanger.
- **MATERIAL:** Carbon Steel
- **FINISH:** Mil. Galvanized
- **FUNCTION:** To restrain movement of sprinkler pipe toward the knurl nut of the ring hanger. To prevent upward movement of pipe that supplies a pendent sprinkler below the ceiling.
- **FEATURES:** Listed only for use with AFCON #300 Ring Hanger.
- **INSTALLATION:** Per NFPA-13 on steel, CPVC, or copper pipe. Snap into locking position on swivel nut of AFCON #300 Ring Hanger.



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METRASEAL PIPE PENETRATION SEALS

the **Metraflex**® company




The Metraflex® MetraSeal quickly fills the space around any round pipe, including concrete, steel, plastic, cast iron, copper, telecommunications cable and electric, with a snug, permanent seal. It installs up to 75% faster than when using messy, weather-sensitive lead-oakum, mastics or casing boots. No drying or curing time is needed.

Rated at 20 psig, it is engineered as a permanent seal, resisting aging, water, ozone and sunlight for up to 25 years. The MetraSeal seals out groundwater in sub grade exterior walls, and absorbs noise and vibration. It is also ideal for filling gaps in interior walls and floors, keeping unwanted noise and fumes from invading office space. It has the added benefit of diminishing annoying liquid and turbulence noise.

Unlike other seals, MetraSeal can be installed in even the coldest weather. It can compensate for piping misalignment, and protects against galvanic corrosion by separating piping from metal casings.

Below is a chart outlining the different types of MetraSeal available for various applications, and on the following page a MetraSeal sizing calculation guide. For more details and complete chemical capability, consult your Newman representative when ordering to assure that the correct MetraSeal is selected for your application.

TYPE	SEAL MATERIAL	PRESSURE PLATES	BOLTS & NUTS	TEMPERATURE RANGE	APPLICATIONS*
E	EPDM Black	GLASS REINFORCED PLASTIC	STEEL zinc dichloromate	-40 to +250	Suitable for most applications in water, both above ground and direct burial. Provides electrical insulation where cathodic protection is required.
ES	EPDM Black	GLASS REINFORCED PLASTIC	STAINLESS STEEL(18-8)	-40 to +250	Suitable for environments where the corrosion resistance of stainless steel hardware is required.
P	NITRILE	GLASS REINFORCED PLASTIC	STEEL zinc dichloromate	-40 to +210	Resistant to most hydrocarbons, oil, gas, jet fuel and many solvents.
PS	NITRILE	GLASS REINFORCED PLASTIC	STAINLESS STEEL(18-8)	-40 to +210	Same as above but with corrosion resistance of stainless steel hardware.
HT	Silicone	STEEL ZINC dichloromate	STEEL zinc dichloromate	-40 to +400	High temperature applications.
120 	Intumescent	STEEL ZINC dichloromate	STEEL zinc dichloromate	-40 to +250 or direct flame	For fire-rated walls, floors and ceilings.

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METRASEAL SIZING CALCULATION

the Metraflex® company

STEP 1 - CALCULATE THE ANNULAR SPACE:

The Annular Space is the space between the Outside Diameter of the pipe, and the Inside Diameter of the wall sleeve or wall opening. It is calculated using the following formula:

$$\text{Annular Space} = \frac{\text{Wall Opening I.D.} - \text{Pipe O.D.}}{2}$$

STEP 2 - SELECT METRASEAL MODEL:

Select the proper MetraSeal Model from the MetraSeal Dimensional Chart (shown below) by comparing the Annular Space to the Free State and Expanded State Thickness. The Annular Space calculated must fall between the Free State and Expanded State Thicknesses.

STEP 3 - CALCULATE NUMBER OF LINKS:

First, calculate the Bolt Circle.

$$\text{Bolt Circle} = \frac{\text{Wall Opening I.D.} + \text{Pipe O.D.}}{2}$$

Then, determine the number of links required by using the following formula. Chord Length is found in MetraSeal Dimensional Chart below.

$$\text{Number of Links} = \frac{\text{Bolt Circle} \times 3.14}{\text{Chord Length}}$$

Finally, the number of links determined must be rounded down to the next whole number.

SIZE	FREE STATE THICKNESS*	EXPANDED STATE THICKNESS	CHORD LENGTH
	SEALING RANGE		
MS-200	.50"	.62"	1.125"
MS-275	.62"	.78"	0.910"
MS-300	.71"	.88"	1.510"
MS-315	.82"	1.03"	1.470"
MS-325	.94"	1.18"	3.100"
MS-400	1.43"	1.81"	3.625"
MS-425	1.13"	1.45"	3.625"
MS-475	1.62"	1.90"	2.625"
MS-500	2.37"	2.81"	3.860"
MS-525	2.18"	2.50"	3.860"
MS-575	1.811"	2.35"	3.10"
MS-600	3.20"	4.00"	6.000"

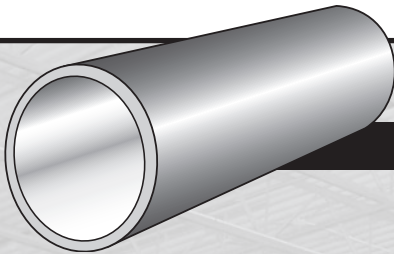


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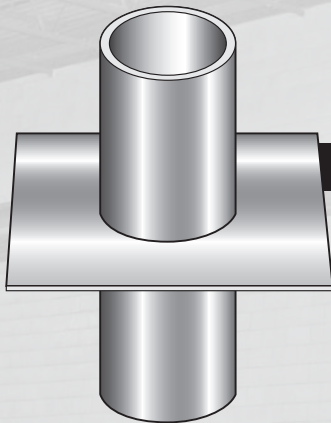
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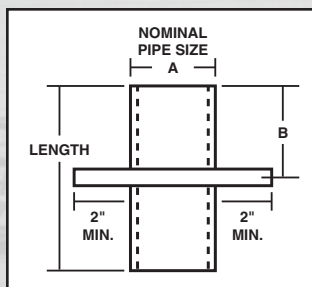
STRAIGHT SLEEVE

MATERIAL: Schedule 40 Steel Pipe
FINISH: Black, Galvanized, Painted
ORDERING: Specify nominal pipe size, length and finish



WATERPROOF SLEEVE

MATERIAL: Steel Pipe and 1/4" Steel Plate
FINISH: Black, Galvanized or Painted
SERVICE: Waterproof Sleeves are cut from standard weight pipe and are furnished with a continuously welded water stop of 1/4" steel plate



ORDERING: Specify nominal pipe size A, dimension B, length and finish



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