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GRACE 17 PIECE TOOL SET PLUS BENCH BLOCK

Got You Covered With Tools Necessary for Fast Repairs in the Field



Handy tool set contains everything you need to perform quick repairs on your guns. Kit includes 8 fixed blade screwdrivers with parallel ground tips to fit most gun screws, 8 brass punches, and an 8 oz. brass hammer. Punches are made of 3/16" brass hex stock and come with tips in 1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", and 5/16" diameter. Kit comes with a neoprene base to keep tools organized, but also serves as a functional bench block. **#354-000-042** 17 Piece Tool Set w/Bench Block, 4E118H60 **\$ 142.99**

GRACE GUN CARE TOOL SET



Convenient, Easy To Carry, Take To The Range, Use On The Bench

Never get caught without essential gunsmithing tools again. Complete 17-piece tool set, in a handy, padded, vinyl case, carries easily to the range; lies flat on the bench. Contains the tools you need for quick field repairs: eight, fixed blade screwdrivers with parallel ground tips fit most gun screws; eight, non-marring, brass pin punches and an 8 ounce brass hammer help provide safe removal and installation of the most commonly found assembly pins. **SPECS:** Case - vinyl, black, 8 1/2" (21.6cm) x 11" (28.3cm). Hammer - 8 oz. (226 g), 1" (2.5cm) dia. x 2" (5.1cm) long head, 9/16" (23.5cm) hickory handle. Punches - brass, 3/16" hex stock, parallel shaft, 1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4" and 5/16" dia. Screwdrivers - square shanks hardened to Rc 52-56. 4" to 9" lengths. Hardwood handle. **#354-100-017** Gun Care Tool Set, 4E104Q90 **\$ 119.99**



BROWNELLS BASIC GUNSMITHING KIT

Helps You Do Basic Repairs

The 24 tools (plus 6 additional screwdriver bits) in this Kit are among the ones you will find on the work bench of practically all professional gunsmiths. When we chose each one individually, we walked the aisles of our stock room many times, repeatedly handling each of the vast variety of gunsmithing tools we carry. We had two thoughts in mind as we evaluated each tool: (1) If I were advising a good friend starting to work on guns, is this a tool he should have; and, (2) If I were assembling a compact, economical and basic service tool kit for myself, is this one of the tools I would start with. If the tool met both of these basic requirements, it is in the Kit.

We feel that with the tools in this Kit you can confidently tackle the basic service, cleaning and repair jobs on practically any gun brought to you. The only exceptions would be where special tools are required for specific and complex, advanced procedures. For those jobs you can prepare yourself as you progress. But, this is the Kit you should start with.

The Basic Gunsmithing Kit contains the following tools: **No. 100 Parallel Pliers;** 1" Nylon/Brass Hammer; **No. 81 MAGNA-TIP® Screwdriver;** Screwdriver Bits Nos. 1 - 2 - 6 - 00 - 10 - 20 and 30; **Two sizes Instrument Screwdrivers;** Main Spring Vise; MF134 India Stone; M-16 Brush; 1/8" x 6" Pin Punch; 3/32" x 6" Pin Punch; 1/16" Starter Punch; 3/32" Starter Punch; Brownells Replacement Pin-Punch Set; 2" Replacement Punch Assortment; Nylon/Brass Drift Pin Punch Set; Gunsmith Bench Knife; 8" No. 2 Cut Hand File; Sight Base File; 4-in-1 Hand Rasp; Scribe-Hook; No. 1033 6" Chain Nose Pliers; **No. 91 Allen Wrench Set;** Screw Check'r and Kit Box. **#080-750-001** Basic Gunsmithing Kit, 8K275G21 . . . **\$ 299.99**

ADD-ON Pak No. 1 - Consists of the 4-in-1 Hand Rasp; Scribe Hook; No. 1033-6 Chain Nose Pliers and No. 91 Allen Wrench Set, which are included in the Basic Gunsmithing Kit but NOT included in the Assembly/Disassembly Kit. **#080-750-001** Add-On Pak No. 1, 8K41E44 **\$ 43.99**

BROWNELLS ASSEMBLY/DISASSEMBLY TOOL KIT

With Special Tools For Colts & Mausers

30 tools and bits with four highly specialized tools making the Kit better equipped for more advanced professional work. The Colt Tool makes the ticklish job of removing Colt revolver ejectors simple and makes it easy to turn tight 1911 Auto bushings. The Bolt Extractor Pliers greatly assist removal and installation of those stiff extractors on Enfield, Springfield, Mauser or similar bolt. Magazine retaining caps on Ithaca 37's, Winchester Model 12's and similar, positively require the special Winchester Model 12 Wrench to remove. The 7/16" Ball End Socket Wrench is perfect for scope rings with Allen head screws on the bottom side. The Kit contains the following tools: **No. 100 Parallel Pliers;** 1" Nylon/Brass Hammer; **No. 81 MAGNA-TIP® Screwdriver;** Screwdriver Bits Nos. 1 - 2 - 6 - 00 - 10 - 20 and 30; **Two Instrument Screwdrivers;** Main Spring Vise; MF134 India Stone; M-16 Brush; 1/8" x 6" Pin Punch; 3/32" x 6" Pin Punch; 1/16" Starter Punch; 3/32" Starter Punch; Brownells Replacement Pin-Punch Set; 2" Replacement Punch Assortment; Nylon/Brass Drift Pin Punch Set; Gunsmith Bench Knife; 8" No. 2 Cut Hand File; Sight Base File; Brownells Colt Pistol Wrench; Model 12 Wrench; Bolt Spring Extractor Pliers; Screw Check'r; 7/16" Speed-Hex (Ball-end) Wrench and Kit Box. **#080-755-000** Assmly/Dismbly Kit, 8K276F70 **\$ 332.99**

ADD-ON Pak No. 2 - Consists of the Brownells Colt Pistol Wrench; Brownells Winchester Model 12 Wrench; Bolt Extractor Pliers and the 7/16" Speed-Hex Wrench which are included in the Assembly/Disassembly Kit but NOT included in the Basic Gunsmithing Kit. **#080-755-002** Add-On Pak No. 2, 8K30L53 **\$ 43.99**



BROWNELLS BASIC FIELD TOOL KIT

Have Everything You Need To Repair A Host Of Firearms Anytime, Anywhere Without Taking Everything But The Kitchen Sink!



Versatile, compact tool kit helps prevent minor firearm malfunctions from ending your field outing ahead of schedule. Like our popular gun-specific Field Maintenance Packs, this kit was developed for serious shooters who are on the go, and features only the highest quality, longest lasting gunsmithing tools available. These tools were carefully selected by our gunsmithing technicians for general field repair and maintenance of a host of firearm types, so you're as prepared as possible to tackle those readily correctable problems that occur when you least expect them. Perfect for the competitive shooter, avid hunter, and mobile armorer who need the basics to help field strip and perform minor repairs and cleaning of handguns and long guns. Our extra-tough, 1000 denier Cordura® field case, with individual tool pouches, keeps everything protected and organized, so there's no down time scrounging for something to substitute for the right tool. Our specially configured Magna-Tip® screwdriver set with #81 handle, polyethylene case, and bench tray filled with 23 of the most commonly used slotted, hex, Phillips, and Torx® bits will handle the majority of gun screws in existence. An additional miniature screwdriver set gives you six double-ended Phillips, slotted, and Torx quick-change bits to take care of those really small but critical gun fasteners. And, the knurled swivel top driver handle provides finger-tip control to prevent gouging or losing those really tiny screws. Extra-long, buttstock screwdriver makes it fast and easy to remove most shotgun stocks. We've also added the most commonly used steel, starter and pin punches. Easily start, remove, and install spring pins and roll pins in most guns without damage to the pin or firearm itself. Steel punches are individually marked for size. Also included is a non-marring, nylon drift punch for making minor sight adjustments as well as a host of other jobs. A smooth cut file with handle takes care of those unforeseen problems that require minor metal removal; four additional handle inserts accept many other file sizes you may wish to add to your kit. Medium grit, India stone allows you to lap, hone, sharpen, or polish out small metal imperfections. Additional tools include a steel packing hook for releasing springs, a 6" chain nose pliers for grabbing and holding small parts, a nylon bench block with "V" center, a nylon/brass hammer, and a double-ended gun parts cleaning brush. Lay everything on the soft, flexible neoprene gun mat to safeguard your gun's finish during cleaning or repair. Available with Black or Coyote Tan field case. **#080-000-665** Basic Field Tool Kit, Black, 8K219M99 **\$ 224.99**
#080-000-666 Basic Field Tool Kit, Coyote, 8K203M89 **219.99**


Orders: 800-741-0015

order on the web
brownells.com

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BROWNELLS WEAPONS FIELD MAINTENANCE PACKS

Complete, Dedicated Kits For Field Repair & Maintenance Of Tactical Weapons

These compact, model-specific field maintenance packs are designed for servicing combat weapons and, provide the soldier or law enforcement personnel with all the tools required to field strip, repair, and maintain weapons while on the move. These are not run-of-the-mill cleaning kits, but carefully selected, high-quality field armorer tools dedicated to working on specific weapon types, so there is no confusion and no down time spent scrounging through a large field case of loose odds and ends. Individual pouches and compartments inside the water- and abrasion-resistant, denier Cordura case keep tools secure and separated to help minimize noise that could jeopardize your mission. Quiet, #9 YKK zippers with oversize pulls make it fast and easy to get tools in and out. Front panel features clear, I.D. card sleeve and loop strip for name tape. Includes two, nylon grab handles for easy carry. Made in the U.S.A. Field Pack Case also available separately. 



M16/M4 Field Pack

M16/M4 FIELD PACK - Allows complete weapon breakdown for routine maintenance and repair, plus includes tools for sight adjustments and field cleaning of the Colt M16/M4. Includes special tools for removal of barrel nut, flash hider and lower receiver extension without damage to any rifle component. **SPECS:** Includes: #81 MAGNA-TIP® hollow screwdriver handle w/ Leupold uldow (LJB) and #185-10 bits; 1/16", 1/8" and 1/4" pin punches; 1/2" drive handle; 3/4" nylon/brass hammer; buttstock tool; combination wrench; lower receiver vice block; A1/A2 sight wrench; carrier carbon scraper; Deluxe model buttstock cleaning kit. Approx. 5 lb. (2.3 kg) wt.

#080-000-458  M16/M4 Field Pack, 8K246N74 \$ 264.36



Remington 700 Field Pack

REMINGTON 700 FIELD PACK - Field tool kit maintains Remington 700 sniper rifles while out on deployment. Includes all special armorer tools, punches, wrenches, screwdriver handle and bit for complete rifle disassembly (except barrel removal), including breakdown of the complete bolt assembly.

SPECS: Includes: Magnetic Law Enforcement MAGNA-TIP® screwdriver handle w/ #185-3 bit, extractor rivet anvil, firing pin tool, bolt brush, rifle bench block, 45 in.-lb. torque T-handle, 1/4" square-to-hex drive converter, ball-hex "L" wrench set, bolt ejector tool set, bolt disassembly tool, nylon/brass hammer, 1/16" and 1/8" pin punches, .120" brass alignment/push punch, 12"x24" bench/field mat. Approx. 5 lb. (2.3 kg) wt.

#080-000-457  Rem. 700 Field Pack, 8K329P15 \$ 420.99



Tactical Shotgun Field Pack

TACTICAL SHOTGUN FIELD PACK - All the tools needed to perform essential maintenance on common tactical and law enforcement shotguns, including Benelli, Mossberg 500/590/835, and Remington 870/1100/11-87 models. Inside you'll find specialty tools you'd expect to see in far more elaborate armorer's tool kits, including a forend wrench for removing forend retaining nuts without damage and padded, adjustable, non-marring pliers for removing magazine tubes and stuck magazine caps. T-handle driver system comes with sockets for buttstock bolts, plus the correct-size socket for the new action spring tube nut on current-model Remington Model 11-87 Police shotguns (will also fit current 1100).

SPECS: Contains tools for working tactical/law enforcement models of Benelli, Mossberg 500/590/835, and Remington 870/1100/11-87 shotguns. Contents - Magna-Tip® screwdriver handle with #210-5 and #270-5 slotted bits, 3/16" Philips bit, and Magna-Tip 12-gauge choke tube wrench; 12-gauge shotgun forend wrench; magazine tube/cap pliers; 1/4" socket drive, T-handle, and extension with 1/4" socket, drag link, Rem 870 buttstock bolt socket, and 1/4" socket for current-production Rem 1100/11-87 action spring tube nut; nylon/brass hammer; nylon bench block; 6" chain nose pliers; 1/16" and 1/8" starter punches and pin punches; packing hook; 12-gauge shotgun Bore Snake®; 1/4 oz. (7.4ml) Friction Defense® gun oil; and double-ended parts cleaning brush. Case - 1000 denier Cordura® nylon, O.D. green. 11 1/2" (29.2cm) long, 8 1/2" (21.6cm) high, 3" (7.6cm) thick.


#080-000-583  Brownells Tactical Shotgun Maintenance Pack, 8K315M98 \$ 315.98



1911 Auto Field Pack shown


1911 AUTO FIELD PACK - Keep your 1911 Auto in peak working order while out on patrol. Every tool has a purpose, and the complete kit allows full field stripping, so pistol can be properly cleaned, repaired, and parts replaced if needed.

SPECS: Includes: #81 MAGNA-TIP® screwdriver handle w/ #120-3, #185-00, #185-1, #240-5, T15 Torx, and bushing driver bits; grip bushing staker; lug iron; bushing wrench; plunger tube crimper kit; safety detent depressor; trigger stirrup die; nylon/brass hammer; pistol bench block; (3) nylon punches; front sight staking tool; extractor removal tool; .092" and .120" dia. brass push punches; mainspring housing pin pusher; 12"x24" bench/field gun mat. 5 lb. 2 oz. (2.32 kg) wt.

#080-000-456  Brownells 1911 Auto Field Pack, 8K323A98 \$ 366.21


BERETTA 92/M9 FIELD PACK - All the tools you need for complete field stripping of your Beretta service pistol for maintenance, cleaning, and parts replacement. Includes roll pin punches, grip bushing driver bit, grip bushing staker, trigger return spring tool, and magazine lip gauge all specific to the 92/M9-plus, India and Arkansas stones for smoothing hammer and sear engagement surfaces.

SPECS: Includes: MAGNA-TIP® Law Enforcement clip tip screwdriver handle w/ #300-5 slotted bit & #240-2 bushing driver bit; 4 oz. ball peen hammer; magazine lip gauge; grip bushing staker; straight/90 degree scribe; trigger return spring tool; (4) roll pin punches; 1/16" brass drift punch; India stone; and hard Arkansas stone. Approx. 5 lb. (2.3 kg) wt.

#080-000-469  Beretta 92/M9 Field Pack, 8K304L15 \$ 332.22

GLOCK® FIELD PACK - Maintains the Brownells Field Pack goany-where philosophy, while including a nice array of dedicated tools for keeping any Glock model in peak working order. Includes magazine tool specifically designed for easily removing Glock floorplates, rear sight mover, channel liner replacement tool, slide cover plate for installing Ghost-brand tactical triggers, and the Glock Blok vise block, plus roll pin punches, flat-tip screwdriver, front sight nut driver, .050" hex head wrench for adjustable rear sights, and an array of handy nylon cleaning brushes.

SPECS: Contents - Magna-Tip® screwdriver handle with #120-3 slotted bit, 1/16" hex head bit, 1/16" & 1/8" pin punch bits, and Glock sight nut bit; Glock Blok vise block; sight adjustment tool; magazine tool; channel liner tool; chain nose pliers; armorer's orange slide cover plate; .050" hex wrench; magazine brush; 9mm, .40 cal. & .45 cal. nylon bore brushes; double-ended parts cleaning brush; and 4 fl. oz. (118ml) bottle of Break-Free CLP. Case - 1000 denier Cordura nylon, O.D. green. 11 1/2" (29.2cm) long, 8 1/2" (21.6cm) high, 3" (7.6cm) thick.

#080-000-582  Field Tool Pack for Glock, 8K281F90 . . . \$ 304.99

S&W M&P PISTOL FIELD PACK - All the tools required to field strip, repair, and maintain Smith & Wesson's popular M&P semi-auto pistol. Includes the proprietary M&P rear sight removal tool, all necessary roll pin punches, an S&W fixed-blade armorer's screwdriver, cleaning brush, and other tools to keep your M&P working under difficult conditions.

SPECS: Contents: M&P rear sight tool, S&W armorer's fixed blade screwdriver, 1/16" Allen head driver, nylon/brass hammer, blue pistol bench block, cleaning brush, #3 (1/16") & #4 (1/8") steel roll pin punches, and 1/16" steel starter punch, plus .092", .078" and .470" diameter steel cup tip punches and nylon case. Approx. 3 lb. 3 oz. (1.4 kg) wt.

#080-000-039  S&W M&P Field Pack, 8K189N40 . . . \$ 247.99



Ruger Mini-14 Field Pack

RUGER MINI-14 FIELD PACK - Each tool in this kit serves a specific purpose in helping you keep your .223 carbine functioning reliably. Contains all of the correct-size pin punches and screwdriver bits needed for full field stripping, plus a rear sight adjustment tool designed specifically for the Ruger® Mini-14®.

SPECS: Includes: #84 MAGNA-TIP® hollow screwdriver handle w/ #185-00, #185-10, #300-4, and #360-4 bits; 1" nylon/brass hammer; 1/16" and 1/8" roll pin punches; 1/16" and 1/8" roll pin holders; .092", .120", and .151" steel push punches; rear sight adjustment tool; 4" diameter polyethylene bench block; 12" x 24" bench/field gun mat. Approx. 5 lb. (2.3kg) wt.

#080-000-483  Mini-14 Field Pack, 8K175Q10 \$ 188.56



FOREIGN WEAPONS FIELD PACK - Contains tools for servicing a variety of Soviet-type foreign weapons, including the AK-47/AKM assault rifle, PK/PKM/PKMS 7.62mm machine gun, Dragunov SVD sniper rifle, DShK/DShKM 12.7mm machine gun, and RPG-7 grenade launcher. Lets you field-strip these weapons quickly for cleaning, maintenance, adjustment, and repair without the confusion and down time spent scrounging for the proper tools.

SPECS: Kit includes 7.62 x 39 broken shell extractor, 7.62 x 54R broken shell extractor, 7.62 x 39 Go/No-Go gauges, 7.62 x 54R Go/No-Go gauges, AK-47/SKS front sight tool, No. 10 slot head screwdriver, 6" chain nose pliers, 1" nylon/brass hammer, 4 oz. ball peen hammer, 6" adjustable crescent wrench, 6" mill file, starter punch set (1/16", 1/8", 1/4" & 3/16"), pin punch set (1/16", 1/8", 1/4" & 3/16"), prick punch, center punch, Delrin® bench block, double-ended nylon gun parts cleaning brush, stainless steel cleaning brush, #3 acid brush, cleaning rod (4 sections with slotted tip), 8-32 to 1/16"-27 Rod adapter, Double-Tuff™ phosphor bronze bore brush set (7.62mm, 12.7mm, 18mm & 40mm), 40mm cotton bore mop, and (100) 1 1/4" dia. heavy duty flannel cotton patches, in a heavy duty O.D. green Cordura nylon case. Case is approximately 11" (27.9cm) long, 9 1/2" (24.1cm) high, and 3 1/2" (8.9cm) thick.

#080-000-522  Foreign Weapons Field Maintenance Pack, 8K379N99 \$ 379.99

FIELD PACK CASE - The same, heavy-duty, Cordura field case included with our Weapons Field Maintenance Packs. Made available separately for your additional tactical gear and accessories.

SPECS: Denier Cordura nylon, O.D. green. 12" (30.5cm) long, 10 1/2" (26.7cm) high, 3 1/2" (8.9cm) thick.

#080-000-459  Field Pack Case, Only, 8K66G35 \$ 75.99

GUARANTEED. FOREVER.®
SINCE 1939

NEW!

LYMAN PISTOLSMITH STARTER TOOL SET

Handy Kit With Basic Tools for Working on Handguns



This is an excellent kit for performing basic stripping, cleaning, and maintenance on handguns. Great for the range bag, vehicle, the cabin, or any secondary location where you might find yourself in need of some tools to make an adjustment or repair on one of your guns. It includes a bench mat that protects the gun's surface, as well as wherever you're working (kitchen table? desk?). Includes a large X-Block to safely support the gun when removing parts, plus a pick and brush set to clean all those tough to reach areas.

#539-000-139 Pistolsmith Starter Tool Kit, 5K44I89... \$ 47.99

NEW!

LYMAN GUNSMITH TOOL SET

An Excellent Starter Set for the New Gunsmith or Hobbyist



This handy kit contains all the basic tools that you need to service and maintain firearms. It includes a Pachmayr 31-piece screwdriver set with

bits specifically designed for use on firearms, a large non-marring bench block to safely support guns when punching out pins, etc. The included hammer has both brass and polymer heads, while the punch set has punches in the sizes most commonly used on firearms, including a brass drift punch. Also, a collection of hook, picks, and scrapers, plus a toothbrush-style cleaning brush.

#539-000-140 Gunsmith Tool Set, 5K80Q59... \$ 84.99

NEW!

LYMAN MASTER GUNSMITH TOOL SET

A One-Stop Way To Set Up Your Bench To Work on a Large Variety of Guns



Lyman's Master Gunsmith Tool Set contains their large 68 piece Gunsmith Tool Set, plus a bench mat to protect working surfaces and organize small parts. The large, non-marring X-Block supports the gun while you pop out pins or other parts. A hammer and punch set has punches in all the sizes commonly used on guns, including a brass drift punch, a hammer with brass and polymer heads, and a set of roll pin punches. The pick and brush set helps you clean hard-to-reach nooks and crannies. The Digital Trigger Pull Gauge is indispensable in verifying and adjusting trigger pull weights. Plus, a handy box for the screwdrivers and a storage tray for the punch set.

#539-000-141 Master Professional Gunsmith Tool Set, 5K176Q49... \$ 189.99



LEATHERMAN® WAVE® MULTI-TOOL

Go-Anywhere Survival, Repair & General Maintenance Tool



Classic Leatherman tool, their most popular model, is a heavy-duty, stainless steel multi-tool that's perfect for the grab-and-go bag, range bag, briefcase, or vehicle glove compartment. Or carry it on your belt or MOLLE gear with the included nylon sheath. It has separate 3" (7.6cm) long clip-point and serrated sheepsfoot knife blades that are accessible from the outside when the tool is folded closed. Also features a combination needlenose/regular pliers with wire cutters, plus a saw blade, crimper, wire stripper, bottle/can opener, Phillips driver, 1/4" (6.4mm) flat-blade screwdriver, .06" (1.5mm) eyeglass repair screwdriver, scissors, diamond-coated file, wood/metal file, wire stripper, and 8" (19cm) fold-open ruler. Hardened steel pivots ensure smooth, reliable operation, with thumbnailed tabs to easily swing the tools out of the handle.

SPECS: Stainless steel, black oxide finish. Precision-ground 420HC stainless steel knife blades, black oxide finish. 4" (10.2cm) OAL folded; 6 1/4" (16cm) OAL extended. 8.5 oz. (241g) weight. Includes instructions and black nylon sheath with belt attachment.

#525-000-001 Wave Multi-Tool, 5B00KFA... \$ 99.95

KENNEDY TOOL CHESTS

Organize Your Tools In These Professional Cabinets



Affordable, life-time protection and security for the gunsmith's most important investment, his tools. Kennedy is the industry standard, the finest - bar none - on the market today. Furnished with a tough, attractive, brown, wrinkle finish that stands up to wear, hides dirt and fingerprints, too. Features include: Top

to bottom, double sidewall construction; Full-length hinges with stainless steel, anti-corrosion pins; Two-piece, steel drawer slides; Thick, genuine wool felt drawer liners; Keyed lock.

MODEL 520 MACHINIST'S CHEST - 7 drawers (5 half width, 2 full width), plus a generous top compartment, self-storing, double wall front panel; 6 drawer dividers and cylinder lock.

SPECS: 20 1/8" wide x 8 1/2" deep x 13 1/2" high.

#480-500-520 No. 520 Chest, 2F361L54... \$ 392.99

MODEL 52611 MACHINIST'S CHEST - 11 drawers, side handles, top compartment, self-storing front panel, 9 drawer dividers, cylinder lock. Specified by many gunsmithing schools.

SPECS: 26 1/2" wide x 8 1/2" deep x 18" high.

#480-526-110 No. 52611 Chest, 2F498B69... \$ 606.99

PALMGREN DRILL PRESS VISES

Precision, American-Made; Add Versatility To Drill Presses



Solid steel castings, flawlessly machined and finished for years of service. Fine-thread adjusting screws, bolt lugs for rigid mounting, jaws grooved horizontally and vertically for round work pieces.

SPECS: #120 - 4 1/2" (11cm) long. Jaw: 1 1/2" (3.8cm) wide, 1 1/2" opening. #320 - 8" (20.3cm) long. Jaw: 3" (7.6cm) wide, 3" opening.

#178-150-120 #120 Drill Press Vise, 8G107N44... \$ 127.99

#178-150-320 #320 Drill Press Vise, 8G119F11... 177.99

LOTHAR WALTHER BISLEY GUNSMITHING VISE

Improved & Updated Version Of The Famous English-Made Original; Multi-Positional For Unlimited Access To Your Work



Precision, German-made gun vise modernizes the original Parker Hale design so popular decades ago with English shooting ranges for detailed gun cleaning and maintenance. Cast from high tensile strength aluminum alloy, the Bisley vise is compact and light enough to take anywhere, yet tough enough to handle jobs bigger than expected. Two sets of parallel clamping jaws rotate a full 360° in the same plane to provide unlimited versatility and access to your work. Simple and reliable, spring-loaded, cog-locking system allows instant one-hand adjustment by pulling back on the rear jaw and rotating it to any of 15 different positions in 22.5° increments. Hardened and ground, steel jaw inserts on one side handle small parts and many intricate tasks around the shop; oval shaped jaws with cork padding on the opposite side allow non-mar clamping of barrels, receivers, and large irregularly shaped objects. Polymer adjustment knob with threaded steel bushing glides along the vise screw with exceptional smoothness for precise tension control. Heavy duty base with steel clamping screw and T-handle make the Bisley vise extremely solid, portable and quick to mount and remove on work platforms from 1 to 2 1/2" thick.

SPECS: Cast aluminum body, light green powder coat finish; other components hardened steel, natural finish. Straight Jaws 2 1/4" (7cm) long; 2 1/8" (5.4cm) max. separation width. Curved Jaws - 4" (10.6cm) long; 2 1/8" (7.3cm) max. separation width. 5.1 lb. (2.3kg) weight. Mounts on surfaces up to 2 1/2" (6.3cm) thick.

#950-000-003 Bisley Gunsmithing Vise, 5Z232L11... \$ 270.80

FORSTER SWIV-O-LING VISE

Holds Small Items Securely In Almost Any Position



Versatile, miniature vise designed for secure retention of small, hard-to-hold items is like having a couple of extra hands at your work bench. Dual-bolt jaw tensioning system lets you apply the precise amount of force needed to grasp the work piece firmly without overtightening and causing damage. One bolt opens and closes the jaws, while the other provides countering force to keep the jaw halves parallel and prevent slippage. Once the item is locked in the jaws, no need to remove and reclamp to change its position because the swivel mechanism allows the entire jaw assembly to rotate 360° horizontally and tilt up to 28° from vertical. Jaw tightening handle and swivel locking handle can be removed if necessary to provide maximum freedom of access to work piece. Rugged machined steel swivel mechanism with case-hardened jaws; cast aluminum base is drilled for bolting to benchtop. Accepts items up to 1" wide.

SPECS: Steel, black oxide finish, with cast aluminum base. Approximately 5 1/2" (13.3cm) overall height.

#319-000-005 Swiv-O-Ling Vise, 9A70E36... \$ 92.99

"V" BLOCKS

Time & Time Again, Makes Possible The Impossible



The only accurate way to hold barrel and receiver when aligning scope/sight screw holes if a jig is not being used and special drill press vises are not available. Set of 2 with 1 clamp.

SPECS: Cast Iron. Approximately 1 1/2" (3.8cm) sq. x 2" (5.1cm) long.

#973-340-463 116 V-Block, 9D49B06... \$ 62.99

PANA-VISE

Rotates 360°, Tilts 180°, Locks Inn Any Position



Holds work in any imaginable position, rotating thru 360°, tilting 180°. Heads and base sold as separate parts, so you can "build" the vise you need. No. 303 and 366 heads can be used interchangeably on the No. 300 base. No. 437 head fits ONLY on No. 400 base.

PANA-VISE HEADS

NO. 303 HEAD - has heavy-duty adjusting screw, brass bushing, double steel guide pins.
SPECS: Nylon jaws are 2 1/2" (6.35cm) wide, open to 2 1/4" (5.39cm) with throat of 1 5/16" (2.42mm).

#695-303-000 No. 303 Head, only, 5F29N17... \$ 42.99

NO. 366 HEAD - opens to a full 6" (15.2cm). Micro adjustable, steel jaw plates. Removable, molded, neoprene pads.
SPECS: Jaws are 1 1/4" (4.4cm) wide.

#695-366-000 No. 366 Head, only, 5F47P06... \$ 62.99

PANA-VISE BASES

Variable load control knob gives full range of adjustments.

NO. 300 BASE - is the original screw-down, bench-top base.
SPECS: 4 1/2" (11.4cm) bottom diameter. 3 1/4" (8.8cm) high.

#695-300-000 No. 300 Base, only, 5F25K41... \$ 38.99

NO. 400 HEAVY-DUTY BASE & REPLACEMENT JAWS - No. 400 handles larger, heavier objects than the No. 300 base. Accepts only the No. 437 Head.

SPECS: 4 1/2" (10.5cm) square, 3 1/4" (8.3cm) tall. 1.5 lbs. (680 g).

#695-400-000 No. 400 Base, only, 5F42Q35... \$ 63.99

#695-303-343 No. 343 Nylon Jaws, 5F5D53... 6.99

#695-303-353 No. 353 Steel Jaws, 5F15A61... 17.99

NEW!

TIPTON STANDING ULTRA GUN VISE

Floor-Standing Support System Securely Positions the Gun Where You Need It To Work on It



Is it a vise or a very compact workbench? We'll let you debate that point, but what we can say is the Tipton Standing Ultra Gun Vise has sturdy folding steel legs that let you set it on the floor to hold a gun securely, at the right height, while

you work on it AND keep your workbench free for other stuff! It has tons of adjustability, plus convenient features including padded contact surfaces and an AR-15 magwell insert with a cool twist. The collapsible, lightweight design makes it perfect for transporting to and from the field or range. It sits at the right height for most folks to work without straining their backs. It features various Ultra Gun Vise Modules - handy non-marring clamps, ball-and-socket articulating clamp pads and removable trays so you can position gun components exactly where you need them to work on them - and have spare parts and tools conveniently at hand for maximum versatility with a capital "V"!

#100-042-069 Standing Ultra Gun Vise, 7A213B99... \$ 229.95

Orders: 800-741-0015

order on the web
brownells.com

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WOODSTOCK INTERNATIONAL SHOP FOX PARROT VISE

Locks Down Your Projects Tighter 'n a Drum



Can be mounted sideways.

Tho' it was originally developed for woodworkers, we think the Parrot Vise is just the kit for gun work, too. It swivels a full 360 degrees and then locks in place wherever you want it when you tighten the jaw. It can also be mounted sideways for versatility. The Tho' it was originally developed for woodworkers, we think the Parrot Vise is just the kit for gun work, too. It swivels a full 360 degrees and then locks in place wherever you want it when you tighten the jaw. It can also be mounted sideways for versatility. The smooth jaws measure 3 1/2" wide x 2 1/8" high, and they'll open to 4 1/4" capacity. Sturdy cast steel construction, with an attractive industrial blue powder coated finish; moving parts and jaws are left in natural, unfinished steel. Holes in jaws allow mounting of custom vise pads. Integral base clamps directly to your bench to provide rock-solid support for your projects. If you're trying to decide between taking up a new vice or getting this vise... we recommend the Parrot hands down!

#100-025-388 Parrot Gun Vise, 5F59G99..... \$ 69.99

TIPTON BEST GUN VISE

One Vise For Cleaning & Gunsmithing Almost Any Gun



Tipton's vise offers a myriad of adjustments to securely hold almost any firearm exactly where you want it for cleaning, maintenance, or accessorizing. It's made of rigid, solvent-resistant nylon that will stand up to years of hard use, with molded flat and round bottom bins for bottles, small parts and cleaning patches. All contact points have a soft rubber surface and will not scratch your firearm. An aluminum channel lets you slide any of the three supports into the perfect position for a super-secure grip on the gun. Dual width/height adjustable rear clamps give the best hold on any buttstock shape and the cam locks keep your gun firmly in place. Front support is adjustable for different positions and heights, while the center support can be used to hold break-open shotguns and handguns for easy inspection without complete disassembly. Pre-drilled holes allow you to permanently mount vise to a table or bench.

SPECS: Molded nylon, gray. Rubberized contact points. 36" (91.4cm) long x 12" (30.5cm) wide x 8" (20.3cm) high.
#100-012-229 Best Gun Vise, 7A00PLI..... \$ 102.99

BROWNELLS RUBBER-FACED VISE JAWS



Protects Delicate Or Polished Parts From Damage

Will not mark or scratch expensive or delicate firearm parts, but holds them firmly without damage.

Durable, nylon-reinforced rubber is permanently bonded to lightweight aluminum, replaceable jaws. Wide retaining lip with nitrile magnet on the underside keeps jaws in place; drops right onto any 4", 5" or 6" steel bench vise and stays put.

SPECS: Aluminum jaws, rubber face. 4" (10cm) long, 3/8" (9.5mm) thick, 1 1/2" (3.8cm) wide face.
#080-827-000 Rubber-Faced Vise Jaws, 8K22B98.... \$ 28.99

NEW!

REAL AVID AR-15 LUG-LOK UPPER RECEIVER VISE BLOCK



Secure, Safe Way To Lock Down an Upper in a Bench Vise

Real Avid's block attaches to the strongest part of the gun – the barrel locking lug recesses. This transfers all the stress from the receiver to the barrel itself, which eliminates the risk of distorting the receiver. It fits all standard mil-spec AR-15 uppers and mates securely in the lug recess, while allowing you to rotate the upper to be able to work on different sides. Two vise pins allow you to hold the upper at multiple working angles and prevent unwanted rotation during high-torque operations, such as tightening a barrel nut or muzzle device. A lock knob keeps Lug-Lok seated into the barrel lugs. The result is an extremely safe, easy-to-use tool for locking down an AR-15 upper in a bench vise.

#100-036-437 Lug-Lok AR-15 Upper Rec'r Vise Block, 8C00JLJ..... \$ 79.99

TOOL MAKERS PARALLEL CLAMPS

Precision Holding For Unusual Shapes

Universally used by toolmakers and gunsmiths for close, precision holding of unusual shapes for welding, brazing, scribing, drilling. A must for scope, sight or bolt work.

SPECS: #005 - 2" (5.1cm) long jaws, 1.285" (3.3cm) jaw spread. #010 - 3" (7.6cm) long jaws, 2.185" (5.5cm) jaw spread. #015 - 4" (10.2cm) long jaws, 2.95" (7.5cm) jaw spread.

#912-361-005 #005 Toolmakers Clamp, 5F13D26.... \$ 19.99

#912-362-010 #010 Toolmakers Clamp, 5F16H31.... 21.99

#912-363-015 #015 Toolmakers Clamp, 5F22H87.... 30.99



LEATHER VISE JAW PADS

Used To Protect Guns In Vises Since Year One

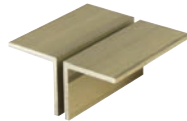


Heavy, top-quality cowhide leather pads, the old standby to use on vise jaws when working with anything you don't want to mar.

SPECS: 4" (10.2cm) x 6 1/2" (16.5cm), 9-10 oz. Sold in pairs.
#413-001-002 Leather Vise Pads, 3Z9P67..... \$ 11.99

BROWNELLS BRONZE VISE JAWS

Where Powerful No-Mar Gripping Is A Must



Tough, extruded, 60/40 architectural bronze angles to make the perfect working jaw faces for your heavy bench vise, drill press vise and/or precision machinist vise. Prevents marring of parts being held.

SPECS: Extruded bronze. 3/16" (4.7mm) thick. 1 1/2" (3.8cm) x 1 1/2" x 3" (7.6cm), 4" (10.2cm), or 12" (30.5cm) long.

#080-019-003 3" Bronze Vise Jaws, pr, 5L15B67..... \$ 21.99

#080-020-004 4" Bronze Vise Jaws, pr, 5L20D56.... 29.99

#080-021-012 12" Bronze Vise Jaws, 1-pc, 5L27P74... 34.99

BROWNELLS ELASTOMER PAD FOR MULTI-VISE™



Notched For A Perfect Fit; Won't Mar Wood, Plastic, Or Metal

The perfect addition to your Brownells Multi-Vise, these pads are made of space-age elastomers that "grip" the work piece securely without any slipping, marring, or staining. Pad material was developed for missile launch tube liners, so it's really tough, does not readily impregnate and will give years of service. Plus, the pads are permanently bonded to an aluminum plate that is pre-cut to fit your Multi-Vise. Red pads are for use on wood, plastic, or other soft materials; Blue pads are for metals and other hard materials. Sold in pairs only.

SPECS; Elastomer pad, aluminum plate. Pad: 2" (5.1cm) high x 4" (10.2cm) wide x 3/16" (9.5mm) thick. Plate: 4 1/2" (12.4cm) high x 4" wide x 1/4" (6.3mm) thick. Sold in pairs only. Minor fitting may be required.

#080-000-364 Multi-Vise Jaw Pads, Red, 2E106D67... \$ 122.99

#080-000-365 Multi-Vise Jaw Pads, Blue, 2E106H67..... 122.99

BROWNELLS LEAD VISE JAW FACES

Soft, Tight Gripping, Easily Fitted To Any Vise Jaws



Thin, easily shaped-to-fit lead sheets for your precision machinist vise or heavy, shop vise jaws. Prevents rough jaws from marring delicate or polished parts while holding them firmly in place. Helps smooth machinist vises to hold parts without slipping at a lower vise jaw pressure.

SPECS: 3/64" (1.2mm) thick. 2" (5.1cm) x 4" (10.2cm) or 3" (7.5cm) x 4" (10.2cm).

#084-010-424 2" x 4" Lead Sheets, 4, 5L13D99..... \$ 16.99

#084-011-434 3" x 4" Lead Sheets, 4, 5L18B49..... 22.99

NEW!

OTIS SOFT VISE JAWS

Protects Finish on Gun Parts While Securely Retaining Them In Bench Vise



For gunsmiths or firearm owners working on firearms, Otis Soft Jaws are essential for protecting the gun while keeping it secure in a vise. Soft Jaws fit onto just about any vise from a light-duty job up to large, heavy-duty bench vises (minimum vise jaw size is 4" long x 1/2" high). Composed of a non-slip, oil- and solvent resistant synthetic rubber material, Soft Jaws have the right balance of hardness to keep even the smallest parts clamped and flexibility to mold to the shape of the part to prevent damage. They will not mar or scratch gun metals. The top lip works in conjunction with embedded magnets to ensure the Soft Jaws stay put in the vise. General Use jaws have flat main surfaces and also .625" and .750" channels for holding barrels and other cylindrical objects. Flat Face jaws have completely flat contact surfaces. AK-47 jaws are contoured to perfectly fit and securely hold rifles of the AKM pattern; they will not fit RPK pattern AK rifles.

#668-000-791 Vise Soft Jaws, General Use, 8F42H00... \$ 45.99

#668-000-790 Vise Soft Jaws, Flat, 8F42D00..... 45.99

#668-000-789 Vise Soft Jaws, AK-47, 8F47E49..... 52.99

#668-000-793 Vise Soft Jaws, Remington 700, 8F47B49... 52.99

#668-000-792 Vise Soft Jaws, Remington 1100, 8F47C49... 52.99

SUPER-HOLD VISE JAW PADS



State-Of-The-Art Space Age Pads Withstand Any Pressure

Made of new, miracle, space-age elastomers that "grip" the work piece, holding it securely without any slipping, marring or staining. Doesn't even require excessive clamping pressure. Pad material was developed for missile launch tube liners, so is really tough, does not readily impregnate and will give years of service. Permanently bonded to an aluminum plate. Custom fit to your vise by notching bottom of plate for adjusting bar on vise. Sold in pairs only.

SPECS: 4" Pad: 2" (5.1cm) high x 4" (10.2cm) wide x 3/16" (9.5mm) thick. Aluminum Plate: 1/4" (6.3mm) thick x 5" (12.7cm) high x 4" (10.2cm) wide.

5" Pad: 2 1/8" high x 5" wide x 5" high. 2-Types: Red for wood, plastic, other soft materials. Blue for metals, other hard materials. Sold in pairs only.

#852-002-100 4" Red Super Hold Pads, 2E79B99.... \$ 104.99

#852-002-200 4" Blue Super Hold Pads, 2E79F99.... 104.99

#852-000-001 5" Red Super Hold Pads, 2E99A99.... 129.99

#852-000-002 5" Blue Super Hold Pads, 2E99G99... 129.99

WAGNER INDUSTRIES MAGNETIC SOFT JAWS

Get A Grip On Your Guns



Soft, yet extremely rigid, polyurethane vise jaws fit comfortably in a 4" or 5" vise and are held in place by embedded magnets. Non-slip surface grips precious firearms firmly without crushing, marring, or scratching. Top "lip" fits the top of your vise jaws adding two inches to allow extra protection and more work area. Surface resists oils and wipes clean. Each set comes with a separate polyurethane cover for vise screws or anvils so you can be absolutely sure that no part of your guns or tools will come in contact with the vise. Channeled soft jaws have all the same features as the Standard version with the addition of machined vertical and horizontal channels with 3/16" radius for an improved grip on contoured parts such as barrels and actions.

SPECS: Molded polyurethane, red. 5" (12.7cm) wide, 2 1/8" (5.5cm) high, 3/16" (1.6cm) thick.

#100-002-397 Standard Soft Jaws, 4A41F04..... \$ 52.99

#100-003-410 Channeled Soft Jaws, 4A60A00..... 64.29

PIN VISE

Hold Pins & Drill Bits For Fine Work



Double-ended vise with two collets and double adjustments. Holds pins for grinding and shaping and works as a hand driver for small drill bits.

SPECS: 3 1/2" (9.4cm) long, 1/2" (12.7mm) diameter. Adjusts from .0" to .125" (3.2mm).

#345-090-000 Pin Vise No. 90, 5D18D12..... \$ 20.99

BROWNELLS HANDI CLAMP

Far Tighter Grip Than Your Fingers For Holding Small Parts



Holds little things for fitting, polishing, grinding or finishing. Better than a third hand when staking Remington 870 shell latches. Soft, rubber pads won't mark finishes. Easy, one-hand operation.

SPECS: Steel, chrome finish. 3 1/4" (8.2cm) O.A.L. 1 1/2" (3.8cm) reach. 3/16" (4.8mm) opening. Rubber pads = 3/16" (14.2mm) dia.
#080-945-016 Handi Clamp, 8K8F07..... \$ 9.99

GUARANTEED. FOREVER.®

SINCE 1939

BROWNELLS

SCREW HEAD POLISHING/PIN VISE

No More Burnt Fingers
Or Lost Screws & Pins



Steel vise securely holds screws and pins in place during polishing to prevent them from flying into the far corners of your shop. Knurled collar tightens evenly, without crushing.

SPECS: Steel vise and collar, plastic handle. 4.75" (12cm) long.

#080-000-316 Screw Head Polishing/Pin Vise, 6A20H78 \$ 22.99

TRACK OF THE WOLF MAINSRING VISE

Compresses "V" Springs Effortlessly



New improved design makes it much easier to compress tough mainsprings with two rotating, adjustable jaws that screw down securely. Adapts to angle of spring, spreads compression evenly over the entire spring area and is perfect for installing "V" springs in shotguns and muzzleloaders. Wide turnkey allows you to use your thumb and index finger to really squeeze tough springs down without the need for makeshift tools.

SPECS: Steel, in-the-white.

#870-000-001 Mainspring Vise, 7H29A13 \$ 34.99

BROWNELLS BENCH/FIELD GUN MAT

Soft Face Prevents Scratches & Dings;
Rolls Up Easily; Absorbs Liquid



Soft, flexible, liquid-absorbing bench mat features a non-slip EVA backing that will not take a set, so it rolls out flat and ready to protect the finish on your favorite firearm. Absorbs ten times its own weight in liquid, shielding the surface of your work bench or vehicle cargo area from spills while it protects your firearm from damage. Completely reusable, wash with warm water and mild detergent. Larger sizes make the perfect, protective cover for tailgates or range benches.

SPECS: Polypropylene fiber, brown, expanded, vinyl acetate backing, .100" (2.5mm) thick. Sizes: #1 - 12" (30cm) x 24" (60cm), #2 - 24" x 36" (90cm).

#084-280-001 #1 Roll-Up Gun Mat, 4H10C08 \$ 14.99

#084-280-002 #2 Roll-Up Gun Mat, 4H23C24 26.99

OTIS GUN CLEANING MAT

Lightweight, Roll Up Mat
Protects Guns From Scratches



Large, waterproof neoprene mat covers the top of your workbench to protect your gun's finish during cleaning, maintenance, or more extensive work. Stays put, so it's great for the reloading bench, the shooting bench, or even on the tailgate of your pickup at the range. Use as a seat in the woods or kneel on it while cleaning game.

SPECS: Neoprene rubber, black. 36 1/4" (92.0cm) long, 17 1/4" (45.0cm) wide, 1/8" (4.8cm) thick.

#668-000-099 Gun Cleaning Mat, 8F13B98 \$ 15.99

BROWNELLS RANGE/BENCH GUN MAT

Compact, Cushioned Mat
Protects Your Guns From
Scratches & Dings



Soft, flexible mat safeguards the finish on your gun during cleaning or repair. Spongy, neoprene core protects the gun from bumps and dings; nylon outer shell keeps bluing pristine and cleaning rods free of tiny particles that can embed and scar your rifling. Just the right size to hold a handgun and a cleaning rod or two, it has plenty of uses on the workbench, at the range, and in the shop. Rolls up for compact storage in your range bag, and won't take a set. Plus, if it gets dirty, just wash with warm water and mild detergent and let dry thoroughly.

SPECS: Neoprene rubber with nylon facing, black. 16 1/2" (41.8cm) long, 8 1/2" (22.2cm) wide, 1/8" (2.7mm) thick.

#084-000-228 Range/Bench Neoprene Gun Mat, 8F8I20 \$ 10.99

BROWNELLS LEATHER GUN MAT

Gives A Tough, Leather Work
Surface Anywhere You Go



Cut from 1/8" thick, genuine cowhide for superior strength and puncture-resistance, yet supple enough to roll up and tie off. Just the right size for cleaning, repairing, and other small projects, like knifemaking, that need a clean, organized, work area. Suede back-side gives a natural, non-slip surface that keeps the mat in position once you've rolled it out: smooth, sealed, top layer provides a clean, padded work surface. Features the Brownells logo branded into the leather.

SPECS: Cowhide, light brown. 15 1/4" (40cm) long x 12" (30.5cm) wide.

#084-000-125 Leather Gun Mat, 2E25E46 \$ 28.49

TEK MAT GUN MATS



Protective Mats Feature Handy Schematics Of Popular Guns

Thick, flexible work mats protect your gun against scratches and pad your workbench or table while serving as a handy reference for disassembly and assembly. Long Gun mats are 36" long and 11 1/4" wide. Handgun mats are 17" long and 11" wide. Choose gun model below. AR-15 mats available in black, OD Green and Gray.

#100-015-986 Ruger 10-22 Gun Mat, 5C16K83 \$ 22.99

#100-015-988 AK-47 Gun Mat, 5C16J83 21.99

#100-015-992 M14/IM1A Gun Mat, 5C17P33 21.99

#100-015-993 M1 Garand Gun Mat, 5C17P33 21.99

#100-015-994 Remington 700 Gun Mat, 5C17M33 21.99

#100-015-995 Remington 870, 5C17A33 21.99

#100-015-989 Black AR-15 Gun Mat, 5C17L33 21.99

#100-015-990 OD Green AR-15 Mat, 5C17M33 21.99

#100-015-991 Gray AR-15 Mat, 5C17L33 21.99

#100-016-002 1911 Mat, 5C9P18 12.60

#100-015-996 Beretta 92 Gun Mat, 5C9C18 12.60

DRYMATE® GUN CLEANING PAD

Protects Guns
From Scratches
During Cleaning
& Repair



Lightweight, flexible pad features a soft, absorbent fabric surface that protects the finish on your guns during cleaning and repair. Zorb-Tech® anti-flow technology allows the top fabric layer to absorb spills while the non-slip PVC backing prevents "soak-through" onto your bench. Easily folds up, so you can keep it in your range bag and have a padded surface available at the shooting bench. Cleans with warm water and mild detergent. Small pad is just the right size for a handgun, large pad works great for rifles, shotguns, and muzzleloaders.

SPECS: Polyester fabric, green w/PVC backing. Small - 20" (50.8cm) long x 16" (40.6cm) wide. Large - 54" (137cm) long x 16" wide.

#100-004-360 Small Gun Cleaning Pad, 6C5E52 \$ 6.39

#100-004-359 Large Gun Cleaning Pad, 6C9F50 12.19

PROFESSIONAL ASSEMBLY/DISASSEMBLY MAT



Don't Scratch Up Those Parts
While Working On Guns

Heavy, neoprene, rubber mat provides a large, padded surface for all kinds of gun servicing. Slightly "grained", hard enough to keep dirt from embedding; cleans up easily with soap and water. Resists most solvents and oils. Rolls up easily so you can add it to your range kit and have a "no-scratch" surface available for those emergency repairs.

SPECS: Small Mat: 17 1/2" (44.4cm) long, 12" (30.5cm) wide, 3/8" (4.7mm) thick. Large Mat: 36" (91.4cm) long, 24" (60.9cm) wide, 1/2" (3.1mm) thick. Weighs 1 1/2 lbs. (680 g).

#358-128-316 Assy/Disassy Mat, 8E21L51 \$ 28.99

#358-128-416 Large Mat, 8E52M73 58.99

RANSOM MASTER MAT

Flexible, Non-Skid Bench
Mat Lays Flat, Keeps Parts
Together



Such a high coefficient of friction that it actually feels sticky! Parts and pieces can't roll and the molded-in trays and raised rims keep things separated. Roll it up, the flexible ribbed plastic won't take a set. Resists most solvents. We tried everything from TCE to Shooter's Choice to Hoppes - none fazed it. Cleans up easily. Light gray color makes parts stand out. 19 1/4" (48.8cm) x 11 1/4" (29.8cm).

#164-800-000 Master Mat, 4F33177 \$ 43.99

#100-015-997 Glock Gun Mat, 5C9E18 12.60

#100-015-999 Sig Sauer 229 Gun Mat, 5C9I18 12.60

#100-016-000 S&W M&P Gun Mat, 5C9P18 12.60

#100-016-001 Springfield XD Gun Mat, 5C9Q18 12.60

NEW! TEK MAT GUN CLEANING/BENCH MATS



A Cleaning Mat With Your Gun's Schematic & Disassembly
Instructions Printed Right On It!

TekMat cleaning mats are more than just protective work surfaces: they include diagrams and schematics of specific popular firearms, so you have instructions for disassembling and reassembling your gun right in front of you as you clean it. The Ultra Cleaning Mats are manufactured using a clear dye-sublimation printing technique that makes the mat waterproof, scratchproof, oil- and chemical-resistant, and washable, too. A direct-vulcanization process adheres the mat's surface to its rubber backing, so that durable, informative top surface won't separate from the padding below. Ultra Cleaning Mats includes a parts list that matches the manufacturer's list of parts, so there's no chance of confusion, and you'll always know what part goes where and which parts you might need to order to repair or complete your firearm. Ultra 20 pistol mats measure 20" x 14.75". Ultra 44 rifle mats measure 44" x 14.75".

#100-038-734 Ultra 20 1911 Cleaning Mat, 5C9N89 .. \$ 15.19

#100-038-735 Ultra 20 Beretta 92 Cleaning Mat, 5C9J89 15.19

#100-038-736 Ultra 20 Glock G4 Cleaning Mat, 5C9D89 15.19

#100-038-737 Ultra 20 SIG Sauer P238 Cleaning Mat, 5C9H89 15.19

#100-038-738 Ultra 20 SIG Sauer P320 Cleaning Mat, 5C9G89 15.19

#100-038-739 Ultra 20 Springfield XD Cleaning Mat, 5C9G89 15.19

#100-038-741 Ultra 44 AK-47 Cleaning Mat, 5C15H49 .. 23.99

#100-038-742 Ultra 44 AR-15 Cleaning Mat, 5C15G49 .. 23.99

#100-038-743 Ultra 44 AR-15 Cut Away Cleaning Mat, 5C15A49 23.99

#100-038-744 Ultra 44 Remington 870 Cleaning Mat, 5C15L49 23.99

#100-038-740 Ultra 44 Ruger 10/22 Cleaning Mat, 5C15Q49 23.99

BROWNELLS EXTRA-LARGE BENCH BLOCKS

Large, 4" Diameter, Useable Surface
Will Not Embed Or Mar



Rifle



Pistol

Extra size and weight helps keep these blocks where you put them and the big face eliminates much of the "balancing act" when you're driving pins. Cannot mar even the most highly polished surface. Two different models. Green - For rifles and shotguns; drilled with four through holes for easy pin removal and disassembly. Convenient, center "V" holds cylindrically shaped parts steady so they won't roll. Blue - For revolvers and pistols. Larger through holes and partial "V" holds pistol barrels for easy link pin installation and removal. Can be drilled or modified with hand tools; will not melt when machined.

SPECS: Polyethylene, green or blue, 4" (10cm) diameter, 1 1/8" (2.8cm) high.

#080-000-492 Rifle Bench Block, Green, 8D18M99 \$ 19.99

#080-000-493 Pistol Bench Block, Blue, 8D18C99 19.99

Orders: 800-741-0015

order on the web
brownells.com

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BROWNELLS

GUNSMITH'S BENCH BLOCK



Made To Our Own Specs To Fill Every Bench Need

STEEL - Precision-Machined & Surface-Ground

Heavy duty, precision-machined steel Bench Block for driving out pins, etc., in round or flat work. Surface-ground top and bottom for complete accuracy. Thirteen holes vary in size from 5/32" to 5/8" with four holes for removing barrel pins. Hole layout fits left- and right-hand users. "V" in center for holding round or odd-shaped stock. **US** **SPECS:** 1045 steel, blue finish. 2 1/4" (6.7cm) diameter. 1 1/2" (3.8cm) high. 1 1/2 lb. (503 g).

#080-632-000 Steel Bench Block, 8K37M05... \$ 41.99

NYLON - Totally Non-Marring

For those times when any blemish on the gun would spell disaster, this non-marring, solid cast, nylon bench block is a real life saver. Similar in design to the steel precision machinist's block, but non-marring nylon. Has "V" in center for round or flat pieces. Light weight makes ideal for your range kit, too.



SPECS: 2 1/2" (6.3cm) diameter. 1 1/2" (3.8cm) high. 4 1/2" oz. (128g). 5 holes range from .122" (3.1mm) to .375" (9.5mm). "V" groove. #928-100-000 Nylon Bench Block, 8K14I33... \$ 18.99

BROWNELLS

PREMIUM ROLL PIN PUNCHES



Easily Remove & Install Roll Pins Without Damage

These punches feature the correct balled tip for locating the punch on the roll pin and protecting the pin against damage during removal or installation.

Handle has hexagonal cross section for precise control. Three grooves give positive grip, and each punch has the size engraved on it for instant identification. Sold individually or as a kit that includes all 7 sizes. **US**

SPECS: Carbon steel, heat hardened. Available sizes: 1/16", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8", and 1/2" diameter.

- #080-001-083 Premium Roll Pin Punch Kit, 8K28C33... \$ 34.99
- #080-001-068 1/16" Premium Roll Pin Punch, 8K6G02... 6.99
- #080-001-069 3/32" Premium Roll Pin Punch, 8K5H05... 6.99
- #080-001-070 1/8" Premium Roll Pin Punch, 8K5F05... 6.99
- #080-001-071 5/32" Premium Roll Pin Punch, 8K6P37... 6.99
- #080-001-072 3/16" Premium Roll Pin Punch, 8K4K73... 6.99
- #080-001-073 1/4" Premium Roll Pin Punch, 8K4H73... 6.99
- #080-001-074 5/16" Premium Roll Pin Punch, 8K5N05... 6.99

BROWNELLS PREMIUM ROLL PIN STARTER PUNCHES



Easily Remove Roll Pins From Most Firearms

We've taken the most commonly used gunsmith punches and combined them into one handy kit. The ball tips on these hardened steel punches ensure the punch stays centered and will not damage the pin during installation or removal. Reverse taper helps prevent punches from sticking. Punches are available as a set of seven or they can be purchased individually. **US**

SPECS: Carbon steel, heat hardened. Set contains 1 each of 1/16", 3/32", 1/8", 5/32", 3/16", 1/4", and 5/16" diameter punches.

- #080-001-082 Premium Roll Pin Starter Punch Set, 8K23B96... \$ 31.99
- #080-001-075 1/16" Roll Pin Punch, 8K4G58... 5.99
- #080-001-076 3/32" Roll Pin Punch, 8K4A58... 6.99
- #080-001-077 1/8" Roll Pin Punch, 8K4N58... 6.99
- #080-001-078 5/32" Roll Pin Punch, 8K4D58... 6.99
- #080-001-079 3/16" Roll Pin Punch, 8K6M00... 6.99
- #080-001-080 1/4" Roll Pin Punch, 8K3A95... 5.99
- #080-001-081 5/16" Roll Pin Punch, 8K4A58... 6.99

BROWNELLS

DELUXE PUNCH BENCH SET



Remove & Install Pins, Align Holes, Stake Sights; Twenty Punches In All

This deluxe punch set gives you a versatile selection of 20 punches to easily start, remove and install pins, align holes, plus drift and stake sights without marring the part or firearm finish.

We combined alignment punches, flat tip mini punches, starter punches, a nylon drift punch, and a center and prick punch with our most popular pin punches, then added a machined Delrin® bench block to hold and organize them all for easy access. Punches are constructed of hardened steel with parallel-ground shanks and either knurled or hexagonal handles. The nylon drift punch is solid nylon and can be shaped for your specific application. Alignment punches feature a tapered pin with a working length almost 3" long to help ensure a tight fit with any size diameter hole size between the minimum and maximum outside diameter of the punch. Each punch minimum diameter overlaps slightly with the next larger punch to prevent any possible gaps in hole coverage. Mini punches are small diameter punches with a flat tip that provide excellent control because of their short length. Ideal for precision work and tight spots where a full-length punch just won't fit. Use the starter punches to start the removal of roll or spring pins without causing damage to the pins or the punch. Short shafts give more control by putting your hand closer to the pin and prevents bending the longer, standard roll pin punches. Prick punch has a fine, sharp point for marking spots before center punching and staking sights. Gives better visibility and more precision to your marking. Use the center punch after the prick punch to deepen the mark for precision drilling. The pin punches are used after the starter punch to finish drive the roll pin or spring pin. Bench block is also available separately. **US**

SPECS: Steel, knurled or hexagonal handle, except nylon drift punch is solid nylon. **Nylon Punch** - Contains (1), 4" (10cm) long x 3/16" (7.9mm) diameter. **Alignment Punches** - Contains (1) of each diameter: .070" (1.8mm) to .156" (4.0mm); .110" (2.8mm) to .187" (4.7mm); .150" (3.8mm) to .219" (5.6mm). **Taper length:** 2 1/2" (6.3cm) to 3" (7.6cm). **Mini Punches** - Contains (1) of each diameter: 1/16" (1.6mm), 3/32" (2mm), 1/8" (2.4mm), 5/32" (3.2mm), 3/16" (4.8mm) x 5" (12.7cm) long. **Bench Block - Delrin, tan, 8" (20cm) long, 3" wide, 3/4" (1.9cm) high. Holds all 20 punches.**

- #080-000-653 Pin Punch Set, 8K97Q93... \$ 105.99
- #080-000-652 Bench Block, only, 8K9K40... 9.99

BROWNELLS GUNSMITH PROFESSIONAL PUNCH SET



Best Material - Quality Machined & Priced For You

Excellent All-Around Selection Chosen Specifically For Gun Work



For bench use or service kit. Contains 10 punches, one each of the four super quality starter and pin punches shown above, plus center punch and a special prick punch for staking sights, pins and the like. Attractively packaged in durable, pocketed, roll kit for positive, no-loss storage within the shop and easy carrying when on the go. **US**

- #080-553-000 Pro Punch Set, 8K46A21... \$ 49.99

BROWNELLS BRASS PUNCH SET



For Driving Roll Pins, Sights & Solid Pins

Precision machined, non-marring brass punches drift sights and drive pins without risk of damage to the sight, pin, or firearm. We combined 20 of our most popular non-marring brass punches, added

a compact bench block and came up with a great addition for the work bench. Features (4) starter punches, (8) roll pin punches, and (8) standard punches for a variety of different jobs. Delrin® bench block holds and organizes all 20 punches for easy access, plus is resistant to most solvents. Starter punches are used to start the removal of steel or aluminum pins. Short, tapered shaft is extra stiff

to prevent bending and twisting. Roll Pin punches feature a special tip that centers inside the hollow pin to help prevent slippage when driving roll pins and spring pins. Standard punches are non-tapered with a flathead tip surface that works great for drifting front and rear dovetail sights. Complete set includes bench block, also available separately. **US**

SPECS: Brass. **Starter Punches** - Contains (1) of each diameter: 1/16" (1.6mm), 3/32" (2.4mm), 1/8" (3.2mm), 5/32" (4mm). **Roll Pin Punches** - Contains (1) of each diameter: 1/16", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", and 1" diameter. **Standard Punches** - Contains (1) of each diameter: 1/16", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", and 1" diameter. Working length: 1/16" (7.9mm) - 1/8" (2.8cm) long. **Bench Block - Delrin, tan, 8" (20cm) long, 3" (7.6cm) wide, 3/4" (1.9cm) high. Holds 20 punches. Bench block included in set, also available separately.**

- #080-000-649 Brass Punch Set, 8K89C55... \$ 119.99
- #080-000-648 Bench Block, only, 8K8M97... 9.99

Prevents Flattening Roll Pin Tip



Five piece set contains the most commonly used holders to accurately align roll pins during removal or installation. Set contains 1/16", 3/32", 1/8", 5/32", 3/16", and 3.5mm roll pin holders. The 1/16" holder is notched to clear AR-15/M16 rear sights. The 3.5mm is ideal for holding the breech block retaining pin on Sig handguns. Each holder is made from 5160 heat treated bairite steel for strength. Holders are available as a set or individually. **US**

- #080-001-132 Premium Roll Pin Holder Set, 8K29B41... \$ 31.99
- #080-001-133 1/16" Diameter Roll Pin Holder, 8K6P99... 7.99
- #080-001-134 3/32" Diameter Roll Pin Holder, 8K5A98... 7.99
- #080-001-135 1/8" Diameter Roll Pin Holder, 8K6G99... 7.99
- #080-001-136 5/32" Diameter Roll Pin Holder, 8K5G98... 7.99
- #080-001-137 3.5mm Diameter Roll Pin Holder, 8K5A98... 7.99

GRACE

21 PIECE STEEL PUNCH SET

Versatile Set To Handle A Variety Of Common Gunsmithing Tasks



Ideal for the busy professional gunsmith, serious hobbyist, or armorer, this set contains 21 punches most commonly used in gun work. You get 7 standard punches, 7 roll pin punches and 7 matching roll pin starter punches, each in 1/16", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", and 1" sizes. Manufactured from high carbon, molybdenum tool steel, these punches are full-length hardened, with a tempered striking end. They are centerless ground for excellent accuracy, and have a reverse taper from the tip to help prevent punch from sticking in the work piece. Neoprene bench block to organize your punches for easy access. Bench block is also available separately. **US**

- #354-000-040 21 Piece Steel Punch Set w/Bench Block, 4E104C92... \$ 119.99
- #354-000-041 Bench Block Only, 4E19L68... 24.99

GUARANTEED. FOREVER.®

SINCE 1939

BROWNELLS
GUNSMITH MASTER PUNCH SET



High Quality Tools For Professional Results

The punches in this master set were specifically chosen for the professional gunsmith. We handpicked high quality punches and added anylon bench block, nylon/brass hammer, and neoprene gun mat, then packed them in a durable polyethylene case for easy access and storage in the shop. Features (4) premium quality starter punches to break loose stuck or tight pins, (4) pin punches with hardened points that won't bend, (1) prick punch for marking spots before center punching, and (1) center punch for starting holes before drilling. Also includes (4) premium brass punches for drifting sights, driving pins or fitting parts when marking or scratching the surface can mean the difference between a job well done and disaster, plus (3) nylon front-sight drift punches for driving the front sight in or out without marring. Steel and brass punches are individually marked for size. Solid nylon, bench block with "V" center holds round or flat pieces tight. Nylon/ Brass hammer with nylon head won't mar metal, and solid brass head is perfect for driving punches. Neoprene gun mat is soft and flexible to safeguard the finish on guns during cleaning or repair. Just the right size to hold a handgun and small parts; easily cleans with mild detergent and warm water. **SPECS:** Polyethylene Case - 14" (35.6cm) long, 9" (23.2cm) wide, 1 1/2" (4.7cm) high. Pin/Starter Punches - Tool steel, knurled body. 4" (10.2cm) long x 1/16" (1.6mm), 1/32" (2.4mm), 1/8" (3.2mm), 1/32" (4mm) dia. Center Punch - Tool steel, knurled body. 3 1/2" (9.0cm) long x 1/16" (7.9mm) dia. Prick Punch - Tool steel, knurled body. 4" (10.2cm) long x 1/16" dia. Brass Punches - 3 1/2" long, 1/16" (7.9mm) hex stock, 1/32", 1/16", 1/8" (5.6mm), 1/16" dia. Nylon Front-Sight Punches - 4" long x 3/16" dia. Bench Block - Nylon, 2 1/2" (6.3cm) dia., 1 1/2" (3.8cm) high. 5 holes range from .122" (3.1mm) to .375" (9.5mm). Nylon/Brass Hammer - 1" (2.5cm) dia. faces. 11 1/2" (29.2cm) hickory handle. 6 oz. (170.1g) weight. Gun Mat - Neoprene rubber with nylon facing, black. 16 1/2" (41.8cm) long, 8 1/4" (22.2cm) wide, 1/64" (2.7mm) thick. **#080-000-569** Master Punch Set, 8K104J99..... \$ 110.99



OBSIDIAN ARMS
BASIC 8-PUNCH SET



Handy, Portable Set of Punches Sized for the Most Commonly Encountered Firearm Roll Pins

Obsidian's handy punch set comes in a convenient, durable, roll-up canvas pouch, so you can take it pretty much anywhere. Sizes contained in this kit are 1/16", 1/32", 1/8", 3/16", 1/4", and 3/8" standard pin punches. Each punch is made from heat-treat hardened 4140 carbon steel with a tough QPQ finish that protects them from surface wear and corrosion. A must-have in any well-stocked range bag. Why have a day at the range cut short because you couldn't remove a pin or two to repair a gun and get back to the line? **#100-039-525** Standard Pin 8-Punch Set, 9G00FVL... \$ 42.75

GRACE BRASS PUNCH SET



Non-Marring, Precision-Machined To Fit Common Pin Sizes
For drifting sights, driving pins or fitting parts when marking or scratching the surface can mean the difference between a job well done and disaster. Machined from premium, brass hex. **Punch Set** includes 8 flathead, long shaft punches for driving pins completely out. **Roll Pin Punch Set** includes 8 roll pin punches with cupped ends that fit around roll pins without drifting off. **Starter Punch Set** includes 4 flathead, tapered punches for drifting sights and driving pins flush. Includes plastic storage pouch for easy access. Punches also available separately. **SPECS:** Brass, 3/16" (7.9mm) hex stock. Punch Set/Roll Pin Punch Set - 8 punches: 1/16", 1/32", 1/8", 3/16", 1/4", 3/8", 1/2", 5/8" dia. Starter Punch Set - 4 punches: 1/16", 1/32", 1/8", 3/16" dia.

LONG SHAFT PUNCHES

STOCK #	SIZE	STOCK #	SIZE
#354-100-062	1/16" (1.6mm)	#354-100-187	3/16" (4.8mm)
#354-100-093	1/32" (2.4mm)	#354-100-218	1/8" (5.3mm)
#354-100-125	1/8" (3.2mm)	#354-100-250	1/4" (6.4mm)
#354-100-156	3/16" (4mm)	#354-100-312	3/8" (7.9mm)

— Advise # — Long Shaft Punch, each, 4E5B49..... \$ 7.99

STARTER PUNCHES

STOCK #	SIZE	STOCK #	SIZE
#354-000-007	1/16" (1.6mm)	#354-000-009	1/8" (3.2mm)
#354-000-008	1/32" (2.4mm)	#354-000-010	3/32" (4mm)

— Advise # — Starter Punch, each, 4E6E53..... \$ 9.29

- #354-100-000 Punch Set, 8 pc, 4E29E14..... \$ 31.99
- #354-000-006 Starter Punch Set, 4 pc, 4E17A23..... 25.99
- #354-000-011 Roll Pin Punch Set, 8 pc, 4E29K14..... 33.99

GRACE
PIN PUNCH SET



7 Handy Punches

This set will cover 90% of your shop needs and gun pin needs. **SPECS:** 1 starter punch, 1 center punch, 5 drift punches (1/16", 1/8", 1/4", 3/8", 1/2" & 3/32" diameters). **#354-007-000** Punch Kit, 4E33C98..... \$ 40.99

BROWNELLS HOLE CENTER PUNCHES

Use Sights, Ribs Or Bases As Their Own Drill Guide



3 special Center Punches with outside diameters (O.D.) that match the clearance drill size of the most popular sight, rib and scope base mounting screws. Ground, parallel sided punches reach through even the thickest handgun rib. Ends guesswork and center-to-center spacing problems. To Use: Level gun in vise or scope mounting jig, position and level sight, rib or base, and clamp in place. Place correct size punch in hole and lightly tap with a 4-oz. hammer. Remove base; drill and tap first hole; re-install base and check positioning. If everything is "square", re-clamp and finish other holes. **SPECS:** 2 1/4" (7cm) long, 1/4" (6.3cm) diameter knurled handle. Hardened, tool steel. **#080-732-006** #6 Hole Center Punch, 8K7L72..... \$ 8.99 **#080-732-008** #8 Hole Center Punch, 8K7J70..... 8.99 **#080-732-010** #10 Hole Center Punch, 8K7C68..... 8.99 **#080-732-000** Hole Center Punch Set, 8K15F70..... 21.99

LYMAN
DELUXE PUNCH SETS

Convenient, Easy-To-Use Sets Ensure You Have The Right Punch For The Job



Compact set of punches, with hammer, stores in its own bench block for quick access. Combination brass/nylon hammer has machine knurled handle for positive grip. **SPECS:** 4130 steel punches. Set includes 1/16" (1.5mm), 1/32" (2.3mm), 1/8" (3.1mm), 1/32" (3.9mm), 1/16" (4.7mm) diameter pin punches, 1/8" center punch, 1/16" diameter brass drift. Brass/nylon face hammer, 8" (20cm) overall length, hardwood storage block. **#539-703-129** Deluxe Hmr/Punch Set, 5K47M99... \$ 53.99

ROLL PIN PUNCH SET - Remove and replace hollow split roll pins easily and safely using these special-built round-nose punches. The round tip locks into the pin to keep the punch from slipping and damaging receivers, trigger assemblies, and other fragile mechanisms. Machined knurling also helps you maintain a secure grip and retain control of the punch. Made of through-hardened 4140 steel for maximum strength and years of dependable service. **SPECS:** 4140 chrome-moly steel. Set of 4 punches, approximately 4" (10.2cm) long, in 1/16" (1.6mm), 1/32" (2.4mm), 1/8" (3.2mm), and 1/32" (4mm) diameters. **#539-000-018** Roll Pin Punch Set, 5K17A99..... \$ 19.99

PUNCH SET - Five, precision-machined gunsmith punches equip you to handle a wide variety of disassembly and reassembly jobs. Non-tapered, with a flat tip for removing solid pins—excellent for drifting sight pins in and out. Kit includes four, steel punches through-hardened for excellent strength and a non-marring brass drift punch for jobs where the gun's finish must be protected. Knurled handles ensure a firm grip to prevent slippage that can lead to accidental marring of the gun's finish. **SPECS:** Pin punches - 4140 chrome-moly steel. 1/16", 1/32", 1/8", 3/16" diameters. 3 1/2" to 4 1/2" OAL. Drift punch - Brass. 3/16" (4.8cm) diameter. 3 1/2" (8.3cm) OAL. **#539-000-019** Pistol Punch Set, 5K16L99..... \$ 18.99



REAL AVID
GUNSMITHING ROLL PIN PUNCH SETS



Accu-Punch Hammer & Pin Punch Set

A Conveniently Configured Kit To Suit a Wide Variety of Gun Work Applications

Stubborn pins? No problem. Real Avid has a hammer-and-punch set to help any gun owner, serious hobbyist, or pro gunsmith can safely remove and install just about any firearm roll pins. The **Accu-Punch Hammer and Roll Pin Punch Set** has a balanced, ergonomic hammer that partners with easy grip hex-handle punches for precise control. Hammer comes with interchangeable heads in rubber, brass, steel, and nylon. Punch sizes include 1/16", 1/8", 1/4", 3/16", 1/2", and 3/4". The proprietary pin alignment tool makes starting tiny pins easy, greatly reducing risk of that pin zipping across the workshop and getting lost. The **Deluxe Gunsmithing Set** containing the Accu-Punch Hammer and interchangeable head, plus a set of premium brass and steel pin punches. Includes steel 1/16", 5/64", and 3/32" steel punches; 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", and 9/32" brass punches; a non-marring finishing punch, and the pin alignment tool. All of this comes in a virtually indestructible stand-up case that opens up to stand upright, like kickstand, to displays every component in the kit and provide easy access. The **Accu-Punch Pack** contains the 4-interchangeable head hammer, plus steel punches in 1/16", 3/64", and 1/32" sizes, brass punches in 1/8", 9/64", 5/32", 3/16", 1/4", 3/32", and 3/16"; the starter pin holder; AND the non-slip, magnetic, universal Smart Bench Block with a rubberized outer surface. Kickstand case included.

- #100-034-149 Accu-Punch Hammer & Roll Pin Punch Set, 8C00CFG..... \$ 39.99
- #100-040-803 Accu-Punch Hammer & Brass/Steel Pin Punch Set, 8C00EBA..... 49.99
- #100-036-433 Accu-Punch Pack, 8C34I62..... 39.99

BROWNELLS
ALIGNMENT & PUSH PUNCHES



Use to Align Parts, Start Pins, Assembly/Disassembly

For the professional and home gunsmith alike these punches take much of the frustration out of aligning parts and assemblies. And they provide faster and easier disassembly, too. Furnished with a large, easy-to-grasp, handle that gives excellent control for aligning holes and starting pins. Slightly undersized shank provides a close fit that won't bind in the hole. A slight taper, 3/4" from the end is especially useful when fitting parts that require repeated assembly and disassembly. Four sizes fit the majority of pins found on the AR-15, 1911 Auto, Remington 870 and Ruger Revolvers. Won't roll off bench. **Alignment/ Push Punch Set** includes one each of the punches listed below, plus a Delrin bench block to store and organize all eight punches, so you always have them at your fingertips. Bench block also avail-

able separately. **SPECS:** Handle - Plastic. Shank - Unhardened steel drill rod, or 360 alloy brass. 3 1/4" (8.2cm) long. OAL - 4 1/4" (12.1cm) long. **Alignment/ Push Punch Set** - Contains (4) brass and (4) steel punches, (1) brass and (1) steel of each diameter: .092" (2.3mm), .120" (3mm), .151" (3.8mm), and .246" (6.2mm). **Bench Block** - Delrin, tan. 6 1/8" (16cm) long, 3" (7.6cm) wide, 1/4" (1.9cm) high. Holds 8 punches.

STK# STEEL	STK# BRASS	DIAMETER	PRICE
#080-000-029	#080-000-024	.092"	\$ 8.99
#080-000-030	#080-000-025	.120"	\$ 8.99
#080-000-031	#080-000-026	.151"	\$ 8.99
#080-000-032	#080-000-027	.246"	\$ 8.99

- #080-000-034 Set Of Four Steel Punches, 8K31G10.. 35.99
- #080-000-028 Set Of Four Brass Punches, 8K31J10.. 35.99
- #080-000-647 Alignment/ Push Punch Set, 8K54F51.. 60.95
- #080-000-646 Bench Block, only, 8K8D00..... 8.99



BROWNELLS NYLON/BRASS DRIFT PUNCH



6 Indispensable Mar-Proof Punches

Great combination punch for gunsmith, machinist and tool-maker. Hi-impact steel handle with knurled grip for easy holding and accurate control. Built to withstand maximum impact with a minimum of distortion. Interchangeable and replaceable tips are available in: Nylon with steel reinforcing pin to prevent bending or breakage while giving completely mar-free punching action; Brass for a harder-than-nylon but softer-than-steel impact where slight discoloration is acceptable. Remington Shotgun Punch Tip for removing trigger plate pins from 870, 1100 and 1187. Supplied as: Basic Set with two 3/16" diameter tips (one Nylon, one Brass) and one Handle. 4-Way Set includes four Handles, one 3/16" Nylon Tip; plus one each, 3/16", 1/4" and 5/16" diameter Brass Tips. 6-Way Set adds 1/4" and 5/16" diameter, Aluminum Tips and 2 more handles to the 4-Way Set.

- #080-475-001 165" Nylon Punch Tip, 8K4D28 \$ 4.99
#080-001-223 165" Nylon Punch, Handle+Tip, 8K4N67 6.99
#080-475-002 3/16" Brass Punch Tip, 8K3N21 3.99
#080-475-003 1/4" Brass Punch Tip, 8K4D74 5.99
#080-475-004 3/16" Brass Punch Tip, 8K3Q32 3.99
#080-475-005 1/4" Alum Punch Tip, 8K3D96 4.99
#080-475-006 3/16" Alum Punch Tip, 8K3P80 4.99
#080-001-224 Rem. Shotgun Punch, Handle+Tip, 8K5B20 7.99
#080-000-209 Rem. Shotgun Punch Tip, 8K5E13 5.99
#080-475-000 Basic N/B Punch Set, 8K6H00 7.99
#080-475-100 4-Way N/B Punch Set, 8K13E66 18.99
#080-475-106 6-Way Punch Set, 8K20Q46 22.99

BROWNELLS

NYLON FRONT-SIGHT DRIFT PUNCH

Non-Marking Drift For Sight's & Pins



This handy little punch is made for just one purpose... to drive the front sight in or out without marring it or the barrel. We first tried Brass, but as you know, it leaves a "Brass tracking" wherever it rubs. We then tried fiber, but after a few hard blows it shatters. NYLON doesn't mark the barrel or sight, nor does it shatter or lose its shape after hard and prolonged use.

- #080-478-000 Set of 3 Nylon Front Sight Punches, 8K4E74 \$ 5.99

BROWNELLS

DOVETAIL SIGHT PUNCHES



Non-Marring Brass Punches Purpose-Designed For Sight Work

These punches are specifically designed for the installation, removal, and adjustment of front and rear handgun sights. Made of brass so they will not mar the sight or the gun if you slip. Unique triangular punch faces and heavy-duty bodies make them indispensable working tools for the gunsmith. Can be re-ground to square up the flat after multiple uses. Front Sight Punch has a base width of approximately .280"; Rear Sight Punch has a base width of approximately 0.480". They are sold separately or can be purchased together in a handy Kit. The Small Dovetail Sight Punch (sold separately) has a .230" base width, making it ideal for front and rear sights on compact handguns.

BROWNELLS GUNSMITH'S ALIGNMENT PINS



The CURE For Some Tough Assembly Jobs

Made for us exclusively, to our professional specifications, and are forged, taper-ground and polished. Dimensions set to give you size overlap from pin to pin to cover every conceivable situation. Tapers are 2 1/2" long on the 4" long pins.

- #080-645-000 Alignment Pin Set, 7D16F36 \$ 18.99
#080-645-007 Small Alignment Pin, 8K8G28 9.99
#080-645-011 Medium Alignment Pin, 8K8L42 9.99

BROWNELLS CUP TIP PUNCHES



Prevent Those Beautiful Round-Headed Pins From Flat-Topping

Eight concave "cupped" tip punches to precisely fit the round head pins found on Smith & Wesson handguns. Won't flatten the pin top and ruin the gun's looks. Made to the same specs as those used by the factory. Use 3mm punch on SIG handguns. Complete set (Set D listed below) includes a Delrin® bench block that holds and organizes all eight punches. Bench block also available separately.

Set A contains (1) of each punch #1, #2 and #3. Set B contains (1) of each of punch #4, #5 and #6. Set C contains (1) of each punch #1 thru #6. Set D contains (1) of each of punch #1 thru #8 and bench block.

Table with 4 columns: STOCK #, MODEL, DIAMETER, LENGTH. Rows include #080-620-001 to #080-620-301.

- #080-620-103 Cup Tip Punch Set A, 8K40H21 \$ 46.69
#080-620-203 Cup Tip Punch Set B, 8K35B96 47.99
#080-620-306 Cup Tip Punch Set C, 8K75N85 89.99
#080-000-645 Cup Tip Punch Set D, 8K109F41 128.34
#080-620-300 Long 3mm Cup Tip Punch, 8K12C14 12.99
#080-620-301 Shrt 3mm Cup Tip Punch, 8K11I86 12.99
#080-000-644 Bench Block, only, 8K8H00 8.99

GUARANTEED. FOREVER. SINCE 1939

BROWNELLS STARTER PUNCH SET



Keeps Those Longer Pin/Drift Punches From Self-Destructing

We are constantly encouraging you to always use starting punches to break tight pins loose - then use a "drift" or pin-punch to drive the pin the rest of the way out. This saves bending pin punches, but much more importantly, it prevents fine guns from getting pin punch mars should the pin punch bend and slip - or - break, and scratch. We have had special, Short Replaceable Pins made up to fit our famous Gunsmith's Replaceable Punch Set Handles. Using these will definitely improve your production and professionalism!

Set includes 3 punches and three pins.

COMPLETE SINGLE PIN PUNCHES

Table with 4 columns: STOCK #, PIN DIA., STOCK #, PIN DIA. Rows include #080-513-039 and #080-513-060.

- #080-513-000 Replaceable Starter Punch Set, 8K18H75 \$ 22.99

REPLACEMENT PINS

- #080-513-639 1" x .039" Replacement Pins, 8K7K59 \$ 9.99
#080-513-660 1" x .060" Replacement Pins, 8K7Q19 9.99
#080-513-691 1" x .091" Replacement Pins, 8K7E22 10.99

BROWNELLS ROLL PIN PUNCH SET

Remove & Install Roll Pins The Professional Way



We combined 19 of our most popular roll pin punches and added a handy bench block to come up with the perfect punch set for the busy shop or department armor. Easily start, remove, and install spring pins and roll pins in firearms without damage to the pin or firearm. Features (5) holder punches, (7) starter punches, and (7) standard punches that can easily handle any job out there. Made from solid steel, with parallel-ground shanks and knurled handles. Also includes a non-marring, nylon drift punch that won't damage or scrape delicate surface finishes. Machined, Delrin® bench block holds and organizes all the punches for easy access. Holder punches cup and hold roll pins, keeping them aligned for easy starting without pinching or binding. Especially good on the tiny, hard-to-grab ones, or those in tight places. Features a 1/16" diameter punch that is notched to clear the M16/AR-15 rear sight, plus a 3.5mm diameter punch for holding the pin that retains the breech block on Sig handguns. Finish driving with a standard roll pin punch. Starter punches are used to start the removal of roll or spring pins without causing damage to the pins or the punch. Short shaft gives more control by putting your hand closer to the pin and prevents bending the longer, standard roll pin punches. Standard punches are used to finish drive the roll pin or spring pin after it's started. Starter and standard roll pin punches feature a special tip that centers inside the hollow pin to help prevent slippage. Complete set includes bench block, also available separately.

MAYHEW MINI PUNCHES



The Only Way To Remove Wee Sight Pins

These three small diameter punches give excellent control because of their short length. Ideal when doing small, precision work or in tight spots where a full length punch just won't fit. Forged, one-piece construction with knurled handle.

- #587-474-062 3/16" Mini Punch, 7H6D50 \$ 7.99
#587-474-093 3/32" Mini Punch, 7H3N77 5.99
#587-474-078 5/64" Mini Punch, 7H3M77 5.99
#587-474-000 Mini Punches, set of 3, 7H9J36 9.99

BROWNELLS ROLL PIN STARTER PUNCHES

Start Roll Pins Without Damage



Start the removal of roll or spring pins without causing damage to the pins or the punch. Short shaft starter punch gives you more control by putting your hand closer to the pin and keeps you from bending longer finishing roll pin punches. Made from solid steel, with parallel-ground shanks and knurled handles.

- #080-000-241 Roll Pin Strtr Pnch Kit, 8K31M06 \$ 34.99
#080-000-242 #1 Roll Pin Starter Punch, 8K5F09 5.99
#080-000-243 #2 Roll Pin Starter Punch, 8K6P41 7.99
#080-000-244 #3 Roll Pin Starter Punch, 8K6G59 7.99
#080-000-245 #4 Roll Pin Starter Punch, 8K5K98 6.99
#080-000-246 #5 Roll Pin Starter Punch, 8K5P94 6.99
#080-000-247 #6 Roll Pin Starter Punch, 8K4D55 6.99
#080-000-248 #7 Roll Pin Starter Punch, 8K5J11 6.99

STARRETT AUTOMATIC CENTER PUNCH



For Fine, Precision Marking

Automatic, one hand operation leaves the other hand free to steady the work. Fully adjustable for strength of impact. All working parts are hardened. Point is removable.

- #827-501-190 Starrett Auto Punch, 7B37D44 \$ 38.99
#827-703-800 Replacement Punch Tip, 7B6H73 7.99

Automatic, one hand operation leaves the other hand free to steady the work. Fully adjustable for strength of impact. All working parts are hardened. Point is removable.

Office/Tech: 641-623-5401



BROWNELLS MAGNA-TIP® SCREWDRIVER SYSTEM



Standard Set No. 1 shown



World's Most Versatile Gunsmithing Screwdriver - Custom Bits To Precisely Fit Any Gun Screw

One sign of truly professional gunsmithing work is a completed job with all the screw slots still in pristine - unmarked - condition. The only way to achieve this is with screwdrivers that fit the slots perfectly. Our shop-proven MAGNA-TIP screwdriver system makes this possible.

To help you get a screwdriver set suited to your specific needs, we offer the MAGNA-TIP system in two basic configurations. The **Standard Set** contains bits for general gun maintenance and repair - and darn near everything around the house and garage, too. The **Super Set**, with its incredible selection of graduated bits, is the Gold Standard of gunsmith screwdrivers. For added customization, you get to choose the driver handle you want: the full-size **#81 Handle**, the **#84 Hollow Handle** with a compartment in the grip for storing bits, or if you like your hand close to the work, the **Magnetic Law Enforcement Handle** or **Clip Tip Law Enforcement Handle**. Both Law Enforcement (LE) handles grasp the bits equally well, but the Clip Tip version will not magnetize them. Like everything we sell, all of our MAGNA-TIP components are Guaranteed Forever.

MAGNA-TIP® STANDARD SETS NO. 1, NO. 2 & NO. 3

With a Standard Set on your bench or in your range bag, you'll be prepared for the majority of standard gun screws you encounter. Standard Set No. 1 contains a complete assortment of 24 bits (one of each number shown in the Standard Set table), including 11 slotted screw bits, 3 Phillips bits (#0, #1 and #2), and 10 hex bits for socket head screws, plus the MAGNA-TIP Handle of your choice, the field case, and bench tray. Standard Set No. 2 contains the bits and driver of Set No. 1, but WITHOUT the field case and bench tray. Standard Set No. 3 has the 11 blade-type bits for slotted screws, highlighted in the table - plus the handle of your choice and the field case and bench tray. DOES NOT include the hex head or Phillips bits.

SPECS: Bits - 1" (2.5cm) to 1½" (3.8cm) overall length (see table). #81 & #84 Handles - 8" (20.3cm) long overall, 1¼" (3.2cm) grip diameter. Law Enforcement Handles - 5½" (14cm) long overall, 1" grip diameter.

STOCK #	BIT SET	HANDLE	PRICE
#080-101-081	No. 1	#81	\$ 51.99
#080-102-081	No. 2	#81	\$ 44.99
#080-103-081	No. 3	#81	\$ 33.99
#080-101-084	No. 1	#84	\$ 49.99
#080-102-084	No. 2	#84	\$ 43.99
#080-103-084	No. 3	#84	\$ 33.99

#080-106-000	Standard Set Bench Tray, only, 8K4L75		\$ 5.99
#080-104-000	Standard Set Case-n-Tray Combo, 8K8D03		9.99

STANDARD MAGNA-TIP SET BITS

STOCK #	BIT NUMBER	BLADE DIA.	BLADE THICKNESS	PRICE
#080-445-002	445-00***	.138"	.028	8K3E13 \$ 3.99
#080-445-032	445-03***	.154"	.032"	8K3L13 \$ 3.99
#080-445-103	445-10***	.138"	.034"	8K3H17 \$ 3.99
#080-445-203	445-20***	.216"	.036"	8K3G00 \$ 3.99
#080-445-303	445-30***	.248"	.038"	8K3G11 \$ 3.99
#080-445-135	445-1*	.278"	.035"	8K3F08 \$ 3.99
#080-445-240	445-2*	.278"	.040"	8K3N08 \$ 3.99
#080-445-342	445-3*	.278"	.042"	8K3A03 \$ 3.99
#080-445-446	445-4*	.278"	.046"	8K3G03 \$ 3.99
#080-445-550	445-5***	.312"	.050"	8K3L13 \$ 3.99
#080-445-655	445-6***	.360"	.055"	8K3G13 \$ 3.99
#080-440-001	440-0/1220*	Phillips #0	NA	8K2J18 \$ 2.99
#080-440-100	440-1/1221*	Phillips #1	NA	8K2M25 \$ 2.99
#080-440-200	440-2/1222*	Phillips #2	NA	8K2E28 \$ 2.99
#080-185-002	185-00/5221*	1/16" Hex	NA	8K3N13 \$ 3.99
#080-185-000	185-0/5222*	1/16" Allen	NA	8K3M17 \$ 3.99
#080-185-100	185-1/5223*	1/16" Allen	NA	8K3D99 \$ 3.99
#080-185-900	185-9/5224*	1/16" Allen	NA	8K3N24 \$ 3.99
#080-185-200	185-2/5225*	1/16" Allen	NA	8K3F14 \$ 3.99
#080-185-010	185-10/5226*	1/16" Allen	NA	8K3I78 \$ 4.99
#080-185-300	185-3/5227**	1/32" Allen	NA	8K2H48 \$ 2.99
#080-185-400	185-4/5228**	1/16" Allen	NA	8K3J27 \$ 3.99
#080-185-500	185-5/5229**	1/32" Allen	NA	8K3Q27 \$ 3.99
#080-185-600	185-6/5220**	1/4" Allen	NA	8K3N17 \$ 3.99



* 1" (2.5cm) overall length
 ** 1¼" (3.2cm) overall length
 *** 1½" (3.8cm) overall length

THE HANDLE

Part of the MAGNA-TIP system's tremendous versatility comes from the handle. Bits are held in the shaft chuck by a powerful, built-in magnet or a spring clip for fast changes from one bit size to another. Deep, grooved flutes on the shockproof plastic handle provide a strong, positive gripping surface.

EXPANDABLE & COMPATIBLE

ALL of our MAGNA-TIP bits will fit your handle. If you lose a bit, or need a special one not in your set, you can purchase that bit separately and be assured it will fit. You can even grind bits for custom screws using the separately available Shaping Stone.

PERFECT NO-SLIP FIT

MAGNA-TIP bits have true power-flowing, hollow-ground blades, which means they're ground slightly concave on the flats

(wide dimension) to help the bit fit tightly in the screw slot without play, so it stays seated in the slot as you apply pressure. The bit is much less likely to slip and mar the slot. All the torque is transmitted down the shank of the bit evenly and smoothly, so maximum power is exerted as in a finely tapered gun spring.

MAGNA-TIP bits are manufactured from the same materials as high-speed industrial impact-power drivers used in commercial production applications. They have the right combination of hardness and durability for maximum strength and wear!

FIELD CASE & BENCH TRAY

Each MAGNA-TIP set comes in an unbreakable polyethylene field case with lift-out tray of indestructible ABS plastic. It has a space for your driver handle and compartments for extra bits, screws, or small parts from the gun you're working on.

MAGNA-TIP® SUPER SETS™



Every gunsmith knows no two screw slots are ever exactly the same. Because so many factories use outside vendors for screws, slot sizes can vary, even within the same model of gun. If you want to be professional about your work, you custom grind each bit to the correct size, a frustrating and time-consuming task without a Super Set.

The Super Set comes in graduated 22-bit, 44-bit, and 58-bit configurations, so you'll always have a screwdriver blade that precisely fits the size and width of virtually any screw slot. You get flat blades in 9 different widths from .120" to .360", each with four to six blade thicknesses from .030" through .070" in .005" or .010" increments. Each 1½" long bit is marked with its blade width and relative thickness number, 3 for thinnest, 4 for next thicker, etc.

The **22 Bit Starter Super Set** eases you into the powerful Super-Set concept with the 22 straight bits highlighted in the Super Set table, your choice of one handle, and the heavy duty box, and tray. When you're ready to expand your set, the Super Set Add-On Pak lets you upgrade it to the same configuration as the **44-bit Super Set**. The 44 Bit Super Set Plus has all 44 slotted screws in the table, one handle of your choice, a Stubby Handle (just the ticket for working in tight places), and the heavy duty box and tray. The **58 Bit Master Super Set Plus** adds 10 hex-head bits, 3 Phillips-head bits, and a 1/4" square bit for Remington buttplates to the contents of the 44 Bit Super Set Plus. It's the most incredible screwdriver system you will ever use!

#080-108-100	Starter Super Set Add-On Pak, 8K35M74	\$ 46.99
#080-113-000	Super Set Box, only, 8K5D47	6.99
#080-115-000	Super Set Case-n-Tray Combo, 8K9Q02	10.99
#080-120-330	#120-3 Bit, 8K3C25	3.99
#080-240-540	#240-5 Slotted Bit, 8K3G21	3.99

SUPER SET UPDATE KIT - For those who have an older Super Set produced before the change to thicker bits, this Kit provides all 24 thicker bits we include in the current Super Set, plus a plastic case and oak block.

SPECS: Kit: Bits 120-5, 120-6, 150-5, 150-6, 180-5, 180-6, 210-5, 210-6, 240-5, 240-6, 240-7, 270-5, 270-6, 270-7, 300-6, 300-7, 340-6, 340-7, 340-8, 360-7, 360-8, H8102XX sq. recess bit, bench block, case and new-style Super Set box lid label.



#080-112-024	Update Bits, only, 8K38N51	\$ 41.99
#080-112-000	Update Kit, 8K44K18	50.99

STK# #81 HANDLE	STK# #84 HANDLE	STK# MAGNETIC LE	STK# CLIP TIP LE	BIT SET	PRICE
#080-107-081	#080-107-084	#080-107-804	#080-107-801	22 Bit Starter Super Set	\$ 73.99
#080-110-081	#080-110-084	#080-110-804	#080-110-801	44 Bit Super Set Plus	\$ 119.99
#080-112-081	#080-112-084	#080-112-804	#080-112-801	58 Bit Master Super Set Plus	\$ 129.99

GUARANTEED. FOREVER.®
SINCE 1939

GRACE USA SCREWDRIVER SETS



9-piece Hex Set 11-piece Star set

Always Have The Right Driver For The Job

Precision manufactured and hand-assembled screwdrivers give tight fit between driver and screw head to virtually eliminate marring under torque. Contoured hardwood handles with nickel-plated ferrules fit the hand comfortably. **Star Screwdriver Set** includes T5, T6, T7, T8, T9, T10, T15, T20, T25, T27 and T30 sizes. **Hex Screwdriver Set** includes 1/16", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", and 3.5mm sizes. **SPECS:** 8650 Chromium-Vanadium steel alloy blade, black oxide finish. **#354-000-037 11-Piece Star Screwdriver Set, 4E49Q61. . \$ 65.99**
#354-000-038 9-Piece Ball Hex Screwdriver Set, 4E39A85 \$ 29.99

GRACE MICRO SCREWDRIVER SET

Extra Small Tips For Tiny Screws

Fixed-blade screwdrivers with steel shanks come in a set of three slotted and three Phillips tips for jobs involving tiny screws, like those on adjustable triggers, sights or scopes. Precise, snug fit between the driver and fastener minimizes potential for marring the head. Each is hand-assembled to a square, hardwood handle that is etched with the size for fast identification. **SPECS:** Blades - Chromium-vanadium 8650 alloy steel, black oxide finish. Ferrule - Steel, nickel-plated. Handle - Hardwood, smooth finish. Approx. 5.1" (12.95cm) OAL. Includes Phillips tips 0000, 000, 00 and slotted tips (blade width x approx. blade thickness) 1/16" x .014", 3/64" x .018", and 1/32" x .022".

#354-000-036 Grace Micro Screwdriver Set, 4E25D93 \$ 33.99



BROWNELLS

12-IN-1 PRECISION MINIATURE SCREWDRIVER SET



Most Popular Phillips, Slotted & TORX® Sizes To Fit A Wide Variety Of Miniature Screws

Precision made, hardened steel bits give you the right selection for repairing guns, cameras, computers, watches, and many other small items. Kit features six double-ended, quick change bits to fit most small screws found in the shop or home. Bits snap into large, deep knurled, swivel top handle that provides easy one-hand use. Gives finger-tip control with tiny, easy-to-lose screws. Handle and bits are packed in a convenient plastic storage holder marked with the size of each bit.

SPECS: Four Phillips (000, 00, 0, 1) bits. Four slotted (1.5, 2.0, 2.5 and 3.2mm) bits. Four TORX (T-7, T-8, T-9 and T-10) bits.
#079-000-001 Miniature Screwdriver Kit, 8K14E25. \$ 17.99

GRACE WOODWORKING SCREWDRIVER SETS

High-Quality Drivers For Standard Wood Screws

Fitted to standard wood screws, these hand-assembled screwdriver sets feature nickel-plated steel ferrules and chromium-vanadium 8650 alloy steel tips with black oxide finish. Square handles are turned from quality hardwood and stamped with the size for quick recognition. **SPECS:** Custom hollow-ground blades offer a precision fit and help prevent slipping under torque and damage to the screw heads or surrounding surfaces. Set includes seven drivers with heavy square shanks in the following dimensions (approx. blade width x approx. blade thickness): **#2 - 145" x .020" (3.68 x .051cm); #4 - .206" x .033" (.523 x .084cm); #6 - .235" x .040" (.597 x .102cm); #8 - .286" x .043" (.726 x .109cm); #10 - .305" x .049" (.775 x .124cm); #12 - .357" x .052" (.907 x .132cm); and #14 - .374" x .062" (.950 x .157cm). 5 5/16" (15.08cm) to 12 1/8" (32.7cm) OAL.**

#354-000-035 Slotted Screwdriver Set, 4E58C53. \$ 69.99

PHILLIPS SET - Five-screwdriver set includes 0, 1, 2, 3, and 4 tips with round shanks. 5 1/2" (13.97cm) to 13 3/4" (34.9cm) OAL.

#354-000-033 Phillips Screwdriver Set, 4E36M75. \$ 49.99



PRECISION INSTRUMENT SCREWDRIVERS IN HINGED WOODEN CASE

Very Best Quality To Handle Smallest Of Gun Screws

Precision screwdrivers. Handles are nickel-plated steel, ribbed for positive handling. Blades of ground, tempered steel are held firmly in place by special chucks. Heads are free-swiveling. Complete screwdrivers are sold as a full set; a couple of popular sizes are also sold separately, in case you've broken or lost them - or just need the one size! **SPECS:** Kit contains one of each size listed in the table below, plus .04" (1.0mm), .07" (1.8mm) and .140" (3.6mm), all in a hinged hardwood case.

#249-919-000 Instrument Screwdriver Set, 9D91E93 . . \$ 106.99
#249-914-060 .06" (1.5mm) Screwdriver, 9D91O9. 10.99
#249-914-115 .115" (2.9mm) Screwdriver, 9D10C15. 11.99



BONDHUS FIXED BLADE TORX DRIVERS

Improves Control, Gives Positive Grip To Seat Rings & Bases "Just Right"

T-10 and T-15 fit Brownells, Burris and Leupold scope ring and base screws. Ball-head driver can be held as much as 25° off angle and still grip the screw socket tightly. Hardened, steel shaft gives excellent reach; slotted handle provides a solid grip. **SPECS:** T-10 - 5" (12.7cm) long. 2 1/4" (7cm) long shank. T-15 - 5 1/2" (14cm) long. 2 1/8" (7.3cm) long shank.
#123-127-100 T-10 TORX Driver, 3B6K63. \$ 9.19
#123-127-150 T-15 TORX Driver, 3B6N64. 9.19



BONDHUS PRECISION SCREWDRIVER KIT

Adjustable Shafts With Interchangeable Bits To Fit & Reach Small Screws

Driver system has six, interchangeable steel shafts with 12 precision-ground bits for fast change from standard slot blade to Phillips or Torx® tip. Great for working on the many small parts and accessories found in most gun shops and hobbyist work benches. Collet lets you adjust the shaft length approximately 3" to get to those hard-to-reach places. Rotating cap minimizes friction to ease screw removal or installation, while the hanging hole in the handle can be used with a second shaft as a T-handle for extra leverage to remove stubborn screws. Handle has a soft, ergonomic, rubber outer-grip for comfort and excellent grip. **SPECS:** Handle - Steel, polypropylene, and neoprene, gray and black. Shaft/Bits - Chrome-moly-vanadium steel, 4 1/4" (12cm) long. Bits: Standard - 1/16" x .016" (2.0 x 0.4mm), 3/64" x .141" (3.5 x 0.6mm); Phillips - 000, 00, 0, and 1; Torx® - T6, T7, T8, T9, T10, T15.

#123-000-018 Precision Screwdriver Kit, 3B37D57. \$ 57.99

NEW! FIX-IT STICKS COMPACT T-HANDLE DRIVER + BITS

Fear No Loose Screws in the Field - This Pocket Driver Kit Has You Covered

Here's a simple, easy-to-use tool that takes up minimal space in your range bag, back pack, or pocket - AND sets you up with drivers to handle most screws found on modern guns. Great for field repairs, adjustments to optics or laser sights, or just about any other small job that pops up unexpectedly when you're far from your workbench. Comes with two Fix It Sticks drivers that slot together to form a T-handle. Each driver has a 1/4" drive socket on one end to accept the included bits - and YES, it will also work with Brownells Magna-Tip® bits. Bit included in the kit: #5 slotted; Phillips #1; 1/8", 3/64", 3/32", 1/32", 3/16", 2.5mm, 3mm, 4mm & 5mm hex; Torx® T-10, T-15, T-20, T-25 & T-30. Comes in a rubberized holder that keeps drivers and bits all together.
#100-034-935 Fix-It Sticks T-Driver + 16 Bits, 2F35170. . \$ 40.00
#100-034-940 Shooting Bit Add-On Pack, 2F32P64. 36.00



BEST WAY TOOLS SOFT JAW PLIERS

Helps Prevent Marring

Pliers feature nylon jaw inserts that protect fine finishes from damage. Inserts are held in place by small Phillips screws for easy replacement should they get damaged. Rubber coated handles provide a soft, secure grip. Additional inserts are available. **SPECS:** Steel pliers. Nylon inserts.
#100-015-336 Soft Jaw Pliers, 7B14C83 \$ 21.99
#100-015-335 Soft Jaw Needle Nose Pliers, 7B21L57. 33.99
#100-015-337 Soft Jaw Tongue & Groove Pliers, 7B37J97. 43.99



BONDHUS STAR PLUS TORX® DRIVERS



Sizes To Fit Torx/Star Screws Commonly Found On Firearm Accessories

These drivers fit all Torx® brand, Star, and Star Plus screws. Choose from classic T-Handle design that transfers plenty of torque to the screw or ergonomically enhanced Wing or Flag style handles with ComfortGrip soft rubber outer coating for superb comfort and maximum gripping leverage. Like all Bondhus Torx drivers, all of these have a cleanly chamfered driver tip that seats securely in the screw head and helps prevent slippage that can cause damage to the screw or the work piece. Driver tips are non-magnetic. **SPECS:** Heat-treated, high-grade, industrial tool steel, matte chrome finish, synthetic rubber handles. Wing and Flag sets contain T6, T7, T8, T9, T10, T15 and T20 drivers. T-Handle - T9, T10, T15, T20, T25, T27, T30 and T40 drivers. T10 and T15 drivers also sold individually.

#123-000-022 Torx® Driver Set, Wing Handle, 3B32D17 \$ 37.99
#123-000-023 Torx® Driver Set, Flag Handle, 3B29I74 34.99
#123-000-024 ProHold® Torx® Driver Set, T-Handle, 3B54G34 82.99
#123-000-025 T-Handle Torx® Driver, T-10, 3B8G52. 9.99
#123-000-026 T-Handle Torx® Driver, T-15, 3B6H40. 9.99

BROWNELLS TORX® DRIVER SET

Popular Sizes For Gun Work; Comfortable Grip For Excellent Control

Professional-grade Torx driver set with eight of the most popular sizes equips you to work on almost any Torx® screw found on guns and firearm accessories. Precision-machined steel shaft is heat-treated for superb strength, so when you're wrestling to loosen stubborn screws, these drivers won't give out and break like cheap hardware store drivers. Shaft lengths are carefully selected to provide the best balance of reach and rigidity. The comfortable, ergonomically shaped, synthetic rubber handle gives you a secure, non-slip grip and great control. T-10 and T-15 drivers fit Brownells, Burris, and Leupold scope ring and base screws. Comes in a reusable, heavy duty clear plastic pouch. **SPECS:** Heat-hardened steel. Set includes T-6, T-7, T-8, T-9, T-10, T-15, T-20, and T-25 sizes. Shaft lengths from 4 1/4" (T-6) to 5 1/4" (T-25).
#080-000-724 Torx Driver Set, 8K23F01. \$ 29.99



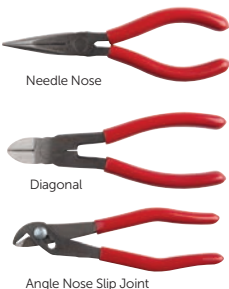
#100-015-338 Replacement Insert, Needle Nose, 7B6A74. 7.99
#100-015-339 Replacement Insert, Pliers, 7B5D80. 6.99
#100-015-340 Replacement Insert, Tongue & Groove Pliers, 7B5D80. 6.99

GUARANTEED. FOREVER.® SINCE 1939

GRACE 3-PIECE SET OF PLIERS

Quality, Precision Tools For Long-Lasting Performance

High-quality pliers are precisely handcrafted for years of reliability at your workbench or home. Rubber-covered handles ensure a comfortable and firm hold. Set contents: **Needle Nose** offers a built-in wire cutter and finely serrated jaws that tightly grab springs and other small parts. Most popular style, so these are also sold separately. **Diagonal** features exceptionally sharp edges and flush snipping action. **Angle Nose Slip Joint** has three adjustable pivot points to increase grip size range, with a flat mouth and milled teeth that curve at the back for rounded objects, like hot metal rods.



SPECS: Steel. **Needle Nose** - 6 1/2" (16.5cm) OAL. 1 1/16" (4.9cm) long jaw, including cutter. **Diagonal** - 6 1/2" (15.9cm) OAL. 1 1/16" (2.1cm) long jaw. **Angle Nose Slip Joint** - 5 1/8" (13.7cm) OAL.
#354-000-051 3-Pc Pliers Set, 4E71161 \$ 82.99
#354-000-048 Needle Nose Pliers, ONLY, 4E28M21 32.99

GERMAN MADE SPECIAL GUNSMITHING PLIERS



Super Strength Box Joints For Maximum Precision
"BUCHSENMACHER" (GUNSMITH) PLIERS

Perhaps no other tool on the bench is required to do more jobs than the Gunsmith's pliers - everything from getting up inside a small action and inserting a spring the size of a small hair, to holding red-hot rods while being formed. Because of the extremely rough, to extremely delicate, work done with pliers, just being tools isn't enough; they must be instruments. These pliers are manufactured by a company that has long specialized in **QUALITY** - respected for generations. They are of strong box construction. This gives the pliers greater strength and prevents loosening of the joints when doing twisting and turning operations. Finish: Polished steel jaws and joints. Each tool is guaranteed for quality and service. The manufacturer's slogan since 1824 has always been, "First Quality and Then Price". This manufacturing policy is of greater importance to the craftsman today than ever before.

SPECS: 145mm long. (Approximately 5 1/4")
#249-130-134 134 Flat Nose Pliers, 9D27A68 \$ 32.99
#249-130-137 137 Round Nose Pliers, 9D23N07 27.99
#249-150-153 153 Straight Needle Pliers, 9D25Q63 30.99
#249-150-154 154 Curved Needle Pliers, 9D26E51 31.99

HIGH GRADE PARALLEL JAW PLIERS

Most "Parallel" We've Found

English-made with heat-treated, flat-nosed jaws. Smooth-jawed model gives a tight, non-marking grip. Serrated model holds tightly and includes a lengthwise groove to hold wire or drill rod.
SPECS: Both: 5" (12.7cm) long, 1 1/8" (2.9cm) deep throat, open to 7/16" (11.1mm) wide. Nickel plated handles, blued jaws.
#348-181-105 Smooth Parallel Pliers, 6C35J95 \$ 43.99
#348-181-103 Serrated Parallel Pliers, 8D36F82 43.99



BONDHUS BALL-HEX "L" WRENCHES

Work At Angles Up To 25°

Because they can be "off" as much as 25°, ball-end, hex wrenches will work in places conventional ones won't. Use "square" end when more leverage is needed. Supplied in deluxe case with a locking slot for each wrench.

SPECS: 2 1/8" (7.3cm) - 6 1/2" (16.5cm) long. **Inch Set** - 12 sizes: .050", 1/16", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4", 7/8", 1", 1 1/8", 1 1/4", 1 1/2", 1 3/4", 1 7/8", 2", 2 1/8", 2 1/4", 2 1/2", 2 3/4", 3", 4", 5", 6", 8" and 10mm.

STOCK #	SIZE	PRICE	STOCK #	SIZE	PRICE
#123-109-050	.050"	\$ 3.99	#123-109-125	1/16"	\$ 3.99
#123-109-062	1/16"	\$ 3.99	#123-109-140	3/16"	\$ 3.99
#123-109-078	3/32"	\$ 3.99	#123-109-156	1/4"	\$ 3.99
#123-109-093	1/8"	\$ 3.99	#123-109-187	3/8"	\$ 3.99
#123-109-109	5/16"	\$ 3.99			
#123-109-000	Inch Ball-Hex Wrench Set, 3B10P47	14.99			
#123-110-000	Metric Ball-Hex Wrench Set, 3B11M26	14.99			



BONDHUS SHORT-ARM HEX "L" WRENCHES

For Micro-Sized Hex Head Screws; Inch & Metric Sizes Available



Micro-sized, short-arm hex wrenches get in the tight areas to adjust triggers, reflex sights, iron sights, or anyplace else small Allen head screws are used. Machined from proprietary, high-strength, Protanium® steel alloy with precision chamfered ends for easy insertion. Separate Inch and Metric sets available.
SPECS: Protanium® steel. 1 1/4" (3.2cm) 2 1/2" (6.3cm) long. **Inch Set** includes: .028", .035", .050", 1/16", 3/32" and 1/32" sizes. **Metric Set** includes: .71mm, .89mm, 1.27mm, 1.5mm, 2mm, 2.5mm, 3mm.

#123-000-016	Inch Short-Arm Hex "L" Wrench Set, 3B7P57	9.99
#123-000-017	Metric Short-Arm Hex "L" Wrench Set, 3B7N19	8.99

BONDHUS T-HANDLE HEX TOOL SET

Gives Plenty Of Leverage To Securely Torque Down Hex Screws

Bondhus's T-Handle hex driver sets are excellent choices for frequent use in the gun room and reloading bench. Handles are cushioned with synthetic rubber to make them extremely comfortable to use while they provide positive control. Like all Bondhus drivers, these have a cleanly machined driver tip that seats securely in the screw head and helps prevent slippage that can cause damage to the screw or the work piece. Heat-treated, high-grade, industrial tool steel, matte chrome finish, synthetic rubber handles. 10-piece fractional **Inch** set contains 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8 drivers. 8-piece **Metric** set contains 2, 2.5, 3, 4, 5, 6, 8 and 10mm drivers.

#749-005-413	10-Piece T-Handle Hex Tool Set, 3/32" to 3/8", 3B49P98	\$ 57.99
#123-000-027	8-Piece T-Handle Hex Tool Set, 2mm to 10mm, 3B32C45	50.99



PROHOLD® "L" WRENCHES

Holds Screw Snug To Wrench, Works At Angles Up To 25°

Anylon button in the long end holds screw snugly on the wrench, helping to prevent dropped and lost screws. Because they can be "off" as much as 25°, wrenches will work in places conventional ones won't. Use "square" end when more leverage is needed. Supplied in deluxe case with a locking slot for each wrench.

SPECS: High-torque steel. 2 1/8" (7.3cm) - 6 1/2" (16.5cm) long. **Inch Ball-Hex Set** - 13 sizes: .050", 1/16", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4", 7/8", 1", 1 1/8", 1 1/4", 1 1/2", 1 3/4", 1 7/8", 2", 2 1/8", 2 1/4", 2 1/2", 2 3/4", 3", 4", 5", 6", 8" and 10mm. **Star Tip Set** - 8 sizes: T9, T10, T15, T20, T25, T27, T30, T40. Star tips also fit Torx® brand screws.

STOCK #	SIZE	PRICE	STOCK #	SIZE	PRICE
#123-000-003	.050"	\$ 4.99	#123-000-008	1/8"	\$ 4.99
#123-000-004	1/16"	\$ 4.99	#123-000-009	3/16"	\$ 3.99
#123-000-005	3/32"	\$ 3.99	#123-000-010	1/4"	\$ 3.99
#123-000-006	1/8"	\$ 3.99	#123-000-014	3/8"	\$ 6.99
#123-000-007	5/16"	\$ 3.99			

#123-000-019	13-Piece Inch Ball-Hex Wrench Set, .050" to 3/8", 3B21G62	\$ 29.99
#123-000-020	9-Piece Metric Ball-Hex Wrench Set, 1.5mm to 10mm, 3B17N67	23.99
#123-000-021	8-Piece Star Tip Wrench Set, T9 to T40, 3B16A76	25.99



BONDHUS FOLD-UP WRENCH SETS

Compact Units Fit Range Bag Or Tool Box



Compact, easy-to-grip sets feature chamfered tips for easier insertion into screw heads. **#12591** - Hex. Nine sizes from .050" to 3/16". **#12589** - Hex. Nine sizes from 3/64" to 1/4". **#12592** - Metric. Seven sizes from 1.5mm to 6mm. **#12632** - Torx®. Eight

sizes from T6 to T25.
SPECS: Hardened steel wrenches 1.5" to 2.5" (3.8cm to 6.35cm) long. High impact synthetic case, approx. 4" long.
#123-125-910 #12591 Fold-Up Hex Wrench Set, 3B4D52 \$ 5.79
#123-125-890 #12589 Fold-Up Hex Wrench Set, 3B5K62 7.89
#123-125-920 #12592 Fold-Up Hex Wrench Set, 3B4G83 6.99
#123-126-320 #12632 Fold-Up Torx Wrench Set, 3B10P82 14.49

NEW! LYMAN PRO DRIVE TORQUE WRENCH

Easy To Use With Precise 70 in-lb. Torque Adjustment Range

Lyman's torque wrench is adjustable to apply from 10 to 80 in-lbs. in increments of 10 in-lbs. It's calibrated to ASME standards to ensure accurate, reliable torque output. So you're set up to easily and safely tighten the screws on scope bases, scope rings, action screws, and other firearm screws to manufacturer-recommended specs. Correct screw torque, of course, prevents damage to screw threads, screw heads, threaded surfaces, and optics, while helping to deliver the best accuracy from your firearm. This wrench



MAYHEW HEAVY DUTY TWISTED HEX KEY SET

Twisted For More Torque

Made from high quality S2 tool steel, these hex wrenches are twisted before being heat treated to increase their torque capacity. Manganese-phosphate on the contact points help resist wear and each wrench has been color coated to resist corrosion. Longer shafts provide additional leverage. Wrenches exceed ANSI standards. Available in inch or metric sizes.



SPECS: S2 tool steel, manganese-phosphate contact points. **Inch Set** - 1/16", 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1 1/8", 1 1/4", 1 1/2", 1 3/4", 1 7/8", 2", 2 1/8", 2 1/4", 2 1/2", 2 3/4", 3", 4", 5", 6", 8", 10mm. Red coated.
#587-000-001 Inch Twisted Hex Wrench Set, 7H31D39 \$ 36.99
#587-000-002 Metric Twisted Hex Wrench Set, 7H31K39 36.99

FIX-IT STICKS TORQUE LIMITERS/BITS/ WRENCH SET

Compact, Portable Kit Enables You To Apply Precise Amounts of Torque To Optic Mounts & Other Screws in the Field, On the Range OR Anywhere



These torque limiters are designed to "spin" when pre-set level of torque is reached. This "spin" prevents any additional torque from being applied, insuring that your fastener is torqued to the correct specification. Designed to be small, lightweight, and portable, the Fix It Sticks miniature torque limiter is an excellent go-anywhere torque accessory for your range/field kit. It fits into standard 1/4" bit driver and accepts any standard 1/4" bits for the utmost in flexibility. Paired with the included T-Handle driver, it gives you the ultimate field torque wrench for tightening scope mounts and rings WITH-OUT over-tightening and risking damage to scope and/or rings, mount, or even the receiver of the rifle. Due to their ease of use and simplicity, they're also great for other jobs around the home and shop. Kit includes 15-, 25-, 45- and 65-in/lb. torque limiters, T-Way T-handle wrench, 16 different screwdriver bits, 1/2" socket and 1/4" bit adapter set. Replacement limiters - and others with different torque settings - available below.

#100-034-936	Torque Driver Kit w/4 Limiters, 2F163B20	\$ 180.00
#100-018-237	15 in-lb. Miniature Torque Limiter, 2F34L98	39.99
#100-034-937	20 in-lb. Miniature Torque Limiter, 2F35H70	40.00
#100-018-236	25 in-lb. Miniature Torque Limiter, 2F34G98	39.99
#100-034-938	30 in-lb. Miniature Torque Limiter, 2F35E70	40.00
#100-018-235	65 in-lb. Miniature Torque Limiter, 2F34E98	39.99

has sturdy, all-steel construction, with a chrome-plated shank and ergonomically enhanced synthetic rubber handle to give you a secure grip. Kit includes the wrench itself, 3 hollow-ground slot tip bits, 4 hex bits, 3 Torx® bits, and on 1/2" socket.
#539-000-206 Pro Drive Torque Wrench, 5K76E69 \$ 84.99

**BROWNELLS
MAGNA-TIP® ADJUSTABLE
TORQUE HANDLE**

Apply An Exact Amount Of Pre-Set Tightening Force; Accepts All Brownells Magna-Tip Bits

Precision-adjustable torque driver ensures that you apply the exact amount of leverage needed to accurately tighten any gun screw, including action screws and scope ring/mount screws. Adjustable from 15 to 70 in.-lb. in 1 in.-lb. increments to eliminate guesswork and prevent under- or over-tightening screws - no more stripped threads or broken-off screw heads. The 1/4" magnetic hex drive socket accepts ANY Brownells Magna-Tip bit - plus, 6 bits commonly needed for gun work are included! Ergonomic, rubber-coated handle gives you a secure grip for maximum leverage and even transfer of tightening force. To change torque setting, simply turn the orange collar to the desired setting indicated through the easy-to-read window scale. A self-limiting cam-over clutch "clicks" free when the specified amount of torque is reached, making over-tightening impossible. Each driver is hand calibrated and inspected, and comes with a handwritten certification card.

SPECS: Stainless steel shank & internal mechanism. High-impact, molded, hard-polymer housing, rubber-overmolded handle. Includes these 1/4" bits: Torx® T-10 & T-15, plus 3/32" & 1/8" hex with 1" long shanks; T-25 and 3/16" hex with 4" long shanks.

#080-001-294 Adj. Torque Handle, only, 6E52E99 ... **\$ 61.99**

**SEEKONK
1/4" DRIVE TORQUE HANDLE**

Takes The Guesswork Out Of Tightening Triggerguard, Ring & Base Screws



Improve accuracy and shot-to-shot consistency by torquing rifle triggerguard, plus any ring and base screws to the same reading every time. Convenient "T" handles break away at pre-set, inch/pound torque values and the back-off feature allows the screw to be removed again. Accepts all 1/4" drive attachments.

SPECS: Steel, chrome plated. 3 1/2" (8.8cm) high, 4 1/8" (10cm) wide.

- #792-000-002** 15in/lb Torque Handle, 2G111H01 ... **\$ 123.34**
- #792-000-003** 20in/lb Torque Handle, 2G111G01 ... **123.34**
- #792-000-004** 25in/lb Torque Handle, 2G111E01 ... **123.34**
- #792-212-035** 35in/lb Torque Handle, 2G111F01 ... **123.34**
- #792-212-045** 45in/lb Torque Handle, 2G111N01 ... **123.34**
- #792-212-055** 55in/lb Torque Handle, 2G111A01 ... **123.34**
- #792-212-062** 62in/lb Torque Handle, 2G111P01 ... **123.34**
- #792-212-065** 65in/lb Torque Handle, 2G111E01 ... **123.34**

SQUARE-TO-HEX 1/4" DRIVE CONVERTER

- Use Magna-Bit® Allen head bits with the Seekonk 1/4" Drive Torque handles or Variable Torque Wrench for torquing rifle triggerguard screws. 1/4" socket has no magnetic insert. ZM23 Converter has magnetic insert and locking snap ring to securely hold all 1/4" hex drive bits.

SPECS: 1/4" Socket - steel, chrome plated 1" (2.5cm) long. ZM23 Converter - forged steel, heat treated, 2" (5cm) long.

#084-095-250 1/4" Socket, 9B5P19 ... **\$ 5.99**

#084-095-230 ZM23 Converter, 8K18M62 ... **21.99**

**SEEKONK 1 TO 75 INCH POUND
VARIABLE TORQUE WRENCH**

Lets You Achieve Exact, Mil-Spec Tightness; Expert Engineering & Swiss Dials Guarantee Accuracy

Chrome-plated, high-alloy steel, variable-dial torque wrench lets you see the exact amount of inch pounds you're applying. Large dial, with contrasting, black numerals on a white background, is easy to read; includes one-inch-pound graduations from 1 to 75. Heat-treated, molybdenum, fish-scaled handle lets you get a good grip so you can control the amount of torque you're applying. Encased in an impact-resistant polycarbonate box. Requires 1/4" socket-drive conversion for use on screws (listed with Torque Handles).

SPECS: Chrome-plated, high-alloy steel and plastic body; molybdenum handle. 1/4" (6.35mm) drive. 2 1/8" (5.5cm) O.D. dial. 1/2" (20mm) O.D. handle. 10 1/4" (26cm) OAL. +/- 3% accuracy.

#792-000-001 1-75 in. lb. Variable Torque Wrench, 2G177141 ... **\$ 197.12**

**WHEELER ENGINEERING
FAT WRENCH**

Set Proper Torque On Screws To Help Maximize Accuracy



Hand-driven, clutch-style FAT (Firearm Accuracy Torque) Wrench helps achieve correct torque specs on most firearm screws and accessory fasteners to help maximize accuracy potential. Standard 1/4" drive tip accepts many bits, and FAT Wrench comes with 10 popular bit styles, including Torx and Leupold/Buehler windage bits. Large ergonomic handle makes the FAT Wrench easy to use, and simple-to-read torque adjustment ranges from 10 to 65 in.-lbs in 5 in.-lb. increments. Wrench and bits come in molded hard polymer case for convenient storage and transport.

SPECS: Tool steel with polymer yellow handle.

#100-012-250 FAT Wrench w/10 Bit Set, 7A00FFH... **\$ 58.99**

JEWELER'S DEEP SAWFRAME

Handy Little Jig Saw



For use when greater cutting depth and extreme precision is required. Adjustable frame draws the blade tight.

SPECS: Steel frame, hardwood handle. 5" (12.7cm) deep.

#249-146-500 Jeweler's Sawframe, 9D33C59 ... **\$ 38.99**

PIERCING BLADES - Round back follows curves. Pak of 12.

SPECS: 5 1/4" (13.3cm) long. **Size 1** - .0120" (.30mm) thick, .0240" (.60mm) wide. **Size 4** - .0150" (.38mm) thick, .0370" (.78mm) wide. **Size 6** - .0173" (.44mm) thick, .0370" (.94mm) wide. **Size 10** - .0215" (.55mm) thick, .0510" (1.3mm) wide.

#360-081-001 Size 1 (47 Tpi) Sawblades, 6C6J19 ... **\$ 7.99**

#360-121-004 Size 4 (37 Tpi) Sawblades, 6C6G20 ... **7.99**

#360-141-006 Size 6 (33 Tpi) Sawblades, 6C9Q91 ... **12.99**

#360-181-010 Size 10 (24 Tpi) Sawblades, 6C11H28 ... **13.99**

1/2" TORQUE WRENCH

For Barrel Nuts & Any Bolts You Want Precisely Tight

Set the dial handle to desired torque; wrench "clicks" when the number is reached. The right tool for AR-15/M16 barrel nuts, bolt carrier key, or action screws on any rifle.

SPECS: Chrome-plated steel. 1/2" (12.7mm) drive. 17 1/8" (43.5cm) long. 1" (2.5cm) diameter handle. 30 - 150 foot pound range.

#018-150-050 1/2" Torque Wrench, 4B62K36 ... **\$ 80.17**

BROWNELLS FILE CHALK

Extends File Life, Makes Using/Cleaning File Easier



Filling file teeth with this chalk is an age old "Gunsmith Kink"® to prevent "pinning", the buildup of metal chips in the teeth of the file. It increases the effectiveness of the file, extends file life, and produces a smoother, more professional finish. Metal removal is faster and easier, too. An inexpensive time and money saver. For superior results, use file chalk along with a good file card, listed elsewhere.

SPECS: 4" (10.2cm) long, 1" (2.5cm) diameter 2 pieces per tube.

#080-705-006 File Chalk, 6 pieces, 8K5K22 ... **\$ 6.99**

#080-705-012 File Chalk, 12 pieces, 8K10C44 ... **13.99**

BROWNELLS FILE STARTER SET

The Basic Files That Belong On Every Gunsmith's Bench

From sight installation to action refinishing, these are the files, cleaning and storage accessories you need. Money saving kit has: 19 files, 5 handles, file chalk, and a cleaning brush.

SPECS: Kit includes: 1 fine needle file set; 60° sight base, fine cut; 4" barrette, # 1 cut; 8" 1/2 rd., smooth cut; 8" mill file, smooth cut; 8" hand, smooth cut; 6" pillar, # 2 cut; 8" ex. narrow pillar, # 2 cut; 6 pk. file chalk, Double-face file cleaner, 3 needle file handles, 2 adj. file handles.

#080-803-000 File Starter Set, 8K346M95 ... **\$ 399.99**

BROWNELLS GUNSMITH'S PUNCH & NEEDLE FILE BLOCK

Ends Bench Clutter, Keeps 'Em Where You Can Find 'Em



Compact, tough, solid oak block has 40 holes drilled along the top to hold punches, small screwdrivers, palm chisels, needle files, gravers, pencils, scribes right where they're always handy. Frees up tool box space. Designed by a gunsmith for use on his own bench, and shared with us because it's such a great tool holder.

SPECS: 15" (38.1cm) long, 3" (7.6cm) wide, 2 1/4" (5.7cm) high. 12 holes 1/8" (11.1mm) diameter; 16 holes 1/2" (7.1mm) diameter; 12 holes 3/16" (4.8mm) diameter. All holes 1 1/4" (3.2cm) deep.

#084-305-101 Punch & Needle File Block, 4H36J96 ... **\$ 47.99**

**BROWNELLS
MOLDED PLASTIC TOOL HANDLES**

Ready To Mount On Tools

Pre-shaped and drilled for screwdrivers, chisels, etc.

STK# YELLOW	STK# BLACK	COUNT	MODEL	PRICE
#016-106-001	#016-106-002	6	L1	\$ 9.99
#016-206-001	NA	6	L2	\$ 12.99
#016-306-001	NA	6	L3	\$ 14.99
#016-406-001	#016-406-002	6	L4	\$ 12.99
#016-506-001	NA	6	L5	\$ 14.99
NA	#016-206-002	6	L2	\$ 9.99
NA	#016-306-002	6	L3	\$ 9.99
NA	#016-506-002	6	L5	\$ 12.99

#016-100-000 Plastic Handle Try-Pak, 1K13C99 ... **\$ 19.99**

FILE ACCESSORIES

DOUBLE-FACE FILE CLEANER - Stiff, 3/4" long, angle bent, steel wire bristles, plus 3/4" long, stiff synthetic bristles.

SPECS: 9" (22.9cm) overall length. Hardwood body.

#537-020-002 File Cleaner, 8K12Q43 ... **\$ 17.99**

ADJUSTABLE FILE/TOOL HANDLE - Grips the entire length of file, and other tangs.

SPECS: Molded handle, steel parts. 4-1/8" (10.5cm) lg, 1" (2.5cm) dia.

#345-890-000 File/Tool Handle, each, 5D6C59 ... **\$ 8.99**

NEEDLE FILE HANDLES

The ONLY Way To Properly Hold & Control Needle Files



Helps the needle file become a part of your hand to control cut direction and eliminate canting. Seat file into hollow handle to any length desired and lock in place with positive-grip collet.

SPECS: 3 1/8" (8cm) long. 1 3/16" (20.6mm) diameter Black plastic.

#249-210-300 Needle File Handle, 9D7J75 ... **\$ 9.99**

- 3 or More - Needle File Handles, per each, 9D5Q99... **\$ 5.99**

RUBBER HANDLE

Contoured, Non-Slip Handle For Comfort & Control



Comfortable, hand filling file handle is formed from molded rubber to absorb vibration and provide a non-slip hold when shaping metal or wood. Improves file control and helps reduce hand fatigue. Flared neck with ribs keeps your hand from sliding forward when you need to really "bear down" on the material. Four removable inserts accept most popular file sizes.

SPECS: Molded rubber, black. 4 1/2" (11.4 cm) long.

#191-000-001 File Handle, 1A5I90 ... **\$ 6.99**

SERIOUS ABOUT FIREARMS SINCE 1939


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SINCE 1939

BROWNELLS. PAGE 450

Office/Tech: 641-623-5401

EZE-LAP DIAMOND NEEDLE FILES

Diamond Impregnated, Needle Files

Incredibly hard, industrial diamond, powder impregnated surface requires very little travel to quickly cut even the hardest materials - carbide, steel, glass or ceramics. 

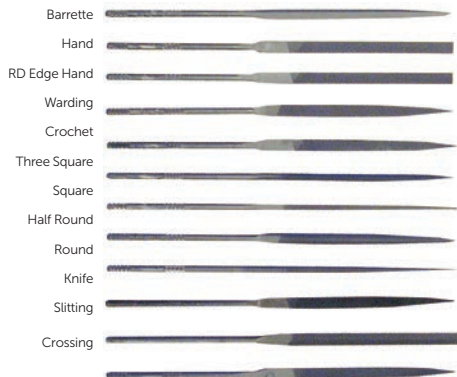
SPECS: Available in either Coarse or Fine grit. Files are 5.5" (14cm) long. Carbon steel shanks are .118" (3mm) dia. Set includes six files: Round, square, three square, half round, flat warding and knife.

- #290-600-100 Eze-Lap 600 Set, Fine, 9B29C65 \$ 41.99
#290-600-200 Eze-Lap 600 Set, Coarse, 9B32H64 44.99

STK# FINE	STK# COARSE	TYPE
#290-600-101	NA	Round
#290-600-102	NA	Square
#290-600-103	#290-600-203	Three Sq.
#290-600-105	#290-600-205	Flat, Ward

- Advise # — Single Eze-Lap, Fine, 9B6F59 \$ 8.49
— Advise # — Single Eze-Lap, Coarse, 9B7C36 8.99

PROFESSIONAL GUNSMITH NEEDLE FILE SET



Finest Professional Gunsmith Quality

Finest Professional Quality Gunsmith Needle Files in set of 12 assorted shapes. Made of best materials to rigid quality standards. Cuts are deep and durable. Knurled handles for no-slip use or convenient lock-up in Needle File Handles shown below. Comes in heavy-duty, see-through, pocketed roll with snap closure. Protects files, yet gives immediate access to shape wanted. Sold in sets or singles.

SPECS: Set contains 1 each of the following shapes: Barrette, Hand, Hand with round edges, Warding, Crochet, Three Square, Square, Half Round, Round, Knife, Slitting and Crossing. Approx. 5 1/2" (14cm) overall length. Shank 2 1/8" (6cm) x 1/8" (3.2mm) dia.

- #249-210-010 Medium Needle File Set, 9D126D20 . . \$ 146.99
#249-210-030 Fine Needle File Set, 9D89B04 129.99

STK# CUT #1	STK# CUT #3	TYPE
#249-211-212	#249-211-231	Hand
#249-213-212	#249-213-231	Three Square
#249-214-212	#249-214-231	Square
NA	#249-215-231	Half Round
#249-216-212	#249-216-231	Round
#249-217-212	#249-217-231	Knife

- Advise # — Needle Files, each, 9D9K91. \$ 11.99

DIAMOND NEEDLE FILES

Fast Material Removal, Incredibly Long Life

Needle files with an extraordinary, industrial diamond cutting surface to cut carbide, hardened steels, and ceramics. Give excellent material removal and long life.

SPECS: 5 1/2" (14.0cm) overall, 2 1/2" (6.3cm) cutting surface. Set includes 5 files, one each: #1D - Equalling, #2D - Half Round, #3D - Round, #4D - Square, #5D - Three-Square.

STOCK #	STYLE	MODEL
#360-339-711	Equalling	#1D
#360-339-741	Square	#4D
#360-339-751	Three-Square	#5D

- Advise # — Needle File, each, 6C25J88. \$ 34.99
#360-339-701 Needle File Set, 6C127F77 \$ 173.99

BROWNELLS THREE SQUARE 60° BENT NEEDLE FILE

Finishes New Checkering; Cleans Up Old - A Classic Tool

For pointing up new checkering and cleaning up old. The only thing to use for getting true, sharp diamonds. Available in three cuts: Coarse - for cleaning out old, dirty checkering; Medium - for pointing up new diamonds; and Fine - also for pointing up new diamonds. Advise cut desired when ordering.

SPECS: 6 1/2" (15.9cm) overall length.

- #080-648-600 Coarse 60° Bent Ndl File, 8K21C84 \$ 27.99
#080-648-602 Med. 60° Bent Ndl File, 8K20Q38 24.99
#080-648-604 Fine 60° Bent Ndl File, 8K21I93 25.99

RAMRODZ 3-PIECE FLAT FILE SET

Ideal For Metal, Wood, & Polymer

Ultra-thin, flexible flat files feature super hard, 400 grit diamond abrasive. Perfect for getting into tight areas, these files are more than 2 1/2 times thinner than others on the market. Each file comes with a high-vis, ergonomic, non-slip handle for a comfortable grip. Set includes a small (6 mm), medium (9mm), and large (15mm) file point. *SPECS:* 400 grit diamond abrasive. 6 1/2" (165mm) OAL. Handles - Orange and black. 

- #100-015-133 3-Piece Flat File Set, 7C24J66. \$ 34.99

BROWNELLS "V" SHAPED 90° BENT NEEDLE FILES

Made Especially To Custom Specs For Checkering

Made for us on special order for gun checkering. Cutting edge of the "V" is 90°, thus eliminating tipping the tool from one side to the other to point-up 90° diamonds. Assures good, positive work. Uniform contact and shape. Back of file is "Safe".


SPECS: 6 1/2" (15.9cm) overall length. Medium or Fine cut.

- #080-648-901 Med. 90° Bent File, 8K23N99. \$ 24.99
#080-648-903 Fine 90° Bent File, 8K25D55. 29.22

RAMRODZ

DIAMOND MICRO FILE SET

12-Piece Set Perfect For Many
Specialty Applications

Versatile, diamond-coated, round micro files feature abrasive diamond coating for durability and precision filing. The 12 piece set contains files ranging from .030" to .120" with duplicates of the .030" and .040" files. Ideal for general parts fitting, deburring drilled holes, cleaning barrel porting, plus much more. Each file is conveniently marked or color coded with the size. Files come in a premium-quality carrying case. 

SPECS: Sizes - .030" (2), .040" (2), .050" (2), .060" (2), .070" (2), .080" (2), .090" (2), .100" (2), .120" (2).


- #100-015-132 12-Piece Diamond Micro Files, 7C34I12 \$ 39.99

ECONOMY NEEDLE FILE SET

Excellent Choice For Occasional Use

Good quality needle files in assortment of 12 different shapes. Recommended for occasional use, or where Professional Gunsmith Files are not needed or justified. Handy, plastic, roll case. Knurled handles fit Needle File Handle. Sold in set only.

SPECS: Set of 1 each: Barrette, Hand, Hand w/round edges, Warding, Crochet, Three Square, Square, Half Round, Round, Knife, Slitting and Crossing. Approx. 5 1/2" long. Shank 2 1/8" x 1/8" dia. Fine Cut.

- #345-475-000 Economy Needle File Set, 5D22E52. \$ 29.99 

AMERICAN PATTERN HAND FILES

Versatile Design For
Shaping

Basic, all-purpose file for dressing, striking off, shaping and metal removing of all types. Parallel in width, taper slightly in thickness. Double-cut sides; one edge is single-cut, other is safe.

SPECS: 8" (20.3cm) - 2 1/2" (19.8mm) wide x 1/32" (5.6mm) thick. 10" (25.4cm) - 3 1/2" (24.6mm) wide x 1/32" (6.3mm) thick.

STOCK #	CUT	PATTERN	LENGTH	PRICE
#191-058-530	Bastard	Amer.	8"	1A12I86 \$ 14.99
#191-058-860	2nd	Amer.	8"	1A10K64 \$ 15.99
#191-058-190	Smooth	Amer.	8"	1A10C85 \$ 16.99
#191-059-680	Bastard	Amer.	10"	1A12A59 \$ 18.99
#191-060-010	2nd	Amer.	10"	1A14E34 \$ 20.99
#191-060-340	Smooth	Amer.	10"	1A15B44 \$ 22.99

SWISS PATTERN OR AMERICAN PATTERN — WHAT'S THE DIFFERENCE?

The differences are subtle. Generally speaking, Swiss Pattern files have longer, thinner tapers; are available in more and finer cuts; and are made to tighter tolerances than American Pattern files. A Swiss Pattern file will generally give a smoother finish. If your work requires fine finishing, and/or you want to buy only one file of a shape/cut, pay the extra cost for Swiss Pattern. However, if your files are used mainly for shaping, used by several other people, or are subjected to harsh conditions, the American Pattern is a better choice - it will do an excellent job while costing less to buy and replace.

AMERICAN PATTERN FILES

Excellent For Finish Work

MILL FILES

Made especially for draw-filing and finishing metals. Taper slightly in width, thickness stays the same over the entire length. Both edges are square. Single cut on sides and edges.

SPECS: 6" (15.2cm), 1/32" (7.1mm) wide x 1/64" (2.8mm) thick. 8" (20.3cm), 3/32" (19.9mm) wide x 1/64" (3.6mm) thick. 10" (25.4cm), 1/16" (24.6mm) wide x 1/32" (4.4mm) thick.

STOCK #	CUT	LENGTH	PRICE
#191-083-540	Bastard	6" (15.2cm)	1A7M52 \$ 8.99
#191-083-850	Second	6" (15.2cm)	1A7G15 \$ 10.99
#191-084-160	Smooth	6" (15.2cm)	1A10Q92 \$ 12.99
#191-084-970	Bastard	8" (20.3cm)	1A9K22 \$ 10.99
#191-085-600	Smooth	8" (20.3cm)	8K8L89 \$ 13.99
#191-086-730	Second	10" (25.4cm)	1A10Q20 \$ 15.99
#191-087-040	Smooth	10" (25.4cm)	1A11Q06 \$ 16.99

LATHE FILES

"The only way to file a barrel in a lathe" - P.O. Ackley. Heavy and stiff, with about twice as much slant on the teeth as a standard file. Produces a shearing cut on the lathe.

SPECS: 10" (25.4cm) 3/32" (24.6mm) wide. 1/4" (6.3mm) thick. 12" (30.5cm) 1/2" (3.0mm) wide. 1/2" (7.1mm) thick.

- #191-076-570 10" Lathe File, 1A14D77 \$ 21.99
#191-076-980 12" Lathe File, 1A19B61 28.99

HALF-ROUND FILES

Choice between flat and curved surfaces. Taper slightly in both width and thickness. Bastard works for wood and metal.

SPECS: Double-cut flat side, single-cut curved side. 8" (20.3cm) long, 3/4" (19mm) wide, 1/32" (5.6mm) thick.

STOCK #	CUT	LENGTH	PRICE
#191-049-600	Smooth	8" (20.3cm)	8K14J89 \$ 21.99
#191-048-960	Bastard	8" (20.3cm)	1A13K24 \$ 18.99
#191-049-270	2nd	8" (20.3cm)	1A13B85 \$ 19.99


AMERICAN PATTERN ROUND FILES

For Smooth, Precise
Metal Removal

American pattern, smooth cut round files allow even, gradual metal removal for an outstanding finish. Available in several different diameters to handle a variety of jobs.

SPECS: Steel, round files. 7 1/2" (15cm) long x 1/8" (3.2cm) or 3/16" (3.9cm) dia.; 9 1/2" (15cm) long x 3/16" (4.7cm), 1/2" (5.5cm), or 1/2" (6.3cm) dia.

STOCK #	DIAMETER	STOCK #	DIAMETER
#191-000-003	1/8"	#191-000-006	1/32"
#191-000-004	3/32"	#191-000-007	1/4"
#191-000-005	1/16"		

- Advise # — Round File, 1A6F71 \$ 7.99 

SWISS PATTERN PILLAR FILES

Four Widths For Precise Final Filing

STANDARD PILLAR FILES - SWISS PATTERN

Similar in shape to the Hand Files, but only about two-thirds as wide. Double-cut on sides; edges are safe. Swiss Pattern.
 SPECS: 4"(10.2cm) #0 & #2 cut, ³/₁₆" (9.1mm) wide x ⁷/₁₆" (2.8mm) thick.
 6" (15.2cm) #00, #0 & #2 cut, ³/₁₆" (11.9mm) wide x ⁷/₁₆" (3.6mm) thick.
 8" (20.3cm) #00, #0, #2 cut, ³/₁₆" (15.5mm) wide x ⁷/₁₆" (5.2mm) thick.

STOCK #	CUT	LENGTH	PRICE
#191-398-610	#0	4"	1A15F24 \$ 21.99
#191-398-730	#2	4"	1A21D31 \$ 24.99
#191-398-990	#0	6"	1A16A90 \$ 21.99
#191-399-290	#00	8"	1A22A94 \$ 35.99
#191-399-350	#0	8"	1A31D93 \$ 36.99
#191-399-470	#2	8"	1A24B71 \$ 38.99

NARROW PILLAR FILES - SWISS PATTERN

Same shape as Pillar. Double-cut on sides; edges safe.
 SPECS: 6" (15.2cm) long. #0 cut, ³/₁₆" (9mm) wide x ³/₁₆" (3.6mm) thick.
 #191-400-760 6" Narrow Pillar File, 1A18D27. \$ 27.99

EXTRA NARROW PILLAR FILES - SWISS PATTERN

Considered the standard gunsmithing file. "Safe" on both edges so you can cut right up to faces without undercutting the sides of your work. Swiss Pattern.
 SPECS: 8" (20.3cm) long. #00 Cut ³/₁₆" (7.1mm) wide. ³/₁₆" (3.6mm) thick. #0, #2, #4 Cut ¹/₁₆" (6.7mm) wide. ³/₁₆" (3.2mm) thick. All taper slightly in thickness.
 #360-312-121 Extra Narrow Pillar File, #00, 6C30L27. . . \$ 45.99
 #360-312-131 Extra Narrow Pillar File, #0, 6C33D25. . . 48.99
 #360-312-151 Extra Narrow Pillar File, #2, 6C36F08. . . 50.99
 #360-312-161 Extra Narrow Pillar File, #4, 6C42P12. . . 59.99

VERY EXTRA NARROW PILLAR FILES - SWISS PATTERN

#0 cut is for fast removal in soft metals, works beautifully for wood, too. #2 cut is ideal for rear sight notch adjustments, extractor/ejector groove relief, final fitting of fine parts.
 SPECS: 4" (10.2cm) long. ³/₁₆" (4mm) wide. Thickness tapers slightly from ³/₁₆" (1.2mm).
 #360-312-021 #0 Very Extra Narrow Pillar File, 6C20K58. \$ 27.99
 #360-312-041 #2 Very Extra Narrow Pillar File, 6C22F24. 29.99

SWISS PATTERN PARALLEL ROUND FILE

True Holes & File Tight Curves, Accurately

Chisel-cut teeth give fast wood or metal removal. Perfect for adjusting screw and pin holes, and making fine cuts on tightly curved parts. Ideal for 1911 auto barrel lug holes.
 SPECS: 6" (15.2cm) long. ³/₁₆" (4.8mm) diameter. #2 cut.
 #360-313-231 #2 Cut Parallel Rd File, 6C26M29. \$ 38.99

SWISS PATTERN BARRETTE FILES

For Fine Detail Work

Made for getting into tight places. Flat side has double-cut teeth; no teeth on back and beveled, 33° angle edges. Taper from maximum width shown below, to long point.
 SPECS: 4" (10.2cm) - ¹/₂" (12.7mm) wide. #0 or #1 cut. 6" (15.2cm) - ¹/₁₆" (17.5mm) wide. #0, #1 or #2 cut.

#191-350-310 4" Barrette #0 Cut, 1A21C20. \$ 29.99
 #191-350-370 4" Barrette #1 Cut, 9D19K56. 29.99
 #191-350-610 6" Barrette #0 Cut, 1A32P70. 37.99
 #360-310-291 6" Barrette #1 Cut, 6C29H01. 42.99
 #191-350-730 6" Barrette #2 Cut, 1A25N48. 38.99

HALF-ROUND VULCANITE FILE



4 Cutting Faces In One File

Once you've tried this file, you'll know why folks love it. Gives you 4 different cutting faces: half-round bastard, flat bastard, half-round 2nd cut and flat 2nd cut. Because of special shape, you can get into places easily where a square-ended file just won't fit. Fantastic for shadowline cheekpieces, shaping combs or schnablen, inletting bolt knobs, around the wrist, tang and grip. Great on hard rubber, soft metals, plastics and wood.
 SPECS: 8" (20.3cm) long. ¹/₂" (12.7mm) wide and tapers to ³/₁₆" (3.2mm) at the points.
 #360-313-841 1/2 Round Vulcanite File, 6C40M60. \$ 53.99



METAL CHECKERING FILES



Dead-On Spacing For Grip Frames, Hammer Spurs and More

The only way to get true, accurate line spacing when checkering backstraps, triggerguards, grip frames, ribs and hammer spurs; anywhere an improved gripping surface is needed. Finer cuts give a nice matting effect to reduce glare and light distortion. Layout your master lines (or use a guide like our 45 Checkering Guide), establish the pattern by moving the file a few teeth each time using the previous lines as the guide. Once the pattern is fully laid out, bring to final depth with a 60° needle file.
 SPECS: 8" (20.3cm) length x ¹/₂" (12.7mm) wide. Cutting area: 6" (15.2cm) x ¹/₂" (12.7mm).

STOCK #	LPI	PRICE
#080-310-401	20 (#00)	6C38F20 \$ 49.99
#080-000-177	25 (#00)	6C69H33 \$ 75.99
#080-310-411	30 (#0)	6C37C97 \$ 49.99
#080-310-421	40 (#1)	6C38N92 \$ 51.99
#080-310-431	50 (#2)	8K39G65 \$ 53.99
#080-310-451	75 (#4)	8K54C55 \$ 54.99

SHOP TWEEZERS

So Universal - Always A Use
 SPECS: 6 1/4" (17.1cm) long Nickel plated.
 #345-415-634 Angle-point Tweezers, 5D9K08. \$ 10.99

SCREW HEAD FILES

Cut New Slots Or Re-Cut Old Ones, The Right Way

High-quality, steel files designed for one purpose only - to cut perfectly square screw slots every time. #7, #9, and #11 files cover the most common slot sizes. Smooth-sided to cut only on the edge. Will not widen the slot as it deepens, or damage the screw head. Cleans up marred slots on hard to replace screws or cuts slots in new screws. Use with Needle File Handles. These files are very thin for precise cutting. Sorry, cannot guarantee against bending or breakage. Sold individually or as a set.
 SPECS: 5 1/4" (14.6cm) long overall. Shank is 1 1/2" (3.8cm) long. Thickness: #7 - .027" (.69mm), #9 - .035" (.89mm), #11 - .043" (1.1mm). Set includes one each, #7, #9, #11 files.
 #249-103-270 #7 Screw Head File, 9D27N46. \$ 37.99
 #249-103-290 #9 Screw Head File, 9D27H07. 36.99
 #249-103-211 #11 Screw Head File, 9D23G11. 35.99
 #249-000-001 Screw Head File Set, 9D78Q02. 122.99

SCREW SLOT FILES

Two Precision Styles For Perfect Custom Slots

Making screw slots is a delicate operation and only the finest, most precise files will do. These are the ones! Six sizes and two styles let you cut even the super-thin European slots. Doing the job right takes both a **Joint File** that cuts only on the edges and won't widen the slot as it deepens, and an **Equalling File** to clean up the slot sides and square the bottom. **Master Screw Slot Set** with 12 files covers almost any slotting job. Plus, some files also available individually or in matched, same-size pairs of 1 Joint and 1 Equalling. **NOTE:** These files are very thin and easily bent or broken. Sorry, cannot guarantee.
 SPECS: 5 1/2" (14.3cm) long. Both Joint and Equalling Files of the same No. are the same thickness. **Master Set** contains Joint File and Equalling File in each of the following thicknesses (total of 12 files): #1 (.012"), #2 (.016"), #3 (.021"), #4 (.025"), #5 (.032"), and #6 (.032").
 #249-107-000 **Master Slot File SET**, 9D319P01. \$ 455.99
 #249-110-197 #3/.021" File Pair, 9D50M31. 73.99
 #249-108-197 #3/.021" Joint File, 9D31K97. 36.99
 #249-110-236 #4/.025" File Pair, 9D74B96. 88.99
 #249-108-236 #4/.025" Joint File, 9D34I78. 40.99
 #249-109-236 #4/.025" Equalling File, 9D40M18. 47.99
 #249-110-315 #5/.032" File Pair, 9D54K26. 73.99
 #249-110-394 #6/.040" File Pair, 9D74H95. 88.99

BROWNELLS SCREW SLOT FIXTURE



The Secret To Getting Perfectly-Centered Screw Slots, Every Time
 Heat-treated, steel fixture makes it possible to cut screw slots precisely in the center of the head. Simplifies fitting new screws to a custom gun or recutting/repairing some on a classic. Clamping thumb screw locks the gun screw in the exact position you want; two sets of roller pins guide your saw or slotting file during cutting to produce screw slots with a look of true class.
 SPECS: Heat-treated steel, black, oxide finish. 2" (5.1cm) long, 1 1/4" (3.2cm) wide, 1/4" (22.2mm) high. For use with .025" thick files and blades.
 #080-000-082 Screw Slot Fixture, 8K49B99. \$ 52.13

BROWNELLS SIGHT BASE FILES

The Professional Way To Safely Widen Or Cut New Dovetails

60° - STANDARD SLOT

Specially manufactured, true parallel, 3-square file with only one side cutting - other two sides "safe". This means the file can be used to widen dovetail slots in gun barrels without danger of deepening the slot or damaging the edge not being worked on. Being a true parallel file, you have absolute control over the angle of the dovetail - impossible with other type files.
 SPECS: 7" (17.8cm) long. .284" (7.2mm) wide. #1, medium, doublecut. #2, fine, single-cut.

#080-648-160 #1 60° Sight Base File, 8K36H14. \$ 49.99
 #080-648-060 #2 60° Sight Base File, 8K36K14. 46.99

65° - 1911 AUTO-TYPE SLOT

Designed especially for widening and final fitting after using our 65° Sight Base Cutter to cut the basic slot. Or, can open up a 60° slot to proper 65° angle if changing to a new sight design. Has true parallel cutting edges for precision filing, giving you full control over the angle of the dovetail. One cutting side only, with the other two sides "safe", so you can widen or deepen sight slots safely without fear of changing the other dimensions.
 SPECS: 7" (17.8cm) long. ³/₁₆" (4.8mm) wide. #1, medium, doublecut. #2, fine, single-cut.

#080-648-165 #1 65° Sight Base File, 6C32F96. \$ 35.50
 #080-648-265 #2 65° Sight Base File, 8K34B57. 39.99

PATTERNMAKERS' CABINET RASPS



Favorite Of Professional Stockmakers For Shaping & Finishing

The famous Nicholson Shoemakers' and Patternmakers' Cabinet Rasps made especially for wood filing where a smooth finish is desired. Comes in two cuts, second or smooth, 10" long cutting surface. Rasp is half-round shape, but slightly wider than usual with wider radius also. Edges are cut (have teeth) and taper slightly from tang to front. We have been looking for these for many years at the suggestion of many, many good gunsmith and stockmaker customers and friends. The unusual tooth design eliminates most "filling" problems, does not gouge into wood or snag cross-grain. Probably the most useful wood rasp for "almost final" shaping and finishing. Teeth are coarser than the Wood Files.

SPECS: 12 1/8" (19cm) overall length. ³/₁₆" (22.2mm) wide, tapers to ⁷/₁₆" (11.1mm). #49 is second cut, #50 is smooth cut.
 #191-188-460 #49 Cabinet Rasp, 1A42E21. \$ 56.99
 #191-188-610 #50 Cabinet Rasp, 1A50D12. 67.99

PACKING HOOK & SCRIBE



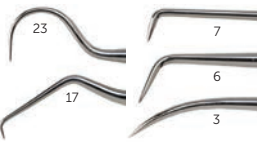
Button-Hook End Great For Springs & Things

Use instead of no-longer-available button-hook when fastening, releasing or locating springs and small parts.
 SPECS: Overall length, 7" (17.8cm). Made of tool steel.
 #197-654-200 Packing Hook #3031, 5F11B29. \$ 14.99

STAINLESS STEEL DENTAL TOOLS

Hundreds Of Uses; Surgical Stainless Steel

EXPLORERS - Attach springs, position parts, remove gunk. *SPECS:* 6 1/2" (16.5cm) long. Wt. approximately 1/2 oz. (14g) each. 5 different shapes. Set contains one of each.



- #700-410-003 #3 Dental Explorer, 7Z5G82 \$ 7.99
- #700-410-006 #6 Dental Explorer, 7Z5N82 7.99
- #700-410-007 #7 Dental Explorer, 7Z5H82 8.99
- #700-410-017 #17 Dental Explorer, 7Z5P62 7.99
- #700-410-023 #23 Dental Explorer, 7Z5K31 7.99
- #700-410-000 Dental Explorers Set, 7Z28B42 36.99

SCALERS - Stronger than Explorers. *SPECS:* 6" (15.2cm) long, weight approx. 1/2 oz. (14g) each. 2 end shapes available: #15 - Straight Shank or #16 - Bent Shank. Single-ended.



- #700-401-516 #16 Dental Scaler, 7Z10H11 \$ 14.99
- #700-401-515 #15 Dental Scaler, 7Z9L98 14.99

S-4 SCALERS - Much stronger than the other Scalers or Explorers. *SPECS:* 7" (17.7cm) long. Wt. 1/2 oz. (14g). Double-ended.



- #700-401-004 Scaler #S-4, 7Z12H37 \$ 17.99

GRACE HOOK AND PICK SET

Great For Getting Into Tight Spots



Six piece set has both pointed picks and hooks to aid in removing parts from deep inside a gun, and more importantly, getting them back into place during reassembly. The tough, steel tips extend 3" beyond the handle to give plenty of reach and the grooved and faceted handles give excellent control for

handling small or delicate parts. *SPECS:* Steel, blued shanks. Wooden handles. Set of 3 picks and 3 hooks.

- #100-011-441 Hook & Pick Set, 4E19P95 \$ 24.99

ENCO INSIDE DIAL CALIPER

Measures Inside Dimensions Of Barrels & Chokes



Accurately measure chambers, choke tubes, bores and various other inside dimensions. Dial is graduated to handle measurements from .375"-1.375" with .001" accuracy. Bezel locking screw lets you set zero for comparative measurements. Ball bearing contact points deliver repeatable measurements every time. *SPECS:* Aluminum housing, steel arms. 5.3" (13.6cm) OAL, 2" (5cm) diameter dial.

- #100-002-230 Inside Dial Caliper, 9D124K44 \$ 140.77

LYMAN DIAL CALIPER

High-Quality Stainless Steel At A Moderate Price



Provides inside, outside, depth and step measuring at a very reasonable price. Rugged stainless steel body and jaws, slide graduated in .100" increments up to 6". Clear, easy-to-read, black-on-white dial is single revolution per .100", graduations in .001". Includes thumb roller, slide lock, and case. *SPECS:* Approximately 9 1/2" (24cm) long, 1 1/4" (3.8cm) diameter dial. 9 1/2" x 3 1/2" (8.8cm) x 1" (2.5cm) case.

- #539-832-212 Lyman Dial Caliper, 5K31L49 \$ 33.99

LYMAN DIGITAL CALIPER

Direct, Digital Readout In Both Inches & Millimeters



Easy-to-see, LCD digital readout takes the guesswork out of measuring. Gives inside, outside and depth functions. Manual on/off switch. Push button zero allows pre-selection of a zero dimension and plus or minus comparison for sorting of parts based on variation. Single toggle button and dual beam graduations give instant inch and millimeter conversions. Reads to 6" / 150mm with .0005" / .01mm resolution and .001" / 0.1mm accuracy. *SPECS:* Stainless steel beam, jaws and rollers. 9 1/4" (23.4cm) long. Includes foam-padded, plastic case and battery.

- #539-832-218 Lyman Digital Caliper, 5K32A49 \$ 38.99

MITUTOYO DIGIMATIC CALIPERS

Incredible Value In An Electronic, Direct Reading Caliper; Two Sizes To Choose From



Ready to measure right out of the box, no programming. Open jaws with the smooth-feel thumb wheel and read the LCD display. No reading "between the lines!" If you want to compare dimensions, reset the zero anywhere on the scale, caliper will give plus/minus readings. Close and reset zero and it's a regular caliper again. Graduations also marked on the beam for a quick manual check. No rack and pinion to get dirty, no delicate glass scale. Reads to .0005" / 0.01mm; (Five, TEN thousandths). Accurate to .001" (0.02mm). *SPECS:* 9 1/8" (23.1cm) overall. Stainless steel. Plastic hard case; includes battery.

- #606-000-001 8" Digimatic Caliper, 6K00IF1 \$ 219.99

STARRETT DEPTH MICROMETER

For Accurate Checking Of Slots & Grooves



Unique, flat rod fits into slots and grooves as narrow as .045" and measures depth from 0" to 3". Rotates, doesn't turn with the spindle, can't "walk" or roll off an edge. Reads to .001". *SPECS:* 2 1/2" (6.3cm) long x .403" (10.2cm) wide base. Includes three .125" (3.2mm) wide x .0445" (1.1mm) thick rods. Satin, chrome plated.

- #827-523-180 Starrett Depth Mic., 7B296M59 \$ 313.99

IGAGING CALIPERS & OTHER MEASURING TOOLS

Accurate, Well-Made & NOT Priced To Wipe Out the Checking Account

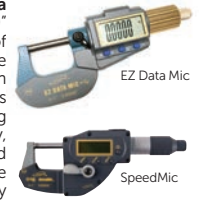


iGaging offers an extensive line of measuring instruments, highly useful on the workbench or the reloading bench, starting with a variety of calipers. All the calipers listed here are accurate to .001", with .0005" repeatability. You can get your readout in decimal inches, mill-meters, or old-style fractional inches. The main body of each iGaging caliper is machined from hardened stainless steel, with lapped measurement surfaces to ensure precision accuracy. Housing for the electronics and readout screen is IP54-rated for resistance to water, dust and oil, so you'll keep getting highly accurate measurements even in adverse environments. All run on one CR-2032 lithium button cell. The EZ Cal is a straightforward, easy-to-use caliper with a big digital readout that will measure items from 0" to 6", an like the other calipers here is accurate to .001", with .0005" repeatability.

The OriginCal delivers the exact same 0" to 6" measurement range, output formats, and accuracy as the EZ Cal AND adds Absolute Encoding Technology to transmit data directly to a computer via its data output port and the iGaging DataConnect Kit (sold separately below), recording your measurements without risk of transcription errors. It's an absolute origin caliper, so it always "remembers" where it is in relation to its set zero or origin point - a mark of superb accuracy. Same IP54 resistance to water, dust and oil as the EZ Cal. Manufactured to ISO 9001 standard, meets DIN Standard 862. The Internal Slot OriginCal goes where ordinary calipers can't. Most calipers are capable of making some internal measurements - unless the area in question is too small, like the internals of firearms. That's where this caliper takes over. Like the standard OriginCal, it is an absolute origin caliper, with the same 0" to 6" measurement range, IP54 rating, AND compatibility with the iGaging DataConnect Kit.

- #100-032-900 EZ Cal Digital Calipers, 9Z22K49 \$ 24.99
- #100-032-901 OriginCal Digital Calipers, 9Z35I99 39.99
- #100-032-902 Internal Slot OriginCal Digital Calipers, 9Z50P39 55.99

DIGITAL MICROMETERS - The EZ Data Micrometer measures objects from 0" to 1" (0-25mm), with an accuracy of .000015" (.003mm). The readout on the extra-large, easy-to-read digital screen can be set to inches or metric, and there's an SPC data output port for sending readings straight to a computer. Handy, click-sound ratchet stop, plus anodized aluminum thimble and hardened carbide measuring surfaces to preserve accuracy and ensure a long service life. Housing is IP54 rated for resistance to water, dust, and oil.



The Origin SpeedMic measures objects from 0" to 1" (0-25mm), with an accuracy of .00015" (.003mm) and a repeatability of .0005" (.001mm). It's an absolute origin device, so it always "remembers" where it is in relation to its set zero or origin point - a mark of superb accuracy. The large digital readout is easy to see, and there's a data port so it is compatible with the iGaging DataConnect Kit (sold separately, below) for sending readings directly to your computer without risk of human error. Readout can be set to imperial or metric units, and the housing is rated IP65 to resist incursion of contaminants.

- #100-032-905 EZ Data Digital Micrometer, 9Z42C29 \$ 46.99
- #100-032-903 SpeedMic Digital Micrometer, 9Z92J69 102.99

ANGLECUBE - This is the high-precision relative of the classic carpenter's angle meter - except it's accurate to .2°, and readings are repeatable to .1°. It can indicate angles up to 90°, but of course it's main benefit telling you when a surface is completely level and free of any bevel or tilt? A USB charging cable is included for keeping the



MITUTOYO DIGIMATIC MICROMETER

Electronic; Direct Reading To 50 Millionths; Programmable



No programming needed to start measuring all the way down to .00005" (50 millionths!). User programmable to do all sorts of comparative measurements... compare multiple pieces to one original or set the desired dimension as zero and compare all pieces to that. Full, black-filled thimble and sleeve markings so can be used even if the battery runs out. Instant conversion from inch to millimeters. *SPECS:* 5 1/4" (14.6cm) long x 2 1/8" (6.7cm) high. Carbide tipped measuring faces. Reads 0-1" (2.5cm), 0-25mm. Accurate to .00005" (.0013mm). W/case.

- #606-293-705 Digimatic Micrometer, 6K171C67 \$ 179.99

STARRETT 6" DIAL CALIPER

U.S. Made - Professional Quality



A precision tool that handles all the required measurements; inside, outside, depth and steps. Stainless steel frame and slide, including the "down-pointing" rack teeth that shed dirt and chips. Dial registers .100" per revolution, the wide graduations give fast, easy reading. Available with a White Face with black marks, Black Face with white marks or Red Face with white marks. Satin finish with deep, recessed, black-filled scale markings. Fast adjusting thumb wheel. Knurled lock for jaw and dial. *SPECS:* 9" (22.9cm) long, 3" (7.6cm) high, 1 1/4" (3.5cm) diameter dial. 10" (25.4cm) x 4" (10.2cm) x 1" (2.5cm) padded, plastic case.

- #827-559-100 White Face Caliper, 7B219N59 \$ 258.99
- #827-559-101 Black Face Caliper, 7B221F04 256.99
- #827-559-102 Red Face Dial Caliper, 7B221N12 256.99

internal battery charged up; data output to your computer is via the iGaging DataConnect Kit (sold separately). Rare earth magnets ensure the AngleCube can be attached to all sorts of ferric metal surfaces for precise readouts. Large, easy-to-read, backlit LCD display, rugged military-grade anodized aluminum-alloy housing (IP54 rated to resist water, dust, and oil incursion), and it automatically shuts off after a period of non-use to preserve battery life.

- #100-032-908 AngleCube, 9Z31J49 \$ 34.99

DIGITAL DEPTH GAUGE - Measures the depth of slots, grooves, steps, and other depressions up to 22" deep, accurate to +/- .001", with a resolution of 0.0005". Results appear on the big LCD display and can be presented in decimal inches, fractional inches, or metric. Meets all AGD and federal accuracy standards, and the gauge can be placed on either the side of the center of the base. Comes with 4 feeler points and 6 extension rods (1", 2", 3", 4", 5" & 6") that can be screwed together to get the max 22" depth capacity.

- #100-032-907 Digital Depth Gauge, 9Z62P09 \$ 68.99

DATACONNECT KIT - The data ports on the iGaging tools listed above are configured to output through this device - straight to your computer, eliminating the time-consuming chore of recording and logging (and possibly entering incorrectly) individual measurements. The DataConnect enables pushbutton recording of measurements from a range of iGaging tools, including their digital calipers and micrometers, and the whole system is compatible with both Excel and CAD software programs.

- #100-032-910 DataConnect Kit, 9Z60H29 \$ 66.99



Orders: 800-741-0015

order on the web
brownells.com

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MITUTOYO FEELER GAUGES

26 Precision-Ground Leaves



Precision made feeler gauges feature long tapered leaves to get into tight spots better than straight-sided leaves. Each leaf is clearly marked for size. Individual leaves may be removed for special applications.

SPECS: Steel. Tapered leaves. Inch - 26 leaves. 3" (7.6cm) long. .015" and .025", .002" to .020" in .001" steps. Metric - 28 leaves.

3.9" (10cm) long. .05mm to .14mm in .01mm steps. .15mm to 1mm in .05mm steps.

- #606-950-252 Inch Feeler Gauge, 8K28164. \$34.99
#606-184-313 Metric Feeler Gauge, 6K69CQ66 74.99

THREAD PITCH GAUGE

Three Tools Measure Most Standard World-Wide Threads



Straight gauges in three size ranges and three styles. All steel. Precision cut threads for accurate measuring. Sizes permanently stamped into each leaf.

SPECS: English - 28 blades, 4 to 80 tpi; Metric - 24 blades, 60°; British (BSW) - 28 blades, 55°

- #493-480-028 English Thread Pitch Gauge, 3D11K66 . . . \$13.99
#592-690-024 Metric Thread Pitch Ga., 2E9M41 14.99
#592-769-000 BSW Thread Pitch Gauge, 2E11K48 16.99

BROWNELLS SCREW CHEK'R™

Identifies Threads Plus Gives Drill & Tap Sizes



Tells size, threads-per-inch, diameter, length, tap series, body drill size, and tap drill for machine screws; use to check size of wood and sheet metal screws plus standard rivets. Covers all standard sizes, including 6-48. Use to cut unhardened screws to length, straighten bent screws or battered threads.

SPECS: Hardened steel, satin chrome plated. 3" (7.6cm) x 5" (12.7cm). With instructions. **U.S. Thread Model** - Checks #1 through 7/16" in NC, NS, and NF threads. 3" (7.6cm) x 5" (12.7cm). **Metric Thread Model** - Gives diameter and length in inches and mm, pitch in mm, plus tap and clearance drills for metric screws from 2mm to 7mm.

- #080-670-001 U.S. Screw Chek'r, 1A10Q94 \$14.99
#080-670-002 Metric Screw Chek'r, 1A12I70 19.99

DONEGAN OPTICAL VISOR LIGHT™

Improves Visibility For Detail Work



Hands-free light clips to OptiVISOR and directs bright light right where you look. Vertical swivel adjustment lets you aim the light precisely. Self-contained battery pack clips to the headband.

SPECS: Uses 2 AA batteries, not included. 1 spare bulb included.

- #255-000-001 Visor Light, 5E21L63 \$27.99

GRADIENT LENS HAWKEYE® BORESCOPE

Gets You Close Enough To Take A Really Good Look



Fully-coated optics, fiber optic illumination and 25x magnification provide a close-up view of rifling, crown, breech, chamber, lock work or any critical firearm component. Even inspect empty cases for signs of separation. Variable intensity, LED light emitter powered by two AA batteries (included) provides a true color image of the surface under inspection. Adjusts to focus from 1mm to infinity. Optic tube fits .17 caliber bores when used without mirror attachment.

SPECS: Illuminator - aluminum body, black, anodized finish. Includes batteries and spare bulb. Eyecup - aluminum, black, anodized finish. Optic Tube - stainless steel, .165" (4.2mm) diameter. Fits .17 cal. and larger. Includes instructions.

STOCK #	LENGTH	MODEL	PRICE
#338-110-007	7"	Slim	8C708D73 \$ 773.99
#338-110-017	17"	Slim	8C847M69 \$ 918.99

SLIM BORESCOPE KIT - Money saving kit features an adjustable focus, 17" Borescope, light source and a 90° Mirror Attachment for close-up, direct viewing of bore, chamber, throat and crown. Everything packed in an all aluminum carry case. Includes lens cleaning solution and instructions.



- #338-115-017 17" Slim Kit, 8C785F64 \$ 789.99

90° MIRROR ATTACHMENT FOR SLIM BORESCOPES - Permits direct viewing of barrel sides from chamber to crown.

SPECS: .189" (4.8mm) dia., for bores .223" (5.56mm) or larger.

- #338-009-017 17" Slim 90° Attachment, 8C137E02 . . . \$ 139.99

22" BORESCOPE KIT - Contains a 22", fixed-focus Borescope, Mirror Tube, variable-intensity SuperNOVA light with an LED lamp, custom condenser lens, recharger, and hard carry case. Instructions and lens cleaning solution included.



- #338-000-004 22" Borescope Kit, 8C1498E38 \$ 1638.99

7" & 17" 90° GUNSMITH BORESCOPE KIT - includes both a 7" optic tube and 17" optic tube with built-in 90° mirror for a close-up view of rifling, crown, breech, chamber or any critical firearm component. Adjustable focus from 1mm to infinity. Includes two, variable intensity Mini-Maglite flashlights with LED lamps. Aluminum case with locking clasps provides secure storage. Includes AA batteries, lens cleaning solution, and instructions.



SPECS: .189" (4.8mm) dia., for bores .223" (5.56mm) or larger.

- #338-000-005 7" & 17" 90° Gunsmith Borescope Kit, 8C1510E69 \$ 1634.99

BORESCOPE CASE - All aluminum case; attaché-style handle and locking clasps. Accepts Borescope, Mirror Attachment, Mini-Maglite source and two spare AA batteries.



- #338-020-000 Hawkeye Carry Case, 8C128A18 \$ 128.99

ANGLED EYEPIECE - 90° eyepiece attaches to borescope eyecup, lets you look down the bore without straining your neck. Rotates a full 360° for easy viewing in hard to get at locations. Internal, 45° mirror turns the image by 90°.

- #338-000-001 Angled Eyepiece, 8C251J48 \$ 272.99

LYMAN BORECAM PRO



A Borescope that Works With Your Smart Phone To Show You What's Going on Inside the Barrel

Lyman's Borecam Pro borescope puts video barrel inspection into the hands of the average shooter, as well as the seasoned professional. The wireless Borecam Pro sends super-clean and detailed images via Wi-Fi directly to your smart phone or tablet device - no wires or cumbersome monitors for you to wrangle. You can inspect bores

for wear, throat erosion, tool marks, and other rifling damage, as well as copper or lead fouling buildup. The Borecam Pro will fit into a bore as small as .20 caliber and is equipped with a 24" rod for inspecting those long-range target rifles. In addition to taking as many still photos as you need, the Borecam Pro also produces sharp, clear real-time 720p high-def videos. The easy-to-use phone app makes storing and retrieving photos and videos later a simple, intuitive process. Apps are available for iOS and Android phones and tablets.

- #539-000-205 Borecam Pro, 5K275I00 \$ 299.99

LYMAN BORECAM™ DIGITAL BORESCOPE

Lyman's precision borescope lets you carefully inspect rifle and handgun barrels for wear, throat erosion, tool marks, and other rifling or chamber damage, as well as check for excessive fouling buildup. The 22" long rod reveals a complete view of interior conditions. Miniature digital camera technology and bright lighting combine to provide crisp, clear images on the portable display screen. Capture and save photos to a standard SD memory card for referencing later on a computer, laptop, or mobile device. Fits .20 caliber and larger.



- #100-018-221 Borecam Digital Borescope w/Monitor, 5K259H99 \$ 299.99

LUXO LAMP KFM-1A

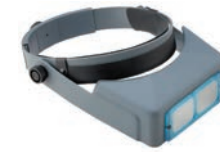
Magnifies - Illuminates, Brings Hard Jobs Into Focus



Serves double-duty as an illuminated magnifier and as a shadow-free fluorescent bench light. 5" diameter, ground and polished, optical glass, magnifying lens set in the center of the all-metal, doughnut-shaped, lamp head. Suspended on 45" long, internal spring-tensioned adjustable arm, the head can be moved into high position for light only, or lowered for use as illuminated magnifier. 1-3/4X magnification at a working distance of 13", ideal for working on hard-to-see small parts, engraving or checkering. On/off switch in lamp head. Heavy duty metal clamp secures lamp to bench or desk top. Fluorescent tube included.

- SPECS:** 45" (114.3cm) long adjustable arm. 5" (12.7cm) dia. lens.
#538-100-002 Luxo KFM-1A, 8C316M92 \$ 416.99

DONEGAN OPTICAL OPTIVISOR



Continuous Headband; Dial Adjustable

DIAL ADJUSTABLE CONTINUOUS HEADBAND - Specially formed to fit. A simple twist of the adjusting dial changes head size. Sealed-in mechanism is self-locking and trouble-free. Gives better balance and even more comfort.

IT TILTS - Adjustable pivots make the OptiVISOR unique - and the most handy magnifier yet. It's up, out of the way of normal vision when not in use, and there at your fingertips when you need it for magnified pinpoint clarity back at the job.

CONFORMING HEADBAND - Of electrically nonconductive ABS material. Designed to fit and locate the scope in a natural, comfortable position. Total weight just 4 oz. So light you hardly know it's there.

GENUINE LEATHER COMFORT BAND - Padded with orthopedic felt, making the OptiVISOR the most comfortably worn magnifier available.

ABS HI-IMPACT VISOR - This tough, durable material is practically indestructible, yet always keeps its new appearance.

OPTICAL GLASS LENSES - Ground and polished to precise optical standards. Beveled edges and mounted in interchangeable plastic frames. Five scientifically computed prismatic powers are available for use with any OptiVISOR.

FITS OVER REGULAR GLASSES - No need to take them off with the OptiVISOR.

SPECS: No. 2, 1 1/2 X at 20" (51.0cm); No. 3, 1 1/4 X at 14" (35.6cm); No. 5, 2 1/2 X at 8" (20.3cm); No. 7, 2 1/4 X at 6" (15.2cm); No. 10, 3 1/2 X at 4" (10.2cm).

- #255-002-000 No. 2 OptiVISOR, 5E43G80 \$ 56.99
#255-003-000 No. 3 OptiVISOR, 5E43B80 56.99
#255-005-000 No. 5 OptiVISOR, 5E43Q80 56.99
#255-007-000 No. 7 OptiVISOR, 5E47E46 61.99
#255-000-000 No. 10 OptiVISOR, 5E48K14 61.99

EXTRA LENS PLATES

- #255-002-020 No. 2 Lens Plate, 5E28C05 \$ 35.99
#255-003-030 No. 3 Lens Plate, 5E28A05 35.99
#255-005-050 No. 5 Lens Plate, 5E28K05 35.99
#255-007-070 No. 7 Lens Plate, 5E28H25 37.99
#255-010-100 No. 10 Lens Plate, 5E32E40 39.99
#255-303-001 New-style Comfort Band, (plastic tab attachment), 5E15G31 19.99

OPTILOUPE - Easily attached to any OptiVISOR. Gives up to 6X magnification. Pivots out of way.

SPECS: Screw-on attachment.
#255-001-600 OptiLOUPE, 5E9J98 \$ 13.49



INSPECTION ACCESSORIES

MAGNIFIER - Compact, folding pocket magnifier. Double lens system gives combined 8X. Get a closer look at anything.

SPECS: 1 1/4" (3.2cm) diameter glass.
#345-534-002 Double Lens Magnifier, 5D12K33 \$ 16.99



LOUPES - Instantly turns prescription or safety glasses into magnifiers for close up work. Pivots out of the way when not needed. Attaches to either right or left side. Precision-ground optical glass.

- SPECS:** 24mm dia. 3X magnification, 3 1/2" (9cm) focal length.
#255-300-003 3X Loupe, 5E19C11 \$ 25.99



**GUARANTEED. FOREVER.™
SINCE 1939**

MAGNIFYING SAFETY GLASSES

Split 2x Magnification Helps Reduce Strain & Eye Fatigue



Safety glasses with two separate zones of 2x magnifying across the top and bottom of each lens and a non-magnifying center section provide protection when prescription glasses can't be worn. High-impact polycarbonate lenses and lightweight nylon frame provide unobstructed peripheral vision. Clear, scratch-resistant lenses provide 99.9% UV protection, and meet or exceed ANSI Z87.1+2003 impact protection standards.

SPECS: Nylon frame and earpieces, black; clear polycarbonate lenses.

#368-000-001 2x Safety Glasses, 8F24K18 \$ 31.99

BORE TECH BORE BRIGHT



LED Light Shines Brightly In Your Bore

Versatile bore light powered by a Streamlight® Stylus

3 flashlight and a fiber optic diffuser provides a soft, blue/white light that evenly illuminates the bore. A magnet holds the light on the receiver for hands-free viewing, while the flexible fiber optic rod reaches deep inside actions. Dual-mode control switch gives momentary-on or steady-on output.

SPECS: Aluminum body, black. 6 1/2" (16.5cm) long. Uses (3) AAAA batteries. Delrin® diffuser and adapter.

#509-000-017 Bore Bright, 9K51I49 \$ 53.99

MILITARIA AAA BATTERY BORELIGHT

Illuminates Bore For Easy Inspection



Bright, compact LED light helps to ensure your gun is clean and obstruction-free before storage or operation. A removable 90°, fiber-optic extension piece illuminates barrels, action recesses, or other hard-to-see areas. Push-button tail piece activates the high-intensity beam that is powered by one AAA battery.

SPECS: Aluminum body, black. 5" (12.7cm) OAL. Uses (1) AAA battery, included.

#622-000-002 Militaria Borelight, 2B8L14 \$ 9.99

NORTON 6" X 1/2" X 1/2" INDIA STONES



Traditional Gunsmithing Favorites Deliver Excellent Surface Finishes

Fast cutting aluminum oxide stone. MF-46 Medium is perfect for fast production cleanup of the manufacturing burrs found in almost all new guns. A few quick strokes in the jig results in a much smoother trigger pull. Lubricate with stoning/honing oil. FF-46 Fine is a good combination of speed and smoothness of cut to put a finer finish on parts for slicker, smoother trigger pulls. A favorite of many armorers. Lubricate with stoning/honing oil. Aluminum oxide.

#657-246-146 MF-46 India Stone, 7E10M35 \$ 10.99

#657-246-246 FF-46 India Stone, 7E9P81 11.39



BROWNELLS HAMMER/SEAR PIN BLOCK KIT

Allows Visual Inspection Of Hammer & Sear Engagement



Machined steel block allows you to mate the hammer and sear (or trigger) outside of the firearm for a clear, unobstructed view of the critical point of engagement.

Accepts a wide selection of hammer and sear pins sized for various handguns and rifles. Dovetailed adjustment block rides in slotted channel so pin spacing can be precisely set to match individual frames and receivers. Allen screw locks the pin setting so hammer and sear can be dropped in place relative to their actual position in the firearm. Great for cutting the engagement surfaces on new parts or fine-tuning the factory ones. Pins are individually numbered for proper identification. Kit is packaged in a see-thru, plastic box and contains hammer/sear pin block and all nine sets of special pins for popular gun models. Block and pins also available separately.

SPECS: Block - Steel, blued. Pins - Stainless steel. 2 1/2" (6.4cm) long, 1 1/16" (1.7cm) wide. Kit includes plastic storage box.

STK# HAMMER	STK# SEAR	FITS
#080-000-100	#080-000-101	Colt Single Action Army
#080-000-102	#080-000-103	Uberti Cattleman
#080-000-104	#080-000-105	Ruger® 10/22
#080-000-108	#080-000-109	Ruger New Model SA Revolver

— Advise # — Hammer/Sear Block Hammer Pin, 8K6L21 \$ 7.99

— Advise # — Hammer/Sear Block Sear/Trigger Pin, 8K4N79 5.99

#080-000-098 Hammer/Sear Block Hammer Pin, 8K6L21 \$ 7.99

#080-000-099 Hammer/Sear Block Sear/Trigger Pin, 8K4N79 5.99

#080-000-106 Colt AR-15 .154" Small Hammer/Trigger, Pin Set, 8K10J39 12.99

#080-000-107 Colt AR-15 .172" Large Hammer/Trigger, Pin Set, 8K11H99 15.99

#080-000-116 Hammer/Sear Pin Block, only, 8K46D57 59.99

#080-000-115 Hammer/Sear Pin Block Kit, 8K118H76 149.99

NORTON INDIA STONES



Mainstay Of The Gunsmith Profession

Man made from aluminum oxide. A uniformly dense stone with superior cutting properties make these medium grit stones cut faster than hard Arkansas. Especially useful for lapping, honing, sharpening and polishing in tight places where the special shapes can reach into nooks and crannies.

SPECS: METRIC: 1" = 2.5cm, 1/2" = 12.7mm.

STOCK #	SHAPE	MODEL	SIZE	PRICE
#657-010-034	Square	MF-34	4 x 3/8"	7E12H06 \$ 14.99
#657-020-134	Triangle	MF-134	4 x 3/8"	8K9P68 \$ 14.99
#657-030-214	Round	MF-214	4 x 1/4"	7E9H88 \$ 12.99
#657-040-134	Diamond	MT-134	4 x 3/16"	7E22H09 \$ 25.99
#657-050-724	Knife	MF-724	4 x 1 x 1/8"	7E18F01 \$ 20.99
#657-060-024	Slip	MS-24	4 1/2 x 1/4 x 1/16"	7E10J90 \$ 15.99
#657-070-723	Point	MF-723	3 x 3/16"	7E22D30 \$ 25.99

POWER CUSTOM SERIES I STONING FIXTURE

Ultimate For Hammer & Sear Work; Accurate, Repeatable Setup



Save time and money by providing repeatable setup, accurate, measurable adjustments and suitability for many guns. Fixture has built-in hammer and trigger/sear alignment pin holes for seven popular guns, plus an adapter for working on one additional gun model of your choice. Purchase more adapters separately for other guns; many jigs combined in one fixture! To use, mount hammer or trigger/sear on adapter, set and lock at correct index mark as instructed. Set stoning angle by counting "clicks" specified to raise or lower elevator and stoning guide. Lock guide, place stone on both roller and hammer or trigger/sear, and stone as normal. Easily adjustable to allow variations in stoning angle for exact, desired trigger pull weight. Same tool Ron Power uses in his own shop. Complete with one adapter and very detailed instructions written by Ron. You will also need a #10 Machinist's Clamp and 6"x1/2"x1/2" stones (listed elsewhere).

SPECS: Blued steel. 5 1/8" (14.1cm) long x 2 1/8" (6.5cm) wide x 3" (7.6cm) high. 3/4" (19mm) thick base. 5/8" lb. (2.6 kg). Includes roller guide and one adapter in the price.

STK# FIXTURE COMP	STK# ADAPTER ONLY	FITS	MODEL
#713-070-001	#713-071-001	Browning Hi Power	HP
#713-070-019	NA	Colt .380 Govt & Mustang	380
#713-070-020	#713-071-020	Colt SAA & Clones	CSA
NA	#713-000-048	Marlin 336	336
NA	#713-071-007	Ruger Redhawk®/Super Redhawk®/GP-100®	RH
NA	#713-071-015	Ruger 7 1/2" & M77® Mark II	77/22
#713-070-008	#713-071-008	Ruger Single Actions	BH
#713-070-012	#713-071-012	Ruger 10/22	10/22
NA	#713-071-011	S&W J-Frame	J
NA	#713-071-010	S&W K, L & N Frame	K,L,N
NA	#713-000-107	Springfield XD/XDM	XD/XDM

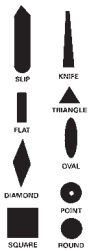
— Advise # — Series I Fixture Complete, 3A173J40 ... \$ 179.99

— Advise # — Series I Fixture Adapter, only, 3A26Q78 30.00

#713-070-002 Series I Fixture Complete, 3A173H40 ... \$ 181.33

#713-071-002 Colt Govt. Adapter, only, 3A26Q78 30.00

#713-070-900 Series I Fixture Roller Guide, 3A4A15 ... 4.99



NORTON PREMIUM HARD ARKANSAS STONES

Complete Selection Of Shapes For Every Professional Need

Ultra-fine, Hard Arkansas Stones are a must for precision jobs like accurizing, trigger work, hard fitting, putting a super-smooth finish on cutting tools. Made from the finest quality Ozark quartz and carefully checked for consistent hardness.

SPECS: As with all natural products, sizes shown are nominal and may vary. METRIC: 1" = 2.5cm.

STOCK #	SHAPE	MODEL	SIZE	PRICE
#657-300-033	Square	HF-33	3x3/8"	8K16G13 \$ 19.99
#657-300-113	Triangle	HF-113	3x1/4"	8K15C45 \$ 16.99
#657-300-813	Round	HF-813	3x1/4"	8K20A16 \$ 30.99
#657-300-823	Flat	HF-823	3x3/8x1/8"	8K25F29 \$ 39.99
#657-300-843	Diamond	HF-843	3x1/2x1/4"	7E40H69 \$ 46.99
#657-300-863	Point	HF-863	3x1/4"	7E40L66 \$ 46.99
#657-300-873	Knife	HF-873	3x1x1/4"	8K26N62 \$ 37.99

POWER CUSTOM SERIES II STONING FIXTURE

Precise, Controlled Stoning Of Semi-Auto Hammers & Sear For Perfect Trigger Pulls



Eliminates the guesswork and gives an accurate, repeatable method to achieve a crisp, clean-breaking trigger pull on semi-automatic firearms. Individual, easy-to-change Adapters attach to a precision-ground indexing elevator column and clamp both the hammer and sear in the right position for correct stoning. Adjustable design lets you change both hammer and sear angle to meet the shooter's precise needs. Series II India Stone or Series II Hard Arkansas Stone required for use; purchase separately, listed below. Universal Adapter (described below) adds incredible versatility. SPECS: Steel, blued, precision ground and hardened. 5" (12.7cm) 4" (10cm) high, 3" (7.6cm) wide. Fixture includes (1) Adapter, hammer and sear clamp, three Allen wrenches and instructions.

STK# FIXTURE WITH ADAPTER	STK# ADAPTER ONLY	FITS	MODEL
#713-270-100	#713-271-000	Handguns, 10/22	Universal
#713-270-092	NA	Beretta 92	B92
#713-270-014	NA	M1 Garand, M14 -sear only	M14
#713-270-016	#713-271-016	M16/AR-15 w/ .154" dia pin	M16
#713-270-015	#713-271-015	AR-15 (Colt) w/ .173" dia pin	AR-15

— Advise # — Series II Stoning Fixture/1 Adapter, 3A181E11 \$ 207.99

— Advise # — Series II Adapter, only, 3A37A33 48.99

#713-270-100 Series II Stoning Fix. w/Univ. Adapter, 3A181E11 \$ 207.99

#713-271-000 Univ. Hammer Adapter, 3A37A33 48.99

#080-815-000 Series II India Stone, 8K18G99 20.99

#080-815-001 Series II Hard Arkansas Stone, 8K67E89 79.99

UNIVERSAL HAMMER ADAPTER - Fits the Power Series II Stoning Fixture and provides the gunsmith with the right angles to correctly modify trigger pulls on dozens of guns: High Standard rimfires; S&W 3rd. Gen.; 1911 Auto; Browning Hi-Power; SIG 226 Series; Ruger Single and Double Actions (with 218" diameter hammer pin only; will not fit Single Actions with .203" diameter pins); Ruger 10/22, Beretta; this is only a partial listing. Adapter is marked for many popular handguns and includes five hardened pins that make it work on a large number of guns. SPECS: Steel, blued. Includes 5 hammer pins: 125" (3.1mm), 136" (3.4mm), 156" (3.9mm), 187" (4.7mm), 218" (5.3mm) dia., 2 stop pins, 1 Allen wrench, 4 hammer pin lock screws and instructions.

#713-271-000 Univ. Hammer Adapter, 3A37A33 \$ 48.99

TRIANGLE STONE HOLDER - Lets you use a common 4" x 1/2" triangular India stone in the Series II stoning fixture. Completely supports stone along its entire length to help prevent breakage and extend stone life. When the edge becomes dull, simply loosen the fixture and rotate the stone to present a new edge. Use as a hand-held tool for any stoning application where a flat, sharp edge is required. Rigid housing of 6061 T6 aluminum with a clamp pad and spacer of tough polyethylene securely grasp the stone and prevent slippage. Stainless steel bolts maintain proper tension while ensuring easy disassembly and adjustment. SPECS: 6061 T6 aluminum, anodized, matte black, and polyethylene. 4" (10.2cm) long, 1 1/4" (3.2cm) wide, 1" (2.5cm) high. Includes (1) triangular 4" x 1/2" fine grit India stone.

#713-000-082 Triangle Stone Holder, 3A59N74 \$ 72.99

Orders: 800-741-0015

order on the web
brownells.com

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BROWNELLS

6" X 1/2" X 1/2" CERAMIC STONES

State-Of-The-Art Stones Combine Fast Metal Removal With Fine Finish



Custom made to our specs from premium ceramic. The cutting action is very fast and the resulting surface very smooth. Perfect for all trigger work from burr removal to final finish. Use dry or with water as a lube (no messy oil); soap and water cleanup. Less fragile than Arkansas stones. Sold in two colors, **White** and **Black**. Ground sides for sharp, 90° edges and an extremely fine cutting action for polishing and smoothing triggers and sears, like the 1911 Auto, that require an exact 90° interface for best performance. **White** stones produce a finer cut than **Black**. **Set** contains one of each stone.

#080-721-621 2 Ceramic Stone Ground Set, 8K43D70... \$ 48.99

STOCK #	STYLE	CUT	COLOR	PRICE
#080-721-604	Ground	M-Fine	Black	8K24C78 \$ 29.99
#080-721-601	Ground	X-Fine	White	8K23P94 \$ 29.99

BROWNELLS HAMMER/SEAR FILE & STONE KIT - The most complete and useful selection of specially designed 1/2" x 1/2" x 6" sharp edged stones and files ever offered for 1911 Auto trigger and sear work. Our exclusive 90° Hammer Hook Squaring File w/Handle, FF-46 India Stone, Ground Black Ceramic Stone and Ground White Ceramic Stone packaged in a convenient polypropylene storage box with oak divider tray.

#080-811-000 Brownells Hammer/Sear File & Stone Kit, 8K101E37..... \$ 129.99

NORTON 6" X 1" X 1" INDIA STONES

Excellent Surface Finish With Fast Metal Removal



Fast cutting, aluminum oxide stone, six inches long and one inch square, lets you make a long, steady stroke and turn out those glass sharp, silky-smooth trigger jobs that make shooting a joy. Excellent for many other stoning jobs, too. **MF-76 Medium** - A few quick strokes in a trigger jig cleans up burrs in new guns. **FF-76 Fine** - Combines speed and a smooth cut for a crisp, smooth, trigger pull.

SPECS: Aluminum oxide. 6" (15.2cm) x 1" (2.5cm) x 1".

#657-000-001 MF-76 Med. India Stone, 7E12J68... \$ 19.99

#657-000-002 FF-76 Fine India Stone, 7E22Q14... \$ 26.99



BROWNELLS GUNSMITH'S PREMIUM ARKANSAS STONE FILE SET



Norton Premium Stones In The Most Popular Shapes

The 4 most used stones/files for the working gunsmith. All angles, edges, corners are sharp, true and straight. Great for trigger and sear work! Made from first-quality, hard Ozark Quartz, with a minimum of variations within each stone.

SPECS: Set includes: 1/4" (6.3mm) x 3" (7.6cm) Triangle; 3/8" (9.5mm) x 3/8" (9.5mm) x 3" (7.6cm) long Square; 1/4" (6.3mm) dia. Round; 3" (7.6cm) long x 1" (2.5cm) deep Knife, 1/8" (3.2mm) wide at the back, tapering to 1/16" (1.6mm) at the edge. Fitted tray protects stones.

#080-576-000 Hard Arkansas File Set, 8K110J74..... \$ 119.99



BROWNELLS GUNSMITH'S PREMIUM CERAMIC STONE FILE SET



Sharp, Precision-Ground Stones With Clean Cutting Edges For Superb Trigger & Sear Work

Flawless, man-made ceramic stones polish the surface of steel as they cut, so you save time as you produce a clean, ripple free surface on any metal with just a few easy strokes. Double, precision grinding after high pressure extrusion produces the consistent, extra-fine grit, true angles and the sharp, perfectly square edges necessary for top quality handgun and rifle trigger work. Extra hard ceramic material maintains its surface so edges stay square and straight without chips or glazing. Cuts can be made dry - so there's no messy cleanup - or with water. With normal care, these high quality stones will maintain their edge and last a lifetime.

SPECS: Extra fine, white ceramic stones 3.5" (8.8cm) long. Set includes: Triangle - .250" (6.3mm) wide. Square - .350" (8.8mm) wide. Round - .250" (6.3mm) dia. Packed in fitted plastic tray w/lid.

#080-721-001 Triangle Ceramic Stone, 8K13C71..... \$ 20.99

#080-721-002 Square Ceramic Stone, 8K20K47... \$ 24.99

#080-721-004 Round Ceramic Stone, 8K17P67... \$ 21.99

#080-721-000 Ceramic Stone Set, 8K43B91..... \$ 51.99

SPYDERCO

SHAPED CERAMIC STONES

Sharp Edges, Easy Cleaning



Ceramics cut beautifully and uniformly using water (not messy oil) as the lubricant; they're resistant to shatter and breakage and literally last a lifetime. Cleanup consists only of washing with detergent and warm water to restore the original clean, white cutting surface. The cut is rated "smooth" and you can cut Hard Arkansas with these Ceramic files. After a bit of use and a few washings, the cut will become even finer.

SPECS: Smooth cut. Set contains 1 each of the following: Square, 1/4" (6.3mm) x 5" (15.2cm); Triangle, 1/4" (6.3mm) x 5" (15.2cm); Round, 1/4" (6.3mm) diameter x 5" (15.2cm).

#824-400-000 Ceramic Stone Set, 4B41P25..... \$ 59.99

#824-400-001 Round Ceramic Stone, 4B12C50..... \$ 13.30

#824-400-002 Triangle Ceramic Stone, 4B12I50..... \$ 13.30

#824-400-003 Square Ceramic Stone, 4B12A50..... \$ 13.30

WASHITA MOUNTAIN ARKANSAS STONE SET



Natural Stones In Ideal Gunsmithing Shapes

Carbon steels just seem to polish best with a genuine Arkansas stone and the four shapes in the kit have proven to be the most useful in the gun shop. The edges are nice and clean, making them an excellent choice for flat trigger and sear faces plus most other fitting chores. Fine cut, white hard Arkansas.

SPECS: Set includes - 1/4" (6.3mm) x 4" (10.1cm) Triangle; 1/4" x 4" Square; 1/4" diameter Round; 1" (2.5cm) x 4" Knife tapers from 1/4" thick to 1/16" (1.6mm) thick.

#975-104-000 Arkansas 4-Stone Set, 5G39A61..... \$ 55.99

BROWNELLS CELLUPLASTIC TUBES



Excellent For Storing Files & Stones

Give your fine tools the protection they deserve against accidental edge chipping and dulling in the bench drawer. Cellulastic tubes are easily cut to any length. Polyethylene plug caps provide tight, moisture-proof containers.

SPECS: 18" (45.7cm) long. Butyrate plastic, resists oils/solvents.

HANDY SHOP ASSORTMENT - Four 7/8" tubes & 40 caps. Six 3/4" tubes and 60 caps. Ten 3/2" tubes & 100 caps. Packed in carton.

#080-536-000 Cellulastic Tube Shop Assortment, 8K52N37..... \$ 67.99

STOCK #	QTY.	DIAMETER	PRICE
#080-536-375	30	3/8" (9.5mm)	8K29A85 \$ 38.99
#080-536-625	17	1/2" (12.7mm)	8K26H09 \$ 33.99
#080-536-875	8	3/4" (19.0mm)	8K15D66 \$ 19.99
#080-536-100	7	1" (2.5cm)	8K18A60 \$ 23.99

DIAMETER	STK# CAPS PER 100	STK# CAPS PER 1M
3/8" (9.5mm)	#080-536-138 9.99	#080-536-238 49.99
5/8" (15.9mm)	#080-536-158 15.99	NA --
7/8" (22.2mm)	#080-536-178 15.99	NA --
1" (2.5cm)	#080-536-110 19.99	NA --

PLASTIC TUBES

SPYDERCO CERAMIC BENCH STONES

Space Age Technology Gives Super Clean Surfaces



Use water as lube instead of honing oil. Cleans up with soap and water. Surfaces stay flat to give consistent results.

SPECS: 2" (5.1cm) x 8" (20.3cm) x 1/2" (12.7mm). Medium (black) and Fine (white) grits.

#824-302-001 Fine Ceramic Bench Stone, 4B46J50... \$ 49.00

#824-302-002 Medium Ceramic Bench Stone, 4B46M50..... \$ 49.00

EZE-LAP DIAMOND HONE & STONE



Fast, Long Lasting

Millions of diamond cutting edges permanently bonded to a 2" x 3/4" steel plate for universal, any-direction, cutting action.

SPECS: 5/8" (16.9cm) overall length 3/8" (17.5mm) wide. 4" (10.2cm) long plastic handle.

#290-100-001 Fine Hone & Stone, 9B4G99... \$ 7.59

#290-100-002 Medium Hone & Stone, 9B8K37... 9.99

#290-100-003 Coarse Hone & Stone, 9B6K44... 8.99

WHAT STONES DO I USE?

Some of our customers asked us to recommend stones to use with the various hammer/trigger/sear jigs we sell, so we talked to a number of the pros. Some prefer Ceramic, some India and some Hard Arkansas. But, they all choose the 6" x 1/2" x 1/2" size. We stock all three types, as well as a full line of bench and specialized stones for gun shop use.



GESSWEIN RUBY STONES

The Very Finest For The Gunsmith



Super-hard, pure polycrystalline cuts tool steel, hardened steel and tungsten carbide. Perfect for final honing.

SPECS: No. 221 Flat - 4" (10.2cm) x 3/8" (9.5mm) x 1/4" (6.3mm). No. 291 Knife - 4" (10.2cm) x 3/8" (9.5mm) x 1/8" (3.2mm).

#348-221-001 221F Ruby Stone, 8D78G24... \$ 106.99

#348-221-002 221M Ruby Stone, 8D68I64... 103.99

#348-291-001 291F Ruby Stone, 8D125L23... 186.99

STONING ACCESSORIES

BENCH STONES - Two grades, with cedar box: **MB8** - Soft (Med) Arkansas. 2" (5.1cm) x 1" (2.5cm) x 8" (20.3cm). **FTC8** - Hard (Fine) Arkansas. 2" x 1 1/2" (12.7mm) x 8".



#975-006-008 MB8 Med, 5G23K89... \$ 32.99

#975-005-008 FTC8 Fine, 5G29J02... 34.14

HONING OIL - Keeps sharpening stones cutting faster and prevents metal particles from clogging the pores of the stone.

SPECS: 4 oz. (118.2ml) can. #657-003-004 Honing Oil, 4 oz., 7E8F97... \$ 10.99

DREMEL CARBIDE CUTTERS

Carbide Lasts Longer, Cuts Faster Than High Speed Steel

STOCK #	MODEL	IMAGE
#257-990-100	#9901	
#257-990-200	#9902	
#257-990-300	#9903	
#257-990-500	#9905	
#257-990-600	#9906	
#257-990-900	#9909	
#257-991-000	#9910	

SPECS: 1/8" shanks, maximum cutting head diameter, 1/8". Advise # Carbide Cutter, 7E13K87... \$ 16.99

DREMEL HIGH SPEED STEEL CUTTERS

The Standard Cutter For Most Applications

STOCK #	MODEL	IMAGE
#257-100-115	#115	
#257-100-194	#194	

SPECS: High speed steel. 1/8" (3.2mm) diameter shank. Advise # H/S Steel Cutter, each, 7E6A79... \$ 9.99

FOREDOM POWER TOOLS

Lightweight, Rotary Tools For Fast, Efficient Cutting, Shaping & Polishing

Power grinders efficiently handle all the precision shaping and contouring work in the shop. Easy to use, whether the job requires slow speed, high torque "hogging," or high speed for carbide tools that need only the lightest touch. Runs in forward or reverse rotation for ease-of-use during left- or right-hand operation. Cutting/grinding/polishing accessory kits available separately, below. **SR Power Tool** has a flexible shaft and convenient foot operated control for hands-free speed control. Comes with either the general-purpose collet-style #8D handpiece that comes with two collets and accepts accessories with shanks up to 1/4" (chuck guard sleeve included) or the popular #30 handpiece with a versatile #0 geared 3-jaw chuck that accepts any size shank or drill bit up to 3/32".



SPECS: *SR Power Tool - 1/16 hp, 1.7 amp, 115V/60 Hz Motor. Speed range w/foot control: 0-18,000 rpm. 36" (91.4cm) flexible shaft. Sets include SR Motor, FCT-1 foot control, instructions, and either #8D or #30 Handpiece.*

#318-700-005 SR-8D Set, 8A306N00 \$ 405.99
#318-700-301 SR-30 Set, 8A281E52 373.99

8D HANDPIECE - Grease-sealed ball bearings for heavy duty use. Complete with one collet. **#318-008-000 #8D Handpiece, 8A91M80 \$ 114.99**

30 HANDPIECE - Key-type chuck for shank sizes up to 3/32". Grease-sealed ball bearings, complete with key. **#318-030-000 #30 Handpiece, 8A65F91 \$ 91.99**
#318-030-720 #30 Chuck Key, 8A4D83 5.99

FCT-1 FOOT-OPERATED SPEED CONTROL - Provides smooth, precise speed control of your SR Power Tool, as well as Foredom L, LB, S, SB, CC, and DD motors, and the Dremel Flex-Shaft tool. Heavy-duty plastic housing with durable solid state electronics. **#318-001-002 FCT-1 Foot Control, 8A32134 \$ 42.99**

POWER TOOL ACCESSORIES - Accessory kits designed for the Foredom power tools and carefully selected to serve the needs of the professional gunsmith contain a huge variety of grinding bits and wheels to shape, cut, polish, and finish wood, metal, plastic, and fiberglass. Convenient plastic clamshell storage case keeps things organized. This huge 88-piece assortment contains some of the latest and most unique accessories for shaping, cutting and finishing metal. Ceramic purple sanding drums and discs, V Stone mounted abrasives, CeramCut Blue stones and MetalMaster polishing wheels and rods. Also plated diamond points, steel cutters and burs, aluminum oxide points, wire and bristle brushes, felt buffs and bobs, tube of red polishing rouge, various mandrels with 1/8" and 1/16" shanks. **Set contains:** (3) each, 1/2" diameter ceramic purple sanding drums 60, 80, 120, and 220 grit; (3) each, 3/8" diameter ceramic purple sanding drums 60, 80, 120, and 220 grit; (3) each, 1/2" diameter ceramic purple sanding disk 60, 80, 120, and 220 grit; (6) V Stone mounted abrasives; (5) CeramCut Blue® Stones; (5) Metal Master polishing wheels and (3) rods; (3) rubber backed mandrels; (1) 1/4" fiberglass cut-off wheel; (1) plated diamond point; (6) steel cutters and burs; (5) aluminum oxide points; (6) wire and bristle brushes; (7) felt buffs and bobs; 1 oz. (29.6ml.) red polishing rouge. 1/32" and 1/8" shanks. 20,000 RPM max operating speed. **#318-000-002 88-Pc Accessory Set, 8A150J65 \$ 199.99**

- POWER HAND TOOL ACCESSORIES -

Make The Most Of Your Hand-Held Tool

FIBERGLASS REINFORCED CUT-OFF WHEEL - 1 1/4" (3.2cm) dia. Larger diameter makes it possible to cut thicker material. Long lasting. Sold in pak of 5. **#257-400-426 #426 Cut-Off Wheel, 7E10D76 \$ 12.99**

HEAVY-DUTY, EMERY CUT-OFF WHEEL - .040" (1mm) thick for wider slotting, less breakage, longer service life. 3/16" (24mm) diameter. Sold in pak of 20. **#257-400-420 #420 Cut-Off Wheels, 7E8E91 \$ 10.99**

CUTTING WHEEL #409 - A handy emery wheel for slicing, cutting-off and similar operations. 36 discs per package. **#257-400-409 #409 Wheel, 7E8D21 \$ 9.99**

PERMA GRIT CARBIDE WHEEL #543 - Cool running carbide wheel for slicing, cutting-off and shaping metal or wood. 1 1/4" (3.2cm) dia. 1/8" (3.2mm) shank. **#257-000-014 #543 Carbide Wheel, 7E25P72 \$ 30.99**

DRUM SANDER BANDS #408, 432 - 1/2" (12.7mm) dia. coarse grit; No. 432, 1/2" dia. fine grit. Pak of 6. **#257-400-408 #408 Band, 7E5L52 \$ 6.99**
#257-400-432 #432 Band, 7E5Q52 6.99

DRUM SANDER MANDREL #407 - 1/2" dia. For use with #408, #432 and other 1/2" sander bands. **#257-400-407 #407 Drum Sander, 7E6P52 \$ 7.99**

FLAP WHEEL SANDER - 1 1/8" (2.8cm) dia. wheels. 1/8" (3.2mm) shanks. 502 - 3/8" (9.5mm) wide, 80 grit. 503 - 3/8" (9.5mm) wide, 120 grit. 505 - 3/16" (4.8mm) wide, 120 grit. **#257-000-002 #502 Wheel, 7E10E43 \$ 12.99
#257-000-004 #503 Wheel, 7E10M43 12.99
#257-000-005 #505 Wheel, 7E9F87 11.99**

WIRE BRUSHES - Small, versatile, steel brushes for efficiently removing rust, corrosion and polishing metal surfaces. 1/8" (3.2mm) shanks. **Brownells Gun Tech™ Note: DO NOT RUN NOS. 428 AND 442 BRUSHES IN EXCESS OF 15,000 RPM.** **#257-400-428 #428 Wire Brush, 7E7E25 \$ 8.99**
#257-400-442 #442 Wire Brush, 7E7B25 8.99

#402 MANDREL - To be used with all cutting wheels, sanding discs and polishing wheels. 1/8" (3.2mm) shank. **#257-125-402 #402 Mandrel, each, 7E4D03 \$ 4.99**

FELT BOBS MANDREL MOUNTED

Get Into Those Tight Places



Ideal for polishing around trigger-guards, cylinder flutes, ramps, hammers, triggers, etc. Made of best hard felt. Use with Polish-O-Ray®.

STOCK #	DIAMETER	FACE	MANDREL	PRICE
#839-500-025	1/4" (6.3mm)	3/8" (9.5mm)	1/8" (3.1mm)	\$ 8.99
#839-500-750	1/2" (12.7mm)	1" (2.5cm)	3/8" (9.5mm)	\$ 8.99
#839-500-900	1" (2.5cm)	2" (5cm)	3/8" (6.3mm)	\$ 11.99

M. A. FORD SOLID CARBIDE BURRS

Precision Ground Carbide Cuts Cost & Speeds Production

SPECS: 25 flutes; right hand spiral and rotation; No. 3 cut; 1/8" (3.2mm) shank. All cutting surfaces are 1/4" (6.3mm) dia. with lengths as follows: #1 = 1/16" (1.6mm), #2 = 1/2" (12.7mm).

STOCK #	MODEL	STOCK #	MODEL
#317-710-001		#317-710-002	

— Advise # — **Solid Carbide Burr, 7A22I31 \$ 26.99**

FALCON TOOL MX FINISHING WHEELS

Long Lasting, Popular Grits For Polishing & Shaping

Aluminum oxide abrasive wheels for high-speed, rotary tools are ideal for final shaping, finishing, polishing. **Starter Kit** includes one wheel of each grit in a compartmented kit box. **Refill Paks** contain three wheels of one grit. **SPECS:** 1/8" (3.2mm) shank. 1/4" (6mm) diameter x 1/2" (12.7mm) long cylinder or 1/2" diameter x 1/2" long cylinder.

- #084-000-021 1/2" x 1/2" Starter Kit, 4H21D27 \$ 29.99**
- #084-000-022 1/2" x 1/2" 50 Grit MX Wheel, 4H11E88 16.99**
- #084-000-024 1/2" x 1/2" 120 Grit MX Wheel, 4H14I73 16.99**
- #084-000-025 1/2" x 1/2" 180 Grit MX Wheel, 4H16I85 19.99**
- #084-000-026 1/2" x 1/2" 320 Grit MX Wheel, 4H14Q73 16.99**
- #084-000-084 1/4" x 1/2" MX Wheel Starter Kit, 4H20M04 29.99**
- #084-000-079 1/4" x 1/2" 50 Grit MX Wheel, 4H17A23 20.99**
- #084-000-081 1/4" x 1/2" 120 Grit MX Wheel, 4H16J19 18.99**
- #084-000-082 1/4" x 1/2" 180 Grit MX Wheel, 4H16L58 19.99**
- #084-000-083 1/4" x 1/2" 320 Grit MX Wheel, 4H17G23 20.99**

BROWNELLS PREMIUM GRINDING POINT KIT

The 11 Most Popular/Useful Shapes & Sizes

Industrial grade cobalt added to aluminum oxide crystals form the hardest, fastest grinding points available. Gives a smooth surface on all metals, lasts much longer than "hobby" points. Kit contains 3 each of the points shown below at a special price. **Refill 6-Paks** make it easy to keep your Kit well stocked. **SPECS:** Shank - 1 1/2" (3.8cm) long, 1/8" (3.2mm) diameter. Refills sold 6 per pak, not assorted.

STOCK #	TYPE	STOCK #	TYPE
#080-697-001 #1		#080-697-007 #7	
#080-697-003 #3		#080-697-008 #8	
#080-697-004 #4		#080-697-009 #9	
#080-697-005 #5		#080-697-010 #10	
#080-697-006 #6		#080-697-011 #11	

— Advise # — **Refill, 6-pak, 8K16E20 \$ 20.99**
#080-697-000 Prem. Grinding Point Kit, 8K63Q30 \$ 79.99

CRATEX ABRASIVE KIT

Preshaped Abrasive Wheels For All Polishing/Grinding Needs



A mighty handy kit of small, flexible abrasive wheels and points - fully shaped, and ready to use. Polish, smooth, deburr... many, many uses in the gun and machine shop. Made from self-cushioning, oil-resistant chemical rubber, impregnated with silicon carbide abrasive.

SPECS: Kit includes: 80 (total) Tapered and Straight edge wheels, Bullet and Cylinder shaped points, each style in four grits, Coarse, Medium, Fine, Extra Fine. Four 1/8" shank mandrels. Maximum speed: 25,000 rpm. **#190-777-000 Cratex 777 Abrasive Kit, 9A76E18 \$ 81.62**

CRATEX REPLACEMENT POINTS, WHEELS & MANDRELS

SPECS: Bulk replacements sold 25 each per pkg. **#6 Cylinder Point, 1/4" (6.3mm) diameter, 1/8" (2.2mm) long. #8 Bullet Point, 3/16" (7.1mm) diameter, 1" (2.5cm) long. #11 Bullet Point, 1/8" (9.5mm) diameter, 1" long. #15 Bullet Point, 1/8" (12.7mm) diameter, 1/2" long. #74 Straight Edge Wheel, 1/8" (22.2mm) diameter, 1/8" thick. #86 Straight Edge Wheel, 1" diameter, 1/16" (4.76mm) thick. #4 Point Mandrel, 1/8" shank diameter, fits 1/16" (1.59mm) arbor hole. #6 Point Mandrel, 1/8" shank diameter fits 1/8" arbor hole. 25,000 rpm max. Mandrels sold 3 each per pkg. **Try-Pak** contains 1 of each size.**

STOCK #	GRIT	STYLE	ARBOR	PRICE
#190-025-061	Coarse	#6 Cyl	1/16"	9A15P81 \$ 21.99
#190-025-062	Medium	#6 Cyl	1/16"	9A16J04 \$ 22.99
#190-025-063	Fine	#6 Cyl	1/16"	9A15M82 \$ 23.99
#190-025-064	Ex-Fine	#6 Cyl	1/16"	9A15D81 \$ 23.99
#190-025-081	Coarse	#8 Bltt	1/16"	9A15P80 \$ 20.99
#190-025-082	Medium	#8 Bltt	1/16"	9A15N30 \$ 20.99
#190-025-083	Fine	#8 Bltt	1/16"	9A21N07 \$ 22.99
#190-025-084	Ex-Fine	#8 Bltt	1/16"	9A16I02 \$ 21.99
#190-025-111	Coarse	#11 Bltt	1/8"	9A29F70 \$ 38.99
#190-025-112	Medium	#11 Bltt	1/8"	9A29L70 \$ 37.99
#190-025-113	Fine	#11 Bltt	1/8"	9A30F15 \$ 40.99
#190-025-114	Ex-Fine	#11 Bltt	1/8"	9A29H50 \$ 42.99
#190-025-152	Medium	#15 Bltt	1/8"	9A33G39 \$ 43.99
#190-025-153	Fine	#15 Bltt	1/8"	9A33J39 \$ 43.99
#190-025-154	Ex-Fine	#15 Bltt	1/8"	9A33J38 \$ 47.99
#190-025-743	Fine	#74 Whl	1/16"	9A16C98 \$ 23.99
#190-025-744	Ex-Fine	#74 Whl	1/16"	9A16D98 \$ 23.99
#190-025-863	Fine	#86 Whl	1/16"	9A26F38 \$ 39.99
#190-001-004	#4 Point Mandrel, 3-pak, 9A13P29			\$ 18.99
#190-001-006	#6 Point Mandrel, 3-pak, 9A15E24			19.99
#190-001-000	Mandrel Try-Pak, 9A9E63			12.99

INDIVIDUAL TOOLS
ARE AVAILABLE
AT BROWNELLS.COM

BIG GATOR TOOLS V-TAP GUIDES

For Cutting Perfectly Straight Threads; Inch & Metric Models Available

Aligns and centers taps to cut perfectly straight threads on flat or curved surfaces. Helps prevent misalignment and tap damage, saving time and money. Center V-groove along the bottom of the guide allows a snug fit on curved receivers, barrels, or parts with corners. Outer edges are surface ground to precise tolerances for a tight fit on flat surfaces. Precision machined from nickel-alloy steel, then heat-treated for strength, durability, and dimensional stability. Models available for **Standard** inch and **Metric** size taps. **■**
SPECS: Nickel alloy steel. 4 1/8" (11.7cm) long, 1/2"-1" (1.3-2.5cm) wide tapered, 7/8" (2.3cm) high. Includes plastic storage sleeve. **Standard** fits tap sizes: 0-80, 1-64, 1-72, 2-56, 2-64, 3-48, 3-56, 4-40, 4-48, 5-40, 5-44, 6-32, 6-36, 6-40, 8-32, 8-36, 8-40, 10-24, 10-32, 1/4"-20, 1/2"-28, 3/8"-18, 1/2"-24, 5/8"-16, 3/4"-24, 7/8"-14, 1"-20, 1 1/8"-18, 1 1/4"-20, 1 1/2"-11, 1 3/4"-18. **Metric** fits tap sizes: 1.6mm, 2mm, 2.5mm, 3mm, 3.5mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm, 14mm, 16mm.

#100-004-422 Standard V-Tap Guide, 8C19JG68. \$ 22.99
#100-004-423 Metric V-Tap Guide, 8C19C68. 22.99

BROWNELLS UNIVERSAL DO-DRILL™

Our Most Popular Cutting Oil

Preferred by many gunsmiths for tapping, drilling and cutting all types of heat-treated steels, moly or stainless. Follows the tap or drill in the work. We know of cases where all four holes for a mount have been drilled and tapped using DO-DRILL™, and the tap was still sharp enough for future use. **■**

SPECS: Net Contents; 16 oz. (473 ml) or 1 gal. (128 fl. oz./3.8 L).
#083-007-016 16 oz. Do-Drill, 5L10N16. \$ 15.99
#083-008-128 1 Gal. Do-Drill, 5L75F57. 92.99

VIPER BENCH REST VIPER'S VENOM CUTTING OIL

High Viscosity & Extreme Cooling Properties

A thick, high sulfur cutting oil just like the old time machinist oil. Clings to your work and won't fly off as the metal heats up, which means you use less oil per project. Specifically formulated for cutting all ferrous metals, tapping, threading, and reaming. Works extremely well when threading or reaming stainless steel rifle barrels due to its extreme lubricity factor and cooling properties. Does not smoke like other oils when it gets hot. **■**

#100-013-369 1 Quart (32 oz.) Viper's Venom, 6A22J88. \$ 25.99

DEVCON EXPRESS LAYOUT FLUID

Dark Blue Background For Sharp Layout Lines

Gives excellent definition to layout lines and eliminates glare for faster, more exact work. Adds practically no thickness (less than .0002"). Non-corrosive, will not harm steel, iron, bronze, aluminum or any other metal. Brushes on from can, dries in 2 minutes, hard and ready to work in 5. Resists water and oil. **■**

SPECS: 4 fl. oz. (118 ml) brush-top can.
#262-100-004 Dykem Layout Fluid, 2F11D69. \$ 13.99

NEW!**DEVCON EXPRESS DYKEM HI-SPOT BLUE**

Gotta Have When Your Precision Fitting Metal Components

A must-have when hand-fitting parts or machining metal to ensure a precise, flat, no-gaps fit - particularly on those firearms where a fine attention to detail is absolutely required! Dykem's bright-blue paste can be evenly and consistently applied to any fitted surface, and when two parts are brought together, the blue rubs off on the high spots in the material, showing you exactly what areas need filing, fitting and polishing. Comes in a handy tube with .55 oz. of material, which will last for a surprisingly large number of jobs. **■**

#262-000-003 Dykem Hi-Spot Blue, .55 oz. Tube, 2F00QVJ. \$ 7.99

FISHER MACHINE SHOP MACHINE TOOLS

Top-Quality Machinist Tools For Precision Work

These precision machinist tools were specifically chosen for professional gunsmiths whose livelihoods depend on the quality of their work. Provides the shop with the right tools for precise milling of parts, tapping screw holes, or determining exact screw thread size. These are must-have items, especially when working on high-dollar, custom firearms. **■**

MICRO EDGE FINDER - Spring-loaded mechanical tool locates the exact distance from the center of the mill spindle to the edge of the work piece so you know precisely how deep you're milling, without guessing. Easy-to-use—just insert in the mill collet, run at 500-1000 rpm, and move slowly to the edge you want to locate. As the lower cylinder of the Edge Finder touches the work piece edge, it "kicks out" suddenly. When you see the kick, the spindle centerline is located exactly .100" from the edge of the work piece.

SPECS: Steel, surface ground and hardened. 2 1/8" (7.3cm) OAL, 3/16" (9.5mm) diameter shank, .200" (5.1mm) diameter tip.

#100-004-429 Micro Edge Finder, 1C11K30. \$ 16.99

MICRO TAP GUIDE - Applies just enough pressure on the tap for precise centering and perfectly square threads. Just install in your lathe tailstock, drill press, or mill spindle, and align the point of the tap guide with the small hole at the end of the tap wrench. Adjust the tailstock or travel to remove all free-play between guide, tap wrench with installed tap, and pre drilled hole. As you cut the threads by hand, the tap guide's internal spring keeps steady pressure on the tap to prevent misalignment or jumping the threads. Fully adjustable spring tension allows fine-tuning the amount of pressure on the tap. Knurled bottleneck provides a non-slip grasp. Reversible guide tip fits male or female tap wrench hole.

SPECS: Steel, hardened, knurled bottleneck. 3 3/8" (7.9cm) OAL, 1/2" (13mm) diameter shank, 1/8" (4.8mm) diameter tip, retracts 1/2" into body. Adjustable spring tension.

#100-004-428 Micro Tap Guide, 1C13N65. \$ 19.99

PEE DEE THREAD MEASURING WIRES - Quickly and accurately measures pitch diameters of external threads—a must-have when cutting or checking threads on precision screws. Accurate to within +/- .0001" along the center 1" section. Measures the following pitch sizes: 3 to 48 tpi, .5mm to 6mm pitch, and Acme 3 to 16 tpi. Includes plastic storage sleeve, conversion chart and instructions. Requires micrometer, not included.

SPECS: Steel, 2 1/4" (7cm) OAL. Contains 16 different wire sizes, (3) of each diameter: .018" (.45mm), .024" (.61mm); .029" (.74mm), .032" (.81mm), .040" (1mm), .045" (1.1mm), .063" (1.6mm), .072" (1.8mm), .081" (2.1mm), .092" (2.3mm), .108" (2.7mm), .120" (3mm), .127" (3.2mm), .143" (3.6mm), .185" (4.7mm).

#100-004-430 Pee Dee Thread Wire Set, 1C31H07. \$ 45.99

BROWNELLS MACHINE SETUP GAUGE

Immediately Gives Correct Lathe Bit Position

Easily centers cutting tools for conventional lathe operations on either flat or rounded stock. For milling operations, makes indexing of squares, hexes, triangle, parallels and flats fast, easy and exact to 1/4 min. of angle. All surfaces are machined true to all other surfaces so can be used in literally hundreds of setup operations. Built-in level. **■**
SPECS: Aluminum, silver, matte finish. 1 1/8" (3.65cm) x 1 1/8" x 1/2" (12.7mm).
#080-000-211 Machine Setup Gauge, 2B40N91. \$ 57.99

STARRETT #98-6 PRECISION LEVEL

Finest Quality For Machine Setup

A precision instrument for setting up lathes, milling machines, drill presses, sight fixtures and more. Seasoned casting; highly-polished bearing surfaces; grooved base to handle round work; integral cross-test level. **■**
SPECS: 1 division (.100"-2.5mm) equals an elevation of .005" (.13mm) per foot. Base is 6" (15.2cm) long. Weighs 14 oz. (397 g).
#827-504-410 No. 98-6 Level, 7B136M49. \$ 140.00

STARRETT #134 CROSS-TEST LEVEL

Great For Drilling, Milling, Sight & Surface Plate Work



Has two vials at right angles for cross-test leveling without moving the tool, plus a plumb level at the top for checking squareness. An accurate, well-made and reliable tool. It is ideal for setting up machinery and doing sight work. A perfect pocket tool. **■**

SPECS: 2" (5.1cm) x 3" (7.6cm) x 1/2" (5.1mm) thick. Weighs 3 oz. (85 g). Satin chrome.
#827-505-690 Cross-Test Level, 7B54C46. \$ 55.99

MANSON PRECISION REAMERS FLOATING REAMER HOLDER

Keeps Reamer Aligned To Barrel For Accurate Chambers



Allows the reamer to remain parallel with the bore, while compensating for up to .030" of misalignment or wear between tailstock and chuck. Wide bearing surface, plus hardened and ground components give smooth movement with no cam-to-center lockup. Low mass, aluminum head lets the tool quickly respond to the slightest out of roundness. Hardened steel bushing eliminates wear in the reamer socket. Features interchangeable shanks; holder is reamed to accept shank with #2 Jacobs taper. Furnished with 1/2" diameter straight shank. **SPECS:** Steel and aluminum. Holder - 1 1/4" (4.5cm) diameter, 2 1/2" (6.4cm) long. Shanks - approx. 4" (10.2cm) long.

#513-054-001 Reamer Holder w/Straight Shank, 3A130P00. \$ 130.00
#513-054-002 #2 Morse Taper Shank, 3A25B00. 25.00
#513-054-038 #3 Morse Taper Shank, 3A00IXK. 25.00

STARRETT ANGLE METER

For Precise Measurements Of Pitch Or Slope



High-impact polymer angle meter is ideal for leveling, setting and verifying the proper angle on milling decks, drill press vises, surface grinders, and stock duplicators. Features a large, easy-to-see scale for accurate measurements from 0 to 90 degrees in any quadrant, plus a built-in magnetic base for hands-free operation on metallic objects. Measures any angle for pitch or slope and includes an easy-to-read table for converting rise and run information.

SPECS: Polymer with magnetic base. 4 1/4" (10.8cm) long, 3/8" (1.6cm) wide, 5" (12.7cm) high. Measures to 1/2 degree.

#827-000-003 Angle Meter, 7B12I24. \$ 17.99

BROWNELLS LATHE CENTERING BAR

Eliminate Errors Caused By Faulty Alignment

Steel bar lets you set up and check the trueness of your lathe. Accurately confirms the alignment of centers and helps precisely offset the tailstock for cutting tapers. Recesses on each end align headstock and tailstock centers to prevent taper cuts. Available in 1" x 8" or 1 1/4" x 24". **■**

SPECS: Steel. 1" (2.5cm) x 8" (20.3cm) or 1 1/4" (3.1cm) x 24" (60.9cm).
#080-000-258 Lathe Centering Bar, 1 1/4" x 24", 8K172H85. \$ 203.99

BROWNELLS LATHE CENTERING BUTTONS

Assures Correct Head/Tail Stock Alignment



Precision-ground and hardened "buttons" help ensure correct lathe alignment, quickly. Move head and tailstock together with buttons between centers until button faces touch. If O.D. over button joint measures .900", (nominal button O.D.) head and tailstock are aligned. If not, the buttons are offset, and so are your headstock and tailstock. Make adjustments and re-measure. **■**
SPECS: Steel. .560" (14.2mm) long x .900" (22.9mm) diameter.
#080-641-002 Lathe Center Buttons, 8K27Q03. \$ 34.99

XS SIGHT SYSTEMS DOVETAIL MEASURING TOOL

Determines Sight & Dovetail Width

Takes the guesswork out of determining how wide to mill the dovetail cut. Lets you make fast, finished cuts within .0005". Measures sights and dovetails. **■**

SPECS: Aluminum base, matte black finish. Steel pins. Base 2" (5.8cm) x 2" (5.8cm) x 1 1/2" (2.8cm). Includes charts, instructions.

#006-101-000 Dovetail Measuring Tool, 6K68E00. \$ 72.99

Orders: 800-741-0015

order on the web
brownells.com**BROWNELLS** PAGE 461

BROWNELLS CROWN SAVER™ LATHE CENTER COVER



Your Safeguard When Turning Barrels With Finished Crowns

These brass cones take much of the anxiety out of lathe-turning a perfectly good barrel with an already finished crown. Insert a Crown Saver between the muzzle and lathe or mill center before fluting, chamfering, polishing, or threading for a muzzle brake, and you can rest assured you won't harm the rifling or ding the crown. Each brass cone is machined to within .0002" or less concentricity, making using a Crown Saver as accurate as direct barrel contact against the center. With a Crown Saver, you virtually eliminate any chance of swaging the rifling. It stays seated and will not spin in the bore when the barrel is chucked in the lathe. Small fits bores .17 to .45 caliber. Large fits bores up to .50 caliber. For best results, do not use Crown Saver more than once on barrels of the same caliber. SPECS: .360 brass. Maximum diameter: Small - .500", Large - .750". #080-000-379 Small Crown Saver, 10-pak, 8K23P22 \$29.99 #080-000-869 Large Crown Saver, 3-pak, 8K17I06 \$19.99

BROWNELLS HIGH-SPEED STEEL INSERTS



Resists Chipping In Cutting Applications

Harder and sharper than either carbide or ceramic, Brownells High-Speed Steel inserts are ideal for cutting a wide range of metals. Made of premium AISI T-15 tooling steel, these inserts are perfect for work at slow surface speeds and produce a superior surface finish, without chipping or breaking. Inserts are also ideal for applications with interrupted cuts. SPECS: AISI T-15 high-speed steel, Rc 65-67.

STOCK #	SHAPE	DEGREE RELIEF	THICKNESS	RADIUS	IC	PRICE
#080-001-061	Triangle	0	.125"	.0156"	.25"	7C7J09 \$7.99
#080-001-064	Triangle	0	.125"	--	.375"	7C12G96 \$13.99
#080-001-065	Triangle	0	.125"	.025"	.375"	7C13C96 \$14.99
#080-001-066	Triangle	0	.125"	.004"	.25"	7C6H98 \$7.99
#080-001-062	Diamond	7	.125"	.015"	.25"	7C7E60 \$7.99
#080-001-063	Diamond	7	.125"	.015"	.25"	7C9J30 \$9.99
#080-001-067	Diamond	20	.094"	.008"	.25"	7C7C58 \$7.99

BROWNELLS BARREL CROWNING LATHE BIT



Professionally Ground For Perfect Crowns

A difficult tool to grind correctly. These are expertly done to give maximum cutter strength and proper clearance as cutter tip enters bore and shank approaches barrel. By taking careful cuts and moving table back and forth, any degree of crown shape can be cut. SPECS: Bit ground on one end only. #080-658-250 1/4" Barrel Crowning Bit, 3B27D68 \$31.99 #080-658-375 3/8" Barrel Crowning Bit, 3B32J35 \$34.99

BROWNELLS HIGH-SPEED STEEL CUTTING KITS FOR LATHES

Tool Holders & Inserts For Turning, Threading, Profiling & Cut-Off

Tooling kits include hardened steel toolholders and high speed steel inserts for turning, threading, profiling, and cut-off work. Inserts are T-15 High Speed Steel (HSS) hardened to Rc 65-67, then finish ground on all sides. They deliver excellent slow speed performance, precision interrupted cuts, and a smooth finish on stainless steel, Inconel, Monel, exotic metals, and plastics. Square shank toolholders and boring bars are CNC machined from 4140/4142 steel bar stock, hardened to Rc 48-50, and then black oxide coated to resist corrosion.

1/4" TURNING KIT - Includes five 1/4" square toolholders and six inserts, including one spare. SPECS: Toolholders - 4140/4142 steel, Rc 48-50, black oxide finish. .250" square, 3.5" OAL. Inserts - six T-15 HSS TPMW-18-1.5-1, Rc 65-67, finish ground on all surfaces. 11° positive, 218 IC, .093 thick, .100 hole, 130 top opening 60° .015 radius.



#080-000-834 1/4" Turning Kit, 8K109A92 \$124.42

3/8" TURNING RH/LH BORING BAR KIT - Includes two 3/8" square shank bars, one right hand (RH) bar and one left hand (LH) bar, a 3/8" shank boring bar, plus two CEMW-2-1.5-1 boring bar inserts and three CCMW-2-1.5-1 square shank bar inserts. SPECS: One right hand bar, one double-ended left hand bar, .375" shank, 3.5" long, double ended for 50° side cutting edge angle, boring bar, .375" shank, 5" long, .188" wide, full length flat, .365" minimum bore. Boring Bar Inserts - two T-15 HSS CEMW-2-1.5-1 inserts, 20° positive, .250 IC, .093 thick, .110 hole, .146 opening, .015 radius. Right/Left Bar Inserts - three T-15 HSS CCMW-2-1.5-1 inserts, 7° positive, .250 IC, .093 thick, .110 hole, .146 opening, .015 radius. Includes two MS-1152S screws, four MS-1153 screws and one T-7 wrench.



#080-000-835 3/8" Turning RH/LH BB Kit, 8K124Q20 \$140.57

35° PROFILE RH/LH KIT - Includes two 3/8" square bars, one right hand bar and one left hand bar, plus three high-speed steel inserts and one carbide insert that fit either bar. SPECS: One right-hand and one left-hand bar, both .375" square shank, 6" OAL. Inserts - three HSS VCMW-221 inserts and one carbide VCMW-221 insert, all 7° positive, .250 IC, .125 thick, .110 hole, .146 top opening, .015 radius. Includes three MS-1153 screws and T-7 wrench.



#080-000-836 35° Profile RH/LH Kit, 8K105M15 \$119.04

1/2" THREADER (NV) KIT - Includes one 1/2" square bar, 5" long with offset end pocket for cutting ID and OD threads; plus, two high-speed steel inserts, TNMC-32NV and TPMC-32NV. SPECS: Bar - .500" shank, 5.0" OAL, with end pocket offset for ID and OD threads, 1.375" minimum bore diameter, 60°. Inserts - .375 IC, .125 thick, .150 hole. T-15 HSS, one TNMC-32NV and one TPMC-32NV. Includes two 6-32 FH screws and 3/16" hex wrench.



#080-000-839 1/2" Threader (NV) Kit, 8K85Q99 \$85.99

1/2" THREADER (LAYDOWN) - Similar to the NV threader kit above but includes a 6" long bar with offset end pocket for cutting ID and OD threads; plus, two high-speed steel inserts, TNMC-32NV and TPMC-32NV. SPECS: Bar - .500" shank, 6.0" OAL, end pocket



BROWNELLS BARREL THREADING LATHE BITS

Pre-Shaped & Ready To Save You Time



Square Thread Bits cut true 10 tpi, square, barrel threads for '03 Springfield and Enfields. 55° Threading Bits have offset cutter and are the correct bit when threading barrels for 98 Mausers. 60° Threading Bits have cutter offset to left for closest cut possible. All types have clearance cuts. SPECS: 1/4" (6.3mm), 3/8" (9.5mm), 1/2" (12.7mm) square. 1/4" (6.3mm) and 3/8" (9.5mm) approximately 2 1/2" (6.4cm) long; 1/2" (12.7mm) approximately 3 1/2" (9.1cm) long.

STK# SQ.	STK# 55°	STK# 60°	SIZE
#080-658-025	#080-658-125	#080-658-225	1/4"
#080-658-056	#080-658-156	#080-658-256	3/8"
#080-658-038	#080-658-138	#080-658-238	1/2"

— Advise # — 1/4" Threading Bit, 2B27I25 \$32.99
— Advise # — 3/8" Threading Bit, 2B28I05 \$39.99
— Advise # — 1/2" Threading Bit, 2B30H53 \$35.99

3/8" THREADING BIT FOR LEVER ACTIONS - Correctly ground threading bits cut true, 12 tpi, square threads for Marlin lever action and Remington Rolling Block rifles. SPECS: 3/8" square, approximately 3" (7.6cm) long. #080-658-338 3/8" Threading Bit, 2B19J93 \$29.99

BROWNELLS BOLT FACING LATHE BIT

Expertly Ground, Ultra-Hard Cobalt Alloy



Cobalt alloy bit provides maximum cutting force to open bolt faces to magnum dimensions. Back rake, front and side clearance, lip angle, cutting angle and chip rake are ground to give best performance in big steels. A must if you don't have a tool-post grinder. SPECS: 2 1/2" (5.4cm) long. 1/4" (6.3mm) or 3/8" (9.5mm) square.

#080-659-250 1/4" Bolt Facing Bit, 3B25N64 \$29.99
#080-659-375 3/8" Bolt Facing Bit, 3B18E83 \$24.99

is offset for ID and OD thread, 1.375" minimum bore diameter, 60°. Inserts - 11° positive, .250 IC, .125 thick, .110 hole, .146 top opening, .015 radius. T-15 HSS, one TNMC-32NV and one TPMC-32NV. Includes two MS-1153 screws and T-7 wrench.

#080-000-840 1/2" Threader Laydown Kit, 8K77G54 \$80.99

1/8" CUT-OFF GROOVER RH KIT - Includes one 1/8" square bar, 4 1/2" long, plus high-speed steel inserts. SPECS: Bar - .375" shank, 4.5" OAL. Inserts - T-15 HSS. Two 1/16" groovers (.062") and two 1/32" groovers (.031"), and one 1/64" groover (.015"). Includes two IS 3007 screws and T-9 wrench.



#080-000-841 1/8" Cutoff Groover RH Kit, 8K86E11 \$97.50

1/16" CUT-OFF GROOVER KIT - Includes one 1/16" square shank bar, 3" long, plus one T-15 high speed steel .062" x 3" cut-off blade. SPECS: Bar - 3/8" shank, 3" OAL. Insert - T-15 HSS, .062" x 3". Includes 1/64" wrench.



#080-000-842 1/16" Cutoff Groover Kit, 8K62P31 \$64.99

END MILL CUTTERS

High Speed Steel & Carbide Handle Gunshop Milling Chores



Four-flute design produces an extra smooth cut. Saves machine time and money.

HIGH SPEED STEEL - For general purpose end milling operations in unhardened steels. Contains 8% cobalt for added toughness.

SPECS: 3/8" dia. shanks. 1/4" (6.35mm) dia. x 1/8" (15.8mm) long cut. 3/8" (9.5mm) dia. x 1/2" long cut. #265-401-250 1/4" HSS End Mill, 5F26A59 \$36.99 #265-401-375 3/8" HSS End Mill, 5F26D59 \$35.99

SOLID CARBIDE - Premium, high feed rate carbide cuts quickly and cleanly in even tough, hardened steels.

SPECS: Shank dia. is same as cut dia. Overall lengths from 2 1/2" (6.35cm) to 3" (7.62cm). 1/4" (6.35mm) dia. x .750" (19mm) long cut. 3/8" (9.5mm) dia. x .812" (20.6mm) long cut. 1/2" (12.7mm) dia. x .875" (22.2mm) long cut. 3/4" (19.0mm) dia. x 1" (25.4mm) long cut. 1" (25.4mm) dia. x 1" long cut. #317-111-250 1/4" Carbide End Mill, 7A26M40 \$38.99 #317-111-312 3/8" Carbide End Mill, 7A33D29 \$59.99 #317-111-375 3/8" Carbide End Mill, 7A36M01 \$53.99 #317-111-437 1/2" Carbide End Mill, 7A47G73 \$60.99 #317-111-500 3/4" Carbide End Mill, 7A59Q89 \$84.99

SOLID CARBIDE BALL END MILLS

Carbide For Cavities, Round Bottoms



Four-flute, center-cut design produces smooth cuts and allows plunge cutting to eliminate pre-drilling. Right-hand cut, right-hand helix. Use in right-hand turning equipment. Single-ended. Premium, high feed rate carbide for hardened steels. SPECS: Shank dia. is same as cut dia. Overall lengths from 2 1/2" (6.35cm) to 3" (7.62cm). 1/4" (6.35mm) dia. x .750" (19mm) long cut. 3/8" (9.5mm) dia. x .812" (20.6mm) long cut. 1/2" (12.7mm) dia. x .875" (22.2mm) long cut. #317-140-250 1/4" Crbd Ball End Mill, 7A32E78 \$45.99 #317-140-312 3/8" Crbd Ball End Mill, 7A38B26 \$57.99 #317-140-375 3/8" Crbd Ball End Mill, 7A49N14 \$62.99

SOLID CARBIDE END MILLS



Ideal For 1911 Slides - Other Hardened Steels

The easiest way to get a good, clean cut in hardened steels. Perfect for altering 1911 slides for low mount style rear. (Cut most of slot with mill, finish with dovetail cutter.) Gives extended tool life when used in softer metals. 3/16" diameter is the right cutter to use when converting Remington M-700 bolts to accept Sako-style extractors. SPECS: Hardened carbide steel cutters. Available in 1/8" (3.17mm) diameter shank with 3/8" (9.5mm) cut length. 3/16" (4.7mm) diameter shank with 1/2" (12.7mm) cut length or 1/4" (6.35mm) diameter shank with 3/4" (19.0mm) cut length. 4-flute.

STOCK #	OVERALL	DIAMETER	PRICE
#317-000-004	1.5" (3.8cm)	3/16" (3.17mm)	7A14D90 \$20.99
#887-205-005	2" (5cm)	3/16" (4.7mm)	7H15J82 \$22.99
#887-205-010	2.5" (6.3cm)	1/4" (6.35mm)	7H20H36 \$29.99



GUARANTEED.FOREVER.®
SINCE 1939

SAKO EXTRACTOR MILLING CUTTERS



Helps You Install A Durable Sako Extractor On Your Remington Bolt

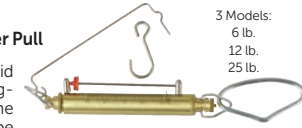
Carbide, center-cutting, four-flute mills precisely cut the groove necessary to install a Sako extractor on your Remington bolt for positive, reliable extraction. High-cobalt content improves feed rates for fast cutting. Order the cutter that matches the width of your Sako extractor. **SPECS:** High-cobalt carbide. Order cutter that matches your Sako extractor slot width.

STOCK #	SLOT WIDTH	SIZE	PRICE
#317-000-005	.152"	5/32"	7A20D51 \$ 27.99
#317-000-006	.172"	3/16"	7A22Q90 \$ 32.99
#317-000-007	.231"	5/64"	7A27F20 \$ 41.99

! RECORDING! TRIGGER PULL GAUGE

Accurate, Positive Measurement Of Trigger Pull

This heavy-duty, solid brass, Recording Trigger Pull Gauge solves the problem of trying to see where that little pointer on the gauge was when the trigger released. A "tally" is pushed along a rod by the pointer. When the trigger releases, the pointer flies back... but the "tally" stays put, giving positive reading. Has deeply embossed black numbers in pounds, ounces and grams. Zero adjustment. Precision spring. Extra long trigger hook to clear grips and stocks. Large hand loop. **6 lb.** measures to 6 lb. in 1 oz. increments. Especially useful for gun work as most scales/gauges measure only to 4 or 4½ lbs. ... not enough to measure many triggers. Plus a second scale, the **12 lb.** with a 12 lb. capacity reading in 2 oz. increments. Ideal for measuring factory pull on double-action revolvers and other heavy triggers. **25 lb.** measures to 25 lbs. in 4 oz. increments. Some DA pulls even exceed the 12 lb. figure, hence this model. Also great as a way to weigh even the heaviest target or benchrest guns. **SPECS:** 6 lb. (2.7 kg) and 12 lb. (5.4 kg), 8 1/2" (21.5cm) long, 5" (12.7cm) hook. **25 lb. (11 kg), 14" (35.5cm) hook.**



3 Models:
6 lb.
12 lb.
25 lb.

- #174-006-060 **6 lb. Recording Pull Gauge**, 8B122J34..... **\$ 145.99**
- #174-012-120 **12 lb. Recording Pull Gauge**, 8B122A34..... **160.99**
- #174-025-250 **25 lb. Recording Pull Gauge**, 8B126J26..... **167.99**

BROWNELLS TRIGGER PULL HOOKS - Replacement trigger hooks clear stocks and grips and prevent interference for an accurate trigger pull reading. Used with trigger scales.

- #084-169-000 **14" Hook**, 8K7M60..... **\$ 9.99**
- #084-169-001 **5" Hook**, 8K8P56..... **10.99**

NRA OFFICIAL UNIVERSAL TRIGGER WEIGHT SYSTEM

NRA Official Trigger Weights For Referees, Juries, Gun Shops & Shooters

Made to the exacting needs of match referees and international juries, and ideal for gunsmiths to ensure accurate trigger pull testing. Roller ends on both long and short hanging rods automatically keep the weight in the trigger curve. Base with either rod weighs 500 grams. Adding a 1 lb. weight to Base and "Add-On" gives 1360 grams for international rules. **SPECS:** 2" diameter. Short Rod, 12" long. Long Rod, 21" long. Blued steel. Full System includes: Long and Short Rods; Base Weight; 2, 500 g Weights; "Add-On" Weight; (2), 1 lb. (454 g) Weights; (1), 1/2 lb. (226 g) Weight.

- #678-650-000 **Universal Trigger Wts.**, 8G116D12..... **\$ 155.99**

OFFICIAL 4¾ LB. TRIGGER WEIGHT SET

¾ lb. Increments For Referees, Gunsmiths

Approved by NRA because of their consistent, never varying readings in ¾ lb. (4 oz.) increments. Ideal for match referees and gunsmiths tuning triggers for match shooters. The roller on the trigger hook guarantees weight will always be on the center of the trigger curve, ensuring repeatable readings. Optional 24" Long Trigger Weight Rod adapts the set for use with rifles or full stocked handguns and adds ¼ lb. (4 oz.) to base weight.



LONGRIFLES AR-15/AR-308/RUGER® RPR BARREL WRENCH

Helps You Quickly Remove/Install a Barrel, Without Risk of Damage

This wrench aids you in fast, reliable, safe removal/installation of an AR-pattern rifle's barrel nut. It eliminates the headaches of sheared-off pins, damaged barrel nuts, failed wrenches, and blood loss from the operator (namely, YOU). The LongRifles wrench provides secure, non-slip 360-degree contact with the barrel nut - no way this wrench is gonna slip off! A pinch bolt gently cinches the wrench head to the barrel nut, eliminating offset loads that lead to slippage and damage to the barrel or its finish. Fits the standard AR-15 barrel nut as well as DPMS LR-308 (and clones) and the Ruger Precision Rifle®. There's a 1/2" drive socket for use with standard torque wrench or breaker bar, and you can use a 3/8" six-sided wrench, too. Machined from billet steel - NOT A CASTING, so far less risk of a hidden flaw or void in the metal leading to wrench breakage. Smooth tool contours reduce wear and tear to gun parts and your hands. Tough corrosion-resistant Parkerized finish. This is one beast of a barrel nut wrench! **Brownells Gun Tech™ Tip:** The LongRifles Action Wrench requires a little math to use. Torque wrenches are calibrated to the centerline of the square drive. This tool is offset, so its torque values have to be recalculated to ensure the desired amount is actually applied to the fastener. There are a number of Internet tools to help you do this, including this one: www.cncexpo.com/TorqueAdapter.aspx



- #100-025-312 **LongRifles Barrel Wrench**, 7B90E70.... **\$ 95.99**

POWER CUSTOM

REVOLVER FRAME/BARREL WRENCH

Separate Barrels & Frames; A Third Hand For Most Disassembly Jobs

Heavy-duty, high-leverage, wrench and Delrin® blocks give form-fitted support of the frame for barrel removal and other customizing jobs. Insert



Blocks fit on the front of the frame and are used only for barrel removal/installation and tightening or loosening the barrel to regulate sights. Non-marring, aluminum **Barrel Blocks** convert the wrench handle into a barrel wrench. Use two handles, one with frame blocks, one with barrel blocks to remove barrel from frame without a vise. Blocks alone work great as vise jaws.

SPECS: Handle - Steel. 14"(35.6cm) long, 1"(2.5cm) wide, 1" high. Includes Allen wrenches. **Insert Blocks** - Delrin, black. S&W K/L fits Smith & Wesson K and L frames. S&W N fits N frame. CSA/RSA fits all Colt SAA and clones, plus Ruger® Old/New Vaquero®, Blackhawk®, and large-frame old-model three-screw single action revolvers. **Barrel Blocks** - 6061 T6 aluminum. 4 1/2"(11.7cm) long, 1" wide, 1" high.

- #713-000-024 **Frame/Bbl Wrnch Hndl**, 3A105G54.... **\$ 119.39**
- #713-000-086 **S&W K/L Insert Blocks**, 3A57I38..... **59.99**
- #713-000-087 **S&W N Insert Blocks**, 3A57C38..... **59.99**
- #713-000-088 **CSA/RSA Insert Blocks**, 3A57N38..... **59.99**
- #713-000-027 **Uni. SA Barrel Blocks**, 3A36B90..... **49.99**

SPECS: 2"(5cm) diameter weights. 5"(12.7cm) long hook. 1 1/2"(29.2cm) long overall. Blue steel. Optional **Long Trigger Wt. Rod**; 24"(61cm) lg., 1/4 lb. (113kg) wt. **Set** includes: 2 lb. (907 g) base w/hook; (2), 1 lb. (454 g) weights; (1), 1/2 lb. (227 g) weight; (1), 1/4 lb. (113 g) weight.

- #678-434-001 **Long Trigger Weight Rod**, 8G28N83.... **\$ 37.99**
- #678-434-000 **4 1/4 lb. Trigger Weight Set**, 8G83I71.... **112.99**

SURGEON RIFLES ACTION WRENCH

Prevents Damage When Installing Barrel On Surgeon Or Remington 700 Action



Easy-to-use alternative to old-fashioned T-handle action wrenches is specifically designed to prevent damage to receiver when installing and removing barrels. Lets you torque a Remington 700 or Surgeon Rifles action as close as possible to the barrel threads to eliminate unwanted twisting or bowing of the action that can result in distorted bolt raceways and other expensive damage. Inserts in the ejection port; the two "ears" fit in the raceways at the front ring. Insert a 1/2" drive ratchet handle or torque wrench and tighten/loosen the action to the barrel. Works on any length action. **SPECS:** Steel, black oxide finish. Fits Remington 700 and Surgeon Rifles receivers.

- #100-003-675 **Surgeon Action Wrench**, 9B69J99..... **\$ 69.99**

WHEELER ENGINEERING SAVAGE 10/110 BARREL NUT WRENCH SET

Correct Fit & Plenty of Torque for Fast Barrel Swaps

The Savage 10/110 series of rifles is known for three things: (1) being surprisingly accurate (2) being easy to swap himself. As a result, these rifles have become quite popular as the foundation for custom target rifles. A 10/110 with a good target barrel can deliver darned tight groups. The barrel may be much easier to change than those of most other bolt rifles, but it still requires a properly configured wrench such as these wrenches from Wheeler Engineering. One wrench is for notched barrel nuts, the other for smooth nuts, and they fit ALL generations of 10/110 and 12 series rifles with both short and long actions. The notched wrench is about 1 1/4" long, and the tension-adjustable smooth wrench is 7.5" long. Both are made of hardened 3/16" thick steel, with a matte black oxide finish, and have 1/2" square drive holes for a breaker bar or torque wrench so you can get the leverage you need to do a proper job.

- #100-024-575 **Savage 10/110 Barrel Wrench Set**, 7A24B57..... **\$ 28.35**



ZERMATT ARMS BIGHORN ACTION WRENCH



A Sturdy Tool for Working on Zermatt & Other Bolt Actions

Whether you're building a whole new rifle or just swapping barrels on an existing rifle built around the Zermatt Big Horn Arms action, you'll want this wrench. It is ideal for any Big Horn action that has the slot in one side because the wrench will work without disassembling the whole action. Good news: this wrench can also be used on Remington 700 and Savage bolt action rifles! Tempered steel construction with a black oxide finish. It is 7/8" (.875") across the rear wrench/socket flats.

- #100-036-558 **Big Horn Action Wrench**, 4COONIL.... **\$ 85.00**



LYMAN TRIGGER PULL GAUGE

Accurate, Mechanical Pull Gauge Is "Always On" - Never Need To Replace Batteries!



Lyman's mechanical trigger pull gauge is a simple, accurate and inexpensive tool for measuring the weight of your firearm's trigger pull. It measures pull weights from 0 to 12 lbs. in 2 oz. increments, with an indicator for marking the highest weight - very handy if the trigger pull is inconsistent. Features a rolling trigger shoe, "T" handle, and a zero-adjustment wheel. Constructed of tough machined aluminum and steel components to stand up to years of use. VERY useful to have around, even if you don't do a huge amount of trigger work. You're more likely to take on a job when you have the tools to do it right.

- #539-000-204 **Lyman Trigger Pull Gauge**, 5K18I25... **\$ 19.99**



LYMAN ELECTRONIC TRIGGER PULL GAUGE

State-Of-The-Art Technology Gives Fast & Accurate Readings

Just place the hook on the trigger and pull. The large, easy to read LCD quickly displays the results. Strain gauge technology provides accuracy to 1/10 of an ounce from 1 oz. to 5 pounds and to 1/8 oz. from 5 to 12 pounds. Lets you take up to ten readings and display the average. Displays either English or Metric format. **SPECS:** Plastic case. Steel hook, 5/8" (14.6cm) long, 1 1/2" (29.2cm) overall. 1 oz (28.35 g) to 12 lbs. (5.4 kg) range. Includes ballistic nylon storage case.

- #539-000-005 **Electronic Trigger Pull Gauge**, 5K46G99... **\$ 46.99**



ARMORER'S/SHOP TRIGGER WEIGHT SET

Accurately Checks Single- & Double-Action Trigger Pulls From 2 lbs. to 17 1/4 lbs.

Simple, add-on weight system measures pull on all types of triggers, handguns, rifles and shotguns. Weights stack and thread into 2 lb. base weight and measure from 2 lb. to 17 1/4 lb. in 1/4 lb. increments. **SPECS:** Blued steel. 2" diameter weights, 1" long rod. Set includes: (1) 1/4 lb., (1) 1/2 lb., (2) 1 lb., (1) 3 lb. and (2) 5 lb. weights; (1) 2 lb base weight.

- #678-017-000 **Armorer's Trigger Wts.**, 8G19IK20.... **\$ 265.99**



Orders: 800-741-0015

order on the web **brownells.com**

BROWNELLS. PAGE 463



BROWNELLS ACTION WRENCH SYSTEM



Eliminates Torque Damage When Installing/Removing Rifle Or Handgun Barrels

The only commercially available action wrench system that surrounds and supports the receiver ring and recoil lug to distribute potentially damaging torque forces equally. The solid steel base has a unique, machined relief to clear the recoil lug on most Mauser-type bolt action rifles and, the individual, bolt-on Heads are machined to provide an exact fit around and against the receiver ring or barrel nut for each of the firearm models listed. Together, they support the receiver in a ring of steel and greatly increase the amount of surface gripping area to totally eliminate twisted bolt "ways" or damaged, ruined receivers. This is the most advanced, complete, professional-quality, Action Wrench System. With it, you can prevent expensive receiver damage on MOST popular rifle actions, including military models, plus, models for selected handguns. Saves the gunsmith money, you can purchase the **Handle/Base Unit** complete with one of the **Interchangeable Heads**, then add different **Heads**, only as your needs grow - all for a far, far lower investment than ten, individual, specialty wrenches.

SPECS: *Blued steel. Base/Handle Unit - 12 1/4" (31.1cm) long, 1" (2.54cm) diameter. Interchangeable Head - 4 1/2" (11.4cm) wide, 1 1/2" (3.8cm) thick. Complete Wrench - Includes Base/Handle and the required Head(s) for the model listed; 1/2"-20"2 and 3" long bolts; 3/16" Allen wrench; Instructions.*

RUGER MARK I & II - Two-piece head gives complete support to this difficult-to-remove receiver. Locks against the bottom receiver flat and prevents damage to the feed ramp.

- #080-800-111 Complete Ruger Mark I/II Wrench, 8K131E60..... \$ 154.99
- #080-801-111 Ruger Mark I/II Head, only, 8K44L19..... 69.99

SMITH & WESSON REVOLVERS - Steel Base and Handle Unit and dual aluminum heads combine to offer complete protection to K, L and N frame revolvers. Eliminates frame-flex during barrel removal and installation.

- #080-850-002 Complete K Frame Wrench, 8K150P41..... \$ 191.99
- #080-851-002 K Frame Head, only, 8K81Q86..... 106.99
- #080-850-003 Complete L Frame Wrench, 8K176J97..... 220.99
- #080-851-003 L Frame Heads, only, 8K107G83..... 135.99
- #080-850-004 Complete N Frame Wrench, 8K162E77..... 207.99
- #080-851-004 N Frame Head, only, 8K103M71..... 122.99

SINGLE ACTION REVOLVER - Aluminum heads completely enclose those fragile, single action frames to help eliminate expensive frame damage.

SPECS: *Base/Handle Unit - Steel, blue, 12 1/4" (31cm) long, 1" (2.5cm) diameter handle. Interchangeable Heads - Aluminum, 3/4" (19mm) square, 5 1/2" (14cm) long. Complete Wrench - Includes Base/Handle and heads for one gun model, bolts and instructions. Ruger fits Blackhawk, Super Blackhawk and Vaquero size frames.*

STK# COMPLETE WRENCH	STK# HEADS ONLY	FITS
#080-800-173	#080-801-073	Colt SAA
#080-800-174	#080-801-074	Ruger

- Advise # - Complete Wrench, 8K161P45..... \$ 199.99
- Advise # - Heads, only, 8K89N04..... 114.99

BROWNING A-BOLT - Two-piece head clamps around the forward receiver ring for complete contact on the top and sides of this uniquely-shaped receiver.

- #080-800-002 Comp A-Bolt Wrench, 8K131F85..... \$ 154.99
- #080-801-002 A-Bolt Heads, only, 8K59C82..... 69.99

1917 ENFIELD/P-14 - Machined cut in head clears projection on receiver ring. Also fits many commercial variations, such as the Remington Model 30.

- #080-800-017 Comp. 1917 Wrench, 8K107C31..... \$ 124.99
- #080-801-017 1917 Head, only, 8K33F69..... 39.99

LARGE RING MAUSER - Maximum support for the receiver ring. Fits virtually all military and commercial Large Ring Mausers (like Mk X).

- #080-800-098 Comp LR Mauser Wrench, 8K102Q20. \$ 119.99
- #080-801-098 LRM Head, only, 8K30G19..... 34.99

SMALL RING MAUSER - Maximum support for lug and receiver ring of these relatively soft receivers that twist and crush so easily. Fits most military and commercial models.

- #080-800-095 Complete SR Mauser Wrench, 8K106H86..... \$ 124.99
- #080-801-095 SRM Head, only, 8K33F06..... 39.99

MINI-MAUSER - One-piece head provides complete support for lug and receiver. Prevents twisting or crushing receiver.

- #080-800-005 Complete Mini-Mauser Wrench, 8K106F74..... \$ 124.99
- #080-801-005 Mini-Mauser Head, only, 8K33Q87..... 39.99

FN-FAL - Two-piece head fits inch and metric pattern receivers. Provides clearance for full length cocking handle rails.

- #080-800-101 Complete FAL Wrench, 8K110E78..... \$ 169.99
- #080-801-101 FAL Head, only, 8K59C81..... 84.99

M1 CARBINE - Intricately machined to fit around the receiver ring and clear the slide "ways" for solid support on six surface areas. Fits virtually all military and commercial variations.

- #080-800-100 Complete M1 Carbine Wrench, 8K112G40..... \$ 129.99
- #080-801-100 M1 Carb. Head, only, 8K30H30..... 44.99

M14, M1A, M1 GARAND - Supports top, side and bottom of the forward ring of the receiver. Fits most variations of these rifles including the BM-59.

- #080-800-114 Comp. M1A Wrench, 8K106P86..... \$ 124.99
- #080-801-114 M1A Head, only, 8K33Q06..... 39.99

UNIVERSAL - Flat on one side of head to fit most lever actions and some single shot receivers. Machined 45° V on back side of head can be used with shims on odd-shaped receivers when no other head will fit. Will fit Ruger M77 and French MAS.

- #080-800-001 Comp Uni. Wrench, 8K106L86..... \$ 124.99
- #080-801-001 Universal Head, only, 8K33P06..... 39.99

REMINGTON 788 - Two-piece head completely encircles cylindrical style action for 100% surface contact. Bottom Head indexes on the forward guard screw for extra holding power. Includes both heads and longer bolts.

- #080-800-788 Complete Remington 788 Wrench, 8K132Q29..... \$ 154.99
- #080-801-788 Remington 788 Heads, only, 8K60J27..... 69.99

REMINGTON 700 - Two-piece head completely encircles cylindrical style action for 100% surface contact. Upper Head indexes on the forward guard screw and positions recoil lug properly during barrel installation. Includes both heads and longer bolts. Fits all Remington actions with receiver diameter of 1.355". Double-angle design accepts factory lug or Tubb and Shilen tapered design.

- #080-800-700 Complete Remington 700 Wrench, 8K139Q99..... \$ 159.99
- #080-801-700 Remington 700 Heads, only, 8K63F02..... 74.99

FARRELL INDUSTRIES BARREL VISE



Gentle Jaws Hold Virtually Any Barrel

Strong, precision-machined, aluminum barrel vise accepts and clamps your barrel tightly without special jaws. Heat treated nuts easily screw down onto stressproof bolts, compressing the v-shaped, aluminum vise jaws against your barrel. Compact design uses a small amount of bench space.

SPECS: Blocks - Aluminum, anodized, natural finish. Top Block - 2" (5.1cm) wide, 6" (15.2cm) long, 1" (2.54cm) thick. Bottom Block - 2" (5.1cm) wide, 8" (20.3cm) long, 1" (2.54cm) thick. Jaws - 1 1/2" (3.8cm) wide, 4 1/4" (10.8cm) long, 1 1/2" (3.8cm) thick.

- #100-000-910 Farrell Barrel Vise, 8K141B55..... \$ 221.99
- #100-000-911 Vise Jaws, 8K49Q99..... 59.99

SAVAGE 110 - Two-piece head fits completely around, and locks onto, the barrel nut with lugs on the inside radius of both upper and lower Heads. Round fits older Savage 110, 10 and Striker with round groove nut. Square fits newer 110, 10 and Striker with square groove nut.

- #080-800-110 Complete Round Savage 110 Wrench, 8K95F68..... \$ 124.99

Round Savage 110 Heads, only, 8K61P06..... 69.99

#080-800-109 Complete Square Savage 110 Wrench, 8K120E64..... 139.99

#080-801-109 Square Savage 110 Heads, only, 8K59E69..... 69.99

SHORT MAGAZINE LEE ENFIELD - Complete SMLE Action Wrench uses Small Ring Mauser head with a special SMLE Adapter Plate. Fits #1 and #4.

- #080-800-004 Complete SMLE Wrench, 8K123K51... \$ 144.99
- #080-801-495 SMLE Adapter Plate and SRM Head, 8K51P03..... 59.99

#080-801-004 SMLE Adapter Plate, only, 8K13Q18... 19.99

WINCHESTER MODEL 70/WEATHERBY MARK V - Radius on head contacts and supports a full 180° of the forward receiver ring. Recoil lug fits in recess on base. Fits both pre/post '64 actions.

- #080-800-070 Complete Win. 70 Wrench, 8K104E90..... \$ 124.99
- #080-801-070 Winchester 70 Head, only, 8K33L51... 39.99

1903 SPRINGFIELD - Machined cut in head clears projection on receiver ring. Fits '03, '03A1, '03A3, and M2 .22.

- #080-800-003 Complete Springfield '03 Wrench, 8K107F31..... \$ 124.99
- #080-801-003 Springfield '03 Head, only, 8K33B69... 39.99

ACTION WRENCH REPLACEMENT PARTS - Separate parts to fit the Brownells Action Wrench System. **Base/Handle Unit** can be used as a replacement or as a part of your own custom, action wrench or system. **Allen Head Bolt Kit -** 1/2"-20 tpi; 2" length fits one-piece heads, 3" length fits two-piece heads. Wrench is correct, 3/8" size for these bolts. Kit includes two 2" bolts, two 3" bolts and one 3/8" Allen wrench. **Blank Blocks -** Steel Base/Handle Unit and one blank interchangeable head allows the gunsmith to make a wrench to fit virtually any rifle or handgun not listed. Blank, interchangeable-head block, drilled for bolts, available separately for creating two-piece head systems.

- #080-800-900 Base/Handle Unit, only, 8K72I02..... \$ 84.99
- #080-800-903 Action Wrench Allen Bolt Kit, 8K6C45..... 7.99

- #080-800-990 Complete Blank Block Wrench, 8K72E73..... 112.99
- #080-801-990 Blank Block, only, 8K21N76..... 27.99

VIPER BENCH REST BARREL VISE



Simple, Strong, Secure Vise That Grabs A Barrel Like The Dickens!

Here's a simple yet effective barrel vise that will accept any barrel with an O.D. between 3/4" to 1" O.D. and will withstand up to 70 ft. lb. of torquing force on the barrel. Four hardened studs with support springs keep the top plate in place and away from the barrel until you are ready to secure it. Support springs also allow the plate to tilt and make full contact on contoured barrels. Gripping surfaces have a special non-slip powder coating that holds better than rosin and won't mar the barrel's finish. The 1" thick base is extremely rigid and stable, providing plenty of strength for mounting the vise to a work bench.

SPECS: 6061 T6 aluminum. Base - 7" (17.8cm) long x 3" (7.6cm) wide x 1" (2.5cm) thick. 5/8" (14.6cm) c-t-hole spacing for mounting. Holds barrels with 3/4" (1.9cm) to 1" (2.5cm) O.D.

- #100-013-367 Barrel Vise, 6A65J58..... \$ 75.99

BROWNELLS BARREL VISE BUSHING MOLDING KIT

Molds Form-Fit Bushings That Won't Mar The Metal



Convenient, easy-to-use kit allows the gunsmith to cast perfectly fitted, barrel vise bushings for hard-to-match barrel contours and sizes. Machined, aluminum block accepts barrels up to 1 1/2" in diameter. Brownells Steel Bed™ forms super-strength, precision-fit bushings that hold extra tight without scratching or marring the metal surface. Finished bushings fit Brownells Barrel Vise and Universal Clamping Block. Instructions included.

SPECS: Block - Aluminum. 3" (7.6cm) long, 3 1/2" (8.8cm) wide, 2 1/4" (5.7cm) high, 1 1/4" (4.4cm) bore. Accepts barrels up to 1 1/2" diameter. Steel Bed - 1 1/2 fl. oz. (44ml) resin, 1 1/2 fl. oz. hardener, 7/8 fl. oz. (26ml) release agent, measuring spoon, mixing dish, (2) mixing sticks, brown and black dye paks, and (2) release agent applicators.

- #080-000-294 Barrel Bushing Molding Kit, 8K79I55... \$ 79.99
- #080-861-100 Bushing Molding Block, 8K61A26... 79.99
- #081-040-003 2-Gun Steel Bed Kit, 1H44Q99..... 50.99



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BROWNELLS BARREL VISE

Large Surface Area Gives Tremendous Power; Clamps & Holds The Tightest Barrels



To complement our "Ring-Of-Steel" Action Wrench System, we've developed the only professional-quality Barrel Vise that will positively clamp and keep even the tightest barrel from turning during removal...

- #080-860-107 Steel Barrel Vise Set, 8K302E14..... \$ 354.99
#080-860-307 Aluminum Barrel Vise Set, 8K210P50..... 334.99

ALLEN HEAD BOLT KIT - 1/2"-20 tpi x 2" long. Used to hold Top and Bottom Blocks together. Kit includes four bolts and the correct, 3/8" Allen wrench for these bolts.

- #080-800-902 Allen Bolt Kit, 8K5J71..... \$ 6.99

WISE ONLY - Same wise as sold above but by itself; just the top and bottom blocks and the four bolts that hold the halves together. Bushings NOT included.

- #080-860-900 Barrel Vise, only, does not include bushing, 8K110N58..... \$ 119.99

Table with columns: STK# VISE WITH 1 STEEL BUSHING, STK# STEEL BUSHING ONLY, BUSHING NO., I.D. Lists items like #080-860-004, #080-861-004, #080-861-005, etc.

Table with columns: STK# VISE WITH 1 ALUMINUM BUSHING, STK# ALUMINUM BUSHING ONLY, BUSHING NO., I.D. Lists items like #080-860-204, #080-861-204, #080-861-205, etc.

Table with columns: STK# VISE WITH 1 ALUMINUM BUSHING, STK# ALUMINUM BUSHING ONLY, BUSHING NO., I.D. Lists items like #080-860-015, #080-861-015, #080-861-016, etc.

SOLID BUSHINGS - Solid bushings that have NOT been split so you can alter them as you want.

Table with columns: STK# STEEL SOLID BUSHING, STK# ALUM. SOLID BUSHING, BUSHING NO., DIAMETER. Lists items like #080-861-201, #080-861-202, #080-861-203.

QUESTIONS BEFORE YOU BUY — Ask Our Full-Time Tech Staff

BROWNELLS STEEL BED™ STAINLESS STEEL-FILLED EPOXY, RIFLE-BEDDING COMPOUND

WON'T Compress, Crumble Or "Sugar" Under Heaviest Semi-Automatic Or Magnum Recoil Impact



STEEL BED is simply the most-advanced, toughest-ever bedding and stabilizing, steel-bearing, epoxy compound for wood and fiberglass gun stocks...

- #081-040-003 2-Gun Steel Bed Kit, 1H44Q99..... \$ 50.99

CLYMER "MATCH" CHAMBER REAMER



Ream Tighter Chambers For .22 LR & .308 Match Ammo

"MATCH" .22 LR FINISH REAMER - Made to SAAMI match specs for Bolt Action guns using only true, MATCH ammo.

- #184-050-015 "Match" .22 Reamer, 4H75M11..... \$ 75.11

.22 LR "BENTZ" SEMI-AUTO MATCH REAMER - Ensures reliable chambering of true, MATCH ammo in semi-auto guns.

- #184-050-016 "Bentz" .22 Reamer, 4H75A27..... \$ 75.27

.308 MATCH REAMER - For military M-852 match ammo (168 gr. bullets, M14 length); or any load using Sierra 168 gr. boattail.

- #184-050-402 .308 Match Reamer, 4H105C34..... \$ 105.34

NOTES ON CHAMBERING
Some folks are barreling up old Mausers and Enfields for cartridges that are far too hot! For our pre-threaded, short chambered barrels, we have looked at each action and compared the new chambering with the cartridge for which the rifle was originally chambered...

CLYMER .223 & .308 CHAMBER REAMING KITS



Complete Kits For Safe, Accurate Chambering

High-quality finish reamer and precision made headspace gauges make easy work when chambering a new barrel. Precision machined from high-quality steel for a lifetime of service when properly cared for.

- #184-000-043 .223 Chamber Reaming Kit, 4H163D00..... \$ 163.00
#184-000-044 .308 Chamber Reaming Kit, 4H163E00..... 163.00

CLYMER PULL THROUGH CHAMBER REAMERS



Create Super-Accurate Minimum Headspace Chambers On .30 Caliber Match Rifles

The same special reamers military armorers have long used to cut minimum length chambers on match rifles, giving their shooters the accuracy advantage. The gun's own bolt applies pressure to the reamer while reamer is turned from the muzzle end.

- #184-300-308 .308 P/T Reamer, complete set, 4H190C43..... \$ 190.43

- #184-300-306 .30-06 P/T Reamer, complete set, 4H190J44..... 190.44

- #184-300-309 .308 P/T Reamer, only, 4H160J00..... 160.00

- #184-300-307 .30-06 P/T Reamer, only, 4H160A00..... 160.00

- #184-300-310 Thrust Bushing, only, 4H15Q00..... 15.00

- #184-300-311 Extension Shaft, only, 4H30J47..... 30.47

Orders: 800-741-0015

order on the web brownells.com



CLYMER CHAMBERING REAMERS



Finest Workmanship & Quality; Made in USA From M-7 High Speed Steel

Made from best quality, M-7 High-Speed Steel. These are precision tools for the professional gunsmith. Fully guaranteed. Roughers are .010" smaller in diameter than the final size, do not cut the throat area and should be used to save wear on the Finish Reamer when many chambers are to be cut. If only a few chambers will be cut, a Finish Reamer is all you need.

SPECS: RIFLE REAMERS - 6, right-hand cutting, straight flutes. Solid pilot, integral throat. 1/16" round shank with 1/8" square drive, 1/4" round shank on .22 RF. PISTOL REAMERS - 6, right-hand cutting, straight flutes. Solid pilot. Integral throat. Available in two different pilot diameters: Barrel for Single Shot or Semi-Auto pistol and rifle barrels; Cylinder for Revolver cylinders. 7/16" dia. shank with 3/8" square drive, depending on caliber, 1/4" round shank on .22 RF. Stocked in Finisher style only. SHOTGUN REAMERS - 6 or 8, 8" left-hand, spiral flutes, or straight flutes (indicated by * in table). 1" long removable bushing. 1/2" square shank, uses standard socket set extension (except .410 which uses Clymer rifle extensions). Stocked in Finishers only. THROATERS - 5, left-hand, spiral flutes. .002" larger than bullet diameter. 2-1/2" throat angle. Used to lengthen throat to increase freebore. 1/2" diameter round shank.

ORDERING: Advise: 1) Stock #. 2) Cartridge Caliber and Name. 3) Rougher or Finisher. If NA is in the Stock # column, it means that we do not stock the item, but it usually is in stock with Clymer. We will be happy to provide you a price on request (POR) and order it for you, but will require full payment in advance and the order will be non-cancelable and non-refundable. Anticipate 4-8 weeks delivery time. 4) Bushing Blank can be used only on 12, 16 and 20 ga. reamers.

- #184-054-512 12" Rifle Ext., 4H35N32 \$ 35.32
#184-054-650 Rifle T-Handle, 4H35J31 35.31
#184-054-653 Throatier/.22 T-Handle, 4H35M31 35.31

Table with 4 columns: STK# FINISHER, STK# ROUGHER, FITS, PRICE. Lists various rimmed and rimless rifle cartridges, belted cartridges, and rimless pistol cartridges with their respective prices.

Table with 4 columns: STK# FINISHER, STK# ROUGHER, FITS, PRICE. Lists various rifle and pistol cartridges (ranging from .45 ACP to .270 Winchester) with their respective prices.

MANSON PRECISION REAMERS

LIVE PILOT FINISH CHAMBER REAMER



Cuts A Smooth, Precise Chamber With Less Chance Of Rifling Damage

Removable (live) pilot greatly reduces the risk of scratching the lands when cutting the chamber to final dimensions, so you get the best possible chambering job for maximum accuracy. Snug-fitting pilot helps provide extra-stable "live center" alignment to maintain proper chamber-to-bore alignment. Precision ground from high speed M7 tool steel for smooth, clean cutting and maximum service life. Includes one pilot for caliber listed.

SPECS: M7 high speed steel, in-the-white. Live pilot, six straight flutes, right hand cut. 3/16" (9.5cm) square drive shank. Includes one (1) pilot for caliber listed. .223 & .22-250 - .2185" pilot O.D. .308 & .30-06 - .2995" pilot O.D. .38-55 - .3655" or .3725" pilot O.D.

- #513-000-088 .223 Pilot Reamer, 3A140L00 \$ 140.00
#513-000-089 .22-250 Pilot Reamer, 3A140G00 140.00
#513-000-086 .308 Pilot Reamer, 3A140J00 140.00
#513-000-087 .30-06 Pilot Reamer, 3A140N00 140.00
#513-000-099 .38-55 Pilot Reamer, 3A150B00 150.00

VIPER

CHAMBERING & TRUING FIXTURE

Helps You Chamber Any Length/Contour Barrel



This handy three-in-one fixture helps you chamber rifle or pistol barrels, including contoured barrels, regardless of length, from the chuck side of your lathe. Also use it to true up any bolt or bolt face, and to true up Remington actions. Fits a four-jaw independent chuck; may be modified for use in three- or six-jaw chuck. Machined aluminum tube with hardened steel setscrews that are brass tipped to prevent marring the work piece. Built-in safety feature prevents setscrews from sticking out beyond the fixture and catching on your clothes.

- #100-015-759 Chambering & Truing Fixture, 6A255E72 \$ 257.14

BROWNELLS UNIVERSAL DO-DRILL™

Our Most Popular Drilling, Machining, Tapping & Cutting Oil



Many of our gunsmith customers have told us this is the best product we've ever offered for tapping, drilling and cutting all types of heat-treated steels, moly and stainless. Excellent for chambering and boring jobs, a coolant for lathe, mill and shaper work - will speed production and reduce tool costs in your shop every day. Non-evaporating, does not require stream application for 99% of the jobs, it follows the tap or drill in the work. A moneysaver.

We know of cases where all four holes for a mount have been drilled and tapped using DO-DRILL™, and the tap was still sharp enough for future use. With taps as high priced as they presently are, you cannot afford NOT to use it.

- SPECS: Net Contents; 16 oz. (473 ml) or 1 gal. (128 fl. oz./3.8 L).
#083-007-016 16 oz. Do-Drill, 5L10N16 \$ 15.99
#083-008-128 1 Gal. Do-Drill, 5L75F57 92.99

GUARANTEED.FOREVER.® SINCE 1939



Clymer Gauge Shown

FORSTER & CLYMER HEADSPACE GAUGES

Absolutely Essential For Accurate, Safe, Chamber Work

The only way to accurately measure and test the length of the chamber of the rifle. Essential when chambering a new barrel to ensure a tight, accurate, safe chamber.

change after this catalog is published. Also, gauges for certain less-common cartridges may cost more than the standard price. Check Brownells.com or ask one of our phone order takers for current price.

Advise # - Clymer Headspace Gauge, 4H30A00 \$ 30.00
Advise # - Forster Headspace Gauge, 9A27H86 \$ 31.99

Table with columns: CARTRIDGE, HEADSPACE GAUGE NAME, CLYMER GAUGE GO, CLYMER GAUGE NO-GO, FORSTER GAUGE GO, FORSTER GAUGE NO-GO, FORSTER GAUGE FIELD. Lists various cartridges and their corresponding gauge part numbers.

Table with columns: CARTRIDGE, HEADSPACE GAUGE NAME, CLYMER GAUGE GO, CLYMER GAUGE NO-GO, FORSTER GAUGE GO, FORSTER GAUGE NO-GO, FORSTER GAUGE FIELD. Continuation of the gauge list from the previous table.

Table with columns: CARTRIDGE, HEADSPACE GAUGE NAME, STK# CLYMER GAUGE GO, STK# CLYMER GAUGE NO-GO. Lists shotshell gauges.

Advise # - Shotshell Headspace Gauge, 4H45H00 \$ 45.00

BROWNELLS/FORSTER MATCH RIFLE HEADSPACE GAUGES

In .001" Increments For Measurement Of "Match Grade" Chambers

Covers every size chamber all the way from Go to Field. Perfect for match shooters, armors, or sportsmen looking for the most accurate way to track locking lug and chamber wear on high quality, match grade barrels.

SPECS: Individual high speed steel gauges, hardened and ground. .308 Match Gauge Kit contains 1 of each .308 size listed in table, packaged in plastic case.



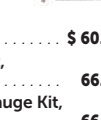
Table with columns: STOCK #, CALIBER, SIZE, TYPE. Lists match rifle headspace gauge kits with their specifications.

Advise # - Forster Headspace Gauge, 9A27A86 \$ 31.99
Advise # - Match Gauge, 9A25A71 \$ 30.99
#079-308-000 .308 Match Gauge Kit, 9A237H51 \$ 259.99



CLYMER GO/NO-GO GAUGE SETS

Headspace Gauge Sets For Rifles, Handguns & Shotguns



Convenient kits contain "Go" and "No-Go" gauges for accurately checking chamber length to make sure it meets SAAMI or CIP specs.

- List of Gauge Kits with prices: #184-000-051 .22 LR Headspace Gauge Kit, 4H60F00 \$ 60.00; #184-000-037 .223 Rem. Headspace Gauge Kit, 4H66D00 66.00; #184-000-081 6.5x47mm Lapua Headspace Gauge Kit, 4H00FZS 66.00; #184-000-038 .308 Win. Headspace Gauge Kit, 4H58L00 58.00; #184-000-040 .30-06 Headspace Gauge Kit, 4H58G00 58.00; #184-000-039 7.62 x 39 Headspace Gauge Kit, 4H58A00 58.00; #184-000-047 7.62 x 54R Headspace Gauge Kit, 4H60I00 60.00; #184-000-042 9mm Luger Headspace Gauge Kit, 4H60M00 60.00; #184-000-050 .40 S&W Headspace Gauge Kit, 4H60H00 60.00; #184-000-041 .45 ACP Headspace Gauge Kit, 4H60P00 60.00; #184-000-048 12 Gauge Headspace Gauge Kit, 4H90A00 90.00

CLYMER FIELD HEADSPACE GAUGES

Measures The Largest Safe Dimensions

Field gauges are essential tools for ensuring a safe chamber on used rifles. Slightly longer than a No-Go gauge, the Field gauge is used to measure the absolute maximum allowable, safe chamber headspace. If the bolt closes on a No-Go gauge, the Field gauge is used for an additional check. If the bolt then closes on the Field gauge, the rifle is considered unsafe to shoot, and you'll have to have the barrel rechambered. Includes a durable, plastic storage case. Available for .308 and .30-06 caliber chamber lengths. **SPECS:** Steel, precision machined to SAAMI specs. **.308 fits .243, .260, 7mm-08, .308, .338 Federal, and .358 Win. .30-06 fits .25-06, .270 Win, .30-06, 8mm-06, .338-06, and .35 Whelen.**

#184-000-045 .308 Field Gauge, 4H29M00 \$ 29.00
#184-000-046 .30-06 Field Gauge, 4H29E00 29.00



MIXING AND MATCHING BRANDS OF HEADSPACE GAUGES

DON'T DO IT! That's the short answer, here's why. It boils down to tolerance stacking. Each Headspace Gauge manufacturer works within a range specified by SAAMI. Manufacturer "A" may work at the high end of the range while Manufacturer "B's" gauges are in the middle of the tolerance range. Mixing the two could give an inaccurate reading. By sticking with one brand within a particular caliber, you will eliminate a variable. If you have a Forster, .308 GO gauge, get a Forster, .308 NO GO. Use Clymer with Clymer and Manson Precision with Manson Precision, etc. However, you can use any brand of headspace gauge with any other brand of chambering reamer. e.g. Forster Head-space Gauges with Clymer Reamers, Manson Precision Gauges with JGS Reamers, etc.

BROWNELLS

79° MUZZLE CROWNING CUTTER

Cuts Popular "11" Target Crown

Hardened steel, muzzle crowning tool cuts a slight (11° less than square) target chamfer on barrels. Gives good rifling protection without going too deep. 90° - 11° = 79°, hence the name. Eight, precision-machined flutes give smooth, chatter-free cuts to help eliminate extra lapping or stoning. 1/4" - 20 thread fits Brownells muzzle chamfering handles. Use with our muzzle pilots to ensure precise alignment with your bore. Available in 1/2" and 3/4" diameters to accommodate most rifle/handgun barrel diameters. **SPECS:** Tool Steel, 2 1/2" (6cm) overall length, 1/2" (1.3cm) or 3/4" (1.9cm) O.D. 1/4"-20 tpi.

#080-586-500 1/2" 79° Crown Cutter, 7A35M72 \$ 52.99
#080-586-750 3/4" 79° Crown Cutter, 8K41K02 52.99

.17 CAL. 11° MUZZLE CROWN CUTTER - Machined using the same specifications as our other crown cutters but with a smaller diameter hole to accept Brownells .17 caliber pilots. 3/4" O.D. for rifle and handgun barrels.
#080-000-184 .17 Cal., 3/4" Crown Cutter, 8K40G38 . . \$ 54.99



BROWNELLS

MUZZLE FACING/CROWNING CUTTER DRILL CHUCK ADAPTER

Face, Crown & Chamfer With Any 3/8" Drill

Adapts Brownells 1/4"-20 threaded, Facing, Crowning and Chamfering Cutters to your 3/8" drill press or drill to get a chatter-free, finish cut. **SPECS:** Steel. 2" (5cm) long. .360" (9mm) dia. shaft, 1/4"-20 thread.

#080-962-000 Drill Chuck Adapter, 8K10D16 \$ 12.99



BROWNELLS RIFLED SHOTGUN MUZZLE FACING PILOTS

Safe Muzzle Touch-Up For Rifled Slug Barrels

Polished brass pilots turned to uniform concentricity make it easy to clean up and square-off dinged or re-cut muzzles on 12 and 20 gauge, rifled slug barrels without damaging the lands and grooves. Use with Brownells 1" Diameter, 90°, Muzzle Facing Cutter for best results. Measure bore I.D. between tops of lands to determine closest pilot listed for your barrel. If your barrel's diameter isn't listed, select the closest, smaller size. Available in three diameters for 12 and 20 gauge, rifled slug barrels. **SPECS:** Brass. 2" (5.1cm) long. 12 Ga. - Pilots available to fit .718" bore diameter. 20 Ga. - Pilot fits .609" bore diameter. 1/16" shank fits Brownells Muzzle Facing Cutter.

#080-943-207 12 Ga., .718" Rfl'd a Pilt, 7A18P23 \$ 24.99
#080-943-209 20 Ga., .609" Rfl'd Bbl Pilt, 7A27Q11 27.11

#080-586-910 1" Diameter, 90° Muzzle Facing Cutter, only, 8K59N55 74.99

#080-589-000 Facing & Chamfering Tool Handle, only, 1/4"-20 thread, 8K12C63 14.99

BROWNELLS 45° BRASS MUZZLE LAP

Polish Chamfers; Lap Edges; Improve Accuracy

Use to polish after using 45° Chamfer Cutters or for lapping out dings, sharp edges, etc. Mount in a variable speed drill and use our Silicon Carbide grits. Made of half-hard brass to hold polishing grit well. **SPECS:** 1 1/4" (3cm) lg. 3/8" (16mm) dia. body. 1/4" (6.3mm) dia. shank.

#080-624-045 45° Brass Muzzle Lap, 2K12L09 \$ 14.99



BROWNELLS POWER CUSTOM BRASS MUZZLE CROWNING LAP

Genuine Brass Laps For All Rifle & Handgun Barrels

Four different sizes of brass laps produce a beautiful, finished crown on all pistol and rifle barrels when used with 600 grit silicon carbide abrasive and your hand drill. **SPECS:** Brass. 3" (7.62cm) long. Sets include (4) laps, one of each size.

#080-764-000 Muzzle Lap Set, 8K38J62 \$ 45.99

STOCK #	FIT BORE SIZE	TIP RADIUS	PRICE
#080-764-243	.17-.65mm	3/32" (3.96mm)	8K11P75 \$ 13.99
#080-764-350	.270-.35	1/16" (4.76mm)	8K11N32 \$ 13.99
#080-764-410	.38/.357-.41	1/4" (6.35mm)	8K11D31 \$ 13.99
#080-764-500	44-.50	3/16" (7.93mm)	8K13F91 \$ 16.99



NEW! CALIBER ACTION PROVING DUMMIES



Inert, Factory Spec Dummies Give Safe Function Testing

Manufactured to exact specifications, including diameter and length dimensions, weight and balance of factory loaded ammo, these dummies have the proper functioning characteristics to reliably check magazine feeding, action timing, extraction and ejection of all guns. The only professionally accepted and safe way to check gun functioning; live ammo should never be used except in actual test-firing on the range - after you have checked the gun with dummies. The very reasonable cost per dummy is an added incentive to use them regularly. The blackened case makes them distinct, and instantly recognizable as dummies, which makes them ideal - and safe - to use as a sales aid. Especially useful when demonstrating how a particular gun functions or in gun safety instruction classes. They absolutely eliminate the chance of an accidental discharge.

STOCK #	PER	CALIBER	PRICE
RIMFIRE DUMMIES			
#187-000-034	6	.17 MACH 2	5K7M99 \$ 9.99
#187-000-033	6	.17 HMR	5K7P99 \$ 9.99
#187-000-043	6	.22 Long Rifle	5K7A99 \$ 9.99
#187-000-044	12	.22 Long Rifle	5K10H99 \$ 13.99
#187-000-042	6	.22 WMR	5K7M99 \$ 9.99
CENTERFIRE RIFLE DUMMIES			
#669-243-005	5	.243	7F11C17 \$ 16.99
#669-243-020	20	.243	7F43M42 \$ 57.99
#669-251-005	5	.250 Sav.	7F9K75 \$ 13.99

STOCK #	PER	CALIBER	PRICE
#669-270-005	5	.270	7F11D71 \$ 15.99
#669-270-020	20	.270	7F45A62 \$ 60.99
#367-000-007	5	.270 WSM	7F15G10 \$ 20.99
#367-280-005	5	.280 Rem.	7F9C13 \$ 11.99
#669-284-005	5	.284 Win.	7F11Q17 \$ 16.99
#669-757-005	5	7x57	7F11D87 \$ 15.99
#367-708-005	5	7mm-08	7F14B46 \$ 21.99
#669-700-005	5	7mm Mag.	7F15G87 \$ 22.99
#367-284-005	5	7mm RUM	7F13G98 \$ 19.99
#367-300-005	5	.300 Win. Mag.	7F15G00 \$ 21.99
#367-301-020	20	.300 WSM	7F46B88 \$ 69.99
#669-301-005	5	.300 H&H	7F18N38 \$ 27.99
#080-001-390	20	7.62x51 NATO (.308 Win)	2A70H00 \$ 70.00
#367-030-010	5	.30 M1	7F10M25 \$ 11.99
#669-338-005	5	.338 Win.	7F12H43 \$ 17.99
#367-339-005	5	.338 RUM	7F13I98 \$ 19.99
#669-358-005	5	.358 Win.	7F10Q86 \$ 15.99
#367-450-005	5	.450 Marlin	7F19L56 \$ 28.99

STOCK #	PER	CALIBER	PRICE
CENTERFIRE HANDGUN DUMMIES			
#367-000-015	5	.32 H&R Mag	7F7F65 \$ 10.99
#367-918-010	10	9mm Makarov	7F13L22 \$ 19.99
#367-000-002	5	.357 Sig.	7F10H39 \$ 11.99
#367-000-001	50	.357 Sig.	7F1H51 \$ 93.99
#669-384-010	5	.38-.40	7F12B06 \$ 13.99
#669-044-010	10	44 Spec.	7F14B15 \$ 18.99
#367-480-005	5	.480 Ruger	7F12N27 \$ 17.99

BROWNELLS 45° TWELVE-FLUTE MUZZLE CHAMFER CUTTER

Smooth, Chatter-Free Cutter & Interchangeable Brass Pilots



A ready-to-use combination of twelve-flute cutter and brass pilot for touching up minor rifle muzzle imperfections that can destroy fine accuracy. Twelve flutes cut smooth and chatter-free so no stoning, lapping or touch-up is required. Hardened brass pilots won't scar or damage delicate rifling. A very handy tool to take along to the range or keep in your tool box, "just in case". **SPECS:** Cutter - tool steel, 3 1/4" (8.2cm) long. Handle - aluminum 3 1/2" (8.8cm) long 1/4"-20 threads. Pilot - brass, 1 1/4" (3cm) long. One Caliber Set includes cutter, pilot and handle.

#080-588-625 3/4" Diameter, 45° Chamfer Cutter, only, 8K51G64 \$ 59.99

#080-589-000 Facing & Chamfering Tool Handle, only, 1/4"-20 thread, 8K12C63 14.99

STK# ONE CAL SET	STK# BRASS PILOT ONLY	FITS
#080-930-223	#080-943-023	.22 Centerfire Muzzle
#080-930-243	#080-943-243	6mm/.243 Muzzle
#080-930-284	#080-943-007	7mm Muzzle
#080-930-308	#080-943-308	.30 Muzzle

— Advise # — **One Cal. Muzzle Chamfer Set, 8K82P05 . . \$ 95.99**

— Advise # — **Brass Muzzle Pilot, only, 8K20K04 26.99**

BROWNELLS MUZZLE RADIUS CUTTER

The Finishing Touch On Barrel Crowning Jobs

Easily removes the sharp outside edge that remains after shortening or crowning a barrel. Easy-to-use cutter requires only a hand drill to quickly cut a smooth radius for a nicely finished look. Three cutter sizes to fit most barrels. **SPECS:** Hardened Steel. .615" (15.6mm), .715" (18.1mm), .815" (20.7mm), .920" (23.4mm) cutter diameters.

#080-908-615 .615" Muzzle Radius Cutter, 8K19P04 . . \$ 28.99
#080-908-715 .715" Muzzle Radius Cutter, 8K26Q45 . . 30.99
#080-908-815 .815" Muzzle Radius Cutter, 8K26P98 . . 31.99
#080-908-920 .920" Muzzle Radius Cutter, 8K19P08 . . 28.99



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BROWNELLS PAGE 469

FORSTER UNIVERSAL SIGHT MOUNTING FIXTURE



The Accurate, Professional Way To Mount Scopes & Sights

Designed to fill the exacting requirements encountered in drilling and tapping holes for the mounting of scope mounts, receiver sights, shotgun beads, etc. Accepts virtually all bolt action, lever, and pump guns; in fact, any single barrel gun as long as the barrel can be laid into the "V" blocks of the Fixture. Tubular magazine guns are done in the same manner by first removing the magazine tube. The Fixture will locate the holes to a standard, predeter-mined spacing built into the over-arm, or to any other spacing by sliding the over-arm in either direction. "Run out" of the drill is eliminated as it is guided through a hardened and ground drill bushing. Tapping is done through another bushing that eliminates cocking (and breaking) the tap. The sliding over-arm has three holes with standard spacing of .500" and .860" between centers into which the interchangeable drill and tap guide-bushings fit. The over-arm is always in true alignment with the exact center of the gun barrel. The main body of the Fixture is cast aluminum. The two "V" blocks are adjustable for height and made of hardened steel accurately ground on the "V" as well as the shaft.

- SPECS: Approx. 20" (50.8cm) long. Comes complete with Drill and Tap Bushing Set for 6-48. Other bushings also available.
#319-400-000 Forster Sight Fixture with 6-48 bushing, 9A387J86 \$ 459.99
#319-400-936 Drill Bushing #36, 9A8E02 10.99
#319-400-945 Drill Bushing #45, 9A7E28 9.99
#319-400-700 Round Pad, pair, 9A2C99 3.99
#319-400-900 Forster Locating Pin, 9A10H31 13.99
#319-400-901 Forster C-Clamp, 9A11N25 16.99
#319-400-902 C-Clamp Set Screw, 9A2P99 3.99

Table with columns: STOCK #, BUSHING, STOCK #, BUSHING. Lists various bushing sets and their prices.

- Advise # — Bushing Set, each, 9A23D57 \$ 26.99
— Advise # — Drill Bushing, each, 9A15E82 18.45



BROWNELLS SCOPE RING ALIGNMENT LAP



Trues & Aligns Scope Rings; Prevents Damage

Helps prevent dinged and damaged scope tubes by removing high spots to quickly true misaligned or out-of-round scope rings so they're perfectly in line. Also works to turn- in and rough align rotary dovetail rings. Dual-handles with multiple, transverse, lapping compound grooves give complete control and fast results. Includes lapping compound.
SPECS: Mild steel, in-the-white, 12" (30cm) long, 1" (2.5cm) or 30mm (1.8") dia. Includes (2) plastic handles and instructions.
#080-903-100 1" Alignment Lap, 8K44J40 \$ 69.99
#080-903-130 30mm Alignment Lap, 8K68D37 79.99

Orders: 800-741-0015

WILLIAMS SCOPE MOUNT DRILL FIXTURE

Drill Perfectly Centered Holes On Round, Flat Or Octagon Receivers



Simple, easy-to-clamp jig aligns the proper drills and taps so you get perfectly-centered, cleanly-threaded scope base holes without all the extra setup time and hassle. Based on the principle of sliding parallels, this jig places locking, hardened drill bushings in one of three different hole spacing patterns. Gives the versatility to drill and tap for almost any scope mount base.

SPECS: Steel & aluminum, black finish. Approximately 5 1/2" (14cm) long, 2 1/4" (7cm) wide. Fits receivers between .630" and 1.440" in diameter. Includes #31 (6-48) and #28 (8-40) drill and tap bushings.
#962-368-980 Scope Mount Drill Fixture, 2F110H93 \$ 128.99

BROWNELLS SILICON CARBIDE ABRASIVE COMPOUND



Sharp-Edged Silicon Carbide Self-Lubricating Petroleum Base

The very best abrasive compound for "hard fitting" two pieces of steel. Stands up to continued fitting even on hardened and heat-treated steel. Silicon carbide grit combined with a thick, long lasting lubricant breaks down into smaller and smaller sharp-edged particles to keep cutting longer than aluminum oxide compounds. For use on steel only. Remove with solvent.
SPECS: 4 fl. oz. (118 ml).

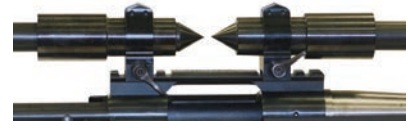
Table with columns: STOCK #, GRIT SIZE, PRICE. Lists various grit sizes and their prices.

SILICON CARBIDE ABRASIVE KIT - Puts the most useable selection of our shop proven, oil-based, silicon carbide abrasive compound together in a convenient try- pak. Handy, 2 oz. jars give you just the right amount of long lasting, sharp-edged abrasive that cuts longer and won't break down. The best choice for close fitting of hardened and tempered steels. 4 oz. replacement containers listed above.
SPECS: 2 fl. oz. (59 ml). Kit contains 120, 180, 240, 320, 400, 600 and 800 grit.
#080-905-000 Silicon Carbide Abrasive Kit, 8K48E49 \$ 61.99

SILICON CARBIDE ABRASIVE GRIT - Very fine abrasive powders you can use to "rub in" parts. Make an abrasive/cutting-oil paste for metal work or use dry on a soft pad to bring a cured stock finish to a gloss. Follow with Brownells Stock Rubbing Compound.
SPECS: 120 grit (coarse); 600 grit (fine). 1 lb. net wt. in plastic jar.
#080-537-120 120 Grit Silicon Carbide, 5L12B24 ... \$ 14.99
#080-537-600 600 Grit Silicon Carbide, 5L20P51 ... 24.99



BROWNELLS SLEEVED SCOPE ALIGNMENT RODS



Perfect Scope Ring Alignment For Both 1" & 30mm Rings

Aligns scope rings quickly; puts an end to kinked or "dinged" scope bodies. When the two points touch, your rings are perfectly aligned. Versatile, adjustable length design works for all ring spacings, from close to wide. Outer sleeves fit both 1" and 30mm scope rings. Sliding, inner rods clearly show if bases need shimming or if receiver holes are correctly aligned.
SPECS: Machined steel, blued. Kit includes (1) 8 1/2" (21cm) long rod, (1) 5 1/2" (14cm) long rod, (2) 1" 30mm diameter outer ring sleeves, and complete instructions in a hard-shell storage box.
#080-918-000 Sleeved Alignment Rods, 8K51M35 ... \$ 64.99



BROWNELLS SCOPE ALIGNMENT RODS



Instantly Aligns; Prevents "Kinked", Marred Scopes

Easily and quickly align scope and rings with perfect accuracy before mounting and "dinging" the scope. Clamp one rod in each ring; if the points don't touch, they're out of alignment. The cause could be mismatched rings, the wrong bases, bases that need shimming or a "tweaked" action. Well worth the small cost and time required to prevent damaging a scope.
SPECS: 4 1/2" (10.7mm) long each. 1" (25.4mm) or 30mm (1.18") diameter. Machined aluminum.
#080-730-000 1" Alignment Rods, 8K32H99 \$ 34.99
#080-730-030 30mm Alignment Rods, 8K30N31 34.99

- #080-730-000 1" Alignment Rods, 8K32H99 \$ 34.99
#080-730-030 30mm Alignment Rods, 8K30N31 34.99

LEUPOLD RING WRENCH

No-Damage Installation



Non-marring synthetic tool turns rotary dovetail rings without damage. Lets you quickly adjust rings for correct alignment. Fits all brands of rotary dovetail rings.
SPECS: Synthetic, black. 8 1/2" (21.5cm) long.
#526-000-042 Leupold Rotary Dovetail Ring Wrench, 4K11E74 \$ 13.79

LEUPOLD SCOPESMITH TOOL



Handy Size, Use At The Bench, Take To The Range

Folding tool has the right bit sizes to fit nearly all scope mounting needs. Four hex drivers from .050" to 9/64". Two TORX wrenches, T-15 and T-25. Plus, 1/8" flat blade.
SPECS: Drivers: Chrome vanadium steel, blue, matte finish. Handles; re-inforced resin, Black.
#526-522-960 Scopesmith Mounting Tool, 4K15C93... \$ 19.00

Sinclair SCOPE RING ALIGNMENT TOOL

Instantly Aligns 1" Or 30mm Rings To Prevent Scope Damage



Precision machined aluminum tool allows you to instantly align 1" or 30mm scope rings to prevent bending, twisting, or marring the scope body. Center rods are length adjustable to allow quick extension without loosening the scope ring several times to adjust the rod length. Individual cylinders use large, knurled collet nuts that easily tighten for a firm hold on the center rods. Out-of-align rings may require adjustment, lapping, or shimming of base to correct the problem.

SPECS: Aluminum, clear anodized cylinders/rods, black anodized collets. 1" 30mm diameter cylinders. Includes complete instructions.
#749-006-613 Sinclair Scope Ring Alignment Tool, 8H47P99 \$ 59.99



EXD ENGINEERING VERTICAL RETICLE INSTRUMENT

Accurate Check For Perfectly Aligned Crosshairs

Adjustable, self-aligning V-blocks with integral spirit level makes zeroing your scope faster and far more accurate. Enhances final scope accuracy by squaring the crosshairs to the bore. Even a slight cant of the crosshairs can reduce overall accuracy, change point of impact and increase the likelihood of missed "bulls" or wounded game.

SPECS: Aluminum, natural finish. 5 1/2" (14cm) long, 2" (5cm) wide. Includes complete instructions.
#289-100-000 Vertical Reticle Inst., 9H43A73 \$ 56.99

BROWNELLS HOLE CENTER PUNCHES

Use Sights, Ribs Or Bases As Their Own Drill Guide



3 special Center Punches with outside diameters (O.D.) that match the clearance drill size of the most popular sight, rib and scope base mounting screws. Ground, parallel sided punches reach through even the thickest handgun rib. Ends guesswork and center-to-center spacing problems. To Use: Level gun in vise or scope mounting jig, position and level sight, rib or base, and clamp in place. Place correct size punch in hole and lightly tap with a 4-oz. hammer. Remove base; drill and tap first hole; re-install base and check positioning. If everything is "square", re-clamp and finish other holes.
SPECS: 2 1/2" (7cm) long. 1/4" (6.3cm) diameter knurled handle. Hardened, tool steel.
#080-732-006 #6 Hole Center Punch, 8K7L72 \$ 8.99
#080-732-008 #8 Hole Center Punch, 8K7J70 8.99
#080-732-010 #10 Hole Center Punch, 8K7C68 8.99
#080-732-000 Hole Center Punch Set, 8K15F70 21.99

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order on the web brownells.com

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BROWNELLS

MAGNA-TIP® SEE-THRU RING BITS



Long Bits Reach Through Rings

Extra-long, **MAGNA-TIP®** bits reach through scope rings. Set includes bits for #6 and #8 slotted screws; 1/32" (fits Leupold) and 7/64" (fits Red-field) hex-head, T-10 and T-15 TORX ring and base screws.

- #080-146-006 #6 Slotted See Thru Bit, 8K4K19 \$ 4.99
#080-146-008 #8 Slotted See Thru Bit, 8K4B19 4.99
#080-146-093 1/32" Hex See Thru Bit, 8K5K04 5.99
#080-146-109 7/64" Hex See Thru Bit, 8K5H11 5.99
#080-000-077 T-10 Torx See Thru Bit, 8K5Q04 5.99
#080-000-078 T-15 Torx See Thru Bit, 8K5K09 5.99
#080-146-000 See-Thru Bit Set, 8K16N47 21.99

WARNE SCOPE RING TORQUE WRENCH



Helps Prevent Dented & Damaged Scopes

Puts an end to the "How tight do I make it" question. Helps prevent over-torque damage to your favorite scope. Break away torque wrench is pre-set and will not tighten T15 Torx screws tighter than 25 in. lbs., which is the maximum recommended by most scope and scope ring manufacturers.

ommended by most scope and scope ring manufacturers. T-handle design is conveniently shaped to comfortably fit in the palm of your hand; simply engage the tip to the Torx screw, and tighten until the wrench "breaks away."

- #947-000-152 Scope Ring Torque Wrench, 7D16H69 . . \$ 19.99



SITE-LITE

SL-100 LASER BORESIGHTER



Gets You Close To Point-Of-Aim Without Firing A Shot

The SL-100 laser system saves you range time and ammo by helping you zero your scope to point-of-aim at 100 yards, without firing a shot. Easy to use: place the special laser target 25 feet away, insert the laser unit's spud into the muzzle - it self-centers in the bore. Then aim the laser at the target and adjust the scope till the crosshairs align with the target.

- #100-000-843 SL-100 Laser Boreighter, 8K103K97 . . \$ 111.99

SIGHTMARK

LASER BORESIGHTER



Chamber-Mounted Laser Helps You Sight In Rifle Or Pistol Without Firing A Shot

Easy-to use bore sighting system fits in the chamber of your rifle or pistol and projects a powerful red laser beam aligned with the bore axis for sighting to the point of aim without firing a shot. Works with scopes, holographic red dot sights, and "iron" sights.



BROWNELLS MAGNA-TIP® ADJUSTABLE TORQUE HANDLE

Apply An Exact Amount Of Pre-Set Tightening Force; Accepts ALL Brownells Magna-Tip Bits



Precision-adjustable torque driver ensures that you apply the exact amount of leverage needed to accurately tighten any gun screw, including action screws and scope ring/mount screws. Adjustable from 15 to 70 in.-lb. in 1 in.-lb. increments to eliminate guesswork and prevent under- or over-tightening screws - no more stripped threads or broken-off screw heads.

#080-001-294 Adj. Torque Handle, only, 6E52E99 . . \$ 61.99

Fast, Accurate Sight-In System Gets "On Paper" Without Firing A Shot



BUSHNELL BORESIGHTERS

Optical collimators save you time and ammunition by getting your rifle or handgun "on paper" without firing a shot. Gives hunters, target shooters, and gunsmiths the convenience of initial sighting-in of scopes and sights at home or in the shop. Easy-to-use: attach collimator to the muzzle, then adjust the windage and elevation of the scope or iron sights until they align with the collimator grid.

#593-000-052 Professional Boreighter, 7K89E44 . . . \$ 99.99
#593-000-051 Magnetic Boreighter, 7K34A73 42.99



SITE-LITE LASER BORESIGHTER

Gets You Close To Point-Of-Aim Without Firing A Shot



Saves range time and ammo; highly accurate laser system lets you zero your scope to point-of-aim at 100 yards, before you go to the range. Quick and easy to use, just place the special laser target 25 feet away and aim the laser at it, then adjust the scope till the crosshairs align with the target.

#100-000-843 SL-100 Laser Boreighter, 8K103K97 . . \$ 111.99
#100-002-429 SL-150 Ultra-Mag Laser Boreighter, 8K154H69 164.99
#100-004-085 SL-500 Ultra-Mag Laser Boreighter, 8K210N24 249.99
#100-002-430 SRL-100 Reticle Leveler, 8K20G32 27.99

STRAIGHT SHOT SEGWAY RETICLE LEVELER



Simple Device Helps Level Scope Reticle

Easy-to-use device helps ensure scope crosshairs are properly indexed with the center of the bore for maximum accuracy. Two-piece system easily attaches to the scope and uses a standard bubble level to indicate proper alignment.

- #100-011-731 Segway Reticle Leveler MK-III, 8F16I47 . . \$ 19.99
#100-013-054 Segway Tactical Reticle Leveler, 8F17K05 . . 20.59

SIGHTMARK UNIVERSAL LASER BORESIGHTER



Helps Sight In Rifles, Pistols, Or Shotguns Without Firing A Shot



Compact, self-contained boreighting system projects a bright red laser beam aligned with the bore axis for sighting scopes, holographic red dot sights, and "iron" sights to the point-of-aim without firing a shot.

W. FREAR INNOVATIONS COLLIMATOR ELEVATOR

Adapts Your Collimator For Use With Large Objective Optics



Precision-manufactured device greatly extends the use and range of your optical collimator for rifles equipped with large objective scopes or scopes mounted in rings high above the centerline of the bore.

- #100-002-512 Collimator Elevator, 5A90N34 \$ 110.99

GUARANTEED.FOREVER.® SINCE 1939

OREGON TRAIL DEFENSE FIREARM STIPLING TOOL KITS



Helpful Tips...for Creating a Custom Surface Textures on Polymer-Frame Guns

Stipling has become a popular way for shooters to alter the exterior surface textures of polymer pistol and rifle grips, even magazines, to suit their needs. Kind of the 21st Century's answer to traditional checkering. Folks have used soldering irons and wood-burning tools, but by far the best way is to use the Oregon Trail Defense stipling tool. It has a short shaft to keep your hand close to your work, and has a low 25-watt heating element, so you don't have to worry about accidentally burning through the item you're working on. The tool comes with 5 interchangeable, heat-conducting brass tips for producing different textures. However, the best way to get EXACTLY the pattern and depth of texture you want is to get the **Deluxe Stipling Tip Kit**. Each of these tips screws onto the end of the stipling tool to enable you to create a custom texture that looks - and feels - like none other. The 12 stipling tips in the Deluxe Kit are: 20 lpi square, 20 lpi finish tip, wagon wheel, diamond pattern, square, X-pattern, small round, large round, and point tip, plus 3 waffle-pattern tips in 12 lpi, 16 lpi and 20 lpi. Using any one of these tips - or a combination of multiple tips - will enable you to produce the perfect non-slip surface texture for your polymer-frame rifle or pistol. **Brownells Gun Tech™ Note:** These stipling tool tips have 8-36 tip right-hand female threads, so they will NOT fit the typical wood-burning tool.

- #100-022-980 Stipling Tool Kit, 9H59P33..... \$ 59.99
- #100-027-838 Deluxe Stipling Tip Kit, 9H66K64... 69.99

D'AGUANNO CUSTOMS AR-15/M16 RECEIVER RACEWAY FIXTURE



NOT Your Ordinary Vise Block - Single Tool Helps You Perform Multiple Tasks Easily & Quickly

Here's a handy tool that lets you clamp any AR-15 upper receiver in a bench vise so you can work on it totally without risk of damaging it. The problem with a lot of AR vise blocks is that they fit over the outside of the upper - not so here. One end of the D'Agunno tool fits *inside* the upper receiver raceway, while you clamp the other end in your vise. Fits ALL forged AND machined uppers. Doesn't matter how the exterior of your receiver is configured: flattop, carry-handle, stripped, fully assembled, stock mil-spec, fancy billet upper - since the D'Agunno tool works from the inside, it fits 'em all! As long as the receiver has a mil-spec bolt carrier, and pretty much all of them do, this tool will fit into it, snug and secure, so you can get jobs done like torquing the barrel nut on the receiver, attaching muzzle devices or installing the gas tube, forward assist, handguard, ejection port cover, optic, or other accessories. Wait, you've already got the gas tube installed? Not a problem! The pin that locks the tool into the raceway has a cutout to clear the gas tube - very handy. If you do a lot of AR work, just leave the tool clamped in your bench vise, and swap uppers on and off as needed to work on them. You'll wonder how you lived so long without it! Made of solid, Stress Proof steel, with a durable black oxide finish.

- #100-024-699 AR-15 Raceway Fixture, 3E91N76..... \$ 105.99

WHEELER ENGINEERING SAVAGE 10/110 BARREL NUT WRENCH SET

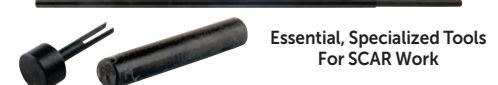


Correct Fit & Plenty of Torque for Fast Barrel Swaps

The Savage 10/110 series of rifles is known for three things: (1) being surprisingly accurate for a (2) "budget" rifle and having (3) a barrel that's quite easy for the non-gunsmith to swap himself. As a result, these rifles have become quite popular as the foundation for custom target rifles. A 10/110 with a good target barrel can deliver darned tight groups. The barrel may be much easier to change than those of most other bolt rifles, but it still requires a properly configured wrench such as these wrenches from Wheeler Engineering. One wrench is for notched barrel nuts, the other for smooth nuts, and they fit ALL generations of 10/110 and 12 series rifles with both short and long actions. The notched wrench is about 11 3/4" long, and the tension-adjustable smooth wrench is 7.5" long. Both are made of hardened 3/16" thick steel, with a matte black oxide finish, and have 1/2" square drive holes for a breaker bar or torque wrench so you can get the leverage you need to do a proper job.

- #100-024-575 Savage 10/110 Barrel Wrench Set, 7A24B57..... \$ 28.35

BROWNELLS FN SCAR 16S/17S ARMORER'S TOOLS



Essential, Specialized Tools For SCAR Work

Specialized tools equip you to properly perform common work on SCAR 16S and 17S rifles, including barrel changes, bolt maintenance, and trigger installation. Barrel Straightness Gauge ensures proper alignment when reinstalling barrels. Ejector Removal Tool enables easy removal of ejector from bolt body on both 16S and 17S guns. Trigger Module Mounting Axis guides the trigger module properly into the trigger housing for fast, correct trigger installation; works on 16S and 17S SCARs.

- #080-000-978 16S 5.56 Barrel Straightness Gauge, 8K17N80..... \$ 20.76
- #080-000-979 17S 7.62 Barrel Straightness Gauge, 8K16A18..... 19.99
- #080-000-980 Ejector Removal Tool, 8K16B66..... 19.99
- #080-000-982 Trigger Module Mounting Axis, 8K15F94..... 19.99

NEW! ZERMATT ARMS BIGHORN ACTION WRENCH



A Sturdy Tool for Working on Zermatt & Other Bolt Actions

Whether you're building a whole new rifle or just swapping barrels on an existing rifle built around the Zermatt Bighorn Arms action, you'll want this wrench. It is ideal for any Bighorn action that has the slot in one side because the wrench will work without disassembling the whole action. Good news: this wrench can also be used on Remington 700 and Savage bot action rifles! Tempered steel construction with a black oxide finish. It is 7/8" (.875") across the rear wrench/socket flats.

- #100-036-558 Big Horn Action Wrench, 4C00NIL..... \$ 85.00

BROWNELLS TACTICAL RIFLE FIELD MAINTENANCE PACK



M16/M4 Field Pack

Complete, Dedicated Kits For Field Repair & Maintenance Of Tactical Rifles

These compact, model-specific field maintenance packs provide the soldier or law enforcement personnel with all the tools required to field strip, repair, and maintain tactical rifles while on the move. These are not run-of-the-mill generic tool kits, but carefully selected, high-quality field armorer tools dedicated to specific weapons. Individual pouches and compartments inside the water- and abrasion-resistant Cordura® nylon case keep tools secure and separated to help minimize noise that could jeopardize your mission. Nylon grab handles for easy carry, and quiet #9 YKK zippers with oversize pulls make it fast and easy to get tools in and out. Front panel features clear I.D. card sleeve and loop strip for name tape.

M16/M4 FIELD PACK - Allows complete weapon breakdown for routine maintenance and repair, plus includes tools for sight adjustments and field cleaning of the Colt M16/M4. Includes special tools for removal of barrel nut, flash hider and lower receiver extension without damage to any rifle component. **SPECS:** Includes: #81 MAGNA-TIP® hollow screwdriver handle w/ Le-upold windage (L/B) and #185-10 bits; 1/16", 1/8" and 1/4" pin punches; 1/2" drive handle; 3/4" nylon/brass hammer; buttstock tool; combination wrench; lower receiver vice block; A1/A2 sight wrench; carrier carbon scraper; Deluxe model buttstock cleaning kit. Approx. 5 lb. (2.3 kg) wt.

- #080-000-458AV M16/M4 Field Pack, 8K233P32... \$ 259.99

REMINGTON 700 FIELD PACK - Field tool kit maintains Remington 700 sniper rifles while out on deployment. Includes all special armorer tools, punches, wrenches, screwdriver handle and bit for complete rifle disassembly (except barrel removal), including breakdown of the complete bolt assembly. **SPECS:** Includes: Magnetic Law Enforcement MAGNA-TIP® screwdriver handle w/ #185-3 bit, extractor rivet anvil, firing pin tool, bolt brush, rifle bench block, 45 in.-lb. torque T-handle, 1/4" square-to-hex drive converter, ball-hex "L" wrench set, bolt ejector tool set, bolt disassembly tool, nylon/brass hammer, 1/16" and 1/8" pin punches, .120" brass alignment/push punch, 12" x 24" bench/field mat. Approx. 5 lb. (2.3 kg) wt.

- #080-000-457AV Rem. 700 Field Pack, 8K384A46... \$ 420.99

RUGER MINI-14 FIELD PACK - Each tool in this kit serves a specific purpose in helping you keep your .223 carbine functioning reliably. Contains all of the correct-size pin punches and screwdriver bits needed for full field stripping, plus a rear sight adjustment tool designed specifically for the Ruger® Mini-14®. **SPECS:** Includes: #84 MAGNA-TIP® hollow screwdriver handle w/#185-0, #185-10, #300-4, and #360-4 bits; 1" nylon/brass hammer; 1/8" and 1/16" roll pin punches; 1/8" and 1/16" roll pin holders; .092", .120", and .151" steel push punches; rear sight adjustment tool; 4" diameter polyethylene bench block; 12" x 24" bench/field gun mat. Approx. 5 lb (2.3kg) wt.

- #080-000-483AV Mini-14 Field Pack, 8K171A45... \$ 186.99

FOREIGN WEAPONS FIELD PACK - Contains tools for servicing a variety of Soviet-type foreign weapons, including the AK-47/AKM assault rifle, PK/PKM/PKMS 7.62mm machine gun, Dragunov SVD sniper rifle, DShK/DShKM 12.7mm machine gun, and RPG-7 grenade launcher. Lets you field-strip these weapons quickly for cleaning, maintenance, adjustment, and repair without the confusion and down time spent scrounging for the proper tools. **SPECS:** Kit includes 7.62 x 39 broken shell extractor, 7.62 x 54R broken shell extractor, 7.62 x 39 Go/No-Go gauges, 7.62 x 54R Go/No-Go gauges, AK-47/SKS front sight tool, No. 10 slot head screwdriver, 6" chain nose

- #080-000-522 Foreign Weapons Field Maintenance Pack, 8K379N99..... \$ 379.99

BROWNELLS MILITARY WEAPON TAKEDOWN TOOL

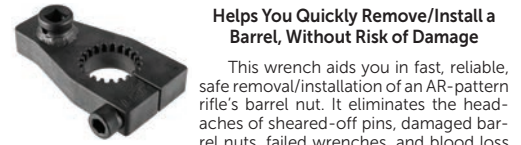


Dozens Of Uses In Field Stripping A Variety Of Military Firearms

Handy steel tool eases the task of field stripping a variety of military weapons, including the AR-15/M16/M4, M14, and L1A1 rifles, as well as the M2 and M240 machine guns. Use the pointed end to remove pins, retainers, clips, and other subassemblies—much easier than using the tip of a cartridge. The other end can serve as a slot-tip screwdriver or pry bar. Deeply knurled handle won't slip and has a solid feel in the hand; adjust handle position by loosening the two hex head screws. Dozens of uses on the workbench and in a field tool kit.

- SPECS:** Steel, black oxide finish. 7 1/4" (18.4 cm) long.
- #080-000-580 Military Weapon Takedown Tool, 8K22F97..... \$ 29.99

LONGRIFLES AR-15/AR-308/RUGER® RPR BARREL WRENCH



Helps You Quickly Remove/Install a Barrel, Without Risk of Damage

This wrench aids you in fast, reliable, safe removal/installation of an AR-pattern rifle's barrel nut. It eliminates the headaches of sheared-off pins, damaged barrel nuts, failed wrenches, and blood loss from the operator (namely, YOU). The LongRifles wrench provides secure, non-slip 360-degree contact with the barrel nut - no way this wrench is gonna slip off! A pinch bolt gently cinches the wrench head to the barrel nut, eliminating offset loads that lead to slippage and damage to the barrel or its finish. Fits the standard AR-15 barrel nut as well as DPMS LR-308 (and clones) and the Ruger Precision Rifle®. There's a 1/2" drive socket for use with standard torque wrench or breaker bar, and you can use a 3/8" six-sided drive, too. Machined from billet steel - NOT A CASTING, so far less risk of a hidden flaw or void in the metal leading to wrench breakage. Smooth tool contours reduce wear and tear to gun parts and your hands. Tough corrosion-resistant Parkerized finish. This is one beast of a barrel nut wrench!

Brownells Gun Tech™ Tip: The LongRifles Action Wrench requires a little math to use. Torque wrenches are calibrated to the centerline of the square drive. This tool is offset, so its torque values have to be recalculated to ensure the desired amount is actually applied to the fastener. There are a number of Internet tools to help you do this, including this one: www.cncexpo.com/TorqueAdapter.aspx

- #100-025-312 LongRifles Barrel Wrench, 7B90E70.... \$ 95.99

pliers, 1" nylon/brass hammer, 4 oz. ball peen hammer, 6" adjustable crescent wrench, 6" mill file, starter punch set (1/16", 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 1" pin punch set (1/16", 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 1" prick punch, center punch, Delrin® bench block, double-ended nylon gun parts cleaning brush, stainless steel cleaning brush, #3 acid brush, cleaning rod (4 sections with slotted tip), 8-32 to 3/16"-27 rod adapter, Double-Tuff™ phosphor bronze bore brush set (7.62mm, 12.7mm, 18mm & 40mm), 40mm cotton bore mop, and (100) 1 1/2" dia. heavy duty flannel cotton patches, in a heavy duty O.D. green Cordura nylon case. Case is approximately 11" (27.9cm) long, 9 1/2" (24.1cm) high, and 3 1/2" (8.9cm) thick.

- #080-000-522 Foreign Weapons Field Maintenance Pack, 8K379N99..... \$ 379.99

FIELD PACK CASE - The same, heavy-duty, Cordura field case included with our Weapons Field Maintenance Packs. Made available separately for your additional tactical gear and accessories. **SPECS:** Denier Cordura nylon, O.D. green. 12" (30.5cm) long, 10 1/2" (26.7cm) high, 3 1/2" (8.9cm) thick.

- #080-000-459 Field Pack Case, Only, 8K66G35... \$ 75.99

Orders: 800-741-0015

order on the web **brownells.com**

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