GENERAL GUNSMITH TOOLS INDEX

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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 5/16" brass

hex stock and come with tips in ${}^1/{}_{16}{}^n$, ${}^1/{}_{16}{}^n$, ${}^1/{}_{18}{}^n$, and ${}^1/{}_{18}{}^n$ 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



BROWNELLSBASIC 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. 10 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; ¹/₅" x 6" Pin Punch; ³/₃z" x 6" Pin Punch; ³/₃z" Starter Punch; ³/₃z" 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. ■

#080-750-000 Basic Gunsmithing Kit, 8K275G21 . . \$ 299.99

<u>ADD-ON Pak No. 1</u> - 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 eiecsimple 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 7/64" 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" Nvlon/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: 5/32" 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; 7/64" Speed-Hex (Ball-end) Wrench and Kit Box.

#080-755-000 Assmbly/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 7/64" Speed-Hex Wrench which are included in the Assembly/ Disassembly Kit but NOT included in the Basic Gunsmithing Kit. ## 18080-755-002 Add-On Pak No. 2, 8K30L53 \$43.99



— BROWNELLS — BASIC FIELD TOOL KIT

Scope Mounting Tools 470-472

Screwdrivers 443-448

Stones & Trigger Jigs 455-456

Taps & Dies 459-461

Tool Kits...... 433-435

Vises & Clamps 435-437

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 iobs. A smooth cut file with handle takes care of those unforeseen problems that require minor metal removal; four additional handle nserts 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 Covote Tan field case.

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. 8¹/₈" (21.6cm) x 11" (28cm). Hammer - 8 oz. (226 g), 1" (2.5cm) dia. x 2" (5.1cm) long head, 9¹/₈" (23.5cm) hickory handle. Punches - brass, $\frac{4}{3}$ /₈" hex stock, parallel shaft: $\frac{1}{16}$, $\frac{3}{3}$ /₂₂", $\frac{1}{9}$ 8", $\frac{3}{3}$ /₃", $\frac{3}{3}$

#354-100-017 (Gun Care Tool Set, 4E104Q90 \$ 119.99

SPECS: Total kit weight - 4 lb. 13 oz. (2, 2 kg), Includes: Magna-Tip Set -#81 Driver Handle. 1¹/₄" (3.2cm) diameter. 7³/₄" (19.7cm) OAL. Polyethylene Bench Box & Tray - 85/8" (21.8cm) long, 41/4" (10.8cm) wide, 17/8" (4.7cm) high. Slotted Bits - #120-1, #150-4, #180-3, #180-5, #210-5, #240-5, #300-6 and #360-8, Leupold Windage bit. Hex Bits - #185-00, #185-0, #185-1, #185-2, #185-3, #185-4, #185-9 and #185-10. Phillips Bits - #1, #2, #3 and 2" long bit. Torx Bits - T10 and TT15. Punches - Steel, knurled handle. Starter Punches - Contains (1) of each diameter: 1/16" (1.6mm), 3/32 (2.4mm), 4" long w/knurled handle. Pin Punches - Contains (1) of each diameter: 1/16", 3/32", 1/8" (3.2mm), 5/32" (4mm) x 4" long w/knurled handle. Nvlon Punches - Contains (3) of each: 4" (10.2cm) long x 5/16" (7.9mm) diameter. Parts Cleaning Brush - Polypropylene handle w/ nylon bristles. 7" (17.8cm) long. Meets Mil Spec 129J, NSN# 1005-00-494-6602. Buttstock Screwdriver - Steel alloy blade w/wood handle. 12" (30.5cm) OAL. Tip - 3/8" (9.5mm) wide, 1/16" (1.6mm) thick. Miniature Screwdriver Set - (4) Phillips (000, 00, 0, 1) bits. (4) slotted (1.5, 2.0, 2.5 and 3.2mm) bits. (4) TORX (T-7, T-8, T-9 and T-10) bits. File - Smooth cut. 51/2" (14cm) long, 9/16 (1.4 cm) wide $x^{7}/64$ " (2.8 mm) thick. File handle - Molded rubber. $4^{1}/2$ " (11.4)cm) long. India Stone - 4" long x 3/8" wide, MF-34. Bench Block - Nylon w/"V" groove. 21/2" (6.3cm) diameter. 11/2" (3.8cm) high. 41/2" oz. (128g). 5 holes range from .122" (3.1mm) to .375" (9.5mm). Nylon/Brass Hammer - 1" (2.5cm) diameter faces. 11¹/₂" (29.2cm) long hickory handle. **Packing** Hook/Scribe - Steel. 8" (20cm) OAL. Chain Nose Pliers - 6" (15cm) long. Gun Mat - Neoprene rubber w/nylon facing, black, Storage Case - 1000 denier Cordura nylon, Black or Coyote Tan. 13" (33cm) long, 3" (7.6cm) wide, 10" (25cm) high.

#080-000-665 🍅	Basic Field Tool Kit, Black, 8K219M99	\$ 224.99
#080-000-666 🍽	Basic Field Tool Kit, Coyote,	
	8K203M89	219.99

brownells.com

--- BROWNELLS, PAGE 433

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 enforacement personnel with all the tools required to field strip, repair, and maintain weapons while on the move. These are not runof-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 - 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 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.

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



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, hall-hex "I" wrench set holt ejector tool set holt 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, 8K392P15 \$ 420.99



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; 3/8" socket drive, T-handle, and extension with 1/2" socket, drag link, Rem 870 buttstock bolt socket, and 11/16" 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 3/32" 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. 111/2" (29.2cm) long, 81/2" (21.6cm) high, 3" (7.6cm) thick.

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



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.

BERETTA 92/M9 FIELD PACK - All the tools you need for com-

plete 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-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; 1/4" brass drift punch; India stone; and hard Arkansas stone, Approx. 5 lb. (2.3 kg) wt.

#080-000-469 (a) Beretta 92/M9 Field Pack.

GLOCK® FIELD PACK - Maintains the Brownells Field Pack goanywhere 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 Glok 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, ½16" hex head bit, ¾32" & ¾16" pin punch bits, and Glock sight nut bit; Glok 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; doubleended parts cleaning brush; and 4 fl. oz. (118ml) bottle of Break-Free CLP. Case - 1000 denier Cordura nylon, O.D. green. 111/2" (29.2cm) long, 81/2" (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 fixedblade 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 (3/32") & #4 (1/8") steel roll pin punches, and ½16" 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.



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 3/32" roll pin punches: 1/8" and 3/32" 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", 3/32", 1/8" & 5/32"), pin punch set (1/16", 3/32", 1/8" & 5/32"), prick punch, center punch, Delrin® bench block, double-ended nylon gun parts cleaning buish, stainless steel cleaning brush. #3 acid brush, cleaning rod (4 sections with slotted tip), 8-32 to 5/16"-27 rod adapter, Double-TuffTM phosphor bronze bore brush set (7.62mm, 12.7mm, 18mm & 40mm), 40mm cotton bore mop, and (100) 11/4" dia. heavy duty flannel cotton patches, in a heavy duty O.D. green Cordura nylon case. Case is approximately 11" (27.9cm) long, 9¹/₂" (24.1cm) high, and 31/2" (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, 10¹/₂" (26.7cm) high, 31/2" (8.9cm) thick.

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

GUARANTEED. FOREVER.® **SINCE 1939**

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. 5K44/89... \$ 47.99



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

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,



LEATHERMAN® WAVE® MULTI-TOOL

Go-Anywhere Survival, Repair & General Maintenance Tool

Classic Leatherman tool, their most popular model, is a heavyduty, 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 thumbnail 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: 61/4" (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 $\times 8^{1/2}$ " deep $\times 13^{5/8}$ " 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: 265/8" wide x 89/16" 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 - 4¹/₂" (11cm) long. Jaw: 1¹/₂" (3.8cm) wide, 1¹/₂" 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 (a) #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 21/2" thick.

SPECS: Cast aluminum body, light green powder coat finish; other components hardened steel, natural finish. Straight Jaws 23/4" (7cm) long; 2½" (5.4cm) max. separation width. Curved Jaws - 4" (10.6cm) long; 2½ (7.3cm) max. separation width. 5.1 lb. (2.3kg) weight. Mounts on surfaces up to 21/2" (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 laws; 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 51/4" (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 11/2" (3.8cm) sq. x 2" (5.1cm) long

#973-340-463 116 V-Block, 9D49B06

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 quide pins.

SPECS: Nylon jaws are 21/2" (6.35cm) wide, open to 21/4" (5.39cm) with throat of 15/16" (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 13/4" (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: 41/2" (11.4cm) bottom diameter. 33/4" (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: 41/8" (10.5cm) square, 31/4" (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

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

order on the web

brownells.com —

BROWNELLS PAGE 435

WOODSTOCK INTERNATIONAL SHOP FOX PARROT VISE

Locks Down Your Projects Tighter 'n a Drum



Can be mounted

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 law. 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 31/2" wide x 21/8" high, and they'll open to 43/4" capacity. Sturdy cast steel construction, with an attractive industrial blue powder coated finish: mov-

ing 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

x 12" (30.5cm) wide x 8" (20.3cm) high.

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



BROWNELLS

RUBBER-FACED VISE JAWS

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

SPECS: Aluminum jaws, rubber face. 4" (10cm) long, 3/8" (9.5mm) thick,

#080-827-000 Rubber-Faced Vise Jaws, 8K22B98.... \$ 28.99

Protects Delicate Or Polished

Parts From Damage

sive or delicate firearm parts, but

holds them firmly without damage.

Durable, nylon-reinforced rubber is

Will not mark or scratch expen-

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 milspec 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 safest, easy-touse tool for locking down an AR-15 upper in a bench vise.

#100-036-437 ()	Lug-Lo	ok 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 holt 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

#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



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

Used To Protect Guns In Vises

SPECS: 4" (10.2c	m) x 6½" (16.5cm), 9-1	0 oz. Sold in pairs.	
#413-001-002	Leather Vise Pads,	3Z9P67	\$ 11.9

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 be-

SPECS: Extruded bronze. 3/16" (4.7mm) thick. 11/2" (3.8cm) x 11/2" 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, <i>5L27P74</i>	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 elastomerics 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 ³/₈" (9.5mm) thick. **Plate:** 4⁷/₈" (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, 2E1	106D67 \$ 122.99
#080-000-365	Multi-Vise Jaw Pads, Blue,	
	2E106H67	122.99

BROWNELLS LEAD VISE JAW FACES

Soft, Tight Gripping, Easily Fitted To



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"

#084-010-424	2" x 4" Lead Sheets, 4,	5L13D99	\$ 16.99
#084-011-434	3" x 4" Lead Sheets, 4,	5L18B49	22.99

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 ½" 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 elastomerics 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 3/8" (9.5mm) thick Aluminum Plate: 1/4" (6.3mm) thick x 5" (12.7cm) high x 4" (10.2cm) wide. 5" Pad: 23/8" 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 5/8" radius for an improved grip on contoured parts such as barrels and actions.

SPECS: Molded polyurethane, red. 5" (12.7cm) wide, 21/8" (5.5cm) high 5/8" (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: 3¹¹/₁₆" (9.4cm) long, ¹/₂" (12.7mm) diameter. Adjusts from .0" to

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

BROWNELLS HANDICLAMP

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 latch-



es. Soft, rubber pads won't mark finishes. Easy, one-hand operation. SPECS: Steel, chrome finish. 31/4" (8.2cm) O.A.L. 11/2" (3.8cm) reach. 3/16 (4.8mm) opening. Rubber pads - 9/16" (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 MAINSPRING 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 it's own weight in liquid, shielding the surface of your work bench or vehicle cargo area from spills while it pro-

tects 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"

#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**

BROWNELLS

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. Rolls up easily for storage.

SPECS: Neoprene rubber, black. 361/4" (920cm) long, 173/4" (450cm) wide

#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 safequards 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. 161/2" (41.8cm) long, 83/4" (22.2cm) wide, 7/64" (2.7mm) thick.

#084-000-228 Range/Bench Neoprene Gun Mat,



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 backside gives a natural, non-slide 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

SPECS: Cowhide, light brown, 153/4" (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 dissasembly and assembly. Long Gun mats are 36" long and 113/4" 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 Puger 10-22 Gun Mat 5C16K83

Ruger 10-22 dull Mat, JC10N03	\$ 22.33
AK-47 Gun Mat, 5C16J83	21.99
M14//M1A Gun Mat, 5C17P33	21.99
M1 Garand Gun Mat, 5C17P33	21.99
Remington 700 Gun Mat, 5C17M33	21.99
Remington 870, 5C17A33	21.99
Black AR-15 Gun Mat, 5C17L33	21.99
OD Green AR-15 Mat , 5C17M33	21.99
Gray AR-15 Mat, 5C17L33	21.99
1911 Mat, 5C9P18	12.60
Beretta 92 Gun Mat, 5C9C18	12.60
	AK-47 Gun Mat, 5C16J83

DRYMATE® GUN CLEANING PAD

Protects Guns From Scratches **During Cleaning** & Repair

Lightweight,

soft, absorbent

flexible pad features

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.

	3		
#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⁻/2" (44.4cm) long. 12" (30.5cm) wide. ³/1s" (4.7mm) thick. Large Mat: 36" (91.4cm) long, 24" (60.9cm) wide. ⁴/s" (3.1mm) thick. Weighs 11/2 lbs. (680 a).

#358-128-316	Assy/Disassy	Mat, 8E21L51	\$ 28.99
#358-128-416	Large Mat, 8	E52M73	58.99

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 chemicalresistant, 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" Illtra 44 rifle mats measure 44" x 14 75"

14./5 . Ultra 44 rii	te 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,	10.13
#100-030-737	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

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 rubberized 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. 19¹/₄" (48.8cm) x 11³/₄" (29.8cm). **#164-800-000** Master Mat, 4F33I77.....\$ **43.99**

9 .			
9	#100-015-997	Glock Gun Mat, 5C9E18	12.60
9	#100-015-999	Sig Sauer 229 Gun Mat, 5C9/18	12.60
0	#100-016-000	S&W M&P Gun Mat, 5C9P18	12.60
0	#100-016-001	Springfield XD Gun Mat, 5C9Q18	12.60

BROWNELLS EXTRA-LARGE BENCH BLOCKS



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

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 shotauns: 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, 11/8" (2.8cm) high.

#080-000-492 Rifle Bench Block, Green, 8D18M99 ... \$ 19.99 **#080-000-493** Pistol Bench Block, Blue, 8D18C99.... **19.99**

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. SPECS: 1045 steel, blue finish. 23/4" (6.7cm) diameter. 11/2" (3.8cm) high 11/2 lb. (503 a).

#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 machnist'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: 21/2" (6.3cm) diameter. 11/2" (3.8cm) high. 41/2" oz (128a), 5 holes range from, 122" (3.1mm) to, 375" (9.5mm), "V" groove.

#928-100-000 Nylon Bench Block, 8K14I33 \$ 18.99



BROWNELLS AR-15/M16 FRONT SIGHT BENCH BLOCK



Two Working Sides For Installation & Removal

Big, tough, polyethylene block gives fitted support for installing/ removing the front sight assembly on mil-spec,

AR-15 rifles and carbines. Precision-machined and clearly marked on both sides for driving the mounting pins "IN" or "OUT" of the sight. Accommodates the sling swivel, plus, includes provisions for removing the gas tube roll pin. The **Front Sight Housing Maintenance Kit** includes the front sight bench block, a taper pin starter punch for removing and installing the factory front sight housing, plus an AR-15 sight wrench for easy sight adjustments.

SPECS: Polyethylene, orange. 4" (10.2cm) dia. x 111/16" (4.3cm) high #080-000-252 AR-15 Front Sight Bench Block,

#080-001-156 Front Sight Housing Maintenance Kit,

BROWNELLS GUNSMITH'S PUNCH

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

SPECS: 15" (38.1cm) long, 3" (7.6cm) wide, 21/4" (5.7cm) high. 12 holes 7/16"

(11.1mm) diameter; 16 holes 9/32" (7.1mm) diameter; 12 holes 3/16" (4.8mm)

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

& NEEDLE FILE BLOCK

Ends Bench Clutter, Keeps 'Em

Where You Can Find 'Em

Compact, tough, solid oak

such a great tool holder.

diameter, All holes 11/4" (3.2cm) deep.

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 indentification. Sold individually or as a kit

that includes all 7 sizes. SPECS: Carbon steel, heat hardened. Available sizes: 1/16", 5/64", 3/32", 1/8",

5/32", 3/16" and 7/32"	diameter.	
#080-001-083	Premium Roll Pin Punch Kit, 8K28C33\$	34.9
#080-001-068	1/16" Premium Roll Pin Punch, 8K6G02	6.9
#080-001-069	⁵ / ₆₄ " Premium Roll Pin Punch, 8K5H05	6.9
#080-001-070	³ / ₃₂ " Premium Roll Pin Punch, 8K5F05	6.9
#080-001-071	¹/ ₈ " Premium Roll Pin Punch, 8K6P37	6.9
#080-001-072	⁵ / ₃₂ " Premium Roll Pin Punch, 8K4K73	6.9
#080-001-073	³ / ₁₆ " Premium Roll Pin Punch, 8K4H73	6.9
#080-001-074	⁷ / ₃₂ " Premium Roll Pin Punch, 8K5N05	6.9



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.

SPECS: 4" (10.2cm) lg. 1/4" (6.3mm) or 5/16" (8mm) dia. handles.

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

BROWNELLS PREMIUM ROLL PIN STARTER PUNCHES



Easily Remove Roll Pins From Most Firearms

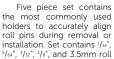
We've taken the most commonly used gunsmithing punches and combined them into one handy kit. The ball tips on these hardened steel punches ensure the punch stays centered and will not damage the pin during installation or removal. Reverse taper helps prevent punches from sticking. Punches are available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

SPECS: Carbon steel, heat hardened. Set contains 1 each of 1/16", 5/64", 3/32". 1/8", 5/32", 3/16", and 7/32" diameter punches.

#080-001-082	Premium Roll Pin Starter Punch Set, 8K23B96	\$ 31.99
#080-001-075	¹ / ₁₆ " Roll Pin Punch, 8K4G58	-
#080-001-076	5/64" Roll Pin Punch, 8K4A58	6.99
#080-001-077	³ / ₃₂ " Roll Pin Punch, 8K4N58	6.99
#080-001-078	¹ / ₈ " Roll Pin Punch, 8K4D58	6.99
#080-001-079	5/32" Roll Pin Punch, 8K6M00	6.99
#080-001-080	³ / ₁₆ " Roll Pin Punch, 8K3A95	5.99
#080-001-081	⁷ / ₃₂ " Roll Pin Punch, 8K4A58	6.99

BROWNELLS PREMIUM ROLL PIN HOLDERS

Prevents Flattening Roll Pin Tip





pin holders. The ½1/16" 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 bainite steel for strength. Holders are available as a set or individually.

3FLC3. 3100 Ste	et, fieat treated. 716 (7.3fffff) wide fiex fialidie.	
#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	5/64" Diameter Roll Pin Holder, 8K5A98	7.99
#080-001-135	³ / ₃₂ " Diameter Roll Pin Holder, 8K6G99	7.99
#080-001-136	¹/s" Diameter Roll Pin Holder, 8K5G98	7.99
#080-001-137	3.5mm Diameter Roll Pin Holder,	
	8K5A98	7.99

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. SPECS: Steel, knurled or hexagonal handle, except nylon drift punch is solid nylon. Nylon Punch - Contains (1), 4" (10cm) long x 5/16" (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: 21/2" (6.3cm) to 3" (7.6cm). Mini Punches - Contains (1) of each diameter: 1/16" (1.6mm), 5/64" (2mm), 3/32" (2.4mm), 2³/₄" (7cm) long. **Starter Punches -** Contains (1) of each diameter: ½16 5/64" 3/32", 1/8" (3.2mm), 4" long. Prick Punch - Contains (1), 5/16" x 4" long Center Punch - Contains (1), 5/16" x 4" long. Pin Punches - Contains (1) of each diameter: ¹/₁₆", ⁵/₆₄" ³/₃₂", ¹/₈", 4" long: ³/₃₂" x 4¹/₂" (11.4cm) long, ¹/₈" x 4³/₄ (12.1cm) long, 5/32" (4mm) 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, <i>8K97Q93</i>	\$ 105.99
#080-000-652	Bench Block, only, 8K9K40	9.99

BROWNELLS BRASS PUNCH SET



For Driving Roll Pins, Sights & Solid Pins

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

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" (4.8mm), 7/32" (5.6mm), 1/4" (6.4mm), 5/16" (7.9mm). Working length: 5/16" (7.9mm) - 11/8" (2.8cm) long. Standard Punches - Contains (1) of each diameter: 1/16", 3/32", 1/8", 5/32", ⁷/₃₂", ¹/₄", ⁵/₁₆". Working length: ⁵/₁₆" (7.9mm) - 1¹/₈" (2.8cm) long. Bench Block - Delrin, tan. 6³/s" (16cm) long, 3" (7.6cm) wide, ³/4" (1.9cm) high. Holds 20 punches. Bench block included in set, also available separately.

	Brass Punch Set, 8K89C55	
#080-000-648	Bench Block, only, 8K8M97	9.99

GRACE 21 PIECE STEEL PUNCH SET

Versatile Set To Handle A Variety Of **Common Gunsmthing 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", ⁵/₆₄", ³/₃₂", ¹/₈", ⁵/₃₂", ³/₁₆", and ⁷/₃₂" 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.

#354-000-040	21 Piece Steel Punch Set w/Bench		
	Block, 4E104C92 \$ 119.9		
#354-000-041	Bench Block Only, 4E19L68 24.9		

GUARANTEED. FOREVER.® **SINCE 1939**

BROWNELLS. PAGE 438

Office/Tech: 641-623-5401

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" (23cm) wide, 17/8 (4.7cm) high, Pin/Starter Punches - Tool steel, knurled body, 4" (10.2cm) long x $^{1}/_{16}$ " (1.6mm), $^{3}/_{32}$ " (2.4mm), $^{1}/_{8}$ " (3.2mm), $^{5}/_{32}$ " (4mm) dia. Center Punch - Tool steel, knurled body. 31/2" (9.0cm) long x 5/16" (7.9mm) dia. Prick Punch - Tool steel, knurled body, 4" (10.2cm) long x 5/16" dia, Brass Punches - 31/2" long, 5/16" (7.9mm) hex stock, 3/32", 5/32", 7/32" (5.6mm), 5/16" dia. Nylon Front-Sight Punches - 4" long x 5/16" dia. Bench Block - Nylon, 21/2 (6.3cm) dia., 1¹/₂" (3.8cm) high. 5 holes range from .122" (3.1mm) to .375" (9.5mm). Nylon/Brass Hammer - 1" (2.5cm) dia. faces. 111/2" (29.2cm) hickory handle. 6 oz. (170.1g) weight. Gun Mat - Neoprene rubber with nylon facing, black. 16¹/₂" (41.8cm) long, 8³/₄" (22.2cm) wide, ⁷/₆₄" (2.7mm) thick.

#080-000-569 (Master Punch Set. 8K104J99..... \$ 110.99

GRACE BRASS PUNCH SET

BRACE USA 1/10

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. 5/16" (7.9mm) hex stock. Punch Set/Roll Pin Punch Set - 8 punches: 1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 5/16" dia. Starter Punch Set - 4 punches: 1/16", 3/32", 1/8", 5/32" 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 🔘	3/32" (2.4mm)	#354-100-218 🔘	7/32" (5.3mm)
#354-100-125 🔘	1/8" (3.2mm)	#354-100-250 🔘	1/4" (6.4mm)
#354-100-156	5/32" (4mm)	#354-100-312	5/16" (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 🔘	3/32" (2.4mm)	#354-000-010 🔘	5/32" (4mm)
— Advise # — St	arter Punch,	each, 4E6E53	\$ 9.29
#354-100-000 🍅	Punch Set, 8	pc, 4E29E14	\$ 31.99
#354-000-006 🔘	Starter Punch	h Set, 4 pc, 4E17A23	25.99
#354-000-011	Roll Pin Punc	h Set 8 nc 4F29K1	4 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", 5/64", 3/32", 1/8" 5/32" diameters).

#354-007-000	Punch Kit,	4E33C98.		\$ 40.99
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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), ³/₃₂" (2.3mm), ¹/₈" (3.1mm), ⁵/₃₂" (3.9mm), 3/16" (4.7mm) diameter pin punches, 1/8" center

punch, 3/16" 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 ½ (1.6mm), 3/32" (2.4mm), ½ (3.2mm), and 5/32" (4mm) diameters.

#539-000-018	Roll Pin Punch Set,	5K17A99	\$ 19.99
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PUNCH SET - Five, precision-machined gunsmith punches equip you to handle a wide variety of disassembly and reassembly jobs. Non-



#539-000-019 Pistol Punch Set, 5K16L99	\$	1	3.	9	9
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Accu-Punch Hammer & Pin Punch Set

REAL AVID

GUNSMITHING ROLL PIN

PUNCH SETS

A Conviently 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 Punch Pin 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", 5/64", 3/32", 1/8", 9/64", 5/32", 3/16". 7/32", and 1/4". The proprietary pin alignment tool makes starting tiny pins easy, greatly reducing risk of that pin zipping across the workroom 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-interchangable head hammer, plus steel punches in 1/16", 5/64", and 3/32" sizes, brass punches in 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 9/32", and 5/16"; the starter pin holder; AND the non-slip, magnetic, universal Smart Bench Block with a rubberized outer surface. Kick-

stand case includ	ed.	
#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 HOLE CENTER PUNCHES

OBSIDIAN ARMS BASIC 8-PUNCH SET



Obsidian's handy punch set comes in a a convenient, durable, roll-up canvas pouch, so you can

take it pretty much anywhere. Sizes contained in this kit are 1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", and ⁵/₁₆" 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



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, posi-

tion 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: 2³/₄" (7cm) long. ¹/₄" (6.3cm) diameter knurled handle. Hardened,

#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

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, easyto- 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 available separately.

SPECS: Handle - Plastic. Shank - Unhardened steel drill rod, or 360 alloy brass . 3¹/₄"(8.2cm) long. OAL - 4³/₄" (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. 63/8" (16cm) long, 3" (7.6cm) wide, 3/4" (1.9cm) high Holds 8 nunches

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 8K8DO	1	2 00

order on the web

BROWNELLS PAGE 439 brownells.com



BROWNELLS NYLON/BRASS DRIFT PUNCH

6 Indispensable Mar-Proof Punches

Great combination punch for gunsmith, machinist and toolmaker. 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 5/16" diameter tips (one Nylon, one Brass) and one Handle. 4-Way Set includes four Handles, one 5/16" 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

SPECS: Handle 3" (7.6cm) long x 3/8" (9.5mm) diameter. Tips are 11/4"

#080-475-001	.165" Nylon Punch Tip, 8K4D28 \$ 4	.99
#080-001-223	.165" Nylon Punch, Handle+Tip,	
	8K4N676	.99
#080-475-002	⁵ / 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	⁵ / 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	.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 Sights & 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.

SPECS: 4" (10.2cm) long. 5/16" (7.9mm) diameter. Polyenco Nylon. Sold

#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 sepa-

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 21/2" long on the 4" long pins.

SPECS: Steel. Knurled handle. Taper as follows: Small - .070" (1.8mm) to .156" (4.0mm); Medium - .110" (2.8mm) to .187" (4.7mm); Large - 150" (3.8mm) to .219" (5.6mm). Sold as a set. Small and Medium also available

#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 CUPTIP 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. SPECS: Punches - Steel. 5/16" (7.9mm) wide hex handle. Long - 33/4" (9.5cm) overall w/ 3/4" (19.0mm) tip. Short - 33/8" (8.6cm) overall w/ 3/8" (9.5mm) tip. 5/16" (7.9mm) hex handles. Bench Block - Delrin, tan. 8" (20cm) long, 3" (7.6cm) wide, 3/4" (1.9cm) high. Holds all 8 punches. 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.

STOCK #	MODEL	DIAMETER	LENGTH
#080-620-001	1	.057" (1.4mm)	Long
#080-620-002	2	.066" (1.7mm)	Long
#080-620-003	3	.072" (1.8mm)	Long
#080-620-004	4	.040" (1.0mm)	Short
#080-620-005	5	.050" (1.3mm)	Short
#080-620-006	6	.050" (1.3mm)	Long
#080-620-300	7	3mm (.118")	Long
#080-620-301	8	3mm (.118")	Short
— Advise # —	Cup Tip Punc	h, 8K15J69	\$ 17.99
#080-620-103		h Set A, 8K40H21	
#080-620-203 #080-620-306		h Set B, 8K35B96 h Set C, 8K75N85	
#080-000-645	Cup Tip Punc	h Set D, 8K109F41	128.34
#080-620-300	Long 3mm Ci	up Tip Punch, 8K12C1	4 12.99
#080-620-301	Shrt 3mm Cu	p Tip Punch, 8K11/86.	12.99
#080-000-644	Bench Block,	only, 8K8H00	8.99

rately 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. SPECS: Brass. Approx. 31/2" OAL, with 1" punch tip.

#080-001-138 🔘	Front Sight Punch, .280", 8K6B57 \$ 9	9.99
#080-001-139 🔘	Rear Sight Punch, .480", 8K8E93 11	L.99
#080-001-164	Front/Rear Sight Punch Kit, 8K15K62 21	L.99
#080-001-230 🔘	Small Dovetail Sight Punch, .230", 8K8C55	9.99

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!

SPECS: Handle 3" (7.6cm) long x ³/₈" (9.5mm) diameter. **Pins** 1" (2.5cm) long. Set includes 3 punches and three pins.

COMPLETE SINGLE PIN PUNCHES

STOCK #	PIN DIA.	STOCK #	PIN DIA.
#080-513-039	.039	#080-513-091	.091
#080-513-060	.060		
— Advise # —		tarter Punch, each,	\$ 9.99
#080-513-000		tarter Punch Set,	\$ 22.99

REPLACEMENT PINS

SPECS: Sizes: .039" (.99mm) for ³/₆₄" (1.2mm) diameter pins. .060" (1.5mm) for 1/16" (1.6mm) diameter pins; .091" (2.3mm) for 3/32" (2.4mm) diameter pins. 1" (2.5cm) length. Sold in Paks of 6.

#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, hardto- 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. Com-

MAYHEW MINIPUNCHES



The Only Way To Remove Wee Sight Pins

These three small diameter punches give excellent control be-

cause 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.

SPECS: 23/4" (7cm) overall. 3/4" (19mm) punch section. Steel.

#587-474-062	¹/16" 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

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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.

SPECS: Steel, black. Kit contains one each of seven sizes: #1, 1/16" (1.6mm), #2, 5/64" (2mm); #3, 3/32" (2.4mm), #4, 1/8" (3.2mm); #5, 5/32" (4mm); #6, 3/16" (4.8mm); 7/32" (5.5mm); #7, 7/32" (5.5mm).

#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



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.

SPECS: Steel. 37/8" (9.8cm) long. .405" (10.3mm) diameter. 11/2 oz. (43 g). Knurled body and adjusting cap. Starrett #18AA.

827-501-190	Starrett Auto Punch, 7B37D44 \$ 3	8.99
827-703-800	Replacement Punch Tip. 7B6H73	7.99

plete set includes bench block, also available separately. SPECS: Punches - Steel, knurled handle, matte black. Nylon Punch - 4" (10cm) long x 5/16" (7.9mm) diameter. Holder Punches - Contains (1) of each diameter: ½ (1.6mm), ¾ (3.2mm), ½ (2.4mm), ½ (3.2mm), ⅓ (3.5mm). Working length: ½¼ (6.3cm) - 3" (7.6cm) long. **Starter Punches** - Contains (1) of each diameter: #1, 1/16"; #2, 4/64"; #3, 3/32"; #4, 1/8" (3.2mm); #5, 5/32" (4mm); #6, 3/16" (4.8mm); #7, 7/32" (5.5mm). Working length: 1/2 (3.2cm) long. Standard Punches - Contains (1) of each diameter: #1, 1/16" #2, 5/64"; #3, 3/32"; #4, 1/8"; #5, 5/32"; #6, 3/16"; #7, 7/32". Working length: 15/16 (2.4cm) - 21/2" (6.4cm) long. Bench Block - Delrin, tan. 63/8" (16cm) long, 3" (7.6cm) wide, 3/4" (1.9cm) high. Holds all 20 punches. Bench block included in set, also available separately.

#080-000-651	Roll Pin Punch Set,	8K95J08	\$ 109.99
#080-000-650	Bench Block, only,	8K8J97	9.99

GUARANTEED. FOREVER.® **SINCE 1939**

MAYHEW SINGLE PUNCHES

Replacements For Kits Or Buy Individuals As Needed: One For Every Size & Need

PIN PUNCHES

No pin punch can be guaranteed against breakage, all the gunsmith can do is buy the very best available. When used with Starting Punches (see elsewhere), these will give you excellent service. Points will not bind in even deepest holes. SPECS: Tool steel, Knurled body.

STOCK #	LENGTH	SIZE	PRIC	E
#587-475-062	4"(10.2cm)	1/16"(1.6mm)	7H5N84	\$ 6.99
#587-475-093	4"(10.2cm)	3/32"(2.4mm)	7H7D21	\$ 8.99
#587-475-125	4"(10.2cm)	1/8"(3.2mm)	7H5H87	\$ 6.99
#587-475-156	4"(10.2cm)	5/32"(4.0mm)	7H5G85	\$ 6.99
#587-493-093	41/2"(11.4cm)	3/32"(2.4mm)	7H7A38	\$ 8.99
#587-493-125	43/4"(12.1cm)	¹/s"(3.2mm)	7H4J54	\$ 6.99
#587-493-156	5"(12.7cm)	5/32"(4.0mm)	7H6N74	\$ 7.99

STARTING PUNCHES

Always use Starting Punches to break loose stuck or tight pins to protect both the pin punch and the gun. SPECS: Tool steel. Knurled body.

STOCK #	SIZE	STOCK #	SIZE
#587-465-062	1/16"	#587-465-125	1/8"
#587-465-093	3/32"	#587-465-156	5/32"
— Advise # —	Starting Punc	h, 7H3C80	\$ 5.99

CENTER PUNCHES

Made of properly hardened, tempered and ground tool steel to fill the gunsmith's shop requirements.

SPECS: Punch 222 is ½ (6.3mm) O.D. x 3½ (9.0cm) long. Punch 455 is

/10 (7.311111) O.L	2. x 4 (10.2CIII) long.		
#587-111-222	Center Punch 222,	7H3F78	\$ 5.99
#587-113-455	Center Punch 455,	7H3L99	5.99

PRICK PUNCH

Fine, sharp point for marking spots before center punching. Gives better visibility, more precision to your marking. Tap lightly as a mark only; use Center Punch to deepen for drilling. SPECS: 5/16" (7.9mm) O.D., 4" (10.2cm) long.

BROWNELLS ROLL PIN PUNCHES

ONLY Way You Can Remove Pins & Not Damage Them

With these pins becoming so common in guns, having the right punches to remove them is absolutely necessary. These punches are the only way to remove and re-use roll or spring pins without causing glaring damage to the pins. Solid steel punches, with long, parallel-ground points and knurled section for better gripping. SPECS: Kit includes one each of seven sizes: #1, 1/16" (1.6mm); #2, ⁵/₆₄" (2mm); #3, ³/₃₂" (2.4mm); #4, ¹/₈" (3.2mm); #5, ⁵/₃₂" (4mm); #6, ³/₁₆" (4.8mm): #7, 7/32" (5.5mm).

#230-100-000	Roll Pin Punch Kit,	8K38B46	\$ 45.99
#230-100-001	#1 Roll Pin Punch,	8K3L24	4.99
#230-100-002	#2 Roll Pin Punch,	8K6H36	7.99
#230-100-003	#3 Roll Pin Punch,	8K3N66	4.99
#230-100-004	#4 Roll Pin Punch,	8K5D80	6.99
#230-100-005	#5 Roll Pin Punch,	8K5L89	6.99
#230-100-006	#6 Roll Pin Punch,	8K6B04	6.99
#230-100-007	#7 Roll Pin Punch,	8K5Q78	8.99

GRACE ROLL PIN PUNCHES

Prevents Damage To Pin Ends

Hardened steel punches easily remove roll pins from firearms incorporating these pins. Balled tip helps locate the punch on the pin and protects pin end from damage during removal or installation. Available as a 7-punch set or sold individually, as listed below.

SPECS: Carbon steel, heat hardened. Set contains 1 each of 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", and 7/32" diameter punches

#354-000-025	Roll Pin Punch Set, 4E29J14	\$ 32.99
#354-000-026	¹/16" Punch, 4E5Q10	6.99
#354-000-027	5/64" Punch, 4E5M49	6.99
#354-000-028	³ / ₃₂ " Punch, 4E5I10	6.99
#354-000-029	¹/₀" Punch, 4E5B10	6.99
#354-000-030	⁵ / ₃₂ " Punch, 4E5H10	6.99
#354-000-031	³ / ₁₆ " Punch, 4E5B10	6.99
#354-000-032	⁷ / ₃₂ " Punch , 4E5C10	6.99

BROWNELLS ROLL PIN HOLDERS



Hollow-Ended "Starter" Punches For Roll Pins

Holds roll pins perfectly aligned for starting correctly. Especially good on the tiny, tough-to-grab ones, or those in tight places. 1/16" is notched to clear M16/AR 15 rear

sight. 3.5mm excellent for holding the pin that retains the breech block on Sig handguns. Finish driving with roll pin punch. O/A in chart means "Overall." Available individually or as a set of 5. SPECS: Steel, knurled handle. Set of 5.

#080-685-130	3.5mm Roll Pin	Holder, 8K11A4	6 \$ 14.99
#080-685-078	5/64" Roll Pin Ho	lder, 8K11P46	14.99
#080-685-000	Roll Pin Holder	s, set, 8K43D96	49.99
STOCK #	FOR PIN DIA.	O/A LENGTH	PRICE

STOCK #	FOR PIN DIA.	O/A LENGTH	PRICE	
#080-685-125	#4 - 1/8"(3.2mm)	5"(12.7cm)	8K11H46	\$ 14.99
#080-685-130	3.5mm (.138")	5"(12.7cm)	8K11A46	\$ 14.99
#080-685-093	#3 - 3/32"(2.4mm)	41/2"(11.4cm)	8K12P19	\$ 14.99
#080-685-078	#2 - 5/64"(2.0mm)	41/2"(11.4cm)	8K11P46	\$ 14.99
#080-685-062	#1 - 1/16"(1.6mm)	41/2"(11.4cm)	8K11I46	\$ 14.99

BROWNELLS GUNSMITH **REPLACEABLE PIN PUNCH SET**

Take The Blow(\$) Out Of **Replacing Pin Punches**



be made or ordered. Now - Just Replace the Tip! REPLACEABLE PUNCH PIN

Handles, with removable knurled-chuck to hold punch, are made of powerful, fatigueproof C.R.S. Steel - Tensile strength of over 140.000 psi (Min.), Replaceable Punch: the secret of the tool, These are special, tool steel, bevel-headed punches designed for the tool, die and mold manufacturers as perforators, punches, ejectors and core pins. Oil hardened to Rc 58-60. Heads are annealed to Rc 42-45. They come in two lengths and can be ground down to exact length required - custom punches with minimum investment. Sets come with three punches with .039", .060" and .091" dia. pins. SPECS: Handle - 3" (7.6cm) long x 3/8" (9.5mm) diameter. Pins are 2" (5.1cm) or 21/2" (6.3cm) long.

COMPLETE SINGLE PIN PUNCHES

STOCK #	DIA.	LENGTH	STOCK #	DIA.	LENGTH
#080-507-239	.039	2"	#080-507-539	.039	21/2"
#080-507-260	.060	2"	#080-507-560	.060	21/2"
#080-507-291	.091	2"	#080-507-591	.091	21/2"
#080-001-123	3mm	2"			
— Advise # —	Replac	cement Pir	Punch, Each, 8	K9E18 .	\$ 10.99
#080-507-239			39" x 2" Pin Pun		
#080-507-000			ch Set of 3, w/2"		. 24.99
#080-507-050			ch Set of 3, w/2-		24.99
					. 27.33

|--|

SPECS: Sizes: .039" for 3/64" diameter pins; .060" for 1/16" diameter pins; .091" for 3/32" diameter pins. 2 lengths: 2 and 21/2". Sold in Paks of 6.

#080-509-639	2" x .039" Pins, <i>8K11M53</i>	\$ 14.99
#080-509-660	2" x .060" Pins, 8K11B73	14.99
#080-509-691	2" x .091" Pins, 8K11K73	14.99
#080-510-639	2 ¹ / ₂ " x . 039 " Pins, 8K12G35	14.99
#080-510-660	21/2" x .060" Pins, 8K16C07	19.99
#080-510-691	21/2" x .091" Pins, 8K12Q71	15.99
#080-001-122	2" x 3mm (.118") Replacement Tip, 8K5G03	5.99

BROWNELLS PREMIUM DELRIN® TIPPED BRASS HAMMERS

For Delicate Jobs & Precision Tapping Work



Handcrafted brass/polymer hammer lets you disassemble your firearm and tap parts into position without denting or scarring the finish. Brass end firmly drives pins and punches, or flip around to the softer Delrin side that preserves paint, bluing, and other delicate surfaces. Available with three different face diameters - from the precise 3/4" to a larger 11/4" - so you can choose the right size and heft for the job. Seasoned and turned hickory handle is securely brass pinned to the head.

SPECS: Hand-polished CDA 360 brass rod head, hickory wood handle.

1072 (20.7 CITI) OAL		
#080-001-218	³ / ₄ " Delrin-Tipped 4 oz. Brass Hammer, 4E15J69	\$ 21.9
#080-001-220 🔘	1" Delrin-Tipped 8 oz. Brass Hammer, 4E19G24	21.9
#080-001-221	11/4" Delrin-Tipped 16 oz. Brass	
_	Hammer, 4E24G43	28.9
#080-001-219	Replacement Delrin Tip, 3/4", 4E3J95	5.9
#354-001-010	Replacement Delrin Tip, 1", 4E5G74	6.9
#080-001-222	Replacement Delrin Tip, 11/4",	
	4E3C95	5.9

BROWNFLLS 3/4" PLASTIC/BRASS HAMMER



For light, precise tapping of punches, the brass end is perfect. When it's possible the head might touch delicate bluing, the soft, amber, plastic head is the right choice.

SPECS: 3/4" (19mm) diameter faces. 10" (25.4cm) hickory handle. Weighs approximately 4 oz. (113 g).

#818-600-343 () 3/4" Plastic/Brass Hammer, 8A14B05 ... \$ 17.99

STARRETT 0 **#565 PIN PUNCH SET**

Precision Ground & Beautifully Polished

Precision ground from specially selected tool steel, hardened and highly polished, the Starrett Pin Punches are well proportioned and beautifully finished. Blued, knurled grip area; individually marked for size. Set of all

8 punches comes in handy, fitted, round, hard plastic bench box. Also available singly.

SPECS: 4" (10.2cm) long. Sizes: ½" (1.6mm), ½" (2.4cm), ½" (3.2mm), ½" (4mm) ¾" (4.8mm) ½" (5.5mm) ½" (6.3mm) and ½" (7.9mm) #827-525-860 Starrett Pin Punch Set #565, 7B61L27... \$ 62.99

			-		-
STOCK #	SIZE	PRICE	STOCK #	SIZE	PRICE
#827-525-780	1/16"	7B6B79 \$ 8.99	#827-525-820	3/16"	7B6I92 \$ 7.99
#827-525-790	3/32"	7B7E10 \$ 8.99	#827-525-830	7/32"	7B7D17 \$ 7.99
#827-525-800	1/8"	7B6C46 \$ 6.99	#827-525-840	1/4"	7B7N30 \$ 7.99
#827-525-810	5/32"	7B7E12 \$ 7.99	#827-525-850	5/16"	7B6I92 \$ 7.99

BROWNELLS 3/4" NYLON/BRASS HAMMER



Smaller diameter heads let you see more of what you're trying to hit, giving you better control. The lighter 4 oz. weight is our favorite for the bulk of most pistolsmithing work. Tough, long-lasting, nonmarking extruded nylon and turned brass heads are easily replaced when they wear out or become deformed.

SPECS: 3/4" (19mm) diameter faces, 10" (25cm) long hickory handle, 4 oz (113 g) approximate weight.

#818-600-075 (a) 3/4" Nylon/Brass Hammer, 8A15/48... \$ 22.99

GRACE BRASS HAMMER



Adds A Durable & Non-Marring Polymer Tip

Using the wrong tool for knocking out pins or alignment work can result in marring, dents, and a pricey repair bill. Whether you're a hobbyist or professional gunsmith, Grace's dual-faced brass hammer should always be within reach for disassembly jobs or tapping delicate finishes. Solid brass 1" diameter head is hand-turned from CDA 360 brass rod, while the Delrin® polymer end offers a highstrength yet softer material to preserve paint and bluing. Replacement Delrin tips available when worn or deformed. Hickory handle is pressed into the brass head and secured with a brass pin. 101/2" (26.7cm) OAL. 8 oz. (226.8g) wt.

	Delrin-Tipped Brass Hammer,	
	4E21G86\$	22.99
#354-001-010	Replacement Delrin Tip, 1", 4E5G74	6.99

order on the web

brownells.com

BROWNELLS. PAGE 441

Our Most Popular

Gunsmith No-Mar

Hammer

This combo is so

approximately 6 oz. (170 g).

BROWNELLS HAMMER HEADS & HANDLES



Mix & Match Heads Offer Wide Versatility

Custom design your own hammer to precisely suit the job at hand or your preferences. On any given handle size there are as many as four different head materials available. Equip yours with two of the same or with combinations not available in our assembled hammers listed in the column below.

HANDLES

SPECS: Solid hickory w/pinned and threaded cast head. Diameters and lengths as follows: 3/4" (19.0mm) dia., 10" (25.4cm); 1" (2.5cm) dia., 111/2" (29.2cm); 11/4" (28.6cm) dia., 111/2" (29.2cm).

#818-100-034	³ / ₄ " Hammer Handle, 8A5N65 \$ 7.99
#818-100-001	1" Hammer Handle, 8A6M79 8.99
#818-100-114	11/4" Hammer Handle. 8A8I 43. 10.99

INDIVIDUAL HAMMER HEADS

SPECS: Materials as follows: Orange Plastic - Extremely tough, harder than Nylon tip for general work. Nylon - Tough, softer than plastic tip resistant to cracking, chipping or splitting. *Pyralin* - Similar to nylon, used in the 2" diameter only. Brass - The gunsmith's favorite for use on punches. Steel - Most durable for general use.

STOCK #	SIZE	PRI	CE
	PLASTIC		
#818-300-034	3/4"	8A3D93	\$ 4.99
#818-300-078	7/8"	8A1A91	\$ 2.99
#818-300-100	1"	8A3D33	\$ 3.99
#818-300-114	11/4"	8A3L35	\$ 4.99
	NYLON		
#818-200-034	3/4"	8A5P72	\$ 6.99
#818-200-078	7/8"	8A3A52	\$ 4.99
#818-200-100	1"	8A5D89	\$ 6.99
#818-200-114	11/4"	8A5C82	\$ 7.99
#818-200-112	11/2"	8A6G21	\$ 7.99
#818-200-200	2"	8A11N08	\$ 14.99
	BRASS		
#818-500-034	3/4"	8A6I87	\$ 9.99
#818-500-100	1"	8A11C01	\$ 12.99

BROWNELLS

1" NYLON/BRASS HAMMER

perfect for so many jobs around the gun shop and on the range,

it's impossible to list 'em all. Nylon head resists breaking, won't mar

metal. Solid brass is the Basic for gunsmith use with punches and

SPECS: 1" (2.5cm) diameter faces. 11¹/₂" (29.2cm) hickory handle. Weighs

8A17H02 \$ 21.99

GRACE GUNSMITH'S BRASS HAMMERS



Ideal for the gunsmith. Solid brass machined heads pinned securely to tough, white hickory handles.

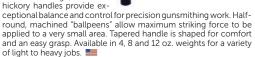
SPECS: 9¹/₄" (23.5cm) handle. 4 oz. (113g) STD Head - ¹/₂" (12.5cm) dia x 2¹/₄" (12cm). 8 oz. (226g) STD Head - 1" (2.5cm) dia. x 2" (5.1cm). 8 oz. (226g) LONG Head - 3/4" (19mm) dia. x 4" (10.2cm). 16 oz. (.45kg) Head -11/4" (3.2cm) dia. x 25/8" (6.7cm).

#354-001-004 4 oz. Std Brass Hammer, 4E11M66	17.69
#354-001-008 8 oz. Std Brass Hammer, 4E17D84	22.99
#354-001-108 (8 oz. Long Brass Hammer, 4E16D02	26.99
#354-001-016 (a) 16 oz. Brass Hammer, 4E22L20	27.99

GRACE GUNSMITH'S BALLPEEN HAMMER

Exceptional Balance & Control For Precision Work

Drop forged, steel heads secured to tough, seasoned



SPECS: Steel head, hickory handle. 4 oz. - 101/2" (26.7cm) OAL. Head - 23/4" (7cm) long x 3/4" (1.9cm) dia. large face, 11/16" (1.7cm) dia. ballpeen. 8 oz. -11⁷/₈" (30.1cm) OAL. Head - 3¹/₂" (10.2cm) long x⁷/₈" (2.2cm) dia. large face, ⁵⁵/₆₄" (2.16cm) dia. ballpeen. **12 oz. -** 12³/₄" (32.4cm) OAL. Head - 4" (10.2cm) long x 11/16" (2.7cm) dia. large face, 1" (2.5cm) dia. ballpeen.

#354-000-021	4 oz. Ballpeen Hammer, 4E14P81\$	17.49
#354-000-022	8 oz. Ballpeen Hammer, 4E15N69	20.99
#354-000-023	12 oz. Ballpeen Hammer, 4E16G02	20.99



Light, No-Mar Tap Won't Disfigure Fine Pins Or Parts

Ideal when you need maximum control and an unrestricted view. Gracefully shaped hardwood handle. SPECS: 91/8" (23.2cm) long, 2" (5.1cm) high, 2 oz, (57 g) brass head

BALLPEEN HAMMER

	(- : 3) - : :
#360-375-821 🔘 2 oz. Brass Hammer	, 6C7C54 \$ 11.99

CROSS PEEN HAMMER



So-called because of the flat sides of the peening head. Small diameter head tapers slightly. De-

livers a "seating blow" to tap a short, small pin held between thumb and forefinger.

SPECS: 8 oz. - Overall length 12" (30.5cm). Head, overall, 4" (10.2cm). Face, ⁷/s" (22.2mm) dia. 8¹/₂ oz. (240g) head. **10 oz. -** Overall length, 12¹/₂" (31.8cm). Head, overall, 41/2" (11.4cm). Face, 1" (25.4mm) dia. 101/2 oz. (300g) head.

#541-000-014 Cross Peen Hammer, 8 oz., 1D28C02 . . . \$ 34.99 #541-000-015 Cross Peen Hammer, 10 oz., 1D30M51 . . 40.99



Designed & Balanced To Give You Day-Long Control Of Each Stroke

The hammer most frequently seen on the benches of engravers, silversmiths and other artisans who use a hammer for light, ultraprecision tapping. The large, flat face enables user to watch his work and still properly strike the tool he is using. Oval shaped handle is slenderly tapered near the head for proper rebounding action. Both flat and round faces of this hammer are highly polished and smooth finished

SPECS: Steel head, hardwood handle. Approx. 10" (25.4cm) overall length. Face sizes: 15/16" (23.8mm), 11/8" (2.9cm), 11/4" (3.2cm).

#249-746-220	15/16" Chasers Hammer,	9D19D91	\$ 29.99
#249-746-280	11/8" Chasers Hammer,	9D28C43	33.99
#249-746-320	11/4" Chasers Hammer,	9D18P06	26.99



GARLAND MANUFACTURING RAWHIDE HAMMERS

Durable, Rock-Solid: Non-Marring

Tough, long-wearing, rawhide mallets cushion the blow to prevent marring or denting wood and metal. Tightly wound rawhide is impregnated with resin to provide a high-strength, rock-solid hammer head. Large head size provides increased

surface area without adding additional weight. Ideal for use on broad-faced striking surfaces in a large variety of applications. SPECS: Head - Rawhide, resin impregnated, contains lead. Handle - Hickory. 8 oz. - 21/2" (6.3cm) long, 11/4" (3.4cm) dia., 9" (22.9cm) high. 12 oz. - 3" (7.6cm) long, 11/2" (3.8cm) dia., 10" (25.4cm) high.

100-003-751	Rawhide Hammer, 8 oz.,	4A54D53\$	58.43
‡100-003-752	Rawhide Hammer, 12 oz.	, 4A38D56	45.99

GUNSMITH'S RAWHIDE MALLET Perfect "Soft Touch" For Wood & Finished Metal

Superb Balance; Fiberglass Handles Full-sized, cushioned rubber grip for superb control. Handles made from unbreakable, impregnated fiberglass. Nicely shaped half-round "ballpeens".

SPECS: Hardened steel head, fiberglass shank, rubber handle. Approximately 11" (2.7cm) long overall.

STOCK #	WEIGHT	MODEL	PRICE
#956-000-002	4 oz. (113.4g)	HP4	9D26D23 \$34.99
#956-100-008	8 oz. (226.8g)	HP8	6E12F19 \$ 13.99
#956-000-001	12 oz. (340.2g)	HP12	6E14L35 \$ 18.99

Great for gently tapping on a barreled action during inletting or driving a 1911 slide back and forth when lapping it to the frame. Won't mar wood or metal. Head is made entirely of rolled rawhide. White hickory handle.

SPECS: Rawhide Mallet No. 1, 4 oz. (113 g) head, 11/4" (3.2cm) dia. x 31/6" (7.9cm). **No. 3,** 8 oz. (227 g) head, 1³/₄" (4.4cm) dia. x 3³/₈" (8.6cm). Head lengths and dia. will vary with the density of the hide.

#672-196-001	Rawhide Mallet No. 1,	2G24L25 \$ 30.99
#672-196-003	Rawhide Mallet No. 3,	2G33H24 38.99

EGW CARTRIDGE CHECKER



Helps Prevent Jams By Making Sure Each Round Meets Specs Before Shooting

Make sure all your ammo is in spec before you shoot that critical match. Helps you avoid jams, misfires, feeding problems, and other malfunctions caused by out-of-spec

ammo that can cost you precious points—or a whole match. Machined aluminum with check holes precision bored using the same high-quality Clymer reamers EGW chambers its barrels with. 4-Caliber Handgun model lets you check four popular cartridges commonly used in practical shooting matches: 9mm, .38 Super, .40 S&W, and .45 ACP. Cowboy checker helps you check .357 Mag, .44-40, .44 Mag, and .45 Colt for the various cowboy games. 7-Hole Cartridge Checker lets you simultaneously check seven rounds of rifle or pistol ammo. 12 Gauge model can check six shotshells at once.

SPECS : 6061 T6	aluminum, anodized, black.	
#296-000-125	4-Caliber Cartridge Checker, 6B00QVF	\$ 18.00
#296-000-189		-
	6B00QNN	22.99
#296-000-190	.223 Rem Cartridge Checker, 6B00AZM	27.00
#296-000-191	5.56 Cartridge Checker, 6B00JMB	27.00
#296-000-220	.30-06 7-Hole Cartridge Checker, 6B00QQD	40.99
#296-000-221	.300 Blackout 7-hole Cartridge Checker, 6B00IIA	36.00
#296-000-222	.308 Win 7-Hole Cartridge Checker, 6B00KXI	36.00
#296-000-202	.380 ACP Cartridge Checker, 6B00NBH	18.00
#296-000-252	9mm Luger 7-Hole Cartridge Checker, 6B00CWR	18.00
#296-000-226	.38 Super 7-Hole Cartridge Checker, 6B00GWA	18.00
#296-000-224	.357 Magnum 7-Hole Cartridge Checker, 6B00DWS	18.00
#296-000-225	.40 S&W 7-Hole Cartridge Checker, 6B00HTN	18.00
#296-000-223	10mm Auto 7-Hole Cartridge Checker, 6B00LGJ	18.00
#296-000-227		18.00
#296-000-203	12 Gauge Cartridge Checker, 6B00LBS	45.00

BROWNELLS SQUIB ROD

No-Mar Brass Rod Knocks Stuck Bullets Out Of Bores

Don't let a stuck bullet from a "squib" or weak load cut short a shooting session. Far superior to other rods or makeshift punches, this non-marring brass rod fits the bore closely, can't wedge between bullet nose and rifling. Each rod is drilled and tapped to thread onto, or adapt to, a Dewey or other cleaning rod; very handy for knocking stuck bullets out of rifle barrels.

SPECS: Kit contains one of each size rod and (2) 8-32 to 12-28 adapters 8" (20.3cm) long. Brass. Pak has 2 rods of size listed and 2 Dewey rod

STOCK #		FITS	PRIC	CE
#084-175-032	(.32 Cal.	4H25J96	\$ 29.99
#084-175-357	0	9mm/.38/.357Cal.	4H25D82	\$ 29.99
#084-175-040	(10mm/.40/.41 Cal.	4H26C99	\$ 32.99
#084-175-044	()	.44 Cal.	4H26P99	\$ 32.99
#084-175-045	0	.45 Cal.	4H24G99	\$ 31.99
#084-175-000	(Squib Rod Kit, 4H72B43		\$ 85.99

GUARANTEED. FOREVER.® **SINCE 1939**

#818-600-100 (1" Nylon/Brass Hammer Combo,



BROWNELLS STUCK CASE PULLER



Remove Stuck Cases Without Fear Of Accidental Ignition

Works when other pullers fail, even if the case rim is partially sheared away. Steel collets grip entire circumference of case rim. Slide hammer uses inertia to safely remove stuck cases. SPECS: Steel, blued. 24" (60cm) long. 4 lb. (1.8 kg) wt. Collets: Available for: .223; .308/.30-'06; Magnum (fits Win. and Rem. Mag cases - except new WSM, WSSM, Rem. Ultra Mag). Complete Tool: Includes 1 collet, head, slide hammer, shaft and instructions.

STK# COMPLETE TOOL	STK# COLLET ONLY	COLLET SIZE
#080-880-223	#080-881-223	Fits .222, .223, etc.
#080-880-308	#080-881-308	Fits .308, .30-06, etc.
#080-880-338	#080-881-338	Fits .30338 Mag., etc.

- Advise # - Complete Stuck Case Puller, 8K96Q26 . . \$ 125.99

- Advise # - Stuck Case Puller Collet, only, 8K19K74. . 25.99

QUINETICS KINETIC BULLET PULLER



Saves Bullets & Components Features "New-Twist" Chuck

Hammer-style, "Ultimate" model removes bullets quickly without damage to bullet or case. Bullet, powder and case can be removed from

puller without taking off the cap. Universal, .22 center fire thru .45 caliber (except .25 ACP), three-jaw chuck locks and releases case with just a quarter-turn of the cap. Easy to see when bullet has been extracted. Handle is made of alloy with molded grip. Space age plastic body just will not break! Easy and convenient to use whether checking an occasional reload or pulling hundreds of bullets.

SPECS: Overall length 115/8" (29.5cm).

#734-001-000 Quinetics Bullet Puller, 4C00JFD..... \$ 26.99



BROWNELLS BROKEN SHELL EXTRACTOR

Easily Removes Broken Cases Without Field Stripping



Case head separation from over-fired or out of spec brass won't ruin your shooting experience if you keep one of these handy tools in your pocket or field kit. Hardened, steel tool reliably and easily removes broken cases from AR-type or any other firearm chambered for the .223/5.56 NATO or .308/7.62 NATO cartridges, Exclusive, threaded, two-piece design is adjustable for overall length, so the tool completely engages the rim of the case mouth; cannot slip through or strip out. Very simple to use, drop the broken shell extractor into the chamber directly inside the broken case. Allow the bolt to close so the extractor engages the rim of the tool and draw back the bolt to open the chamber. The broken case will eject along with the broken shell extractor.

SPECS: Steel, blue. Models for .223 Remington/5.56 NATO or .308 Winchester/7.62 NATO cartridges.

#080-000-441 .223 Broken Shell Extractor. 8K17Q98 .. \$ 19.99 #080-000-530 .308 Broken Shell Extractor, 8K23N49 . . 25.11

BROWNELLS MAGNA-TIP® STORAGE BLOCKS

Sturdy, Convenient Holders Store All Your Bits In One Place

MASTER STORAGE BLOCK

Ultimate Magna-Tip storage system conveniently organizes and stores up to 120 bits and 7 handles. Plenty of space for an entire Master Super Set Plus, a ton of specialty bits, and extra handles, so you always have the



right Magna-Tip combo at your fingertips. Machined from a solid block of Delrin® that won't warp, crack, chip, or peel. It's also resistant to oil, grease, and many solvents. For added convenience, the slots for handles-including one for the Magna- Tip Ratchet Handle-are positioned far enough from the edge to allow the block to be placed flush against a wall behind a workbench or shelf. SPECS: Machined Delrin®, tan. 121/2" (31.8cm), 51/8" (13cm) wide, 3/4" (1.9cm) high. Holds 120 Magna-Tip bits and 7 handles.

#080-000-514 Master Storage Block, 8K25K19 \$ 26.99

WOODEN BIT BLOCK - Solid oak block holds up to 75 Magna-Tip bits and drops right into any Magna-Tip Box. Also makes a great bench block! SPECS: Oak, natural color, clear sealer. 81/4"

(21cm) x 3³/₄" (9.5cm) x ¹¹/₁₆" (17mm).

Bit not included

#080-115-075	Wooden Bit Block, 8K19M24\$2	4.99
#080-113-000	Super Set Box, only, 8K5D47	6.99



Ratcheting driver provides extra leverage for maximum torque transfer to quickly tighten or loosen any gun screw that accepts a Magna-Tip bit.

Ergonomically designed T-shaped handgrip of high-impact plastic is contoured to ensure maximum comfort and control. Stainless steel shank keeps bit precisely centered, while a powerful magnet prevents slipping or falling out. Heavy duty ratcheting mechanism provides smooth, dependable three-way operation in Clockwise, Counter-Clockwise, and Locked modes. The large control dial allows fast mode changes, yet is positioned on the underside of handle to prevent accidental change of direction. Fits in the Magna-Tip Master Storage Block, available separately.

SPECS: High-impact plastic handle, stainless steel shank. 51/2" (14cm) long overall. 35/8" (9.2cm) long shank. Handle is 3" (7.6cm) wide at widest point. Accepts 1/4" hex bits, including all Magna-Tip bits.

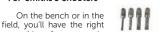
#080-000-513 Magna-Tip Ratchet Handle, 8K34Q99.....\$35.99

YOU CAN SHOP ONLINE TOO! www.brownells.com **NEW PRODUCTS ADDED DAILY**



BROWNELLS GUN SPECIFIC — **SCREWDRIVER SETS**

Self-Storing, Carry Along For 'Smiths & Shooters



screwdrivers for your gun in one compact, go-anywhere package. We precisely matched each gun's screws to the correct Magna-Tip® bits to give you the best possible, blade-to-slot fit. Except where indicated otherwise, each set comes with a magnetic socket, Hollow Handle for easy, on-board storage of the bits.

1911 AUTO - Six bits for disassembling magazine catch lock and mainspring housing, removal of slotted and Allen grip screws, and adjusting Bomar, Heinie, and Novak sights, plus a .050" Allen wrench for adjusting XS sights. SPECS: 63/16" (15.7cm) long overall. 11/4"



(3.2cm) diameter grip. #080-000-444 1911 Screwdriver Set, 8K18L95...... \$ 24.99

GLOCK PISTOL - Two takedown bits for pistol itself and magazine, plus three bits and a .050" Allen wrench for adjustable aftermarket

SPECS: 63/16" (15.7cm) long overall. 11/4" (3.2cm) diameter grip.

#080-000-408	Glock Screwdriver Set, 8K18L72	\$ 24.99
#080-000-447	Glock Bits, only, 8K10Q01	12.99

COLT SINGLE ACTION - Five bits to fit all the screws on Colt Single Actions and popular clones.

SPECS: 8" (20.3cm) long overall, 11/4" (3.2cm) diameter grip.

#080-000-021	Colt SAA Set,	8K18P57	\$ 21.99
#080-000-086	Colt SAA Bits,	only, <i>8K8J31</i>	9.99

RUGER® SINGLE ACTION - Four flat blade bits to fit Ruger Single Action screws for base pin latch. grip frame, and ejector housing,



, ,,	,,,	
#080-000-020	Ruger S/A Screwdriver Set, 8K19N97	\$ 29.99
#080-000-087	Ruger S/A Bits, only, 8K12D88	14.99

RUGER DOUBLE ACTION - Heattreated, ejector retainer bit with Magna-Tip handle helps remove the ejector retainer screw; a "must do" step for complete disassembly of Ruger double action cylinders. Self-

aligns perfectly over the center pin rod during removal. SPECS: Ejector Bit - Steel, 1¹⁵/₁₆" (5cm) long. Magna-Tip handle - 8" (20.3cm) long x 1¹/₄" (3.2cm) diameter, solid grip handle. Fits Redhawk[®],

Super Redhawk®, GP-100®, and SP101® Cylinders. #080-000-362 Ruger D/A Ejector Driver Set, 8K17E69 . . \$ 23.99 #080-432-001 Ruger D/A Ejector Bit, only, 8K7H69 8.99

S&W REVOLVER COMBO - Four bits to fit side plate, grip, thumb latch, and rear sight elevation and tang screws.

SPECS: 8" (20.3cm) long overall. 11/4" (3.2cm) diameter grip. #080-087-004 4-in-1 S&W Combo, 8K15H94...... \$ 17.99 #080-087-002 S&W Combo Bits, only, 8K6I20...... 8.99

S&W SCREWDRIVER - Three custom bits for S&W Strain, Windage, Side Plate and Sight attaching screws. Comes with Clip- Tip Law Enforcement Handle for excellent control. No storage compart-

SPECS: 51/2" (14cm) long overall. 1" (2.5cm) diameter grip.

#080-088-003	S&W Screwdriver Set, 8K13I66	\$ 16.99
#080-088-005	S&W Bits, only, <i>8K4F80</i>	6.99

BROWNELLS FIXED-BLADE ALLEN & PHILLIPS DRIVERS

Hardened steel shafts have our exclusive, hex wrench section to deliver more torque on stubborn screws plus, unbreakable, "just right" handles for superb control.

ALLEN-HEAD - One-piece shaft and driver provide increased control for precision, scope mounting applications.



SPECS: 21/2" (6.3cm) long shanks, 33/4" (9.5cm) long x 1" diameter handle. Set includes one driver of each size.

STOCK #	SIZE
#080-453-062	1/16"
#080-453-125	1/8"
#080-453-078	5/64"
#080-453-093	3/32"

STOCK #	SIZE
#080-453-109	7/64"
#080-453-137	3.5mm
#080-453-156	5/32"

— Advise # — Allen Fixed Blade Set, 8K8H05...... \$ 10.99 #080-453-000 Allen Fixed-Blade Set. 8K46J98 \$ 55.99

PHILLIPS "ANTI-CAM" - The long shank slips through recoil pads for "markless installation". Unique, anticam blade teeth provide extra "bite" on hard-to-remove Phillips screws but will not mark screw heads during installation.



SPECS: Set includes one of each size. Bits

for #1, #2, #3 Phillips screws. .240" (6mm) and .210" (5.3mm) shaft di-

#080-452-001	#1 Fixed-Blade Phillips,	8K8I33	\$ 10.99
#080-452-002	#2 Fixed-Blade Phillips,	8K8D49	9.99
#080-452-003	#3 Fixed-Blade Phillips,	8K8F49	9.99
#080-452-000	Fixed-Blade Phillips Set,	8K21E06	27.99

WINCHESTER/MARLIN SCREWDRIVERS - Specially-selected bits correctly fit all external screws on these popular lever-action rifles

SPECS: 8" (20.3cm) long overall. 11/4" (3.2cm) diameter grip. Win. 97 - (4) bits; Marlin 336 - (6) bits; Win. 92 - (7) bits; Win. 94 Angle Eject - (5) bits; Win. 94 Top Eject - (6) bits.

#080-087-005	Win. 97 Set, 8K16N52	\$ 19.99
#080-087-010	Win. 97 Bits, only, <i>8K6C81</i>	8.99
#080-087-006	Marlin 336 Set, 8K19P66	22.99
#080-087-011	Marlin 336 Bits, only, 8K9G47	10.99
#080-087-007	Winchester 92/Rossi Set, 8K21G14	24.99
#080-087-012	Win. 92/Rossi Bits, only, 8K10A94	11.99
#080-087-008	Win. 94 Angle Eject Set, 8K17N34	22.99
#080-087-013	Win. 94 Angle Eject Bits, only, 8K7E94.	10.99
#080-087-009	Win. 94 Top Eject Set, 8K19N03	22.99
#080-087-014	Win. 94 Top Ejct Bits, only, 8K8G83	10.99

REMINGTON 870/1100 SHOTGUN - Clip Tip Law Enforcement Handle with five bits to fit magazine extension bracket, buttplate screws, recoil pads, factory folding stocks, and pistol grips. No storage compartment in handle.

SPECS: 51/2" (14cm) long overall. 1" (2.5cm) diameter grip.

#080-088-870 870/1100 Screwdriver, 8K15N07 \$ 19.99

BROWNING AUTO-5 - Four, slotted, thin bits precisely matched to fit all the Auto-5's external screws.

SPECS: 8" (20.3cm) long overall. 11/4" (3.2cm) diameter grip.

#080-000-440 Browning Auto-5 Set, 8K16Q01 \$ 18.99 **#080-000-446** Browning Auto-5 Bits, only, 8K7Q10... **10.99**

order on the web

brownells.com

BROWNELLS MAGNA-TIP® SCREWDRIVER SYSTEM





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

One sign of truly professional gun smithing 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

HANDLE

Magnet LE

PRICE

\$ 49.99

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 11/2" (3.8cm) overall length (see table). #81 & #84 Handles - 8" (20.3cm) long overall, 11/4" (3.2cm) grip diameter. Law Enforcement Handles - 51/2" (14cm) long everall, 1" grip diameter.

STOCK #

#080-101-804

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	\$ 36.99
#080-101-084	No. 1	#84	\$ 49.99
#080-102-084	No. 2	#84	\$ 43.99
#080-103-084	No. 3	#84	\$ 33.99

#080-104-000	Standard Set Case	e-n-Tray Combo	o, 8K8D03				9.99
#080-106-000	Standard Set Bend	ch Tray, only, 8	K4L75				\$ 5.99
#080-103-084	No. 3	#84	\$ 33.99	#080-103-801	No. 3	Clip Tip LE	\$ 33.99
#080-102-084	No. 2	#84	\$ 43.99	#080-102-801	No. 2	Clip Tip LE	\$ 43.99
#080-101-084	No. 1	#84	\$ 49.99	#080-101-801	No. 1	Clip Tip LE	\$ 49.99
#080-103-081	No. 3	#81	\$ 36.99	#080-103-804	No. 3	Magnet LE	\$ 33.99
#080-102-081	INO. Z	#81	\$ 44.99	#080-102-804	NO. Z	Magnetic	3 43.33

BIT SFT

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	445-0***	.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*	5/64" Allen	NA	8K3M17 \$ 3.99	
#080-185-100	185-1/5223*	³/₃₂" Allen	NA	8K3D99 \$ 3.99	
#080-185-900	185-9/5224*	7/64" Allen	NA	8K3N24 \$ 3.99	
#080-185-200	185-2/5225*	¹/s" Allen	NA	8K3F14 \$ 3.99	
#080-185-010	185-10/5226*	9/64" Allen	NA	8K3I78 \$ 4.99	
#080-185-300	185-3/5227**	5/32" Allen	NA	8K2H48 \$ 2.99	
#080-185-400	185-4/5228**	³/16" Allen	NA	8K3J27 \$ 3.99	
#080-185-500	185-5/5229**	7/32" Allen	NA	8K3Q27 \$ 3.99	
#080-185-600	185-6/5220**	1/4" Allen	NA	8K3N17 \$ 3.99	













^{*** 11/2&}quot; (3.8cm) overall length

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 commerical 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 11/2" 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 1/8" 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 120-4, 120-5, 120-6, 150-5,150-6, 180-5, 180-6, 210-5, 210-6, 210-7, 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

	- JUPER SET BITS -				
		BLADE	BLADE		
	BIT NO.	DIA.	THICKNESS	3	
0	120-3	.120	.030	8	

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STOCK #

STOCK #	BIT NO.	DIA.	THICKNESS	PRI	CE
#080-120-330	120-3	.120	.030	8K3C25	
#080-120-435	120-4	.120	.035	8K3A26	\$ 3.99
#080-120-540	120-5	.120	.040	8K3G26	\$ 3.99
#080-120-645	120-6	.120	.045	8K3H26	\$ 3.99
#080-150-330	150-3	.150	.030	8K3P23	\$ 3.99
#080-150-435	150-4	.150	.035	8K3G24	\$ 3.99
#080-150-540	150-5	.150	.040	8K3Q23	\$ 3.99
#080-150-645	150-6	.150	.045	8K3H24	\$ 3.99
#080-180-330	180-3	.180	.030	8K3P23	\$ 3.99
#080-180-435	180-4	.180	.035	8K3F23	
#080-180-540	180-5	.180	.040	8K3J23	\$ 3.99
#080-180-645	180-6	.180	.045	8K3G11	
#080-210-330	210-3	.210	.030	8K3E23	
#080-210-435	210-4	.210	.035	8K3P23	\$ 3.99
#080-210-540	210-5	.210	.040	8K3D24	
#080-210-645	210-6	.210	.045	8K3F23	
#080-210-750	210-7	.210	.050	8K3J23	\$ 3.99
#080-240-330	240-3	.240	.030	8K3G23	\$ 3.99
#080-240-435	240-4	.240	.035	8K3A23	
#080-240-540	240-5	.240	.040	8K3G21	
#080-240-645	240-6	.240	.045	8K3D23	
#080-240-750	240-7	.240	.050	8K3L23	
#080-270-330	270-3	.270	.030	8K3G33	\$ 3.99
#080-270-435	270-4	.270	.035	8K3J33	\$ 3.99
#080-270-540	270-5	.270	.040	8K3K33	
#080-270-650	270-6	.270	.050	8K3J33	
#080-270-760	270-7	.270	.060	8K3G33	
#080-300-330	300-3	.300		8K3Q36	
#080-300-435	300-4	.300	.035	8K3C32	
#080-300-540	300-5	.300	.040	8K3A34	\$ 3.99
#080-300-650	300-6	.300	.050	8K3J38	
#080-300-760	300-7	.300	.060	8K3G38	
#080-340-330	340-3	.340	.030	8K3G32	
#080-340-435	340-4	.340	.035	8K3F32	
#080-340-540	340-5	.340	.040	8K3H32	\$ 3.99
#080-340-650	340-6	.340	.050	8K3J34	\$ 3.99
#080-340-760	340-7	.340	.060	8K3A34	
#080-340-870	340-8	.340	.070	8K3Q35	
#080-360-330	360-3	.360	.030	8K3A35	\$ 3.99
#080-360-435	360-4	.360	.035	8K3F34	
#080-360-540	360-5	.360	.040	8K3H16	\$ 3.99
#080-360-650	360-6	.360	.050	8K3A39	\$ 3.99
#080-360-760	360-7	.360	.060	8K3C38	
#080-360-870	360-8	.360	.070	8K3I38	\$ 3.99

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

MAGNA-TIP® PROFESSIONAL SUPER SETTM

120 Bits Total, Plus Handles For Every Application. The Most Versatile Magna-Tip Set Available

Brownells is proud to offer the most versatile screwdriver set for the professional gunsmith or serious hobbyist. Our Professional Super Set contains 120 Magna-Tip bits—the largest selection we've ever offered in a Magna-Tip set. Custom grinding bits for a proper fit, or having to put a crucial project on hold while you wait for a specialty screwdriver to arrive are worries of the past, because you'll always have at your fingertips the correct bit for any gun screw. Includes 75 straight, 4 Phillips, 17 hex (Allen), 11 Torx®, and 13 specialty bits for sights, scope mounts, grip bushings, Ruger ejectors, and other unique applications, plus the handy Magna-Tip Choke Tube Wrench and a hex-to-square adapter so you can use your handles to drive 1/4" drive sockets. The kit's seven driver handles ensure you have the handle best suited for any job. You get the full-size #81 Handle, #84 Hollow Handle, magnetic Law Enforcement Handle, Law Enforcement Hollow Handle, Compact Law Enforcement Handle, the popular Stubby, and our Magna-Tip Ratchet Handle. The heavy duty, three-way Ratchet Handle provides extra leverage and speeds torque transfer to tighten or loosen fasteners. This set

is also available with all of the above components, plus our Adjustable Torque Handle that provides precise tightening to exact torque specifications in 1 in-lb. increments from 15 to 70 in-lb. Already have all the Magna-Tip handles you need? The entire set is available with the bits only, plus the bench block. All three versions of the set come with a sturdy benchtop storage block to store all the bits

BI VDE

screwdriver systems you'll ever have separately. SPECS: Hardened block. Ratchet Hardened	e Professional Super Set is truly the most versatile em you'll ever use—and quite possibly the last one to buy! Adjustable Torque Handle also available is steel bits, high-density plastic handles. Delrin bench andle — Stainless steel shank, plastic handle. Torque uminum housing with synthetic rubber cover, and high- ndle.		
#080-000-532	Professional Super Set, 8K309B45	\$ 319.9)9
#080-000-531	Professional Super Set w/Adjustable Torque Ha	landle, 8K371M99	9
#080-001-217	Professional Super Set, Bits Only, 8K234C18		9
#080-001-294	Adi, Torque Handle, only 6F52F99	61.9	99

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PROFESSIONAL SUPER SET BITS					
STOCK#	BIT NO.	BLADE DIA.	BLADE THICKNESS	PRIC	CE
#080-120-120	120-1	.120	.020	8K3F27	\$ 3.99
#080-120-225	120-2	.120	.025	8K3K21	\$ 3.99
#080-120-330	120-3	.120	.030	8K3C25	\$ 3.99
#080-120-435	120-4	.120	.035	8K3A26	\$ 3.99
#080-120-540	120-5	.120	.040	8K3G26	\$ 3.99
#080-120-645	120-6	.120	.045	8K3H26	\$ 3.99
#080-445-002	445-00***	.138"	.028	8K3E13	\$ 3.99
#080-150-120	150-1	.150	.020	8K3K24	\$ 3.99
#080-150-225	150-2	.150	.025	8K3B21	\$ 3.99
#080-150-330	150-3	.150	.030	8K3P23	\$ 3.99
#080-150-435	150-4	.150	.035	8K3G24	\$ 3.99
#080-150-540	150-5	.150	.040	8K3Q23	\$ 3.99
#080-150-645	150-6	.150	.045	8K3H24	\$ 3.99
#080-445-032	445-0***	.154"	.032"	8K3L13	\$ 3.99
#080-180-120	180-1	.180	.020	8K3A23	\$ 3.99
#080-180-225	180-2	.180	.025	8K3M19	\$ 3.99
#080-180-330	180-3	.180	.030	8K3P23	\$ 3.99
#080-180-435	180-4	.180	.035	8K3F23	\$ 3.99
#080-146-006	#6 slot**	.180	.037	8K4K19	\$ 4.99
#080-180-540	180-5	.180	.040	8K3J23	\$ 3.99
#080-180-645	180-6	.180	.045	8K3G11	\$ 3.99
#080-445-103	445-10***	.138"	.034"	8K3H17	\$ 3.99
#080-210-120	210-1	.210	.020	8K3H18	\$ 3.99
#080-210-225	210-2	.210	.025	8K3D23	\$ 3.99
#080-210-330	210-3	.210	.030	8K3E23	\$ 3.99
#080-210-435	210-4	.210	.035	8K3P23	\$ 3.99
#080-210-540	210-5	.210	.040	8K3D24	\$ 3.99
#080-210-645	210-6	.210	.045	8K3F23	\$ 3.99
#080-210-750	210-7	.210	.050	8K3J23	\$ 3.99
#080-445-203	445-20***	.216"	.036"	8K3G00	\$ 3.99
#080-240-120	240-1	.240	.020	8K3Q24	\$ 3.99
#080-240-225	240-2	.240	.025	8K3B11	\$ 3.99
#080-240-330	240-3	.240	.030	8K3G23	\$ 3.99
#080-240-435	240-4	.240	.035	8K3A23	\$ 3.99
#080-240-540	240-5	.240	.040	8K3G21	\$ 3.99
#080-146-008	#8 slot**	.240	.040	8K4B19	\$ 4.99
#080-240-645	240-6	.240	.045	8K3D23	\$ 3.99
#080-240-750	240-7	.240	.050	8K3L23	\$ 3.99
#080-445-303	445-30***	.248"	.038"	8K3G11	\$ 3.99
#080-270-120	270-1	.270	.020	8K3C33	\$ 3.99
#080-270-225	270-2	.270	.025	8K3Q27	\$ 3.99
#080-270-330	270-3	.270	.030	8K3G33	\$ 3.99

			BLADE		
STOCK #	BIT NO.	BLADE DIA.	THICKNESS	PRIC	CE
#080-270-435	270-4	.270	.035	8K3J33	\$ 3.99
#080-270-540	270-5	.270	.040	8K3K33	\$ 3.99
#080-270-650	270-6	.270	.050	8K3J33	\$ 3.99
#080-270-760	270-7	.270	.060	8K3G33	\$ 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
#080-300-120	300-1	.300	.020	8K3P32	\$ 3.99
#080-300-225	300-2	.300	.025	8K3A38	\$ 3.99
#080-300-330	300-3	.300	.030	8K3Q36	\$ 3.99
#080-300-435	300-4	.300	.035	8K3C32	\$ 3.99
#080-300-540	300-5	.300	.040	8K3A34	\$ 3.99
#080-300-650	300-6	.300	.050	8K3J38	\$ 3.99
#080-300-760	300-7	.300	.060	8K3G38	\$ 3.99
#080-445-550	445-5***	.312"	.050"	8K3L13	\$ 3.99
#080-340-120	340-1	.340	.020	8K3F38	\$ 3.99
#080-340-225	340-2	.340	.025	8K3C32	\$ 3.99
#080-340-330	340-3	.340	.030	8K3G32	\$ 3.99
#080-340-435	340-4	.340	.035	8K3F32	\$ 3.99
#080-340-540	340-5	.340	.040	8K3H32	\$ 3.99
#080-340-650	340-6	.340	.050	8K3J34	\$ 3.99
#080-340-760	340-7	.340	.060	8K3A34	\$ 3.99
#080-340-870	340-8	.340	.070	8K3Q35	\$ 3.99
#080-360-120	360-1	.360	.020	8K3B34	\$ 3.99
#080-360-225	360-2	.360	.025	8K3A32	\$ 3.99
#080-360-330	360-3	.360	.030	8K3A35	\$ 3.99
#080-360-435	360-4	.360	.035	8K3F34	\$ 3.99
#080-360-540	360-5	.360	.040	8K3H16	\$ 3.99
#080-360-650	360-6	.360	.050	8K3A39	\$ 3.99
#080-445-655	445-6***	.360"	.055"	8K3G13	\$ 3.99
#080-360-760	360-7	.360	.060	8K3C38	\$ 3.99
#080-360-870	360-8	.360	.070	8K3I38	\$ 3.99
#080-440-001	440-0/1220*	Phillips #0	NA	8K2J18	\$ 2.99
#080-440-100		Phillips #1	NA	8K2M25	\$ 2.99
#080-440-200	440-2/1222*	Phillips #2	NA	8K2E28	\$ 2.99
#080-441-002	NA*	Phillips #2 Anti-	-Cam-Out	8K3F03	\$ 3.99
#080-185-002	185-00/5221*	1/16" Hex	NA	8K3N13	\$ 3.99
#080-185-000	185-0/5222*	5/64" Allen	NA	8K3M17	\$ 3.99
#080-185-100	185-1/5223*	³/₃₂" Allen	NA	8K3D99	\$ 3.99
#080-146-093	See-Thru**	³/₃₂" Allen	NA	8K5K04	\$ 5.99
#080-185-900	185-9/5224*	7/64" Allen	NA	8K3N24	\$ 3.99

STOCK#	BIT NO.	BLADE DIA.	BLADE THICKNESS	PRI	CE
±080-146-109	See-Thru**	7/64" Allen	NA	8K5H11	\$ 5.99
±080-185-200	185-2/5225*	¹/s" Allen	NA	8K3F14	\$ 3.99
±080-185-010	185-10/5226*	9/64" Allen	NA	8K3I78	\$ 4.99
±080-185-300	185-3/5227**	5/32" Allen	NA	8K2H48	\$ 2.99
±080-185-400	185-4/5228**	³/16" Allen	NA	8K3J27	\$ 3.99
£080-185-500	185-5/5229**	7/32" Allen	NA	8K3Q27	\$ 3.99
£080-185-600	185-6/5220**	¹/₄" Allen	NA	8K3N17	\$ 3.99
£080-118-015	H52215XM*	1.5mm Allen	NA	8K3G95	\$ 4.99
£080-118-020	H5222XM*	2mm Allen	NA	8K3H27	\$ 3.99
£080-118-025	H52225XM*	2.5mm Allen	NA	8K3I13	\$ 3.99
£080-118-030	H5223XM*	3mm Allen	NA	8K3M22	\$ 3.99
£080-118-040	H5224XM*	4mm Allen	NA	8K3D13	\$ 3.99
£080-435-031	NA*	T5 Torx	NA	8K3F17	\$ 3.99
±080-435-032	NA*	T6 Torx	NA	8K3D17	\$ 3.99
±080-435-033	NA*	T7 Torx	NA	8K3Q18	\$ 3.99
±080-435-034	NA*	T8 Torx	NA	8K3G99	\$ 3.99
±080-435-035	NA*	T9 Torx	NA	8K3E17	\$ 3.99
£080-435-010	NA*	T10 Torx	NA	8K3D99	\$ 3.99
±080-000-077	TL-10**	T10 Torx	NA	8K5Q04	\$ 5.99
±080-435-015	NA*	T15 Torx	NA	8K3J99	\$ 3.99
±080-000-078	TL-15**	T15 Torx	NA	8K5K09	\$ 5.99
±080-435-020	NA*	T20 Torx	NA	8K3F21	\$ 3.99
£080-435-025	NA*	T25 Torx	NA	8K3Q99	\$ 3.99
±080-430-430	L/B	Leupold & Buel windage	nler base	8K5A90	\$ 6.99
£080-430-400	RED	Redfield scope	base windage	8K5B23	\$ 6.99
£080-430-435	RUG	Ruger ring clan	np screws	8K7D42	\$ 9.99
£080-430-625	WVR	Weaver/Armspo	ort ring clamp	8K6Q20	\$ 8.99
±080-147-000	NA	Millett rear sigh	t	8K3N32	\$ 4.99
£080-431-000	NA	S&W rear sight per pak)	spanner (2	8K9M19	\$ 12.99
080-434-045	NA	1911 bushing di	river	8K11N06	\$ 13.99
‡080-134-00 1	NA	1911 slim bushi	ng driver	8K9G76	\$ 11.99
£080-136-000	NA***	Recoil pad long screw	Phillips	8K3N24	\$ 3.99
£080-137-002	NA***	Remington squ	are recess	8K3A18	\$ 3.99
±080-432-001	NA***	Ruger DA revol		8K7H69	\$ 8.99
198-000-010	NA	Choke Tube Wr	ench	8A7P54	\$ 9.99
±080-401-250	NA	Hex-to-square	adantar	8K4P65	\$ 5.99

11/2" (3.8cm) shaft length, unless otherwise noted.



MAGNA-TIP® **SCREWDRIVER HANDLES**

#81 - Rugged and hand filling, with a powerful magnet for fast bit changes. Plus, the magnetism transfers through the bit, to hold the screw against the bit. The grip is made from a tough, nearly unbreakable plastic, while the steel, hex shank accepts a small wrench for added leverage.

SPECS: 8" (20.3cm) long overall 1¹/₄" (3.2cm) diameter grip. 3¹/₄" (8.3cm) long shank.



#84 HOLLOW - Same size as #81 handle but with a hollow grip that holds four bits; screw-on cap keeps them in place. Make a custom screwdriver kit to fit each gun.

SPECS: 8" (20.3cm) long overall. 1¹/₄" (3.2cm) diameter grip. 3¹/₄" (8.3cm) long shank. Handle With Bits includes #445-1, #445-2, #445-3 and

#080-087-084	#84 Handle, w/4 bits, 8K19A35	\$ 20.99
#080-087-000	#84 Handle, no bits, <i>8K15E99</i>	17.99
#080-087-001	Replacement Cap, White, 1K2H37	2.99

STUBBY HANDLE - Just the ticket for tight places. Super-strong, magnetic grip of the full size MAGNA-TIP.

SPECS: 2¹/₂" (6.3cm) long overall. 1¹/₄" (3.2cm) diameter grip. ⁵/₈" (15.9mm) long shank.

#080-090-000	Stubby Handle,	8K9D13	\$ 12.99
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LAW ENFORCEMENT HANDLE - Originally requested by police armorers who wanted their hands close to the work but with a longer handle than our Stubby. About 25% shorter and smaller diameter than our #81 Handle. Magnetic bit socket for fast bit changes. **SPECS:** 5½" (14cm) long overall. 1" (2.5cm) diameter grip. ½/4" (4.5cm)

#080-088-004 Magnetic LE Handle, 8K12H38 \$ 14.99

COMPACT LAW ENFORCEMENT HANDLE - Similar proportions to our Standard Law Enforcement Handle in an even more compact package. Comfortable, small-diameter grip is longer and slimmer than our Stubby Handle to give you the extra grasping area you need to loosen stubborn screws.

SPECS: 3³/₄" (9.5cm) long overall. ⁷/₈" (2.2cm) dia. grip. 1" (2.5cm) long shank.

#080-089-006	Compact Magnetic LE Handle,
	8K11B37\$ 14.99

LAW ENFORCEMENT HOLLOW HANDLE - Combines the Law Enforcement Handle's short shank with the convenient storage compartment and full-size grip of our #84 Hollow Handle. Assemble your own gun-specific, go-anywhere pocket screwdriver kit for shop or field use. Magnetic socket for fast bit changes. **SPECS:** 63/16" (15.7cm) long overall. 11/4" (3.2cm) diameter grip. 13/4" (4.5cm) long shank

#080-088-006 LE Hollow Handle, 8K17P90 \$ 21.99



order on the web

^{* = 1&}quot; (2.5cm) shaft. ** = 11/4" (3.2cm) shaft. *** = 2" (5.1cm) shaft.

NEW:

For Gun Work

Parallel ground tips to

better fit the bottom of the

slot, where the screw is

strongest, for greater torque

transfer. Fit a wide selection

of factory screws. #6 X-L

has a 12" long shank for

buttstock screws/bolts. Be-

BROWNELLS MAGNA-TIP® BIT SHAPING STONE

Forms The Bit To Fit The Slot



of the hollow grind on both screwdriver models. SPECS: 1/4" (6.35mm) shank. 25,000 rpm. Large - 19/16" (3.97cm) dia. x 1/2" (12.4mm) thick. Small - 5/8" (15.0mm) diameter x 1/2" (12.4mm) thick.

#091-001-000	Large MAGNA-TIP Stone,	1K5J57	\$ 6.99
#091-001-625	Small MAGNA-TIP Stone,	1K8L58	10.99

FORSTER/BONANZA

GUNSMITH SCREWDRIVERS



SCREWDRIVER SET Non-Magnetic Assortment With Handle - Ratchet - Bits - Case

CHAPMAN

Small, compact kit for field maintenance/repair on guns. Snaplock, unbreakable, polyethylene

case. Each alloy steel bit is held in the handle by ball detents and stop. Extension is equipped with set screw

torque strength. Bits NOT guaranteed against breakage. SPECS: Set contains handle; extension; ratchet; 12 slotted bits; 2 Phillips bits and 1 Allen bit $4^{1/2}$ " (11 4cm) x 6" (15 2cm) case

DIES GITG I / MCTT L	nt. 1/2 (11. 1611) X O (15.2611) Case.	
#172-960-130	Midget Offset-Ratchet, 2G6N00	\$ 7.29
#172-960-000	Chanman Screwdriver Set 2G43P90	50.99

CHAPMAN TORX/ALLEN SET - 7 Torx bits, 11 Allen bits, 3 slotted bits, 2 Phillips bits and a 1/4" square drive adapter; twenty four bits in all; packed in a handy oil- and crush-resistant polyethylene case. Ratchet extension, midget ratchet and driver handle are also included.

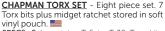
SPECS: Set contains T-6 to T-30 Torx bits, 1/16" to 1/4" Allen bits, 2, Phillips and 3, slotted bits. 1/4" square drive adapter, ratchet, ratchet extension and driver handle. 4¹/₂" (11.4cm) x 6" (15.2cm) case.

#172-681-000	Torx/Allen Set.	2G42F01	\$ 52.99

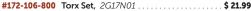
CHAPMAN "G" SET - Nineteen additional bits for the Chapman Screwdriver Set. SPECS: Set contains 11 - Allen head Bits from 1/16

to 5/16": 7 - Metric Allen head bits and 1 - 1/4" square drive adapter. Packed in vinyl holder. #172-960-118 Chapman "G" Set. 2G20P68





SPÉCS: Set contains T-6 to T-30 Torx bits, ratchet, vinyl pouch.





cause of the end use of this product, Forster offers a warranty on manufacturing defects but not misuse/abuse. Need only one driver? Or broke one from your set? Individual screwdrivers also sold separately.

SPECS: Tip sizes from ½8" (3.1mm) to ½64" (4.3mm) wide, .023" (.58mm) to .035" (88mm) thick. Set of 8 in soft plastic case.

.000 (.00111111)	trick. Set of 6 iff soft plastic case.	
#319-120-000	Screwdriver Set, 9A52K84	\$ 63.99
NEW 319-000-031	#3 Screwdriver .180"x .035", B&L/Weaver/ Buehler Scope Mount, 9A8Q79	9.29
MW 319-000-032	#4 Screwdriver .248" x .040", Williams 10-32, <i>9A8P79</i>	9.29
MEW 319-000-033	#5 Screwdriver .310" x .040", Rem/Win/Savage, <i>9A8N79</i>	9.29
#319-120-006	#6 X-L Screwdriver, 9A14D27	17.29
MEW 319-000-034	#10 Screwdriver .370" x .020", Win/Browning T'Guard, <i>9A8J79</i>	9.29
MEW 319-000-035	#13 Screwdriver .245" x .023", Browning Auto, <i>9A8A79</i>	9.29
NEW 319-000-036	#14 Screwdriver .310" x .035", T'guard Screw, <i>9A8L99</i>	8.99
MEW 319-000-037	#15 Screwdriver .310" x .037", T'guard Screw, 9 <i>88E79</i>	9.29
MEW 319-000-038	#16 Screwdriver, Redfield Scope Mounts, 9A8K79	9.29
MEW 319-000-039	#17 Screwdriver .122" x .035", Gen. Small Screw, <i>9A8A79</i>	9.29

CHAPMAN DELUXE GUN SCREWDRIVER SET

Expanded, Take-Along Kit

Snap-lock, hard shell case holds a gun-oriented selection of standard slotted and Phillips head bits. Plus, the most used Allen head bits to fit many new style scope and sight mounts. Hinge-top lid and easy-to-reach tray puts driver, ratchet and bits right at your fingertips. Slip inside your coat pocket or backpack for quick repairs while hunting or fishing. NOT guaran-



#172-890-000 Chapman Deluxe Screwdriver Set, 2G35Q27 .. \$ 44.99

BROWNELLS MAGNA-TIP®-TACTICAL/LE FIELD TORX® KIT



Fits Popular Scope Ring & Base Screws: Built-In Bit Storage

We answered the call from law enforcement ar-

morers for a compact, versatile Torx driver set for popular scope ring and base screws. Features five Magna-Tip Torx bits and our full-size Law Enforcement Hollow Handle driver with an internal bit storage compartment. Steel bits are heat treated then machined to precise tolerances to help ensure torque is transmitted smoothly and evenly to the screw head. Magnetic socket in the shank holds the bit securely at any angle.

SPECS: Driver - Plastic handle, steel shank. 63/16" (15.7cm) overall, 13/4" (4.5cm) long shank, 11/4" (3.2cm) diameter grip. Bits - Steel, heat treated. 1" (2.5cm) long, 1/4" (6.3mm) Allen hex. Kit contains one of each bit size: T-10 T-15 T-20 T-25 and T-30



BROWNELLS FIXED-BLADE — **GUNSMITH'S SCREWDRIVERS™**





• Crisp, Hollow-Ground Radius Gives Much More Strength

- True, Precision-Ground, Hollow-Ground Blades
- The Standard By Which To Judge All Other Screwdrivers
 - Sizes To Fit Nearly Every Gunscrew
 - Excellent Fit Superb Control

We're tickled as all get out to offer our Fixed-Blade, Gunsmith's Screwdriver Set designed and developed by gunsmiths for those gunsmiths who love solid, fixed-blade screwdrivers that fit their gun screws right - and simply won't have it any other way!

- THE PERFECT TIP & BLADE -

We started with the tip of the blade, the part that has to fit the gun screw properly, and the most important part of a gunsmith's screwdriver. The blade tips are then custom, precision-ground in a crisply radiused, hollow-ground shape to give maximum strength. And, the ideal parallel section is ground at the tip to fit the screw slot properly through the full width and depth of the slot. (This is what keeps you from buggering screws - a blade tip that evenly distributes the turning torque applied at the handle to the full width and depth of the screw slot.) We made the blades short (you're only 2¹/₂" from the workpiece) to give you maximum control, eliminate wobble and tilt. Yet, they are long enough to give you a good view of the work you are doing.

Tolerances are kept extremely tight for the entire blade, and the is also available on its own or with the Master Set and Add-On Oak entire blade/shank is hardened to Rc 58-60 for proper, maximum strength and toughness in a screwdriver.

- THE SHANK DESIGN -

The long parallel shank maintains the same diameter as the width of the blade. This allows repeated regrindings and reshapings while still maintaining the original blade width. In addition, it allows the screwdriver to go into holes or recesses that are only screwslot wide. The hex section allows you to use either an open-end wrench or one of the Midget Ratchets for more turning power on the heavier blades.

Finally, we put a size-sequence number - from 1 (smallest) to 20 (largest) on the hex section of each individual screwdriver so you can pick the size you want quickly.

- HANDLE CUSTOM-DESIGNED FOR YOU -

The handles are custom-made to our specifications to fit your hand well. They aren't too bulky, yet give a mighty good grip when large, tight screws have to be broken loose, and "fingertip" control when dealing with tiny, delicate screws. We use the same handle on all 20 screwdrivers to keep the same hand-fit and feel throughout

- DISTINCTIVE PRESENTATION BENCH BLOCKS -

In keeping with the superb quality of the screwdrivers, we designed two magnificent Solid Oak Bench Blocks to hold your Fixed-Blade Gunsmith's Screwdrivers. They are real beauties. Each one has 3 tiers to make them compact, you can see both the width/ thickness of the blade, the identifying number stamped on one flat of the exposed hex section and, the 20 holes (Master block) or 10 holes (Add-On block) are far enough apart for good finger room.

Every Bench Block is finished in a tough, non-gloss lacquer, and has anti-skid feet to keep it in place on your bench.

Finally, the Master Set Block includes a Personalized Name Plate for you to mount on your Bench Block, we have included the order form with each Block for you to choose which style of plate you want and the wording you would like. It's all paid for - and makes the Block perfect for awards or gifts, and just telling the world the Screwdrivers belong to you. The Add-On Block for the Super Master Set does not include the name plate.

- SETS AVAILABLE -

We've packaged the Screwdrivers four ways: the Starter Set™ has the 10 Screwdrivers highlighted in gray in the chart. The Completer Set™ adds the remaining 10 and turns a Starter Set™ into the Master SetTM. The Master SetTM has all 20 Screwdrivers, plus the properly radiused Bit Shaping Stone, and a bottle of Brownells Best Penetrating Oil™. The Master Set is available on its own or with the Master Set Oak Bench Block included. To create the The Super Master Set™ we took the Master Set and added 6 Allen head fixed blade screwdrivers and 3 Phillips "Anti-Cam" screwdrivers. This set

Bench Blocks included.

As with all our tools and supplies, they are guaranteed to please you, the most demanding craftsman in the world - the working gunsmith.

SPECS: 21/2" (6.3cm) long shanks. 33/4" (9.5cm) long x 1" (2.5cm) dia. handle. Each screwdriver packed in individual plastic tube.

STOCK #	SCREW-DRIVER #	SHANK DIA.	BLADE THICK	PRI	CE.
#080-451-001	#	.120	.030	8K8A49	
#080-451-002	2	.120	.040	8K9B12	\$ 11.99
#080-451-003	3	.150	.030	8K8F52	\$ 11.99
#080-451-004	4	.150	.040	8K7E75	\$ 11.99
#080-451-005	5	.180	.030	8K7F75	\$ 11.99
#080-451-006	6	.180	.040	8K11M13	\$ 12.9
#080-451-007	7	.210	.030	8K7B68	\$ 11.9
#080-451-008	8	.210	.040	8K7F58	\$ 11.9
#080-451-009	9	.240	.030	8K10A94	\$ 12.9
#080-451-010	10	.240	.040	8K10B30	\$ 11.9
#080-451-011	11	.270	.035	8K10D30	\$ 11.9
#080-451-012	12	.270	.045	8K7M60	\$ 11.9
#080-451-013	13	.300	.035	8K7I80	\$ 11.9
#080-451-014	14	.300	.045	8K10D95	\$ 12.9
#080-451-015	15	.300	.055	8K7N75	\$ 11.9
#080-451-016	16	.340	.040	8K7D58	\$ 11.9
#080-451-017	17	.340	.050	8K8H13	\$ 11.9
#080-451-018	18	.360	.040	8K7J81	\$ 11.9
#080-451-019	19	.360	.050	8K8J64	\$ 11.9
#080-451-020	20	.360	.060	8K11H81	\$ 13.9
#080-451-002	#2 Screwdrive	er, 8K9B	12		\$ 11.99
#080-451-017	#17 Screwdriv	er, 8K81	Н13		11.99
#080-451-110	Fixed-Blade S	tarter Se	t, 8K78A	43	94.9
#080-451-210	Fixed-Blade C	omplete	r Set, 8	<76M64 .	89.99
#080-451-000					
	8K147E42				163.99
#080-001-214	Gunsmith's M. Block, 8K200				240.99
#080-454-000					
	Set, 8K215H4				247.99
#080-001-215					
	Bench Blocks,				394.99
#084-305-100	Master Set Oa 4H57Q07				76.99
#084-305-110					/0.9
	8K58L91				69.99

#080-000-757 Tactical/LE Field Torx Kit, 8K17K99 \$ 19.99 GUARANTEED. FOREVER.®

SINCE 1939

BROWNELLS SPECIAL USE MAGNA-TIP® BITS-

THIN BIT SET - Eighteen incredibly thin bits to fit the extra-narrow screw slots often encountered on European-style screws. Take great care when using these bits. The blade MUST fill the slot from side-to-side and edge-to-edge or it will most certainly break. Freeze spray, heat, penetrating oil, a few taps, regrinding the bit for an even better fit.



SPECS: Includes 18, 11/2" (3.8cm) long bits in

STOCK #	BIT#	BLADE WIDTH	BLADE THICK	PRIC	CE
#080-120-120	120-1	.120	.020	8K3F27	\$ 3.99
#080-120-225	120-2	.120	.025	8K3K21	\$ 3.99
#080-150-120	150-1	.150	.020	8K3K24	\$ 3.99
#080-150-225	150-2	.150	.025	8K3B21	\$ 3.99
#080-180-120	180-1	.180	.020	8K3A23	\$ 3.99
#080-180-225	180-2	.180	.025	8K3M19	\$ 3.99
#080-210-120	210-1	.210	.020	8K3H18	\$ 3.99
#080-210-225	210-2	.210	.025	8K3D23	\$ 3.99
#080-240-120	240-1	.240	.020	8K3Q24	\$ 3.99
#080-240-225	240-2	.240	.025	8K3B11	\$ 3.99
#080-270-120	270-1	.270	.020	8K3C33	\$ 3.99
#080-270-225	270-2	.270	.025	8K3Q27	\$ 3.99
#080-300-120	300-1	.300	.020	8K3P32	\$ 3.99
#080-300-225	300-2	.300	.025	8K3A38	\$ 3.99
#080-340-120	340-1	.340	.020	8K3F38	\$ 3.99
#080-340-225	340-2	.340	.025	8K3C32	\$ 3.99
#080-360-120	360-1	.360	.020	8K3B34	\$ 3.99
#080-360-225	360-2	.360	.025	8K3A32	\$ 3.99

ANTI-CAM-OUT PHILLIPS BITS - Ridges dig in and grab the sides of the slot, keeping the bit from "reaming" the slots.

SPECS: 1" (2.5cm) long. 1/4" (6.3mm) shank. Set includes all three.

STOCK #	SIZE	PRICE	STOCK #	SIZE	PRICE
#080-441-001	1	\$ 3.99	#080-441-003	3	\$ 3.99
#080-441-002	2	\$ 3.99			
#080-441-000	Anti-C	`am Phillir	os Rit Set 8K4A8	20	\$ 5 99

bits, 8K6G63

TORX® BITS - Found on everything from scope rings and bases, to autos and appliances, T-10 bit fits Brownells Scope Ring Screws ==

SPECS: 1" (2.5cm) long. 1/4" (6.3mm) shank. Set includes ten bits.

STOCK #	SIZE	PRICE	STOCK #	SIZE	PRICE
#080-435-031	T5 Torx	\$ 3.99	#080-435-010	T10 Torx	\$ 3.99
#080-435-032	T6 Torx	\$ 3.99	#080-435-015	T15 Torx	\$ 3.99
#080-435-033	T7 Torx	\$ 3.99	#080-435-020	T20 Torx	\$ 3.99
#080-435-034	T8 Torx	\$ 3.99	#080-435-025	T25 Torx	\$ 3.99
#080-435-035	T9 Torx	\$ 3.99	#080-435-030	T30 Torx	\$ 3.99
		-	3J99		
#080-435-000	Torx Bit	Set , 8K1	.5K60		. 17.99

ALLEN, PHILLIPS & SQUARE BITS - All are standard 1" (2.5cm) long, 1/4" (6.3mm) hex shank bits. Phillips bits are NOT anti-cam. Square socket screws are in RV's, cabinets, other places. 1/8" square fits newer Remington buttplates.

SPECS: Allen Bit Set includes all ten "185" series bits listed in our MAGNA-TIP® chart. Phillips Bit Set includes #0.

#1 and #2 Phillips Bits. Square Bit Set includes 1/16", 3/32", 1/8" and 9/64" Square Bits. "Other Bit" Master Kit includes the Allen. Phillips and Square Bit Sets described: 17 hits in all



INDIVIDUAL MAGNA-TIP® SQUARE BITS

STOCK #	SIZE	PRICE	STOCK #	SIZE	PRICE
#080-444-100	1/16"	\$ 2.99	#080-444-101	3/32"	\$ 2.99
#080-444-102	1/8"	\$ 2.99	#080-444-103	9/64"	\$ 2.99

METRIC ALLEN HEAD BITS - The most popular sizes found on European and Japanese guns. Set contains all nine bits.

STOCK #	SIZE	PRICE	STOCK #	SIZE	PRICE
#080-118-015	1.5mm	\$ 4.99	#080-118-050	5mm	\$ 2.99
#080-118-020	2mm	\$ 3.99	#080-118-060	6mm	\$ 3.99
#080-118-025	2.5mm	\$ 3.99	#080-118-070	7mm	\$ 3.99
#080-118-030	3mm	\$ 3.99	#080-118-080	8mm	\$ 4.99
#080-118-040	4mm	\$ 3.99			

#080-118-000 Metric Allen Head Bit Set. 8K19H78.....\$ 22.99 LONG PHILLIPS BLADE - Often wondered how some shops put on recoil

pads and never show a mark at the screw slot? This super-long (2") Phillips head for your MAGNA-TIP® is one of the ways (see GUNSMITH KINKS® pages 105, 118-119). Really works!

SPECS: Steel. 2" (5cm) long. 1/4" hex end.

080-136-000	Long Phillips Blade,	8K3N24	\$ 3.99

SQUARE RECESS BIT - The right square size to fit Remington's unique screw, plus a long, round shank that fits through recoil pads without gouging. SPECS: 19/16" (3.9cm) long. 3/16" (4.7mm) shaft diameter.

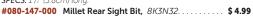
#080-137-002 Remington Square Bit, 8K3A18..... \$ 3.99



SPECS: WVR fits Weaver and Armsport ring clamp screws. RED fits Redfield base windage screws. L/B fits Leupold and Buehler base windage screws. RUG fits Ruger ring clamp screws.

#080-430-625	WVR Clamp Screw Bit, 8K6Q20	\$ 8.99
#080-430-400	RED Clamp Screw Bit, 8K5B23	6.99
#080-430-430	L/B Clamp Screw Bit, 8K5A90	6.99
#080-430-435	RUG Clamp Screw Bit, 8K7D42	9.99
#080-430-000	Windage/Clamp Screw Bit Set,	
	8K20L31	24.99
#080-430-100	Windage/Clamp Screw Bit Combo,	
	8K28L51	30.99

MILLETT REAR SIGHT BIT - Cross-slotted tip fits Millett elevation and windage screws. Flat ground blades provide an exact fit that will not slip and deform screw head. SPECS: 11/2" (3.8cm) Jona



1911 AUTO BUSHING DRIVER BITS - Special MAGNA-TIP® bits correctly center the blade and fully support 1911 grip bushings. Makes removal easier, faster and prevents tearing up the

slot. Regular 1911 Bushing Driver Bit removes standard bushings. Slim 1911 Bushing Driver Bit removes the thin bushings used for slim grips.

SPECS: 19/16" (3.9cm) overall length, 5/16" (8mm).

IMPACT DRIVER

If It Is Going To Come Out - This Will Do It



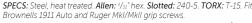
Loosen frozen screws or securely tighten those that want to work loose (like scope base screws). Gives rotary impact power that hand tightening can't, and won't twist screw heads off.

SPECS: Driver, 11/4" (3.2cm) diameter x 43/4" (12cm). Steel. 3/8" (9.5mm) sq. drive male end. Bit Holder, 3/8" (9.5mm) sq. drive (female) socket adapts 1/4" (8mm) hex bits (MAGNA-TIP®) to 3/8" (9.5mm) sq. drive (as on Impact Driver). Set contains: Impact Driver; 3/8" (9.5mm) Bit Holder; 14 MAGNA-

#531-290-000 (Impact Driver, 1C28D16	\$ 32.99
#080-430-025 Socket Drive Adapter, 8K5A06	5.99
#080-669-000 (a) Impact Driver Set. 8K37N60	52.99

#080-434-045 Magna-Tip .45 Bushing Driver Bit, 8K11N06 \$ 13.99 #080-134-001 1911 Slim Bushing Bit, 8K9G76...... 11.99

PISTOL GRIP SCREW BITS - Here are the three Magna®-Tip bits you'll need to install and remove our custom grip screws. Although we picked them to match our screws, they'll fit other brands



‡080-185-100	3/32" Allen Bit, 8K3D99	\$ 3.99
#080-240-540	#240-5 Slotted Bit, 8K3G21	3.99
#080-435-015	T15 Torx Bit, 8K3J99	3.99

 $\underline{\textbf{4" EXTENSION}}$ - Adds 4" to any Magna-Tip driver to allow access to those hard-to-reach places. Magnetic socket holds bits securely. Fits all Magna-Tip bits and handles. SPECS: 4" (10.2cm) long.



SQUARE DRIVE ADAPTER - Tighten small bolts and nuts faster and more carefully than with a wrench. Hex to square adapter fits MAGNA-TIP handles and power driver bit holders converting them into effective nut drivers using your 1/4" drive sockets. Gives added versatility for your MAGNA-TIP set.

SPECS: Steel. 1.25" (31cm) long. ¹/₄" hex (6.3mm) to ¹/₄" square. #080-401-250 Square Drive Adapter, 8K4P65 \$ 5.99

SOCKET DRIVE ADAPTER - Quick change, Clip-Tip style adapter lets you use your MAG-NA-TIP bits with 3/8" drive socket set ratchets. extensions, speed handles, and T-handles. Tapered nose won't obstruct view of work. Heattreated steel.

SPECS: 3/8" (9.5mm) drive to 1/4" (6.3mm) hex. 11/4" (3.2cm) L x 3/4" (19.0mm) diameter. Nose is 7/16" (11.1mm) diameter.

#080-430-025 Socket Drive Adapter, 8K5A06 \$ 5.99

SEE-THRU RING BITS - Extra-long MAGNA-TIP bits reach right through scope rings. **Set** includes bits for #6 and #8 slotted screws; 3/32" (fits Leupold) and 7/64" (fits Redfield) hex-head, T-10 and T-15 TORX ring and base screws.

SPECS: 17/8" (4.7cm) long overall, 11/4" (3.1cm) long shank.

#080-146-006	#6 Slotted See Thru Bit, 8K4K19\$ 4.9
#080-146-008	#8 Slotted See Thru Bit, 8K4B19 4.9
#080-146-093	³ / ₃₂ " Hex See Thru Bit, 8K5K04 5.9
#080-146-109	⁷ / ₆₄ " Hex See Thru Bit, 8K5H11 5.9
#080-000-077	T-10 Torx See Thru Bit, 8K5Q04 5.9
#080-000-078	T-15 Torx See Thru Bit, 8K5K09 5.9
#080-146-000	See-Thru Bit Set, 8K16N47

GRACE SCREWDRIVER SETS

Complete Sets For Gun-Specific Applications

Pre-ground, parallel tipped screwdrivers to fit specific gun screw applications. Features square shank. hardened tips, square hardwood handle, and nickel-



plated ferrule. Made in the USA; limited warranty.

PISTOLSMITH SET - Seven screwdrivers fit many Colt, S&W and Ruger® handgun screws, and many others.

SPECS: Steel, blue shank; wooden handle. Set includes (7) screwdrivers with the following dimensions (blade width x blade thickness x OAL): P1 - .080" x .022" x 4.75", **P2** - .120" x .025" x 5.5", **P3** - .125" x .028" x 6.25", P4 - .150" x .031" x 6.25". P5 - .200" x .025" x 6.25". P6 - .175" x .037" x 7.5". P7 - .230" x .043" x 8.5".

#354-107-000	Pistolsmith 7-Screwdriver Set,
	4E37L76\$45.

BROWNING SET - Five-screwdriver set fits Browning A-5 Shotgun tang, mainspring, front and rear triggerplate, and carrier screws. Very thin blades, carry only a limited warranty.

SPECS: Steel, blue shank; wooden handle. Set includes (5) screwdrivers with the following dimensions (blade width x blade thickness x OAL): BB8 - .275" x .030" x 9.25", BB9 - ..220" x .024" x 7.5", BB10 - .275" x .024" x 9.25", BB11 - .200" x .022" x 6.25", BB12 - .200" x .026" x 6.25".

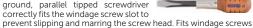
#354-105-000 Browning Screwdriver Set, 4E30D44 . . \$ 40.99

COLT SET - Three-screwdriver set includes a handy vinyl carry pouch. Blades are ground to fit Colt SAA trigger/hammer screws, grip screws, and grip frame screws, including most clones. SPECS: Steel, blue shank; wooden handle. Set includes (3) screwdrivers

with the following dimensions (blade width x blade thickness x OAL): C2 - .194" x .029" x 6.25". C3 - .280" x .028" x 4.20". C1 - .150" x .032" x 6".

#354-000-001 Colt Screwdriver Set, 4E24D13...... \$ 30.99

WINDAGE SCREWDRIVER - Preground, parallel tipped screwdriver correctly fits the windage screw slot to



on Leupold®, Redfield®, and Burris® scope bases. SPECS: Steel, blue shank with wooden handle, 24" (6.1mm) blade width

x .073" (1.8mm) blade thickness x 6½" (16.5cm) OAL.

#354-000-024 Windage Screwdriver, 4E12I42 \$ 16.99

GRACE SCREWDRIVER SET Wooden Handles, Heavy Square Shanks

Made from standard keystone bit screwdrivers with tip of bit ground parallel for short distance back to give better fit. Features square shank: hardened tips: square, hardwood handle and nickelplated ferrule. Made in the USA, guaranteed not to break or chip.

SPECS: Set of 8 or individuals available. Wooden handles.

STOCK#	SCREWDRIVER #	APPROX. BLADE WIDTH	APPROX. BLADE THICKNESS	OVERALL LENGTH
#354-008-001	N3	.315"	.041"	9.25"
#354-008-002	N2	.300"	.037"	4"
#354-008-003	H3	.190"	.038"	7.5"
#354-008-004	N4	.375"	.049"	9.50"
#354-008-005	H2	.195"	.032"	6.25"
#354-008-006	G2	.125"	.025"	4.5"
#354-008-007	H4	.235"	.044"	8.5"
#354-008-008	G3	.160"	.031"	5.5"
- Advise # -	Individual Gra	ace Screwd	river, 4E9M25	\$ 10.99

#354-008-000 Grace 8-Screwdriver Set, 4E37N65.... \$ 42.99

order on the web



GRACEUSA SCREWDRIVER SETS



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 $\frac{1}{16}$, $\frac{5}{64}$, $\frac{3}{32}$, $\frac{7}{64}$, $\frac{1}{8}$, $\frac{9}{64}$, $\frac{5}{32}$, $\frac{3}{16}$, 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.

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", 5/64" x .018",

#354-000-036 Grace Micro Screwdriver Set,

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 doubleended, 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. ==

SLOTTED SET - 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" (.368 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 15/16" (15.08cm) to 12 7/8" (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. 5½" (13.97cm) to 13¾" (34.9cm)

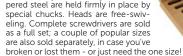
#354-000-033 Phillips Screwdriver Set, 4E36M75..... \$ 49.99

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

long. 27/8" (7.3cm) long shank.



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 Screwariver Set, 9D91E93\$	100.99
#249-914-060	.06" (1.5mm) Screwdriver, 9D9109	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"

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; fluted handle provides a solid grip.

SPECS: T-10 - 5" (12.7cm) long. 23/4" (7cm) long shank. T-15 - 51/2" (14cm)

#123-127-100 T-10 TORX Driver, 3B6K63..... \$ 9.19

#123-127-150 T-15 TORX Driver, 3B6N64..... 9.19

T-10 and T-15 fit Brownells, Burris and Leupold scope ring

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 Philips 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.

	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, 7837J97	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, #123-000-023 Torx® Driver Set, Flag Handle, 3B29174 . . 34.99 #123-000-024 ProHold® Torx® Driver Set, T-Handle, 3B54G34..... #123-000-025 T-Handle Torx® Driver, T-10, 3B8G52.... 9.99 #123-000-026 T-Handle Torx® Driver, T-15, 3B6H40.... 9.99

NEW

and excellent grip.

FIX-IT STICKS COMPACT T-HANDLE DRIVER + BITS

BONDHUS

Adjustable Shafts With Interchangeable Bits To Fit

& Reach Small Screws

interchangeable steel shafts

with 12 precision-ground bits for fast change from

standard slot blade to Phil-

parts and accessories found

lips or Torx® tip. Great for

working on the many small

in most gun shops and hobbyist work benches. Collet lets you ad-

just 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

SPECS: Handle – Steel, polypropylene, and neoprene, gray and black.

Shaft/Bits - Chrome-moly-vanadium steel, 43/4" (12cm) long. Bits: Stan-

dard - 5/64 x .016" (2.0 x 0.4mm), 9/64 x .141" (3.5 x 0.6mm); Phillips - 000,

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

Driver system has six,

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

00. 0. and 1: Torx® - T6. T7. T8. T9. T10. T15.

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", 5/64", 3/32", 5/32", 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

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 $4^{1}/4^{n}$ (T-6) to $5^{3}/4^{n}$ (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. Rubbercovered 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

metal rods.

SPECS: Steel. Needle Nose - 61/2" (16.5cm) OAL. 115/16" (4.9cm) long jaw, including cutter. **Diagonal** - 6¹/₄" (15.9cm) OAL. ¹³/₁₆" (2.1cm) long jaw. Angle Nose Slip Joint - 53/8" (13.7cm) OAL \$ 82.99

and milled teeth that curve at the back for rounded objects, like hot

	3-Pc Pliers Set , 4E71/61	\$ 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 53/4".)

#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, flatnosed 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.



ŠPECS: Both; 5" (12.7cm) long, 11/8" (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°, ballend, 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: 2⁷/₈" (7.3cm) - 6¹/₂" (16.5cm) long. Inch Set - 12 sizes: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4" 5/16". Metric Set - 9 sizes: 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10mm.

STOCK #	SIZE	PRICE	STOCK #	SIZE	PRICE
#123-109-050	.050"	\$ 3.99	#123-109-125	1/8"	\$ 3.99
#123-109-062	1/16"	\$ 3.99	#123-109-140	9/64"	\$ 3.99
#123-109-078	5/64"	\$ 3.99	#123-109-156	5/32"	\$ 3.99
#123-109-093	3/32"	\$ 3.99	#123-109-187	3/16"	\$ 3.99
#123-109-109	7/64"	\$ 3.99			

#123-109-000	Inch Ball-Hex Wrench Set,	3B10P47	\$ 14.99
#123-110-000	Metric Ball-Hex Wrench Se	t, 3B11M26.	14.99

BONDHUS SHORT-ARM HEX "L" WRENCHES



For Micro-Sized Hex Head Screws: Inch & Metric Sets Available

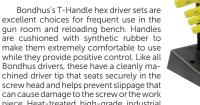
Micro-sized, short-arm hex wrenches get in the tight areas to adjust triggers, reflex sights, iron sights, or anyplace else small Allen head screws are used. Machined from proprietary, high-strength, Protanium® steel alloy with precision chamfered ends for easy insertion. Separate Inch and Metric sets available. SPECS: Protanium® steel. 11/4" (3.2cm) 21/2" (6.3cm) long. Inch Set includes .028". .035". .050". 1/16". 5/64" and 3/52" sizes. **Metric Set** includes .71mm,

#123-000-016	Inch Short-Arm Hex "L" Wrench Set, 387P57\$ 9.99
#123-000-017	Metric Short-Arm Hex "L" Wrench Set, 3B7N19

BONDHUS T-HANDLE HEX TOOL SET

Gives Plenty Of Leverage To Securely **Torque Down Hex Screws**

chined 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.

10-Piece T-Handle Hex Tool Set, ³ / ₅₂ " to ³ / ₈ ", <i>3B49P98</i> \$ 57.99
8-Piece T-Handle Hex Tool Set, 2mm to 10mm, <i>3B32C45</i>



BONDHUS® 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. 27/8" (7.3cm) - 61/2" (16.5cm)

2.5, 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.

SIZE	PRICE	STOCK #	SIZE	PRICE
.050"	\$ 4.99	#123-000-008	1/8"	\$ 4.99
1/16"	\$ 4.99	#123-000-009	9/64"	\$ 3.99
5/64"	\$ 3.99	#123-000-010	5/32"	\$ 3.99
3/32"	\$ 3.99	#123-000-014	5/16"	\$ 6.99
7/64"	\$ 3.99			
	.050" 1/16" 5/64" 3/32"	.050" \$ 4.99 1/16" \$ 4.99 5/64" \$ 3.99 3/32" \$ 3.99	.050° \$ 4.99 #123-000-008 1/15° \$ 4.99 #123-000-009 5/64° \$ 3.99 #123-000-010 3/32° \$ 3.99 #123-000-014	.050° \$ 4.99 #123-000-008

	1 32	+			, 10	+
#123-000-007	7/64"	\$ 3.99				
#123-000-019	13-Pied	ce Inch B	all-Hex Wi	rench	Set,	
	.050" to	3/8", <i>3B2</i>	21G62			\$ 29.99
#123-000-020	9-Piece	e Metric I	Ball-Hex W	/rench	ı Set,	
	1.5mm	to 10mm	n, 3B17N67	7		23.99
#123-000-021	8-Piece	e Star Tip	Wrench S	et, T9	to T40,	
	3R16A7					25 99

BONDHUS FOLD-UP WRENCH SETS



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 5/64" 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.

	itiletic case, approx. 4 torig.	
#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

- 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", 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8". Yellow coated. Metric Set - 1.5mm,

2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm. Red coated.			
#587-000-001	#587-000-001 Inch Twisted Hex Wrench Set,		
	7H31D39		
#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. Minature 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
	#100-018-237 #100-034-937 #100-018-236 #100-034-938	#100-018-237 15 in-lb. Miniature Torque Limiter, 2F34L98. #100-034-937 20 in-lb. Miniature Torque Limiter, 2F35H70 #100-018-236 25 in-lb. Miniature Torque Limiter, 2F34G98. #100-034-938 30 in-lb. Miniature Torque Limiter, 2F35E70. #100-018-235 65 in-lb. Miniature Torque Limiter,

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

order on the web brownells.com

BROWNELLS PAGE 449

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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, rubbercoated 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 overtightening impossible. Each driver is hand calibrated and inspected, and comes with a handwritten certification card.

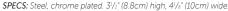
SPECS: Stainless steel shank & internal mechanism. High-impact, molded, hard-polymer housing, rubber-overmolded handle. Includes these 1/4" bits: Torx® T-10 & T-15, plus 3/32" & 5/32" hex with 1" long shanks; T-25 and 5/v" hex with 4" long shanks.

#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

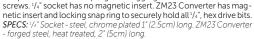
Improve accuracy and shot-to-shot consistency by torquing rifle triggerguard, plus any ring and base screws to the same reading every time. Convenient "T" handles break away at pre-set, inch/pound torque values and the back-off feature allows the screw to be removed again. Accepts all 1/4" drive attachments



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



#084-095-250	¹/₄" Socket, 9B5P19\$ 5.99	
#084-095-230	ZM23 Converter, 8K18M62 21.99	

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



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

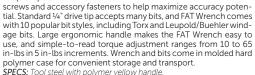
Chrome-plated, high-alloy steel, variable-dial torque wrench lets you see the exact amount of inch pounds you're applying. Large dial, with contrasting, black numerals on a white background, is easy to read; includes one-inch-pound graduations from 1 to 75. Heattreated, molybdenum, fish-scaled handle 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. 211/64" (5.5cm) O.D. dial. 3/4" (20mm) O.D. han-

dle. 10¹/₄" (26cm) OAL. +/- 3% accuracy. #792-000-001 1-75 in. Lb. Variable Torque Wrench,

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



#100-012-250 (FAT Wrench w/10 Bit Set, 7A00FHF. \$ 58.99

JEWELER'S DEEP SAWFRAME



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

Handy Little Jig Saw

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

PIERCING BLADES - Round back follows curves. Pak of 12. SPECS: 5¹/₄" (13.3cm) long. Size 1 - .0120" (.30mm) thick, .0240" (.60mm) wide. Size 4 - .0150" (.38mm) thick, .0307" (.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.

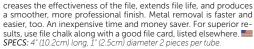
SPECS: Chrome-plated steel. 1/2" (12.7mm) drive. 171/8" (43.5cm) long. 1" (2.5cm) diameter handle. 30 - 150 foot pound range.

#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 in-



	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 adi. 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, 2¹/₄" (5.7cm) high. 12 holes ⁷/₁₆ (11.1mm) diameter: 16 holes ⁹/₃₂" (7.1mm) diameter: 12 holes ³/₁₆" (4.8mm) diameter All holes 11/4" (3.2cm) deen

#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.

SPECS: L1 - 2³/₄" (7cm) long. ⁵/₈" (15.9mm) dia. Hole is ¹/₈" (3.2mm) dia L2 - 3" (7.6mm) long, 13/16" (20.6mm) dia. Hole is 1/8" (3.2mm) dia. L3 - 33/8 (8.6cm) long. 15/16" (24mm) dia. Hole is 3/16" (4.8mm) dia. L4 - 33/4" (9.5cm) long, 11/16" (2.7cm) dia. Hole is 1/4" (6.3mm) dia. L5 - 41/2" (11.4cm) long, 13/16 (3cm) dia. Hole is 5/16" (7.9mm) diameter. Try-Pak contains one each in vellow and black. 10 in all.

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

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

FILE ACCESSORIES

DOUBLE-FACE FILE CLEANER - Stiff, 5/16" long, angle bent, steel wire bristles, plus ³/₄" long, stiff synthetic bristles. SPECS: 9" (22.9cm) overall length. Hard-



#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: 33/16" (8cm) long. 13/16" (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 FILE 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. Im-



proves 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, 41/2" (11.4 cm) long.

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SERIOUS ABOUT FIREARMS SINCE 1939

GUARANTEED. FOREVER.® **SINCE 1939**

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, Coars	se, 9B32H64	44.99

STK# COARSE	TYPE
NA	Round
NA	Square
#290-600-203	Three Sq.
#290-600-105 #290-600-205	
	NA NA #290-600-203

- 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. 51/2" (14cm) overall length Shank 23/8" (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

Orders: 800-741-0015

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: 5¹/₂" (14.0cm) overall, 2¹/₂" (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 out 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: 61/4" (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, 8K21/93	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 21/2 times thinner than others on



#100-015-133	3-Piece Flat File Set,	7C24J66	\$ 34.99
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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: 61/4" (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", 060", .070", .080", .090", .100"

#100-015-132	12-Piece Diamond Micro Files,	
	7(7/11)	¢ 70 00

#T00-0T2-T25	12-Piece Diamond Micro Files,	
	7C34l12	\$ 39.99

ECONOMY NEEDLE FILE SET

Excellent Choice For Occasional Use

ment of 12 different shapes. Recom-

mended for occasional use, or where

Professional Gunsmith Files are not

needed or justified. Handy, plastic, roll

case. Knurled handles fit Needle File

SPECS: Set of 1 each: Barrette, Hand, Hand w/round edges, Warding, Crochet, Three Square, Square, Half Round, Round, Knife,

Handle. Sold in set only.

Good quality needle files in assort-

LATHE FILES

PRICE

1A7M52 \$ 8.99

1A7G15 **\$ 10.99**

1A10Q92 **\$ 12.99**

1A9K22 \$ 10.99

8K8L89 **\$ 13.99**

1A10Q20 \$ 15.99 1A11Q06 \$ 16.99

"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

AMERICAN PATTERN FILES

Excellent For Finish Work

slightly in width, thickness stays the same over the entire length.

SPECS: 6" (15.2cm), 19/32" (7.1mm) wide x 7/64" (2.8mm) thick. 8" (20.3cm),

²⁵/₃₂" (19.9mm) wide x ⁹/₆₄" (3.6mm) thick. **10**" (25.4cm). ³¹/₃₂" (24.6mm) wide

Both edges are square. Single cut on sides and edges.

CUT

Bastard

Second

Smooth

Bastard

Smooth

Second

Smooth

Made especially for draw-filing and finishing metals. Taper

LENGTH

6" (15.2cm)

6" (15.2cm)

6" (15.2cm)

8" (20.3cm)

8" (20.3cm)

10" (25.4cm)

10" (25.4cm)

SPECS: 10" (25.4cm) ³¹/₃₂" (24.6mm) wide. ¹/₄" (6.3mm) thick. 12" (30.5cm) ¹³/₁₆" (3.0mm) wide. ⁹/₃₂" (7.1mm) thick.

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

HALF-ROUND FILES

MILL FILES

x 11/64" (4.4mm) thick.

STOCK #

#191-083-540

#191-083-850

#191-084-160

#191-084-970

#191-085-600

#191-086-730

#191-087-040

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 7/5" (5 6mm) thick

STOCK #	CUT	LENGTH	PRI	CE
#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

Slitting and Crossing. Approx. 51/2" long. Shank 21/2" 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) - 25/32" (19.8mm) wide x 7/32" (5.6mm) thick. 10" (25.4cm) - 31/32" (24.6mm) wide x 1/4" (6.3mm) thick.

STOCK #	CUT	PATTERN	LENGTH	PRI	CE
#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

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, 73/4" (15cm) long x1/8" (3.2cm) or 5/32" (3.9cm) dia.: 9½" (15cm) long x ¾16" (4.7cm), ¾32" (5.5cm), or ¼" (6.3cm) dia.

STOCK #	DIAMETER	STOCK #	DIAMETER
191-000-003	1/8"	#191-000-006	7/32"
191-000-004	5/32"	#191-000-007	1/4"
191-000-005	3/16"		
		-	

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

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.

order on the web

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SWISS PATTERN PILLAR FILES

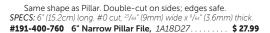
Four Widths For Precise Final Filing

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. $^{23}/_{e^*}$ (9.1mm) wide $x^7/_{e^*}$ (2.8mm) thick. 6" (15.2cm) #00, #0 & #2 cut. $^{19}/_{e^*}$ (11.9mm) wide $x^7/_{e^*}$ (3.6mm) thick. 8" (20.3cm) #00, #0, #2 cut. $^{39}/_{e^*}$ (15.5mm) wide $x^{13}/_{e^*}$ (5.2mm) thick.

STOCK #	CUT	LENGTH	PRI	CE
#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



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 %=" (7.1mm) wide. %=" (3.6mm) thick. #0, #2, #4 Cut %=" (6.7mm) wide. '/s" (3.2mm) thick. All taper slightly in thickness.

#360-312-121	Extra Narrow Pillar File, #00, 6C30L2/	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. ¹/₂₂'(4mm) wide. Thickness tapers slightly from

ै/७ (1.2mm). #360-312-021 #0 Very Extra Narrow Pillar File.

#300-312-021	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 6C26M20	\$ 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) - ½" (12.7mm) wide. #0 or #1 cut. 6" (15.2cm) - ½" (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 schnables, 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 1/8" (3.2mm) at the points

#360-313-841 1/2 Round Vulcanite File. 6C40M60 \$ 53.99

APG

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 ½" (12.7mm) wide. Cutting area: 6" (15.2cm) x ½" (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: 6³/₄" (17.1cm) long Nickel plated.

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⁻/₄" (14.6cm) long overall. Shank is 1¹/₂" (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 quarantee.

SPECS: 5⁵/s" (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:/.a* (3.2cm) wide, 7/.a* (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. sinale-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. sinale-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: $12^{5/8}$ " (19cm) overall length. $^{7}/_{8}$ " (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: 61/2" (16.5cm) long. Wt. approximately 1/2 oz. (14g) each. 5 different shapes. Set contains



OTTE OT CUCIT.		
#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
SPECS: 6" (15.2cr	onger than Explorers. m) long, weight approx. ½ oz. (14g) bes available: #15 - Straight Shank	

cacii. 2 ciiu siiap	Jes available. #13 - Sti	alylic Silalik 1	0
or #16 - Bent Sh	ank. Single-ended.	4	
#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

LYMAN **DIAL CALIPER**

High-Quality Stainless Steel At A Moderate Price



side, 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-toread. black-on-white dial is single revolution per .100", graduations in .001". Includes thumb roller, slide lock, and case.

SPECS: Approximately 91/2" (24cm) long, 11/2" (3.8cm) diameter dial. 91/2" x 31/2" (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 guess-

work 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, 91/4" (23.4cm) long, Includes foam-padded, plastic case and battery.

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

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

SPECS: Steel, blued shanks. Wooden handles. Set of 3 picks and 3 hooks. **#100-011-441** Hook & Pick Set, 4E19P95 \$ 24.99

MITUTOYO DIGIMATIC CALIPERS

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

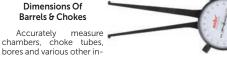


Ready to measure right out of the box, no programming. Open jaws with the smooth-feel thumb wheel and read the LCD display. No reading "between the lines!" If you want to compare dimensions, reset the zero anywhere on the scale, caliper will give plus/ minus readings. Close and reset zero and it's a regular caliper again. Graduations also marked on the beam for a guick 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: 9¹/₁₆" (23.1cm) overall. Stainless steel. Plastic hard case: includes battery. #606-000-001 8" Digimatic Caliper, 6KOOIFI...... \$ 219.99

ENCO INSIDE DIAL CALIPER





side 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) di

#100-002-230 Inside Dial Caliper, 9D124K44.......\$140.77 #827-523-180 Starrett Depth Mic., 7B296M59......\$313.99

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:** 2¹/₂" (6.3cm) long x .403" (10.2cm) wide base.Includes three .125" (3.2mm) wide x .0445" (1.1mm) thick rods. Satin, chrome plated.

STARRETT

IGAGING CALIPERS & OTHER — **MEASURING TOOLS**

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



Internal Slot

Caliners

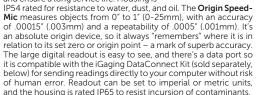
iGaging offers an extensive line of measuring instruments, highly useful on the workbench or the reloading bench, starting with a variety of calipers. All the calipers listed here are accurate to .001", with .0005" repeatability. You can get your readout in decimal inches, mill-meters, or old-style

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 caliber 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. Manufacturered 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, 9Z35/99	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



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

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



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: 5³/₄" (14.6cm) long x 2⁵/₈" (6.7cm) high. Carbide tipped measur-

ing faces. Reads 0-1" (2.5cm), 0-25mm. Accurate to .00005" (.0013mm).

#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.

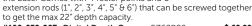
SPECS: 9" (22.9cm) long. 3" (7.6cm) high. 13/8" (3.5cm) diameter dial. 10" (25.4cm) x 4" (10.2cm) x 1" (2.5cm) padded, plastic case.

#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
	#827-559-101	#827-559-100 White Face Caliper, 7B219N59 \$ #827-559-101 Black Face Caliper, 7B221F04

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.....

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



#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 mea-



surements. 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

order on the web brownells.com

BROWNELLS PAGE 453

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

#606-950-252	Inch Feeler Gauge, 8	3K28I64	\$ 34.99
#606-184-313	Metric Feeler Gauge,	6K69Q66	74.99

THREAD PITCH GAUGE

Three Tools Measure Most Standard



and thread 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°

#495-480-028	English Thread Pitch Gauge, 3D11R66 \$	15.99
#592-690-024	Metric Thread Pitch Ga., 2E9M41	14.99
#592-769-000	BSW Thread Pitch Gauge, 2E11K48	16.99



BROWNELLS SCREW CHEK'RTM

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 5/16" 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
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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

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.



90° MIRROR ATTACHMENT FOR SLIM BORESCOPES - Permits di-

rect 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.

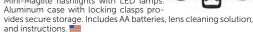


#338-000-004 22" Borescope Kit, 8C1498E38..... \$ 1638.99

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 pro-

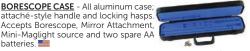
batteries.



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

#338-000-005 7" & 17" 90° Gunsmith Borescope Kit,

BORESCOPE CASE - All aluminum case; attaché-style handle and locking hasps. Accepts Borescope, Mirror Attachment,



GUARANTEED. FOREVER.®

SINCE 1939

#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
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LYMAN **BORECAM PRO**



Lyman's Borecam Pro borescope puts video barrel inspection into the hands of the average shooter, as well as the seasoned professional. The wire-

less 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

DONEGAN OPTICAL OPTIVISOR



Continuous Headband; Dial Adjustable

DIAL ADJUSTABLE CONTINU-OUS HEADBAND - Specially formed to fit. A simple twist of the adjusting dial changes head size. Sealed-in mechanism is self-locking and trou-

ble-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

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

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, 11/2 X at 20" (51.0cm); No. 3, 13/4 X at 14" (35.6cm); No. 5, 21/2 X at 8" (20.3cm); No. 7, 23/4 X at 6" (15.2cm); No. 10, 31/2 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 OptiVI-SOR. Gives up to 6X magnification. Pivots out of way.

SPECS: Screw-on attachment



\$ 16.99

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

· INSPECTION ACCESSORIES

MAGNIFIER - Compact, folding pocket magnifier. Double lens system gives combined 8X. Get a closer look at anything. SPECS: 11/4" (3.2cm) diameter glass.

#345-534-002 Double Lens Magnifier. 5D12K33

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, 31/2" (9cm) focal length.

#255-300-003 3X Loupe, *5E19C11*.....\$ **25.99**

BROWNELLS PAGE 454

Office/Tech: 641-623-5401

MODEL

STONES

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TRIGGER

<u>_</u>

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 remov-

able 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 ½" X ½" 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



STK# HAMMER

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.



FITS

Mainstay Of The

Gunsmith Profession

dense stone with superior

cutting properties make

these medium arit stones

PRICE

7E12H06 \$ 14.99

8K9P68 \$14.99

7E9H88 \$12.99

7E22H09 \$ 25.99

7E18F01 \$ 20.99

7E10J90 \$ 15.99

7E22D30 \$ 25.99

Man made from aluminum oxide. A uniformly

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. 2½ (6.4cm) long, ½/s* (1.7cm) wide. Kit includes plastic storage box.

STK# SEAR

#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 8K6L21	(Hammer Pin,
— Advise # —	Hammer/Sear Block 8K4N79	Sear/Trigger Pin, 5.99
#080-000-098		k Hammer Pin,
#080-000-099		k Sear/Trigger Pin, 5.99
#080-000-106		mall Hammer/ (10J39 12.99
#080-000-107	Colt AR-15 .172" La Trigger, Pin Set, 8k	rge Hammer/ (11H99 15.99
#080-000-116	Hammer/Sear Pin E 8K46D57	Block, only,
#080-000-115	Hammer/Sear Pin B 8K118H76	Block Kit, 149.99

NORTON INDIA STONES

cut faster than hard Arkansas. Especially useful for lapping, honing,

sharpening and polishing in tight places where the special shapes

MF-34 4 x 3/8"

MF-134 4 x 3/8

MF-214 4 x 1/4"

MT-134 4 x 3/8"

MF-724 4 x 1 x 1/8"

MF-723 3 x 5/16"

MS-24 41/2 x 1/4 x 1/16"

MODEL

SIZE

can reach into nooks and crannies.

STOCK #

#657-010-034 Square

#657-020-134 Triangle

#657-030-214 Round

#657-050-724 Knife

#657-060-024 Slip

#657-070-723 Point

#657-040-134 Diamond

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

SHAPE

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



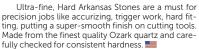
alignment pin holes for seven popular guns, plus an adapter for working on one additional gun model of your choice. Purchase more adapters separately for other guns; many jigs combined in one fixture! To use, mount hammer or trigger/sear on adapter, set and lock at correct index mark as instructed. Set 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. 59/s" (14.1cm) long x 2°/s" (6.5cm) wide x 3" (7.6cm) high. % (19mm) thick base. 57/lb. (2.6 kg). Includes roller guide and one

STK# FIXTURE	STK# ADAPTER FITS		MODEL
COMP	ONLY		
#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 77/22® & M77® Mark II	77/22
#713-070-008	#713-071-008	Ruger Single Actions	ВН
#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
	Series I Fixture	Complete, 3A173J40 Adapter, only,	\$ 179.99 30.00
#713-070-002 #713-071-002 #713-070-900	Colt Govt. Adap	Complete, 3A173H40 oter, only, 3A26Q78 Roller Guide, 3A4A15	30.00

E N

NORTON PREMIUM HARD ARKANSAS STONES

Complete Selection Of Shapes For Every Professional Need



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

STOCK #	SHAPE	MODEL	SIZE	PRI	CE
#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



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

Eliminates the guesswork and gives an accurate, repeatable method to achieve a crisp, cleanbreaking trigger pull on semiautomatic firearms. Individual, easy-to-change **Adapters** attach

STK# FIXTURE STK# ADAPTER

WITH ADAPTER ONLY



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 shooters' 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.

#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 # —		ng Fixture/1 Adapter,	\$ 207.99
— Advise # —	Series II Adapt	er, only, <i>3A37A33</i>	48.99
#713-270-100		ng Fix. w/Univ. Adapter,	.\$ 207.99
#713-271-000	Univ. Hamme	r Adapter, 3A37A33	. 48.99
#080-815-000	Series II India	Stone, 8K18G99	. 20.99
#080-815-001	Series II Hard	Arkansas Stone,	

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	7/7/77	\$ 48.99

TRIANGLE STONE HOLDER - Lets you use a common 4" x 1/2" triangular India stone in the Series II stoning fixture. Completely sup-



ports 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 handheld 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. 1½* (3.2cm) wide, 1* (2.5cm) high. Includes (1) triangular 4* ½* fig. grit India stope.

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

order on the web

brownells.com

BROWNELLS. PAGE 455



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 \$ 29.9	9
#080-721-601	Ground	X-Fine	White	8K23P94 \$ 29.9	9

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



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, $\frac{1}{8}$ " (3.2mm) wide at the back, tapering to $\frac{1}{16}$ " (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 trav 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

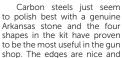
to shatter and breakage and literally last a lifetime. Cleanup consists only of washing with detergent and warm water to restore the original clean, white cutting surface. The cut is rated "smooth" and you can cut Hard Arkansas with these Ceramic files. After a bit of use and a few washings, the cut will become even finer.

SPECS: Smooth cut. Set contains 1 each of the following: Square, 1/4 (6.3mm) x 5" (15.2cm); Triangle, ½" (6.3mm) x 5" (15.2cm); Round, ¼" (6.3mm) diameter x 5" (15.2cm).

Ceramic Stone Set, 4B41P25	59.99
Round Ceramic Stone, 4B12C50	13.30
Triangle Ceramic Stone, 4B12I50	13.30
Square Ceramic Stone, 4B12A50	13.30
	Round Ceramic Stone, 4B12C50

WASHITA MOUNTAIN ARKANSAS STONE SET





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

#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. Celluplastic tubes are easily cut to any length. Polyethylene plug caps provide tight, moisture-proof container. SPECS: 18" (45.7cm) long. Butyrate plastic, resists oils/solvents.

HANDY SHOP ASSORTMENT - Four 7/8" tubes & 40 caps. Six 5/8" tubes and 60 caps. Ten 3/8" tubes & 100 caps. Packed in carton. #080-536-000 Celluplastic Tube Shop Assortment,

PLASTIC TUBES

STOCK #	QTY.	DIAMETER	PRI	CE
#080-536-375	30	3/8" (9.5mm)	8K29A85	\$ 38.99
#080-536-625	17	5/8" (15.9mm)	8K26H09	\$ 33.99
#080-536-875	8	⁷ /s" (22.2mm)	8K15D66	\$ 19.99
#080-536-100	7	1" (2.5cm)	8K18A60	\$ 23.99

CAPS

DIAMETER	STK# CAPS PE	R 100	STK# CAPS PE	R 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	

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 5/16 (8mm) x 1/4" (6.3mm). No. 291 Knife - 4" (10.2cm) x 5/8" (15.9mm) 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

<u>BENCH STONES</u> - 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 1/2"

No 291



(12.7mm) x 8". 🎚						7
#975-006-008	MB8 Med,	5G23K89.	 	 	 \$ 3	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.....

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.....

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: 55/8" (16.9cm) overall length 11/16" (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.

DREMEL CARBIDE CUTTERS

Carbide Lasts Longer, Cuts Faster Than High Speed Steel

STOCK #	MODEL	
#257-990-100	#9901	Contraction of the Contraction o
#257-990-200	#9902	
#257-990-300	#9903	
#257-990-500	#9905	Ø=====
#257-990-600	#9906	
#257-990-900	#9909	
#257-991-000	#9910	
SPECS: 1/8" shanks.	maximum cuttin	g head diameter. 1/8".

DREMEL HIGH SPEED STEEL CUTTERS

- Advise # - Carbide Cutter, 7E13K87 \$ 16.99

The Standard Cutter For Most Applications

STOCK #	MODEL	
#257-100-115	#115	S —
#257-100-194	#194	

SPECS: High speed steel. 1/8" (3.2mm) diameter shank.

- Advise # - H/S Steel Cutter, each, 7E6A79 \$ 9.99

BROWNELLS PAGE 456

GUARANTEED. FOREVER.® **SINCE 1939**

Office/Tech: 641-623-5401

FOREDOM POWER TOOLS

Lightweight, Rotary Tools For Fast, Efficent 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 1/8" (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 5/32".

SPECS: SR Power Tool - 1/6 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 Handniaca

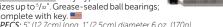
#318-700-005	SR-8D Set,	8A306N00\$	405.99
#318-700-301	SR-30 Set,	8A281E52	373.99

8D HANDPIECE - Grease-sealed ball bearings for heavy duty use. Complete with one collet.

SPECS: 91/2" (24.1cm) long, approx. 3/4" (19mm) dia. 5 oz. (141g)

#318-008-000 #8D Handpiece, 8A91M80......\$ **114.99**

30 HANDPIECE - Key-type chuck for shank sizes up to 5/32". Grease-sealed ball bearings; complete with key.



SPECS: 5" (12.7cm) long, 1" (2.5cm) diameter 6 oz. (170g).

#318-030-00	#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.

SPECS: Plastic housing, 120V, standard duty.

#318-001-002	FCT-1 Foot Control,	8A32I34	\$ 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 fi-



berglass. 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 3/32 and 1/8" shanks.

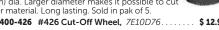
Set contains: (3) each, 1/2" diameter ceramic purple sanding drums 60, 80, 120, and 220 grit; (3) each, 1/4" diameter ceramic purple sanding drums 60, 80, 120, and 220 grit; (3) each, 3/4" diameter ceramic purple sanding disk 60, 80, 120, and 220 grit; (6) V Stone mounted abrasives; (5) CeramCut Blue® Stones; (5) Metal Master polishing wheels and (3) rods, (3) rubber backed mandrels; (1) 11/4" 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. 3/32" and 1/8" shanks, 20,000 RPM max operating speed.

#318-000-002 **88-Pc Accessory Set**, 8A150J65.....\$ 199.99

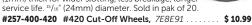
POWER HAND TOOL ACCESSORIES

Make The Most Of Your Hand-Held Tool

FIBERGLASS REINFORCED CUT-OFF WHEEL - 11/4" (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. 15/16" (24mm) diameter. Sold in pak of 20.





PERMA GRIT CARBIDE WHEEL #543 - Cool running carbide wheel for slicing, cutting-off and shaping metal or wood. 11/4" (3.2cm) dia. 1/8" (3.2mm) shank. #257-000-014 #543 Carbide Wheel, 7E25P72



\$ 30.99

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



ILO GIIC.			-
#257-000-002	#502 Wheel,	7E10E43	\$ 12.99
#257-000-004	#503 Wheel,	7E10M43	12.99
#257-000-005	#505 Wheel.	7F9F87	11.99

WIRE BRUSHES - Small, versatile, steel brushes for efficiently removing rust, corrosion and polishing metal surfaces. 1/8" (3.2m) 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 triggerguards, cylinder flutes, ramps, hammers, triggers, etc. Made of best hard felt. Use with Polish-O-Ray®.

STOCK #	DIAMETER	FACE	MANDREL	PRI	CE
#839-500-025	1/4"(6.3mm)	3/8"(9.5mm)	1/8"(3.1mm)	2C7M08	\$ 8.99
#839-500-750	3/4"(19mm)	1"(2.5cm)	1/8"(3.1mm)	2C6G47	\$ 8.99
#839-500-900	1"(2.5cm)	2"(5cm)	1/4"(6.3mm)	2C9A16	\$ 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 = 9/16" (14.3mm); #2 = 1/2" (12.7mm).

STOCK #	MODEL	STOCK #	MODEL
#317-710-001		#317-710-002 2	
		•	

- Advise # — Solid Carbide Burr, 7A22/31..... \$ 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 arit.

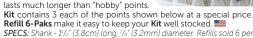
SPECS: 1/8" (3.2mm) shank. 1/4" (6mm) diameter x 1/2" (12.7mm) long cylinder or 1/2" diameter v 1/2" long cylinder

iong (Syllitaci of 72 diarricles x 72 long cyllitaci.	
#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,



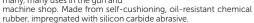
,			
STOCK#	TYPE	STOCK #	TYPE
#080-697-001 #		#080-697-007 #7	
#080-697-003 #.		#080-697-008 #8	· •
#080-697-004 #	4	#080-697-009 #9	· =
#080-697-005 #	5 =	#080-697-010 #1	10
#080-697-006 #		#080-697-011 #1	1

\$ 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



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, 7/8" (22.2mm) long. #8 Bullet Point, 9/3 (7.1mm) diameter, 1" (2.5cm) long. #11 Bullet Point, 3/8" (9.5mm) diameter, 1" long. #15 Bullet Point, 1/2" (12.7mm) diameter, 7/8" long. #74 Straight Edge Wheel, 7/8" (22.2mm) diameter,



1/8" thick. #86 Straight Edge Wheel, 1" diameter, 3/16" (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	PRIC	CE
#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 Bllt	1/16"	9A15P80	\$ 20.99
#190-025-082	Medium	#8 Bllt	1/16"	9A15N30	\$ 20.99
#190-025-083	Fine	#8 Bllt	1/16"	9A21N07	\$ 22.99
#190-025-084	Ex-Fine	#8 Bllt	1/16"	9A16I02	\$ 21.99
#190-025-111	Coarse	#11 Bllt	1/8"	9A29F70	\$ 38.99
#190-025-112	Medium	#11 Bllt	1/8"	9A29L70	\$ 37.99
#190-025-113	Fine	#11 Bllt	1/8"	9A30F15	\$ 40.99
#190-025-114	Ex-Fine	#11 Bllt	1/8"	9A29H50	\$ 42.99
#190-025-152	Medium	#15 Bllt	1/8"	9A33G39	\$ 43.99
#190-025-153	Fine	#15 Bllt	1/8"	9A33I39	\$ 43.99
#190-025-154	Ex-Fine	#15 Bllt	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 M	landrel, 3-p	ak. 9A13	 P29	\$ 18.99
#190-001-006		landrel, 3-p			19.99
#190-001-000		y-Pak , 9A9			12.99

INDIVIDUAL TOOLS ARE AVAILABLE AT BROWNELLS.COM

order on the web

brownells.com

ABRASIVE ROLLS/MANDREL

Little Cylinders & Tapers Get Into Tight Places

CYLINDER ROLLS - Solid-wound cylinders of Aluminum Oxide abrasive cloth. Ideal for shaping and getting into tight places you can't reach with any other polishing/grinding head.



SPECS: 3/8" dia. x 3/4" long. Grits 60; 120; 240; 320 (resin bond). 10 rolls of single grit per bag. Maximum speed: 20,000 rpm.

STOCK #	GRIT	STOCK #	GRIT
#591-801-060	60	#591-801-240	240
#591-801-120	120	#591-801-320	320
— Advise # —	Cylinder Rolls	, 10-pak, <i>1E6C25</i>	\$ 7.99
#591-812-001	Abrasive Roll N	Mandrel only 1F7F	37 \$ 8 99

TAPERED ROLLS - Get into tighter places more easily. Tough, aluminum oxide grit bonded to heavy-duty cloth backing. SPECS: 3/8" (9.5mm) base diameter, taper to 1/4" (6.3mm) diameter at tip. 1" (2.5cm) long. Resin Bond. Packed 10 rolls of single grit per bag. Maximum speed: 18,000 rpm.

STOCK #	GRIT	STOCK #	GRIT
#591-510-060	60	#591-510-240	240
#591-510-120	120	#591-510-320	320

- Advise # - Tapered Sanding Rolls, 10-pak, 1E10A64.. \$ 12.99

BROWNFLLS FELT BOB POLISHING KIT

Eases Polishing Of Odd Shapes & Tough-To-Reach Places

Mounted Bobs have 1/8" (3.1mm) shanks. Kit contains 3 each of the bobs listed below plus a compartmented bench box.



SPECS: The 3 each of our 8 most popular sizes and shapes - for a total of 24 felt bobs.

#080-560-000	Felt Bob Polishing Kit,	8K41K66	\$ 62.99
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FELT BOB REFILL PAKS - Paks of three

MANDREL MOU	INTED BOBS	
#080-560-101	Square, 1"x 1/2", 8K13K95	16.99
#080-560-102	Square, 1/2" x 3/8", 8K8K52	9.99
#080-560-103	Tapered Cone, 1"x 1/2", 8K12K20	14.99
UNMOUNTED B	BOBS only	
#080-560-201	Knife, 1", 8K6D33	7.99
#080-560-202	Knife, 5/8", 8K4F03	4.99
#080-560-211	Square, 1"x 1/4", 8K4L90	5.99
#080-560-212	Square, 1"x ³ / ₈ ", 8K11B03	12.99
#080-560-213	Square, 1"x 1/8", 8K4P17	4.99

JOBBER LENGTH DRILL BIT MAXI SET



This Is It - Never Want For The Right Size Again

The **ultimate** dream set for every gunsmith or serious hobbyist. 115 drills!! Includes FRACTIONAL from $\frac{1}{16}$ " to $\frac{1}{2}$ " by 64ths: **LETTER** from A to Z; and **NUMBER** from 1 to 60. With

this set, you can precisely duplicate any American-sized hole and cover many of the metrics as well. 118° point, bright polished, jobber length, high speed steel drills.

SPECS: 115 pieces in $14^{1}/2^{n} \times 4^{3}/4^{n} \times 2^{1}/2^{n}$ box. $1^{n} = 2.5$ cm.

891-500-000 M	1axi Set,	1H600P46	\$ 730.99
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INDIVIDUAL DRILLS —

U.S. MADE

A heavy-duty drill can make all the difference in the world in your work. The extra engineering and care in manufacture will help you to drill cleaner, more accurate holes, and many more of them at that. All the Drills we carry, Sets, Individuals, Jobber Length and Short Length, are made from High Speed Steel with a 135° selfcentering point. Special point and surface treatments (Maxi-Set not treated) give easier, more wear-resistant drilling of the tough steels encountered in the gun shop. SPECS: High speed steel.

FRACTIONAL DRILLS - JOBBER LENGTH METRIC 1" = 2.5cm

STOCK #	NO.	EQUIV.	PRICE	STOCK #	NO.	EQUIV.	PRICE
#891-201-640	1/64	.0156	\$ 6.99	#891-201-400	1/4	.2500	\$ 6.99
#891-201-320	1/32	.0312	\$ 4.99	#891-217-640	17/64	.2656	\$ 7.99
#891-201-160	1/16	.0625	\$ 3.99	#891-209-320	9/32	.2812	\$ 9.99
#891-205-640	5/64	.0781	\$ 4.99	#891-219-640	19/64	.2969	\$ 9.99
#891-203-320	3/32	.0938	\$ 4.99	#891-205-160	5/16	.3125	\$ 9.99
#891-207-640	7/64	.1094	\$ 3.99	#891-221-640	21/64	.3281	\$ 10.99
#891-201-800	1/8	.1250	\$ 5.99	#891-211-320	11/32	.3438	\$ 10.99
#891-209-640	9/64	.1406	\$ 5.99	#891-223-640	23/64	.3594	\$ 12.99
#891-205-320	5/32	.1562	\$ 4.99	#891-203-800	3/8	.3750	\$ 11.99
#891-211-640	11/64	.1719	\$ 5.99	#891-225-640	25/64	.3906	\$ 16.99
#891-203-160	3/16	.1875	\$ 5.99	#891-227-640	27/64	.4219	\$ 18.99
#891-213-640	13/64	.2031	\$ 5.99	#891-215-320	15/32	.4687	\$ 21.99
#891-207-320	7/32	.2188	\$ 5.99	#891-231-640	31/64	.4844	\$ 19.99

WIRE GAUGE DRILLS - JOBBER LENGTH

STOCK #	NO	EQUIV.	DI	DICE	STOCK #	NO	EQUIV.	DI	DICE
			_	_					_
#891-101-228	1J	.2280	·	4.21	#891-131-120	31J	.1200	÷	2.20
	2J	.2210	÷	3.72	#891-132-116	32J	.1160	_	2.20
#891-103-213	3J	.2130	<u> </u>	4.01	#891-133-138	33J	.1130	·	2.20
#891-104-209		.2090	÷	4.01		34J	.1110	÷	2.20
#891-105-205	5J	.2055	\$	3.89	#891-135-110	35J	.1100	\$	2.20
#891-106-204	6J	.2040	\$	3.75	#891-136-106	36J	.1065	_	2.15
#891-107-201	7J	.2010	\$	3.51	#891-137-104	37J	.1040	\$	2.15
#891-108-199	8J	.1990	\$	3.55	#891-138-101	38J	.1015	\$	2.15
#891-109-196	9J	.1960	\$	3.56	#891-139-099	39J	.0995	\$	2.13
#891-110-193	10J	.1935	\$	3.63	#891-140-098	40J	.0980	\$	2.13
#891-111-191	11J	.1910	\$	3.55	#891-141-096	41J	.0960	\$	2.15
#891-112-189	12J	.1890	\$	3.44	#891-142-093	42J	.0935	\$	2.13
#891-113-185	13J	.1850	\$	3.26	#891-143-089	43J	.0890	\$	2.13
#891-114-182	14J	.1820	\$	3.05	#891-144-086	44J	.0860	\$	2.13
#891-115-180	15J	.1800	\$	3.26	#891-145-082	45J	.0820	\$	2.15
#891-116-177	16J	.1770	\$	3.26	#891-146-081	46J	.0810	\$	2.15
#891-117-173	17J	.1730	\$	3.07	#891-147-078	47J	.0785	\$	2.15
#891-118-169	18J	.1695	\$	2.87	#891-148-076	48J	.0760	\$	2.15
#891-119-166	19J	.1660	\$	2.87	#891-149-073	49J	.0730	\$	2.15
#891-120-161	20J	.1610	\$	2.85	#891-150-070	50J	.0700	\$	2.13
#891-121-159	21J	.1590	\$	2.66	#891-151-067	51J	.0670	\$	2.15
#891-122-157	22J	.1570	\$	2.72	#891-152-063	52J	.0635	\$	2.15
#891-123-154	23J	.1540	\$	2.68	#891-153-059	53J	.0595	\$	2.22
#891-124-152	24J	.1520	\$	2.65	#891-154-055	54J	.0550	\$	2.22
#891-125-149	25J	.1495	\$	2.52	#891-155-052	55J	.0520	\$	2.28
#891-126-147	26J	.1470	\$	2.61	#891-156-046	56J	.0465	\$	2.22
#891-127-144	27J	.1440	\$	2.44	#891-157-043	57J	.0430	\$	2.26
#891-128-140	28J	.1405	\$	2.43	#891-158-042	58J	.0420	\$	2.39
#891-129-136	29J	.1360	\$	2.42	#891-159-041	59J	.0410	\$	2.32
#891-130-128	30J	.1285	\$	2.42	#891-160-040	60J	.0400	\$	2.32
W	IRE	GAUGI	E C	RILL	S - SHORT LE	NGT	Н		

WIRE GAUGE DRILLS - SHORT LENGTH

STOCK #	NO.	EQUIV.	PRICE	STOCK #	NO.	EQUIV.	PRICE
#891-401-228	1S	.2280	\$ 7.99	#891-406-204	6S	.2040	\$ 6.99
#891-402-221	2S	.2210	\$ 7.99	#891-407-201	7S	.2010	\$ 5.99
#891-403-213	3S	.2130	\$ 6.99	#891-408-199	85	.1990	\$ 5.99
\$891-404-209	4S	.2090	\$ 6.99	#891-409-196	9\$.1960	\$ 5.99
#891-405-205	5S	.2055	\$ 7.99	#891-410-193	10S	.1935	\$ 5.99

BARREL LINER DRILLS



Special Deep-Hole Drills For Installing Barrel Liners

For the gunsmith who does not want to make his own drill extension, our Hi-Speed steel drills are designed especially for deep hole drilling for Brownell Barrel Liners. The hole for the liner must be drilled slightly more than halfway from each end, and the ONLY way to ensure proper joining when using a hand drill is to use these piloted drills. Special helix angle eliminates the tendency for the drill to "pull" itself into the material and jam, saving time and headaches. The extra cost for this premium quality drill is far cheaper than ruining a customer's gun with an off-center hole. Given proper care,

SPECS: Hi-Speed steel, 15" (38.1cm) OAL, Handles barrels up to 25" (63.5cm) length maximum. Pilot length: 1" (2.5cm). Pilot diameter: .22 - .216" (5.5mm); .25-20 - .247" (6.8mm); .38-40 - .391" (9.9mm); .44-40 - .419" (10.6mm).

STOCK #	LINER	DRILL SIZE	PRICE
#361-504-000	.22	.315" (8mm)	1F89B43 \$ 108.99
#361-000-001	.25-20	.438" (11.1mm)	1F82E29 \$ 106.99
#361-000-002	.38-40	.593" (15.1mm)	1F97B05 \$ 128.99
#361-000-003	.44-40	.593" (15.1mm)	1F93I94 \$ 127.99

WIRE GAUGE DRILLS - SHORT LENGTH CONTINUED

WINE G	704	LDINIE	LJ J.	IOKI EENGIII			
STOCK #	NO.	EQUIV.	PRICE	STOCK #	NO.	EQUIV.	PRICE
#891-411-191	11S	.1910	\$ 6.99	#891-437-104	37S	.1040	\$ 4.99
#891-412-189	12S	.1890	\$ 6.99	#891-438-101	385	.1015	\$ 5.99
#891-413-185	13S	.1850	\$ 5.99	#891-439-099	395	.0995	\$ 5.99
#891-414-182	14S	.1820	\$ 5.99	#891-440-098	40S	.0980	\$ 4.99
#891-415-180	15S	.1800	\$ 5.99	#891-441-096	41S	.0960	\$ 4.99
#891-416-177	16S	.1770	\$ 6.99	#891-442-093	42S	.0935	\$ 4.99
#891-417-173	17S	.1730	\$ 5.99	#891-443-089	43S	.0890	\$ 5.99
#891-418-169	185	.1695	\$ 5.99	#891-444-086	445	.0860	\$ 5.99
#891-419-166	19S	.1660	\$ 5.99	#891-445-082	45S	.0820	\$ 5.99
#891-420-161	20S	.1610	\$ 4.99	#891-446-081	46S	.0810	\$ 4.99
#891-421-159	21S	.1590	\$ 6.99	#891-447-078	47S	.0785	\$ 5.99
#891-422-157	225	.1570	\$ 5.99	#891-448-076	485	.0760	\$ 4.99
#891-423-154	23S	.1540	\$ 5.99	#891-449-073	498	.0730	\$ 5.99
#891-424-152	245	.1520	\$ 5.99	#891-450-070	50S	.0700	\$ 5.99
#891-425-149	25\$.1495	\$ 5.99	#891-451-067	51S	.0670	\$ 5.99
#891-426-147	26S	.1470	\$ 5.99	#891-452-063	52S	.0635	\$ 5.99
#891-427-144	27S	.1440	\$ 5.99	#891-453-059	53S	.0595	\$ 5.99
#891-428-140	285	.1405	\$ 6.99	#891-454-055	54\$.0550	\$ 5.99
#891-429-136	295	.1360	\$ 5.99	#891-455-052	55S	.0520	\$ 5.99
#891-430-128	30S	.1285	\$ 4.99	#891-456-046	56S	.0465	\$ 4.99
#891-431-120	31S	.1200	\$ 5.99	#891-457-043	57S	.0430	\$ 4.99
#891-432-116	32S	.1160	\$ 5.99	#891-458-042	58\$.0420	\$ 4.99
#891-433-113	33S	.1130	\$ 4.99	#891-459-041	598	.0410	\$ 4.99
#891-434-111	34S	.1110	\$ 4.99	#891-460-040	60S	.0400	\$ 3.99
#891-435-110	35S	.1100	\$ 4.99				
#891-436-106	36S	.1065	\$ 5.99				

LETTER DRILLS - JOBBER LENGTH

STOCK #	NO.	EQUIV.	PRICE	STOCK #	NO	EQUIV.	PRICE
#891-301-234	Α	.234	\$ 8.99	#891-310-277	J	.277	\$ 9.99
#891-302-238	В	.238	\$ 8.99	#891-313-295	М	.295	\$ 12.99
#891-303-242	С	.242	\$ 7.99	#891-314-302	N	.302	\$ 12.99
#891-304-246	D	.246	\$ 7.99	#891-315-316	0	.316	\$ 12.99
#891-305-250	Ε	.25	\$ 8.99	#891-316-323	Р	.323	\$ 12.99
#891-306-257	F	.257	\$ 8.99	#891-317-332	Q	.332	\$ 14.99
#891-307-261	G	.261	\$ 8.99	#891-326-413	Z	.413	\$ 20.99
#891-309-272	П	.272	\$ 9.99				

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

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,

BROWNELLS PILOTED FORSTNER BIT



Drill Holes For Pillar Bedding Without A Jig

Self-piloted bit cuts straight and clean; opens up existing stock screw holes to accept 9/16" diameter bedding pillars. SPECS: Steel, blue. Bit - 5" (12cm) long, 9/16" (14mm) diameter, 1/2" (12mm) dia. shank. Pilot - 11/2" (3.8cm) long, .312" (7.9mm) dia.

#080-909-000 Piloted Forstner Bit. 8K90C41...... \$ 109.99

TIN-COATED DRILL



Stays Sharper Longer For Accurate Drilling

Useful drilling life ranges from 4 to 7 times greater than standard bits. The coating is a super-hard Rc 80 (harder than Tungsten Carbide) and has a lubricating/cooling effect that gives long life (even after resharpening) and 50% smoother, more accurate holes. Save much more than they cost.

SPECS: Jobber length.

STOCK #	SIZE	PRICE
#361-651-045	#45	\$ 10.99
#361-651-043	#43	\$ 8.99
#361-651-042	#42	\$ 9.99
#361-651-036	#36	\$ 12.99
#361-651-033	#33	\$ 10.99
#361-651-031	#31	\$ 8.99

STOCK #	SIZE	PRICE
#361-651-125	1/8"	\$ 9.99
#361-651-029	#29	\$ 9.99
#361-651-028	#28	\$ 9.99
#361-651-187	3/16"	\$ 12.99
#361-651-250	1/4"	\$ 16.99

GUARANTEED. FOREVER.® **SINCE 1939**

BROWNELLSSOLID CARBIDE DRILL

For Hard Receivers

Specially ground, single-flute, solid carbide drills ideally suited for use by the professional gun trade on

hard receivers (as the 03A3 and harder). • Cuts a clean chip in hardest file steel, giving true hole. • Does not "crumble out" the steel thus, no chatter. • Drills "all the way through" hardened steels. • 2" long to give quilt clearance when using with Forster and other scope/sight mounting jigs. • Kept properly cleaned, will not bind or break. • Properly fed, won't work-harden hole surface like spade drill does; decreases tap breakage.

SPECS: Sizes available: No. 38 (5-40), No. 33 (6-40), No. 31 (6-48), No. 29 (8-32), No. 28 (8-40). Speed approximately twice that of high speed steel, feed rate the same or slightly less.

#080-660-033	#33 Solid Carbide Drill,	7A15M36	\$ 20.99
#080-660-031	#31 Solid Carbide Drill,	7A22J11	29.99
#080-660-029	#29 Solid Carbide Drill,	7A18D12	20.99
#080-660-028	#28 Solid Carbide Drill,	7A22L57	28.99

Common sense must be used. **No guarantee against breakage!** Use only to crack the skin on Krags and the like. **DO NOT USE IN SOFTER STEELS.** Use only after other drills have failed or hardness of steel is preknown.

CARBIDE CENTER DRILL

For Drilling On Round Surfaces & Frozen Screw Removal

Ideal for starting holes on round surfaces as the heavy, supporting body makes the bit far less liable to walk. Plus, if drilling is in order to remove a frozen screw, use one to center and "start" the hole. Center it in the screw and cut until hole is deep enough to allow the regular drill bit to start cutting without catching on the screw head slot. Great for drilling broken taps too, for they will cut center holes in even the hardest ones. And, because of the large body mass of the tool relative to the small drill diameter, it is very sturdy and rigid. Will not flex or walk.

SPECS: #1, .125 body/.0468 drill; #2, .187 body/.0781 drill; #3, .250 body/.1093 drill; #4, .312 body/.1250 drill.

#317-402-001	#1 Crbd Center Dril,	7A21Q29	\$ 32.99
#317-402-002 🗞	#2 Crbd Center Drill,	7A33K50	42.99
#317-402-003 🇞	#3 Crbd Center Drill,	7A35P03	50.99
#317-402-004	#4 Crbd Center Drill,	7A47F81	72.99

SHORT, PILOTED BARREL LINER DRILL



Save Money By Adding Your Own Extension

If you can silver solder or braze your own extension onto a Liner Drill, these standard length, deep hole drills can save you money. Piloted to follow the original bore and have all the same high-grade features as our .22 Liner Drill: Deep hole flute geometry and special helix angle to prevent jamming; reinforced web for accurate hole dimensions; nitrided lands for long life.

SPECS: High speed steel. Pilot diameter/overall length; .22 - .215"/9.5", .25-20 - .248"/11", .32-20 - .302"/11.6", .38-40 - .394"/12.4".

STOCK #	FITS CAL.	DRILL DIA.	PRICE	
#361-504-008	.22 RF	8mm	1F44A10 \$ 63.99	
#361-504-437	.25-20	.437"	1F70C58 \$81.99	
#361-504-013	.32-20	13mm	1F68G18 \$ 83.54	
#361-504-436	.38-40	.590"	1F54F74 \$ 76.99	

STEEL HIGH SPEED COUNTERSINK

6 Sizes To Choose From

SPECS: 60° High speed steel

SFLCS. 00 Trigi	i specu steet ===	
#265-149-501	Countersink No. 1, Drill Dia. ³ / ₆₄ ", Body Dia. ¹ / ₈ ", each, <i>5F10J09</i>	\$ 11.99
#265-149-502	Countersink No. 2, Drill Dia. 5/64", Body Dia. 3/16", each, 5F9G40	10.99
#265-149-503	Countersink No. 3, Drill Dia. ⁷ / ₆₄ ", Body Dia. ¹ / ₄ ", each, <i>5F7B08</i>	10.99
#265-149-504	Countersink No. 4, Drill Dia. ¹ /8", Body Dia. ⁵ / ₁₆ ", each, <i>5F11H12</i>	12.99
#265-149-505	Countersink No. 5, Drill Dia. ³ / ₁₆ ", Body Dia. ⁷ / ₁₆ ", each, <i>5F11P68</i>	16.99
#265-149-506	Countersink No. 6, Drill Dia. ⁷ / ₃₂ ", Body Dia. ¹ / ₂ ", each, <i>5F17M47</i>	26.99

BIG GATOR TOOLS V-DRILL GUIDES



Most Popular Gunsmith Taps & Drills

Used To Mount Sights & Scopes

The most common and frequently

used drills and taps in any gun shop -

large or small - are the ones used to

mount sights and scopes. And...there

are literally thousands of these popu-

lar and profitable jobs to be done by

sortment of the tap-hole and clear-

So, Bob B. put together this as-

bottle, and a tough, compact bench box.

12 drills Do-Drill™ Tap Wrench and Bench Box

gunsmiths.

Speed Steel.

going to use most often.

Makes Perfect Drill Alignment Fast and Easy

These precision-ground, hardened drill guides allow you to drill accurately even if you only have a hand drill. Guide ensures the drill bit will be 90 degrees to the part to be drilled, and a V-groove along the bottom places the drill at the exact center on round pieces. Works great on flat surfaces, too. Compact design is small enough to fit in the toolbox or slip into a pocket. Available in standard inch sizes or metric.

#100-009-934	Standard Inch V-Drill Guide, 8C21K12	\$ 24.99
#100-009-935	Metric V-Drill Guide, 8C21N12	24.99

BROWNELLS

DRILL & TAP KIT NO. 2

ance drills, plus the taper, plug and bottom taps needed to do these

jobs right. Then, added a professional type "T"-handled tap wrench,

and a complete cross reference chart showing the proper tap-hole

drill and clearance drill size for each tap included. Plus, a 1 oz. sam-

ple of Do-Drill™ (the world's best drill/tapping oil) in a dropper-top

you break one in a hole (and you might as well accept the fact that

you will!) you can shatter the broken piece still in the hole with a

punch and pick out the pieces. (H.S. taps just peen over, and can

be bloody awful to get out!) Drills are standard, replaceable High

this is one kit you need on your bench - 'cause it's the one you're

SPECS: Sizes: 3-56; 5-44; 6-40; 6-48; 8-40 and 10-32, giving you 18 taps,

#080-564-002 Drill & Tap Kit No. 2, 8K93D12...... \$ 129.99

Whether you're just getting your shop set up, or been at it a while,

This is one heck of a kit, guys. Taps are all carbon steel, so when

O

BROWNELLS DRILL & TAP STARTER KIT

ALDEN CORPORATION

MICROGRABIT® SCREW EXTRACTOR

Fast, Easy, Dependable Removal Of Broken Screws

broken screws. Kit includes four, one-piece combination, drill bit/

SPECS: Steel. Drills screws up to grade 8. Sizes: 1/4" (M6), #10 or #12 (M5),

#386-100-125 #5 Screw Extractor, only, 6H7K67..... 9.99

sturdy, fitted, double-level polyethylene case, and has 8 plug taps, 8 matching screw-adjusting ¹³/₁₆" OD dies, die stock, tap wrench, and

T-handle tap wrench. The case has plenty of room for expansion as

you acquire additional taps and dies specific to the work you do.

SPECS: Taps/Dies - Carbon steel. Sizes: 3-56, 4-40, 5-40, 6-40, 6-48,

#080-655-001 Tap & Die Kit No. 1, 8K150N39......\$ 159.99

#395-311-021 Offset Tap Handle, 5C10A17 11.99

8-36, 8-40, 10-32; plus two tap wrenches, 3/16" die stock, and box.

BROWNELLS

TAP & DIE KIT NO. 1

The taps and dies in this kit were especially chosen for the man who works

on guns. We picked only those that are

practical to use in the gun shop to make

parts or repairs, basing our choices on

professional experience and a detailed

analysis of the charts in The Encyclopedia of Modern Firearms. The Tap &

Die Kit is packed in a good-looking,

Basic Foundation Set For The Gunsmith's Bench

Use your reversible, electric drill to quickly drill and remove

JIII M4 & #8

extractors that fit screws from #5 to 1/4", including metric.

#8 (M4), #5 or #6 (M3). Instructions included.

For Mounting Shotgun Beads & Scope Bases

The drills and taps in these starter kits were specifically chosen for mounting fiber optic sights on shotgun ribs and mounting scope bases on rifles, shotguns, and handpuns. We handpicked high quality taps, and paired them up with the

proper drill bits, then packed them in a durable polyethylene case for easy access and storage in the shop. **Basic** kit features economical, three-flute taps, and includes (1) 3-56 taper tap made from carbon steel, with all remaining taps made from high-speed steel. If broken off in a hole, carbon steel can be "shattered" with a punch for easy removal. **Premium** kit includes the same size drills and taps as the basic kit, but features two-flute taps considered the highest quality available. Made from high-speed steel with precision ground threads built to incredibly tight tolerances for long-lasting cutting. Two-flute taps easily handle large chips, a real help when tapping soft steels by hand. Features tapered, spiral point tap with left-handed helix at the tip for easy chip removal and faster tapping of "through" holes.

SPECS: Drill Bits - Wire gauge carbon steel. Basic - Three flute taps. Highspeed steel taps, with (1) 3-56 carbon steel taper tap. Premium - Two flute taps. H-2 high-speed tool steel. Both Kits include (2) 6-48 plug taps, (1) 6-48 bottom tap, (1) 6-48 taper/spiral tap, (2) 3-56 plug taps, (1) 3-56 bottom tap, (1) 3-56 taper/spiral tap, (2) 31J and (2) 45J wire gauge drills, and polyethylene case.

#080-564-003	Basic Drill & Tap Starter Kit, 8K73M24	\$ 76.99
#080-564-004	Premium Drill & Tap Starter Kit,	102.06

"PERFECT CUT" PREMIUM TAP

Incredibly Smooth Cutting -Greatly Increased Life

Not magic, just perfect! When we first tried these taps (recommended by customer Dan Baldwin), we thought they were extra hard, coated or treated somehow . . . they're that much better than any tap we've ever used before. But, the U.S. company that's been making them since 1912 says the secret is plain old care and quality control. The ground threads are held to incredibly tight tolerances for roundness, thread spacing, etc. Result is, all the teeth cut equally so the whole tapping process goes faster, the taps last longer, breakage is cut way down and the threads are the finest you'll ever see. Try them; you'll tap more holes per tap than you thought possible!

PREMIUM THREE-FLUTE TAPS

Divides the tapping stresses over a "triangular" area, making it easy to start and to keep straight when tapping by hand. Stronger than two-flute taps, so preferable for hard or tough steels.

		_	
STOCK#	SIZE/TYPE	PRIC	CE
#748-002-356	3-56	8D9N22	\$ 13.99
#748-001-648	6-48/Plug	8D14I90	\$ 17.53
#748-002-648	6-48/Bottom	8D14E90	\$ 17.53
#748-101-640	6-40	8D6G26	\$ 7.37
#748-102-640	6-40/Bottom	8D6L26	\$ 9.21
#748-001-840	8-40/Plug	8D20M60	\$ 24.24
#748-002-840	8-40/Bottom	8D15A12	\$ 17.79
#748-101-832	8-32/Plug	8D6M76	\$ 7.96
#748-102-832	8-32/Bottom	8D6H54	\$ 7.70
#748-101-422	¹/4-22/Plug	8D19M35	\$ 22.77

PREMIUM TWO-FLUTE TAPS

Spreads the tapping stress over two large flutes, with more chip space than three-flute taps – a real help when tapping soft steels. A popular machine tap, great when hand turned, too.

STOCK#	SIZE/TYPE	PRIC	CE
#748-202-352	3-56/Plug	8D9B76	\$ 11.49
#748-202-353	3-56/Bottom	8D9J76	\$ 11.49
#748-202-642	6-48/Plug	8D14Q90	\$ 17.53
#748-202-643	6-48/Bottom	8D12N73	\$ 14.98
#748-203-642	6-40/Plug	8D6E26	\$ 7.37
#748-203-643	6-40/Bottom	8D6Q49	\$ 7.63
#748-202-842	8-40/Plug	8D14J90	\$ 17.53
#748-202-843	8-40/Bottom	8D20G58	\$ 24.22

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

QUESTIONS BEFORE YOU BUY?
Call Or Email OurFull-Time Tech Staff

order on the web

brownells.com

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TAPS & DIES



BOTTOMING - CHAMEER:1-1-1/2 THREADS Actual appearance may vary depending on thread pitch and diameter.

High Quality To Help You Do The Best Work

We supply our taps in hardened carbon steel whenever possible. If one should break off in a hole, the remains can be "shattered" with a punch for easy removal.

SPECS: Carbon Steel, except as indicated. Items marked with ** are High-Speed Steel. **Dies** are ¹³/₁₆" O.D. round unless otherwise indicated in chart.

		FRAG	CTIONAL	CARBON T	APS†	
NOMINAL	TAP	CLEARANCE	STK#	STK#	STK#	STK# 13/16"
SIZE	DRILL SIZE	DRILL SIZE	TAPER	PLUG	BOTTOM	O.D. DIE
1/8-40	38	29	#395-184-001 \$ 4.99	NA	NA	NA
1/4-20	7	17/64	#395-142-011 \$ 4.99	#395-142-022 \$ 4.99	#395-142-033 \$ 4.99	#265-000-009 \$ 15.99
1/4-24	4	17/64	#395-142-411 \$ 4.99	NA		#265-000-010 \$ 37.99
1/4-28	3	17/64	#395-142-801 \$ 4.99	#395-142-802 \$ 4.99	#395-142-803 \$ 4.99	#395-142-804 \$ 25.99
5/16-18	F	21/64	#891-516-181 \$ 4.99	NA	NA	NA
13225	21	8	NA	#395-316-362 \$ 4.99	NA	NA
1/4-40	2	17/64	NA	#395-144-002 \$ 4.99	NA	#395-144-004 \$ 24.99
5/16-27	J	21/64	NA	NA	#748-001-517 \$ 35.99	NA
5/16-32	9/32	21/64	NA	NA	#395-516-323 \$ 5.99	NA
9/16-18	33/64	37/64	NA	NA	#395-000-004 \$ 10.99	NA
7/32-40	11	1	NA	NA	NA	#080-598-112 \$ 74.99
1/4-22	5	17/64	NA	NA	NA	#325-142-200 \$ 19.99
1/4-25	3	17/64	NA	NA	NA	#325-142-500 \$ 41.99
1/4-30	7/32	17/64	NA	NA	NA	#325-143-000 \$ 13.99
1/4-32	7/32	17/64	NA	NA	NA	#395-143-204 \$ 10.99
6-32	36	25	NA	NA	#395-632-003 \$ 4.99	NA

WIRE GAUGE CARBON TAPS‡						
NOMINAL SIZE	TAP DRILL SIZE	CLEARANCE DRILL SIZE	STK# TAPER	STK# PLUG	STK# BOTTOM	STK# 13/16" O.D. DIE
0-80	56	51	#395-080-001 \$ 8.99	NA	NA	NA
2-56	50	42	#395-256-001 \$ 7.99	#395-256-002 \$ 7.99	#395-256-003 \$ 9.99	NA
3-48	47	36	#395-348-001 \$ 7.99	#395-348-002 \$ 7.99	#395-348-003 \$ 5.99	NA
3-56	45	36	#395-356-001 \$ 9.99	#395-356-002 \$ 9.99	#395-356-003 \$ 5.99	#395-356-004 \$ 16.99
4-40	43	31	#395-440-001 \$ 6.99	#395-440-002 \$ 6.99	#395-440-003 \$ 4.99	#395-440-004 \$ 16.99
6-32	36	25	#395-632-001 \$ 5.99	#395-632-002 \$ 5.99	NA	#265-000-006 \$ 16.99
6-36	34	25	#395-636-001 \$ 5.99	#395-636-002 \$ 4.99	#395-636-003 \$ 4.99	#265-000-007 \$ 20.99
6-40	33	25	#395-640-001 \$ 6.99	#395-640-002 \$ 6.99	#395-640-003 \$ 4.99	#395-640-004 \$ 17.99

WIRE GAUGE CARBON TAPS‡ CONTINUED

NOMINAL SIZE	TAP DRILL SIZE	CLEARANCE DRILL SIZE	STK# TAPER	STK# PLUG	STK# BOTTOM	STK# 13/16" O.D. DIE
6-48	31	25	#395-648-001 \$ 6.99	#395-648-002 \$ 6.99	NA	#395-648-004 \$ 34.99
8-32	29	16	#395-832-001 \$ 4.99	#395-832-002 \$ 5.99	#395-832-003 \$ 6.99	#265-000-008 \$ 13.99
8-36	29	16	#395-836-001 \$ 6.99	NA	#395-836-003 \$ 5.99	#395-836-004 \$ 16.99
8-40	28	16	#395-840-001 \$ 6.99	#395-840-002 \$ 7.99	#395-840-003 \$ 6.99	#395-840-004 \$ 38.99
10-24	25	13/64	#395-102-401 \$ 4.99	#395-102-402 \$ 4.99	#395-102-403 \$ 4.99	NA
10-32	21	13/64	#395-103-201 \$ 5.99	#395-103-202 \$ 5.99	#395-103-203 \$ 6.99	#395-103-204 \$ 14.99
10-36	20	11	#080-604-106 \$ 22.99	#080-604-116 \$ 25.99	#080-604-126 \$ 25.99	#265-000-002 \$ 20.99
12-24	16	7/32	#395-122-401 \$ 4.99	#395-122-402 \$ 4.99	NA	NA
12-28	14	7/32	#395-122-801 \$ 5.99	#395-122-802 \$ 4.99	#395-122-803 \$ 4.99	#395-122-804 \$ 13.99
1-72	53	47	NA	#395-172-002 \$7.99	NA	NA
4-48	42	31	NA	#395-448-002 \$ 4.99	NA	#265-000-005 \$ 16.99
5-40	38	29	NA	#395-540-002 \$ 6.99	#395-540-003 \$ 5.99	#395-540-004 \$ 15.99
5-44	37	29	NA	#395-544-002 \$ 5.99	#395-544-003 \$ 5.99	NA
12-32	13	7/32	NA	#395-123-202 \$ 4.99	#395-123-203 \$ 4.99	NA

HIGH-SPEED STEEL TAPS

NOMINAL TAR DRILL CLEARANCE

NOMINAL SIZE	TAP DRILL SIZE	DRILL SIZE	STK# TAPER	STK# PLUG	STK# BOTTOM
6-48	31	25	#395-648-101 \$ 11.99	#395-648-102 \$ 11.99	#395-648-103 \$ 11.99
3-56	45	36	NA	#748-001-356 \$ 15.99	#748-002-356 \$ 13.99
6-40	33	25	NA	#748-101-640 \$ 7.37	#748-002-640 \$ 9.99
7/32-40	11	1	#080-598-113 \$ 34.99	#080-598-114 \$ 34.99	#080-598-115 \$ 34.99
8-36	28	16	NA	NA	#080-604-836 \$ 15.99
8-40	28	16	#395-840-101 \$ 12.99	#395-840-102 \$ 12.99	#395-840-103 \$ 12.99
10-32	21	7	NA	NA	#080-604-132 \$ 12.99
3/16-32	26	12	NA	NA	#080-604-332 \$ 19.99
6mm-1	8	В	NA	NA	#080-604-610 \$ 19.99
7/32-40	11	1	NA	#748-001-324 \$ 32.99	NA
1/4-22	5	17/64	NA	#748-001-422 \$ 36.99	#748-002-422 \$ 32.99
1/4-25	3	17/64	NA	#748-001-425 \$ 31.99	NA
1/4-28	3	17/64	NA	#748-001-428 \$ 10.99	#748-002-428 \$ 10.99
1/4-30	7/32	17/64	NA	#748-001-430 \$ 38.99	#748-002-430 \$ 31.99
1/4-32	2	17/64	NA	#748-001-432 \$ 38.99	NA
1/4-40	1	17/64	NA	NA	#748-002-440 \$ 33.99

TWe are no longer able to supply Fractional Carbon Taps in the following sizes: 1/16-64, 3/32-48, 5/32-32, 5/32-36, 3/16-24, 3/16-32, 7/32-24, 7/32-32, 3/8-16, 3/8-24, 7/16-14, 7/16-20. ‡We are no longer able to supply Wire Gauge CarbonTaps in the following sizes: 1-56, 1-64, 3-80 4-32 5-48 10-28 10-30 14-20 14-24

SPIRAL POINT "GUN" TAP



Easier, Faster Tapping Of Through Holes In Aluminum & Steel

Left-handed helix at the tip of the tap makes chips flow forward, and out of the way, for faster, easier tapping of through holes. Creates less heat and less stress.

SPECS: High-speed steel.

#748-250-356	3-56 Gun Tap,	8D10M34	15.99
#748-250-648	6-48 Gun Tap,	8D33L80	39.99
#748-250-840	8-40 Gun Tap,	8D33F50	38.99

THREAD PITCH GAUGE

Three Tools Measure Most Standard World-Wide Threads

Straight gauges in three size ranges and thread styles. All steel. Precision cut

threads for accurate measuring. Sizes permanently stamped into

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
#502-760-000	BSW Thread Ditch Gauge 2F11K/19	16 00

BROWNELLS SCREW CHEK'RTM

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 5/16" 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

T-HANDLE TAP WRENCH

Two Convenient Sizes

SPECS: No. 1E for 0 to 12. No. 164 for 1/16

#395-311-001	T-Handle No. 1E, 8K6L77	\$ 7.99
#345-164-000	T-Handle No. 164, 1/16" to 1/4", 5D12A12	18.99

TAP WRENCHES



Two Sizes Cover From 0 To 1'

SPECS: No. 1, 9¹/₄" long, fits 0 to ¹/₂" taps with square shank measuring up to .332" across the flats. No. 2, 18", fits 1/4" to 1" taps with square shank measuring up to .655" across the flats.

#395-312-088	Tap Wrench No. 1,	5C18A98	\$ 21.99
#395-311-098	Tan Wrench No. 2	5C50.169	58 99

STARRETT TAP WRENCHES



For Accurate Thread Cutting, Reaming & Drilling

Precision-made wrenches help you apply the exact amount of leverage needed to cut straight, true threads for scope bases, finish ream chambers, and drill or deburr holes. Easy-tograsp, knurled collet tightens securely around the tap,

reamer, or drill bit to prevent slipping. Built from forged steel, then hardened for added strength and durability. #174 features a combined one-piece body and handle that produce an extra-long lever for maximum torque when turning. Elliptical jaws hold round- or square-shank tools up to 1/4" diameter. #93 features a removable T-Handle and four-corner jaws for a rock-solid hold on squareshank tools. Centered pilot hole on body allows hand-turning in drill presses, mills, and lathes.

SPECS: Forged steel, polished. #174 - Straight handle, 35/8" (9cm) long Fits #0 to 1/4" round or square shanks. #93 - Body - 21/4" (5.7cm) long. T-handle - 3" (7.6cm) long. Fits 1/4" square shanks.

#827-506-580	#174 Tap Wrench,	7B32B57	\$ 34.99
#827-000-004	#93 Tan Wrench	7R40K39	56 99

DIE STOCK



Four Handy Sizes

SPECS: #12, 7" (17.8cm) long for 15/16" (20.6mm) round dies; #47, 9" (22.9cm) long for 1" (2.5cm) round or hex dies; #48, 121/4" (31.1cm) long for 1¹/₂" (3.8cm) dies; **#49**, 15¹/₂"(39.4cm) long for 2" (5.1cm) dies.

#395-311-316	#12 Die Stock,	5B9J2/	\$ 11.99
#325-100-182	#47 Die Stock,	5B7M53	8.99
#325-100-185	#48 Die Stock,	5B11A63	13.99
#325-100-186	#49 Die Stock,	5B14D05	16.99

TAPRITE TAP GUIDE

No More Cockeyed Ramps Or Mounts; Tap Has To Enter Straight

Efficient, positive jig eliminates the stoop-squint, slant-slope, tilt-tip method of trying to be sure that a tap is square in the hole. Works equally well on flat or round surfaces. On tapered barrels, the milled "V" can be shimmed to ensure true tap entry. Handles all tap sizes from 3/8" to 0-80, except No. 12 and No. 14. Wood block holds bushing assortment and has holes for regularly used taps.

SPECS: Blued steel. Taps and tap wrench NOT included.

GUARANTEED.FOREVER.® *SINCE 1939*

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 Vgroove 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. 45/8" (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, 4-36, 4-40, 4-48, 5-40, 5-44, 6-32, 636, 6-40, 8-32, 8-36, 8-40, 10-24, 10-32, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 5/8-11, 5/8-18. 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, 8C19J68	\$ 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, <i>5L10N16</i> \$ 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 #100-004-430 Pee Dee Thread Wire Set, 1C31H07....



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 highdollar, 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. Easyto-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 niece

SPECS: Steel, surface ground and hardened. 27/8" (7.3cm) OAL, ³/₈" (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, 31/8" (7.9cm) OAL, 1/2" (13mm) diameter shank, 3/16" (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.



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. 17/16" (3.65cm) x 17/16" x 1/2" (12.7mm)

SPECS: Polymer with magnetic base. 4¹/₄" (10.8cm) long, ⁵/₈" (1.6cm) wide, 5" (12.7cm) high. Measures to 1/2 degree.

#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.

4

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

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 - 13/4" (4.5cm) diameter, 21/2" (6.4cm) ong Shanks - approx 4" (10 2cm) long

iong. Shariks ap	prox. + (10.2cm) tong.	
#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 Taner Shank 3A00IXK	25 00

BROWNELLS LATHE CENTERING BAR

surements from 0 to 90 degrees in any quadrant, plus a built-in

magnetic base for hands-free operation on metallic objects. Mea-

sures any angle for pitch or slope and includes an easy-to-read table



STARRETT ANGLE METER

For Precise Measurements

Of Pitch Or Slope

for leveling, setting and verifying the proper

angle on milling decks, drill press vises, sur-

face grinders, and stock duplicators. Features

a large, easy-to-see scale for accurate mea-

for converting rise and run information.

High-impact polymer angle meter is ideal

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 11/4" x 24".

SPECS: Steel. 1" (2.5cm) x 8" (20.3cm) or 11/4" (3.1cm) x 24" (60.9cm).

#080-000-258 Lathe Centering Bar, 11/4" x 24".

BROWNELLS LATHE CENTERING BUTTONS

Assures Correct Head/Tail Stock Alignment



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" (2.8cm). Includes charts.

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

order on the web

brownells.com

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BROWNELLS CROWN SAVERTM **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, chambering, 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-nak 8K17I06 1999	

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.

		DEGREE					
STOCK #	SHAPE	RELIEF	THICKNESS	RADIUS	IC	PRIC	CE
#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



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 around on one end only.

#080-658-250	1/4" Barrel Crowning Bit,	3B27D68 \$ 31.99
#080-658-375	³/8" Barrel Crowning Bit,	<i>3B32J35</i> 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 shanks. Inserts - six T-15 HSS TPMW-1.8-1.5-1, Rc 65-67, finish ground on all surfaces, 11° positive, 218 IC. .093 thick, .100 hole, 130 top opening 60°.015

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

3/8" TURNING RH/LH BORING BAR KIT - Includes two 1/4" 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 har 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, \$ 140.57 8K124Q20.....

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

SPECS: One right-hand and one lefthand 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 5/64" 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 highspeed steel inserts, TNMC-32NV and TPMC-32NV. SPECS: Bar - .500" shank, 6.0" OAL, end pocket



BROWNELLS

Pre-Shaped & Ready To Save

Square Thread Bits cut true 10 tpi, square, barrel threads for '03 Springfields 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), 5/16" (7.9mm), 3/8" (9.5mm) square. 1/4" (6.3mm) and 16" (7.9mm) approximately 2¹/2" (6.4cm) long; ³/8" (9.5mm) approximately 3" (7.6cm) long.

STR# SQ. STR# 55° STR# 60°	
#080-658-025 #080-658-125 #080-658-225	1/4"
#080-658-056 #080-658-156 #080-658-256	5/16"
#080-658-038 #080-658-138 #080-658-238	3/8"
- Advise # - 1/4" Threading Bit, 2B27l25	\$ 32.99
- Advise # - 5/16" Threading Bit, 2B28/05	33.99
— Advise # — 3/8" 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 Allov

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 bolt steels. A must if you don't have a tool-post grinder. SPECS: 21/8" (5.4cm) long. 1/4" (6.3mm) or 5/16" (7.9mm) square.

#080-659-250 1/4" Bolt Facing Bit, 3B25N64 \$ 29.99 #080-659-375 5/16" 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

3/8" CUT-OFF GROOVER RH KIT - Includes one 3/8" square bar, 41/2" long, plus high-speed steel inserts.

SPECS: Bar - .375" shank, 4.5" OAL. Inserts -T-15 HSS. Two ½6" 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 3/8" Cutoff Groover RH Kit. 8K86E11.....\$ 97.50

5/16" CUT-OFF GROOVER KIT - Includes one 5/16" square shank bar, 3" long, plus one T-15 high speed steel .062" x 3" cutoff blade.

SPECS: Bar - 5/16" shank, 3" OAL. Insert - T-15 HSS. .062" x 3". Includes 7/64" wrench.

#080-000-842 5/16" 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

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 5/8" (15.8mm) long cut. 3/8" (9.5mm) dia. x 3/4" 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 guickly and cleanly in even tough, hardened steels.

SPECS: Shank dia. is same as cut dia. Overall lengths from 21/2" (6.35cm) to 3" (7.62mm). 1/4" (6.35mm) dia. x .750" (19mm) long -cut. 5/16" (7.9mm) dia. x .812" (20.6mm) long cut. 3/8" (9.5mm) dia. x .875" (22.2mm) long cut. ⁷/₁₆" (11.1mm) dia. x 1" (25.4mm) long cut. ¹/₂" (12.7mm) dia. x 1" long cut.

#317-111-250	1/4" Carbide End Mill, 7A26M40	\$ 38.99
#317-111-312	5/16" Carbide End Mill, 7A33D29	51.99
#317-111-375	3/8" Carbide End Mill, 7A36M01	53.99
#317-111-437	⁷ / ₁₆ " Carbide End Mill, 7A47G73	60.99
#317-111-500	¹ / ₂ " 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 21/2" (6.35cm) to 3" (7.62cm), ½" (6.35mm) dia. x .750" (19mm) long cut. ½" (7.9mm) dia. x .812" (20.6mm) long cut. 3/8" (9.5mm) dia. x .875" (22.2mm) long cut.

#317-140-250 🗞	1/4" Crbd Ball End Mill,	7A32E78\$	45.99
#317-140-312 🗞	5/16" 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 5/8" cut length or 1/4" (6.35mm) diameter shank with 3/4" cut length. 4-flute.

STOCK #	OVERALL	DIAMETER	PRICE
#317-000-004	1.5" (3.8cm)	¹/s" (3.17mm)	7A14D90 \$ 20.9
#887-205-005	2" (5cm)	3/16" (4.7mm)	7H15J82 \$ 22.9
#887-205-010	2.5" (6.3cm)	1/4" (6.35mm)	7H20H36 \$ 29.9



GUARANTEED.FOREVER.® SINCE 1939

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	PRIC	CE
#317-000-005	.152"	5/32"	7A20D51	\$ 27.99
#317-000-006	.172"	11/64"	7A22Q90	\$ 32.99
#317-000-007	.231"	15/64"	7A27F20	\$ 41.99



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 $^{1}/_{2}$ 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, 5³/₄" (14.6cm) long. 11¹/₂" (29.2cm) overall. 1 oz (28.35 g) to 12 pds. (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 173/4 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 173/4 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., 8G191K20.....\$ 265.99

SAKO EXTRACTOR MILLING CUTTERS ! RECORDING! TRIGGER PULL GAUGE

3 Models Accurate, Positive Measurement Of Trigger Pull This heavy-duty, solid

brass, Recording Trigger Pull Gauge solves the problem of trying to be



quick enough of eye 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 $4^{1/2}$ 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), 81/2" (21.5cm) long, 5" (12.7cm) hook. 25 lb. (11 ka). 14" (35.5cm) hook.

#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 ac-

curate trigger p	ult reading. Osed with trigger scales.	
#084-169-000	14" Hook, 8K7M60	\$ 9.9
#084-169-001	5" Hook, 8K8P56	10.9



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 43/4 LB. TRIGGER **WEIGHT SET**

1/4 lb. Increments For Referees, Gunsmiths

Approved by NRA because of their consistent, never varying readings in 1/4 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 1/4 lb. (4 oz.) to base weight.



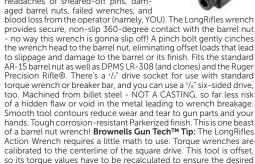
SPECS: 2" (5cm) diameter weights. 5" (12.7cm) long hook. 11¹/₂" (29.2cm) long overall. Blue steel. Optional Long Trigger Wt. Rod: 24" (61cm) lg. 1/4 lb. (113kg) wt. **Set** includes: 2 lb. (907 g) base w/hook; (2), 1 lb. (454 g) weights; (1), 1/2 lb. (227 g) weight; (1), 1/4 lb. (113 g) weight.

#678-434-001 Long Trigger Weight Rod, 8G28N83.... \$ 37.99 #678-434-000 43/4 lb. Trigger Weight Set, 8G83171..... 112.99

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 ARpattern rifle's barrel nut. It eliminates the headaches of sheared-off pins, dam-



Internet tools to help you do this, including this one: www.cncexpo. #100-025-312 LongRifles Barrel Wrench, 7B90E70 \$ 95.99

amount is actually applied to the fastener. There are a number of

POWER CUSTOM REVOLVER FRAME/BARREL WRENCH



com/TorqueAdapter.aspx

Separate Barrels & Frames; A Third Hand For Most Disassembly Jobs

Heavy-duty, 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 Vaguero®, Blackhawk®, and large-frame old-model three-screw single action revolvers. Barrel Blocks - 6061 T6 aluminum. 45/8" (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

SURGEON RIFLES ACTION WRENCH

Prevents Damage When Installing Barrel On Surgeon Or Remington 700 Action



Easy-to-use alternative to oldfashioned 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

#100-003-675 Surgeon Action Wrench, 9B69I99 \$ 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

for a (2) "budget" rifle and having (3) a barrel that's guite 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 113/4" 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 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

order on the web brownells.com

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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, professionalquality, 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 - 12³/₄" (31.1cm) long, 1" (24.5mm) diameter. Interchangeable Head - 4½" (11.4cm) wide, 1½, (3.1cm) thick. Complete Wrench - Includes Base/Handle and the required Head(s) for the model listed; 1/2"-20 2" and 3" long bolts; 3/8" 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.

Complete Ruger Markl/II Wrench, 8K131E60\$1	54.99
	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 expen-

SPECS: Base/Handle Unit - Steel, blue. 123/4" (31cm) long, 1" (2.5cm) diameter handle. Interchangeable Heads - Aluminum, 3/4" (19mm) square, 5½ (14cm) long. Complete Wrench - Includes Base/Handle and heads for one gun model, bolts and instructions. Ruger fits Blackhawk, Super Blackhawk and Vaguero 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, online	ly, 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, 8K	59C82	69.99

1917 ENFIELD/P-14 - Machined cut in head clears projection on receiver ring. Also fits many commercial variations, such as the Reminaton 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

#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, <i>8K33F06</i>	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	9
#080-801-005	Mini-Mauser Head, only 8K33Q87 39.99	9

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, <i>8K30H30</i>	44.99

M14, M1A, M1 GARAND - Supports top, side and bottom of the forward ring of the receiver. Fits most variations of these rifles in-

#080-800-114	Comp. M1A Wrench,	, 8K106P86	\$ 124.99
#080-801-114	M1A Head, only, 8K3	33Q06	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 quard 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** – 1½" (3.8cm) wide, 4¼" (10.8cm) long, 1½" (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
#080-801-110	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,	59.99
#080-801-004	8K51P03	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

#000-000-070										:	\$ 124.9	9
#080-801-070	Winc	hes	ter 70	ЭН	ead,	only	, 8	K331	L51.		39.9	9

1903 SPRINGFIELD - Machined cut in head clears projection on receiver ring. Fits '03 '03A1 '03A3 and M2 22

9	Complete Springfield '03 Wrench,	
	8K107F31	\$ 124.99
#080-801-003	Springfield '03 Head, only, $8K33B69$	39.99

ACTION WRENCH REPLACMENT 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, interchangeablehead block, drilled for bolts, available separately for creating two-

piece riead syst	ems.	
#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. 5¾" (14.6cm) c-t-c 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 ac-

cepts barrels up to 13/4" in diameter. Brownells Steel Bed™ forms superstrength, 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, 31/2" (8.8cm) wide, 21/4" (5.7cm) high, 13/4" (4.4cm) bore. Accepts barrels up to 13/4" 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 Bushing Molding Block, 8K61A26 ... 79.99 #081-040-003 2 2-Gun Steel Bed Kit. 1H44Q99..... 50.99



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GUARANTEED.FOREVER.® SINCE 1939

-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 professionalquality **Barrel Vise** that will positively clamp and keep even the tightest barrel from turning during removal. Machined from solid steel for durability to service the barrel installation and removal needs of any gunsmith for years and years. Our exclusive four bolt system and extra-wide design generates so much holding force, the **Brownells Barrel Vise** must be firmly bolted to the stoutest bench or an immovable base to realize its full potential. Split barrel bushings come in a variety of sizes to fit many popular barrels



(and some not-so-common ones) to make this universal Barrel Vise system the very first choice of professional gunsmiths. Steel Bushings provide years of service and have the necessary clamping power to break loose the tightest barrels. Aluminum Bushings also give a strong hold without risk of marring your barrel.

SPECS: Blocks - Steel, blued. Top Block - 4½* (11.4cm) x 3* (7.6cm) x 1½* (3.8cm). Bottom Block - 7* (17.7cm) x 3* (7.6cm) x 1½* (2.8cm). Includes 4.½*-20 x 2* Allen head bolts. Bottom block is drilled and countersunk for ½* diameter mounting bolts. Bushings - C.R.S. Steel, blue finish or 6160 aluminum, natural finish. All bushings 3* long, 1½* diameter. #4, 7, 8, 9, 10 and 11 are in a range of I.D.* sto closely match the shank diameters of most rifle barrels. #5 fits military Mauser 98 barrels. #6 is tapered to fit Remington factory .30-06 Sporter and other similar profile barrels. #12 6 13 are a special machined set of bushings for standard and heavy M14/M14/M1 Garand barrels. #15 is for the FN FAL barrel. #16 is an aluminum bushing for ½* octagonal barrels. Steel and Aluminum Barrel Vise Sets come complete with the four ½*-20 tpi x 2* Allen head bolts, hex wrench, and bushings #4, #6, #7, #8, #9, #10 and #11. (Bushings #5, 12, 13, 14, 15 and 16 must be purchased separately).

#080-860-107 Steel Barrel Vise Set,	8K302E14	\$ 354.99
#080-860-307 Aluminum Barrel Vise	e 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.

<u>VISE ONLY</u> - Same vise as sold above but by itself; just the top and bottom blocks and the four bolts that hold the halves together. Bushings **NOT** included.

STK# VISE WITH 1 STEEL BUSHING	STK# STEEL BUSHING ONLY	BUSHING NO.	I.D.
#080-860-004 8K101E82 \$ 159.99	#080-861-004 8K32L48 \$ 39.99	#4	1.170"
#080-860-005 8K99C86 \$ 149.99	#080-861-005 8K25M32 \$ 29.99	#5	Mil. Mauser 98
#080-860-006 8K101J82 \$ 154.99	#080-861-006 8K29H46 \$ 34.99	#6	Rem30-06
#080-860-007 8K101J85 \$ 149.99	#080-861-007 8K19F52 \$ 29.99	#7	1.150"
#080-860-008 8K101P82 \$ 149.99	#080-861-008 8K19D48 \$ 29.99	#8	1.175"
#080-860-009 8K99J51 \$ 149.99	#080-861-009 8K25Q38 \$ 29.99	#9	1.200"
#080-860-010 8K100P50 \$154.99	#080-861-010 8K28N80 \$ 34.99	#10	1.225"
#080-860-011 8K100P50 \$ 154.99	#080-861-011 8K28D80 \$ 34.99	#11	1.250"
#080-860-012 8K109H38 \$ 169.99	#080-861-012 8K41H86 \$ 49.99	#12 & 13	M14/Garand
#080-860-013 8K102K11 \$ 154.99	#080-861-013 8K29Q21 \$ 34.99	#14	M1 Carbine
#080-860-014 8K99M51 \$ 149.99	#080-861-014 8K25F38 \$ 29.99	#15	FN FAL
STK# VISE WITH 1 ALLIMINUM RUSHING	STK# ALLIMINUM BUSHING ONLY	BUSHING NO	ID

STK# VISE WITH 1 ALUMINUM BUSHING	STK# ALUMINUM BUSHING ONLY	BUSHING NO.	I.D.
#080-860-204 8K99E51 \$ 154.99	#080-861-204 8K28D63 \$ 34.99	#4	1.170"
#080-860-205 8K99K15 \$ 149.99	#080-861-205 8K25Q43 \$ 29.99	#5	Mil. Mauser 98
#080-860-206 8K100Q50 \$ 149.99	#080-861-206 8K25E67 \$ 29.99	#6	Rem30-06
#080-860-207 8K101J82 \$ 149.99	#080-861-207 8K19H48 \$ 29.99	#7	1.150"
#080-860-208 8K99F51 \$ 149.99	#080-861-208 8K25J38 \$ 29.99	#8	1.175"
#080-860-209 8K101C82 \$ 149.99	#080-861-209 8K19M48 \$ 29.99	#9	1.200"
#080-860-210 8K99B51 \$ 149.99	#080-861-210 8K25L38 \$ 29.99	#10	1.225"
#080-860-211 8K101L82 \$ 149.99	#080-861-211 8K19E48 \$ 29.99	#11	1.250"
#080-860-212 8K154B03 \$ 179.99	#080-861-212 8K48E16 \$ 59.99	#12 & 13	M14/Garand
#080-860-213 8K102F87 \$ 159.99	#080-861-213 8K33D36 \$ 39.99	#14	M1 Carbine

STK# VISE WITH 1 ALUMINUM BUSHING	STK# ALUMINUM BUSHING ONLY	BUSHING NO.	I.D.
#080-860-015 8K100P14 \$ 149.99	#080-861-015 8K25G72 \$ 29.99	#15	FN FAL
#080-860-016 8K117P59 \$184.99	#080-861-016 8K54M57 \$ 64.99	#16	3/4" Octagon Bbl

SOLID BUSHINGS - Solid bushings that have NOT been split so you can alter them as you want.

STK# STEE	L SOLID BUSHING	STK# ALUM. SOLID BUSHING	BUSHING NO.	DIAMETER
NA	-	#080-861-201 8K16D96 \$19.99	No. 1	1/2" (12.7mm)
#080-861-002	8K16N10 \$ 19.99	#080-861-202 8K13F79 \$ 19.99	No. 2	3/4" (19mm)
NA	-	#080-861-203 8K13I79 \$19.99	No. 3	1" (25.4mm)

QUESTIONS BEFORE YOU BUY — Ask Our Full-Time Tech Staff

BROWNELLS STEEL BEDTM STAINLESS STEEL-FILLED EPOXY, RIFLE-BEDDING COMPOUND

WON'T Compress, Crumble Or "Sugar" Under Heaviest Semi-Automatic Or Magnum Recoil Impact





SPECS: Kit Contains; (1) 1½ fl. oz. (44 ml) net contents jar Resin; (1) 1½ fl. oz. (44 ml) net contents jar Hardener; (1) 7½ foz. (26 ml) net contents jar ACRA-RELEASE™ Release Agent; (1) Measuring Spoon, (1) re-useable Poly Mixing Dish, (2) Mixing Sticks (1) Brown Dye Pak, (1) Black Dye Pak and (2) Release Agent Applicators; Instructions.

#081-040-003 **2-Gun Steel Bed Kit**, 1H44Q99......\$ 50.99

CLYMER "MATCH" CHAMBER REAMER



"MATCH".22 LR FINISH REAMER - Made to SAAMI match specs for Bolt Action guns using only true, MATCH ammo. ■
SPECS: M-7 tool steel. Finish reamer only. '/* dia. round shank.
#184-05-015 "Match".22 Reamer, 4H75M11 \$75.11

.22 LR "BENTZ" SEMI-AUTO MATCH REAMER - Ensures reliable chambering of true, MATCH ammo in semi-auto guns. ■

SPECS: M-7 tool steel. Finish reamer only. ¹/-¹ dia. round shank. #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

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. Finish reamers can be used in your lathe or hand-turned; perfect for fitting short chambered barrels. Includes headspace gauge to accurately measure chamber size and ensure a tight, safe chamber. Gauges are etched with "Go" or "No-Go" and caliber/gauge name for easy identification. Made to SAAMI specs.

ŠPEČS: Reamer - M7 high speed steel, in-the-white. Right-hand cutting, six flutes. Solid pilot, integral throat. 7/15" round shank with 3/8" square drive. Headspace Gauge - Steel, in-the-white.

#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. When the bolt "drops", the chamber is cut. New, improved design cuts the shoulder, neck and throat to prevent neck crimping of the ammo. Use as a finish reamer ONLY. Cut chamber with conventional finish reamer first.

SPECS: Complete set includes: Pull Through (P/T) Reamer, Thrust Bushing and Extension Shaft. Shaft - 24" (60cm) long. 1/4" (6.3mm) diameter, round shank. Use #184-054-653 Throater/.22 T-Handle to drive shaft. Reamers work on bolt action or semi-auto rifles.

#184-300-308	.308 P/T Reamer, complete set,
	4H190C43\$ 190.43
#184-300-306	.30-06 P/T Reamer, complete set,
	4H190J44
#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, <i>4H15Q00</i> 15.00
#184-300-311	Extension Shaft, only, 4H30J47 30.47

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. If the new cartridge, in a standard SAAMI-spec factory load, generates greater chamber pressures, we will not make the chambering – period.

We urge anyone planning a conversion where recutting or modification of the original chamber is required, to CAREFULLY check

the SAAMI specs for both ammunition and chamber and make a Cerrosafe⁻ casting of the chamber. Just as you always "look before you leap", you MUST measure, study and know exactly what is going to happen BEFORE you start cutting with the reamer. Our rule of thumb is very simple but it has kept us out of a lot of hot water:

IF IN DOUBT, DON'T! Prevent potential problems by being cautious and conservative.

order on the web

CLYMER CHAMBERING REAMERS

Finest Workmanship & Quality; Made In USA From M-7 High Speed Steel

Made from best quality, M-7 High-5peed 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.

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 qa. reamers.

#184-054-512	12" Rifle Ext., 4H35N32	35.32
#184-054-650	Rifle T-Handle, 4H35J31	35.31
#184-054-653	Throater/.22 T-Handle, 4H35M31	35.31

STK# FINISHER	STK# ROUGHER	FITS	PRICE
	RIMMED RIF	LE CARTRIDGES	
#184-050-007	NA	.17 HM2	4H145G30 \$ 145.3
#184-050-030	NA	.22 Hornet	4H115F27 \$ 115.2
#184-050-040	NA	.22K Hornet	4H115D33 \$ 115.3
#184-050-050	NA	.218 Bee	4H115Q36 \$ 115.3
#184-050-180	NA	.25/20 W.C.F.	4H115l12 \$ 115.1
#184-051-754	NA	7.62 x 54R	4H115H27 \$ 115.2
#184-050-330	NA	.30-30 W.C.F.	4H115I08 \$ 115.0
#184-050-420	NA	.30-40 Krag	4H115M27 \$ 115.2
#184-051-303	NA	.303 British	4H115J34 \$ 115.3
#184-050-332	NA	.32/40 Win.	4H115E30 \$ 115.3
#184-050-490	NA	.45-70 Govt.	4H115K33 \$ 115.3
	BELTED C	ARTRIDGES	
#184-050-260	NA	.264 Win. Mag	4H115N09 \$ 115.0
#184-050-285	NA	7mm STW	4H115A14 \$ 115.1
#184-050-290	NA	7mm Rem.	4H115B33 \$ 115.3
		Mag	
#184-050-380	NA	.300 Win. Mag	4H115J09 \$ 115.0
#184-050-370	NA	.300 H&H Mag	4H115H33 \$ 115.3
#184-050-460	NA	.338 Win. Mag	4H115H12 \$ 115.1
#184-050-470	NA	.375 H&H Mag	4H115H33 \$ 115.3
NA	#184-050-381	.300 Win. Mag	4H115H27 \$ 115.2
	RIMLESS PIST	OL CARTRIDGES	
#184-051-301	NA	.30 Luger Barrel	4H85Q12 \$ 85.1
#184-051-901	NA	9mm Luger Barrel	4H75B33 \$ 75.3
#184-051-400	NA	.40 S&W Barrel	4H75H33 \$ 75.3
#184-051-410	NA	10mm Auto Barrel	4H75B09 \$ 75.0
#184-051-450	NA	.45 ACP Cylinder	4H85H09 \$ 85.0

CTIVII DOLLCUED	FITC	DDIO	
			\$ 75.33
			A 00.00
NA	.32 H&R Mag Cyl.	4H85I13	\$ 85.13
NA	.32 H&R Mag	4H85A29	\$ 85.29
NΔ		4H115F27	\$ 115 27
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NA	.357 Mag	4H85C27	\$ 85.27
NA		41.10ED12	\$ 85.12
NA		41183812	\$ 85.12
NA		1H85H00	\$ 85.09
NA		4 110311U9	y 03.UY
NA		4H85E00	\$ 85.00
	Nonte*		
NA	.44 Magnum	4H85L31	\$ 85.31
	Cyl.		
NA	.44 Magnum	4H85B34	\$ 85.34
	Barrel		
NA	.44/40 Barrel	4H115K30	
NA	.45 Long Colt	4H85I27	\$ 85.27
	Cyl.		
NA	.45 Long Colt	4H85H27	\$ 85.27
BILL 200			
		411445000	445.55
NA	(bolt action	4H1U5D15 :	\$ 105.15
		41.14.05.500	
NA		4H105F29	105.29
NA		41.110.5.007.4	105.07
NA		4H1U5DU9	105.09
NA		1U115U00 6	145.00
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#184-050-101		4H105C33	105.33
101 050-101			
#184-050-131	.22/250	4H105F34	105.34
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201 000-202		111111111111111111111111111111111111111	
NA		4H145G00 \$	145.00
•••			
NA	6.5mm x 55	4H105H27	105.27
		4H105H09	
NA	0.5-U0 A-		
NA	6.5-06 A- Square	4111031103	, 103.03
NA NA	Square .260 Rem.	4H105L27	
	Square		\$ 105.27
	NA N	NA	NA

STK# FINISHER	STK# ROUGHER	FITS	PRICE
#184-050-280	NA NA	7mm Mauser	4H105M09 \$ 105.09
#184-050-280	NA NA	7mm Mauser 7mm-08 Rem.	4H105H27 \$ 105.09
#184-050-300	NA NA	.280 Rem-	4H105Q33 \$ 105.33
#104-030-300	NA.	ington	4111030333 \$ 103.33
#184-050-310	NA	.284 Win-	4H105G33 \$ 105.33
#104-030-310	IVA.	chester	4/1103G33 \$ 103.33
#184-050-275	NA	7.62x39 Rus-	4H105L27 \$ 105.27
#104-030-2/3	NA.	sian	11 11 10 5 LE 7 4 LOS.L.7
#184-050-320	NA	.30 M1	4H105J09 \$ 105.09
	107	Carbine	
#184-050-400	NA	.308 Win-	4H105L33 \$ 105.33
	107	chester	
#184-050-390	NA	.30-06 Spring-	4H105E27 \$ 105.27
	147	field	
#184-050-314	NA	.300 Rem.	4H115Q09 \$ 115.09
		Ultra Mag	7
#184-050-312	NA	.300 Win, Shrt	4H115I33 \$ 115.33
		Mag	
#184-050-440	NA	8mm Mauser	4H105A27 \$ 105.27
#184-050-510	NA	.35 Whelen	4H105K27 \$ 105.27
NA NA	#184-050-401	.308 Win-	4H105P33 \$ 105.33
		chester	
NA NA	#184-050-391		4H105M09 \$ 105.09
		field	,
	.22 RIMFIRE RII	FLE/AUTO PISTO	
#184-050-001	NA	.17 HMR	4H145J27 \$ 145.27
#184-050-008	NA	.22 Short Rifle	4H75H27 \$ 75.27
#184-050-010	NA	.22 Long Rifle	4H75C29 \$ 75.29
#184-050-020	NA	.22 Win. RFM	4H75D27 \$ 75.27
NA	#184-050-011	.22 Long Rifle	4H75l13 \$ 75.13
	.22 RIMFIR	E REVOLVER*	
#184-051-220	NA	.22 Long Rifle	4H75L27 \$ 75.27
#184-051-222	NA	.22 WRFM	4H75K27 \$ 75.27
		Revolver	, .
	THR	OATERS	
#184-053-220	NA	.22 CF(.218	4H65L00 \$ 65.00
		dia. pilot)	
#184-053-600	NA	6mm (.236 dia.	4H65G00 \$ 65.00
		pilot)	
#184-053-650	NA	6.5mm (.255	4H65P00 \$ 65.00
		dia. pilot)	
#184-053-700	NA	7mm (.2755	4H65M00 \$ 65.00
		dia. pilot)	
#184-053-300	NA	.30 (.299 dia.	4H65L00 \$ 65.00
		pilot)	
#184-053-380	NA	9mm/.38 (.345	4H65A00 \$ 65.00

SHOTGUN REAMERS

STK# REAMER W/BUSHING	STK# BUSHING ONLY	BUSHING SIZE	GAUGE	LENGTH
#184-052-725	#184-252-725	.725 (18.4mm)	12	23/4"
#184-052-729	#184-252-729	.729 (18.5mm)	12	23/4"
#184-152-725	#184-252-725	.725 (18.4mm)	12	3"
NA	#184-252-729	.729 (18.5mm)	12	3"
#184-052-614	#184-252-614	.614 (15.6mm)	20	23/4"
NA	#184-252-610	.610 (15.5mm)	20	23/4"
NA	#184-252-610	.610 (15.5mm)	20	3"
NA	#184-252-614	.614 (15.6mm)	20	3"
— Advise # —	Reamer w/1 Bu 4H162M00	shing, 12, 16, 20		\$ 162.00

— Advise # — Chamber Reamer Pilot, 4H12E00 12.00

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. 1/6" (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.

SPECS: Machined aluminum, matte black finish. Steel setscrews. 7" long. 4" O.D., with a 1½" dia. through hole.

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-DRILLTM, 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. \blacksquare

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

NEW! Item

CHAMBERING & THROATING REAMERS

Outstanding Quality Reamers By Dave Manson Help You Produce Accurate Chambers

Engineered and ground by one of the most respected names in firearms reamers, Dave Manson. Superb quality reamers made to SAAMI specifications, ground from M7 steel to cut precise chambers capable of outstanding accuracy. Finish Chambering Reamers feature integral throater and solid, fixed pilots. Throating Reamers let you customize a chambering job for non-standard bullets or additional freebore length. Available as finish reamers unless listed otherwise.

SPECS: M7 high speed steel, in-the-white. Solid pilot, six straight flutes, right-hand cut. Rimfire reamers have ½ (6.5mm) diameter round shank. Centerfire reamers have ¾ (9.5mm) square drive shank. 50 BMG has a ½ round shank. Pistol reamers available with barrel pilot diameter for semiauto and single shot pistols. .38 Super Nonte headspaces on case mouth.

STOCK #	CALIBER	PRICE			
	RIMFIRE CARTRIDGES				
#513-050-014	17 HM2 Finish, Standard	3A80D00	\$ 80.00		
#513-050-017	7 .17 HM2 Finish for Redman Barrel Liners	3A80E00	\$ 80.00		
#513-050-00:	.17 HMR Finish	3A80M00	\$ 80.00		
#513-050-012	2 .17 HMR Finish, Redman w/.166" pilot for Redman Barrel Liners	3A80F00	\$ 80.00		
#513-050-010	.22 Long Rifle Finish (Bbl)	3A50L00	\$ 50.00		
#513-051-220	.22 Long Rifle Finish (Cyl)	3A50M00	\$ 50.00		
#513-050-011	.22 Long Rifle Rougher	3A50N00	\$ 50.00		
#513-050-01!	.22 Long Rifle Match	3A50P00	\$ 50.00		
#513-050-010	.22 Long Rifle Bentz	3A50E00	\$ 50.00		
#513-050-020	.22 Win. RFM Finish	3A50K00	\$ 50.00		
#513-050-02	.22 Win. RFM Rougher	3A50L00	\$ 50.00		
	RIMLESS RIFLE CARTRIDG	ES			
#513-000-08	3 .17 Remington Fireball	3A130C00	\$ 130.00		
	5 .17 Remington	3A130J00	\$ 130.00		
#513-000-06	7 .204 Ruger	3A105C00	\$ 105.00		
#513-000-09	5.45 x 39mm	3A130M00	\$ 130.00		
#513-050-080	.220 Swift	3A105Q00	\$ 105.00		
#513-050-090	221 Fireball	3A105C00	\$ 105 00		

#515-050-0L1	.ZZ WIII. IXI M NOUGIICI	37130200	7 30.00
	RIMLESS RIFLE CARTRIDGE	s	
#513-000-083	.17 Remington Fireball	3A130C00	\$ 130.00
#513-050-005	.17 Remington	3A130J00	\$ 130.00
#513-000-067	.204 Ruger	3A105C00	\$ 105.00
#513-000-096	5.45 x 39mm	3A130M00	\$ 130.00
#513-050-080	.220 Swift	3A105Q00	\$ 105.00
#513-050-090	.221 Fireball	3A105C00	\$ 105.00
#513-050-100	.222 Remington	3A105D00	\$ 105.00
#513-050-120	.223 Remington	3A105K00	\$ 105.00
#513-050-223	.223 Rem. Ackley Imp.	3A105P00	\$ 105.00
#513-050-007	.223 WSSM Finisher	3A105J00	\$ 105.00
#513-050-130	.22/250	3A105L00	\$ 105.00
#513-050-035	.22/250 Ackley Imp.	3A105A00	\$ 105.00
#513-050-150	.243 Winchester	3A105D00	\$ 105.00
#513-050-170	6mm/.244 Remington	3A105M00	\$ 105.00
#513-050-220	.25-06 Remington	3A105B00	\$ 105.00
#513-050-225	.25-06 Rem. Ackley Imp.	3A105B00	
#513-050-200	.257 Roberts	3A105G00	\$ 105.00
#513-050-210	.257 Roberts Ackley Imp.	3A105A00	
#513-050-230	6.5 x 55mm	3A105L00	
#513-050-240	6.5-06	3A105A00	\$ 105.00
#513-050-023		3A130N00	
#513-050-215	.260 Remington	3A105C00	\$ 105.00
	.270 Winchester	3A105D00	
	.270 Win. Short Magnum	3A130N00	
#513-050-280		3A105I00	
	7 x 57mm Ackley Imp.t	3A105E00	
	7mm-08 Rem. Finish	3A105P00	\$ 105.00
#513-050-003	7mm Win. Short Magnum	3A130Q00	\$ 130.00
	RIMLESS RIFLE REAMERS		



STOCK #	CALIBER	PRIC	`F
#513-050-275		3A105Q00	
	.30 M-1 Carbine Finish	3A105P00	
	.30 M-1 Carbine Rougher	3A105J00	
	.308 Winchester Match	3A130L00	
	.308 Winchester	3A105J00	
#513-050-401	.308 Winchester	3A105B00	\$ 105.00
	.30-06 Springfield Finish	3A105G00	\$ 105.00
	.30-06 Springfield Rougher	3A105K00	\$ 105.00
#513-050-395	.30-06 Sprg Ackley Imp.	3A105C00	\$ 105.00
	.300 Remington Ultra Mag	3A105F00	\$ 105.00
	.300 Win. Short Magnum	3A105Q00	\$ 105.00
#513-050-440	8 x 57mm	3A105H00	\$ 105.00
#513-000-084	.338 Federal	3A130B00	\$ 130.00
#513-000-103	.338 Lapua Finish	3A130C00	\$ 130.00
	.338-06 (same as .338-06 A- Square)	3A105B00	\$ 105.00
#513-050-510	.35 Whelen	3A105K00	\$ 105.00
#513-050-355	.35 Whelen Ackley Imp. Finish	3A105H00	\$ 105.00
v 513-000-111	9.3x62mm Finish Reamer	3A00IPK	\$ 130.00
#513-050-512	.50 BMG	3A175K00	\$ 175.00
	BELTED CARTRIDGE		
#513-050-520	.257 Weatherby Mag.	3A135G00	
	7mm Remington Mag.	3A115L00	
	.300 Weatherby Mag.	3A135M00	
	.300 Winchester Mag.	3A115C00	
#513-050-460	.338 Winchester Mag.	3A115F00	\$ 115.00
	RIMMED RIFLE CARTRIDG		
#513-050-030		3A115M00	
#513-050-040		3A115E00	
#513-000-085		3A115Q30	
#513-051-322		3A115B00	
#513-051-754		3A115M00	
#513-050-340		3A115F00	
#513-050-490	.45-70 Government RIMLESS PISTOL CARTRIDO	3A115G00	\$ 115.00
#513-051-901		3A75M00	\$ 75.00
#513-051-901 #513-051-923		3A75I00	
#513-051-925 #513-051-385		3A75J00	7
#513-051-305		3A75D00	\$ 75.00
#513-051-400 #513-051-451		3A75C00	\$ 75.00
	RIMMED PISTOL CARTRIDO		<i>\$ 75.00</i>
#513-051-383	.38 Super Nonte	3A85M00	\$ 85.00
	.3840 WCF (Bbl.)	3A130B00	
	.357 Magnum (Bbl)	3A85B00	\$ 85.00
#513-051-351	<u> </u>	3A85P00	\$ 85.00
133		2. 100, 00	+ 55.50

#513-053-220 .22 CF/.218

#513-053-600 6mm/.2365

#513-053-700 7mm/.2755*

#513-053-450 .45 Rifle/.449

#513-053-441 .45 ACP/.4415"

#513-053-300 .30/.2990"

3A105K00 \$ 105.00

#513-053-250 .25/.2490*

BROWNELLS CERROSAFE® CHAMBER CASTING ALLOY

Never Wears Out -Use Over & Over

There are various products on the market which can be used to make a cast of a gun chamber. To be



certain that the product we are offering you is the best and most practical, we contacted the basic manufacturer. They recommended Cerrosafe because of its unique features. Unlike Woodsmetal which swells upon cooling and cannot be removed from a gun chamber, Cerrosafe shrinks during the first 30 minutes of cooling and then at the end of an hour, is EXACTLY chamber size. At the end of 200 hours it will have expanded approximately .0025". This factor is well known by all toolmakers and they will take it into consideration when making dies or reamers or gauges from your cast - if you will tell them the cast is of Cerrosafe. Cerrosafe melts between 158° - 190° F. It should be melted in a clean, iron ladle. Source of heat should be removed as soon as the alloy is completely melted, at which time it is ready to pour. The solidified casting should be removed from the chamber before, or when, it cools to room temperature. If allowed to remain in the mold over an hour, it will grip the chamber walls and be difficult to remove. Clean the chamber of the rifle thoroughly, then plug the bore immediately ahead of the throat with a small rag - but not so tightly it cannot be driven out. If possible, pour the molten Cerrosafe through a small tube into the bottom of the cast, gradually removing the tube as the chamber fills. If the barrel is cold, warm it to room temperature or above before making the cast. When cooled, remove from chamber, using a rod or dowel from the muzzle end of the gun.

SPECS: Sold by weight. Alloy. Infinitely reusable.

#080-027-100	1 lb. Cerrosafe Alloy,	8K22J58	\$ 29.99
#080-027-050	1/2 lb Cerrosafe Alloy,	8K12M09	14.99

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 Qu

1 Quart (32 c	oz.)	Viper	r's Venom,	
6A22J88					\$ 25.99

DVD

3A50P00 \$ **50.00**

3A50J00 **\$ 50.00**

3A50D00 \$50.00

3A50H00 **\$50.00**

3A50K00 \$ **50.00**

3A50J00 \$ **50.00**

3A50C00 \$ 50.00

VIPER BENCH REST CHAMBERING A REMINGTON ACTION

DVD. 2 disc set. 78 minutes. Viper Bench Rest's own Bob Pastor demonstrates how to chamber a Remington 700 action in this instructional video. Bob also incorporates excellent visual references to help guide you through the entire chambering process.



#100-013-375 Chambering A Remington Action, DVD, 6A19154 \$ 22.99



MANSON PRECISION REAMERS HEADSPACE GAUGES

Determine Correct Headspace Made By Dave Manson

Gives the proper chamber headspace dimensions so you know a firearm is safe to fire. **GO** gauge gives the SAMMI-recom-

STK# GO



CALIBER

mended, minimum chamber depth. **NO/GO** is slightly longer than the SAMMI-recommended to identify excessive chamber depth and an unsafe condition. Precision-ground and hardened to provide long service life.

STK# NO-GO

SPECS: M7 high speed steel, in-the-white, hardened.

SIN# GO	31K# NO-GO	CALIDER
	RIMFIRE CARTRID	GES
#513-100-028	#513-100-029	.17 HM2
#513-100-230	#513-100-231	.22 Win. RFM
#513-100-220	#513-100-221	.22 LR/Match/Bentz
RIM	LESS RIFLE/SHOTGUN	CARTRIDGES
#513-000-081	#513-000-082	.17 Rem. Fireball
#513-000-068	#513-000-069	.204 Ruger
#513-000-097	#513-000-098	5.45 x 39mm
#513-100-240	#513-100-241	.223 Remington
#513-100-250	#513-100-251	.22/250
#513-100-227	NA	.22/250 Ackley Imp
#513-100-260	#513-100-261	.308 Winchester
#513-100-026	#513-100-027	6.8mm Rem. SPC
#513-100-310	#513-100-311	.35 Whelen
#513-100-316	#513-100-317	.300/.270 Win. Short Mag
#513-000-045	#513-000-046	7mm Win. Short Mag.
#513-100-015	#513-100-016	.280 Ackley Imp
#513-100-490	#513-100-491	7.62 x 39 (SAMMI spec)
#513-000-094	#513-000-095	7.62 x 39mm (CIP spec)
#513-100-350	#513-100-351	.30 Carbine
#513-100-314	#513-100-315	.300 Rem. Ultra Mag
#513-100-922	#513-100-923	8 x 57mm
sw 513-000-112	NEW 513-000-113	9.3x62mm
#513-000-043	#513-000-044	.50 BMG (see price below
#513-110-120	#513-110-121	12 Gauge Shotgun

— Advise # —	Rimfire Headspace Gauge, 3A38N25 \$	42.99
Advise # —	Rimless Headspace Gauge, 3A38G58	47.99

- Advise # - .50 BMG Headspace Gauge, 3A00NRQ . . **70.00**

BELTED MAGNUM CARTRIDGES - With the exception of the .240 Weatherby Magnum, most belted, magnum cartridges are based on the .375 H&H Magnum case. Therefore, they all use the same headspace gauges. The following is a partial listing of those cartridges which use the same Belted Magnum Headspace Gauges: .257 Weatherby Mag., 6.5 Rem. Mag., .264 Win. Mag., .270 Weatherby Mag., 7mm Rem. Mag., 7mm Weatherby Mag., 7mm STW, .300 H&H Mag., .300 Weatherby Mag., .300 Win. Mag., .30-.338 Win. Mag., .308 Norma Mag., 8mm Rem., .338 Win. Mag., .340 Weatherby Mag., .350 Rem. Mag., .358 Norma Mag., .375 H&H Mag., .416 Rem. Mag., .458 Win. Mag., .4

#513-000-041	.240 Weatherby Mag. Go Hdspce Gauge,
	3A35N00\$

	3A33NUU	35.00
#513-100-320	Belted Mag. Go Gauge, 3A35Q00	35.00
#513-100-321	Belted Mag. No-Go Gauge, 3A35E00	35.00

K# GO STK# NO GO		CALIBER
RIMMED/RIMLES	LESS PISTOL/RIMME	D RIFLE CARTRIDGES
-500	#513-100-501	7.62 x 54R Russian
-340	#513-100-341	9 mm Luger
-400	#513-100-401	.40 S&W
-450	#513-100-451	.45 ACP
-450	#513-100-451	.45 ACP

- Advise # - Rimless Pistol/Rimmed Rifle Gauge, 3A35M00....\$3

order on the web

brownells.com

#513-050-295 .280 Rem. Ackley Imp.

O

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. Whenever you buy a used gun, always check the headspace before firing. Gauges are etched with "Go," "No-Go," or "Field" and caliber/gauge name for easy identification. Both Forster and Clymer gauges are made to SAAMI specs. A NOTE ON PRICING: Current prices are listed below. Prices may

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. SPECS: Machined steel. Size varies with caliber and gauge style. If you do not see your cartridge listed, we may be able to special order gauges for it. Please call our Order Line. Special orders require full payment in advance and are non-cancelable and non-refundable. NOTE: Gauges Interchangeable between calibers he same Stock #.

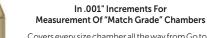
CARTRIDGE	HEADSPACE GAUGE NAME	CLYMER GAUGE GO	CLYMER GAUGE NO-GO	FORSTER GAUGE GO	FORSTER GAUGE NO-GO	FORSTER GAUGE FIELD	CARTRIDGE	HEADSPACE GAUGE NAME	CLYMER GAUGE GO	CLYMER GAUGE NO-GO	FORSTER GAUGE GO	FORSTER GAUGE NO-GO	FORSTI FI
.17 HM2 & .17HS	.22 LR	#184-100-220		NA	NA	NA	.308 Win	.243308	NA	NA	#319-308-630	#319-308-634	#319-
.22 Rimfire, LR,	.22 LR	#184-100-220	#184-100-221	#319-022-043	#319-022-046	#319-022-049	.308 Win	.308	#184-100-260	#184-100-261	#100-010-714	NA	l
Short, Match-Grade	l,						7.62mm NATO	7.62mm NATO	NA	NA	#319-000-007	#100-010-715	#319-
Bentz							.30-06	.30-06	#184-100-310	#184-100-311	#319-306-049	#319-306-055	#319-
.204 Ruger	.204 Ruger	#184-000-033	#184-000-034	NA	NA	NA	.300 H&H	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-
.22 Rimfire Mag	.22 RFM	#184-100-230	#184-100-231	NA	NA	NA	.300 Win Mag	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-
.22 Hornet	Hornet	#184-100-235	#184-100-236	NA	NA	NA	.30-338	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-
.219 Wasp	.30-30	#184-100-300	#184-100-301	#319-418-220	#319-418-221	#319-418-222	.300 Ultra Mag	.300 Ultra	#184-100-306	#184-100-307	NA	NA	
.219 Zipper	.30-30	#184-100-300	#184-100-301	#319-418-220	#319-418-221	#319-418-222	.300 Win Shrt Mag	.300 W.S.M.	#184-100-263	#184-100-264	NA	NA	
.221 Fireball	.221 Rem	#184-100-218	#184-100-219	NA	NA	NA	.300 Weatherby	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-
.22 S HP	.30/30	#184-100-300	#184-100-301	#319-418-220	#319-418-221	#319-418-222	.308 Norma	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-
.222 Rem	.222 Rem	NA	#184-100-241	#319-418-010	#319-418-011	#319-418-012	7.62x39 Russian	7.62x39 Russian	#184-100-490	#184-100-491	NA	NA	
223 Rem./5.56 NATO	.223 Rem.	#184-100-240	NA	#319-223-464	#319-223-467	#319-223-470	7.62x54R Russian	7.62x54R Russian	#184-100-500	#184-100-501	NA	NA	#319-
5.56 NATO	5.56 NATO	#184-000-035	#184-000-036	#100-010-713	NA	NA	.32-20	.25/20	#184-100-360	#184-100-361	NA	NA	
.224 Valkyrie	.224 Valkyrie	#184-000-077	#184-000-078	NA	NA	NA	.32 Win Spl	.30/30	#184-100-300	#184-100-301	#319-418-220	#319-418-221	#319-
.22 Rem BR	Rem BR	#184-100-222	#184-100-223	NA	NA	NA	.32-40	.30/30	#184-100-300	#184-100-301	#319-418-220	#319-418-221	#319-
.22 PPC	PPC	NA	NA	#319-022-050	NA	NA	8mm Mauser	8x57 Mauser	#184-100-310	#184-100-311	#319-418-150	#319-418-151	#319-
.220 Swift	.220 Swift	NA	NA	#319-418-050	#319-418-051	NA	8mm Mag	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-
.22-250	.22-250	#184-100-250	#184-100-251	#319-418-040	#319-418-041	#319-418-042	8mm-06	.30-06	NA	NA	#319-306-049	#319-306-055	#319-
.243 Win	.243 Win	NA	NA	NA	#319-308-630	#319-308-638	.325 WSM	.300 WSM	#184-100-263	#184-100-264	NA NA	NA NA	
.243 Win	.308 Win	#184-100-260	#184-100-261	NA	#319-308-634	NA	.338 Win	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-
.244 Rem	.244 Rem	#184-100-270	NA	#319-418-090	#319-418-091	NA	.338 WSM	.300 WSM	#184-100-263	#184-100-264	NA NA	NA NA	
6mm Rem	6mm Rem	#184-100-270	NA	#319-418-090	#319-418-091	NA	.33 Win	.45/70 Govt	#184-100-330	#184-100-331	NA NA	NA NA	
6mm BR	Rem BR	#184-100-222	#184-100-223	NA	NA	NA	.338-06	.30-06	#184-100-310	#184-100-311	#319-306-049	#319-306-055	#319-
6mm PPC	PPC	NA	NA	#319-022-050	NA	NA	.340 Weatherby	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-
.25-20	.25-20	#184-100-360	#184-100-361	NA	NA	NA	.348 Win	.45-70 Govt	#184-100-330	#184-100-331	NA NA	NA NA	#J2J
.250 Sage	.250 Sage	#184-100-255	#184-100-256	NA	NA	NA	.35 Whelen	.30-06	#184-100-310	#184-100-311	#319-306-049	#319-306-055	#319-
.257 Roberts	.257 Roberts	#184-100-280	#184-000-281	#319-418-080	#319-418-081	#319-418-082	.350 Rem Mag	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-
.25-06	.30-06	#184-100-310	#184-100-311	#319-306-049	#319-306-055	#319-306-058	.308 Win/7.62 NATO		#184-100-260	#184-100-261	NA NA	NA NA	#J2J
.257 Weatherby	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-418-252	.358 Win	.308	NA NA	NA NA	NA NA	NA NA	
.264 Win	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-418-252	.358 Norma	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-
6.5 Creedmoor	6.5 Creedmoor	#184-000-079	#184-000-080	NA	NA NA	NA	.375 H&H	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-
6.5 Rem Mag	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-418-252	.375 Win	.30/30	#184-100-300	#184-100-301	#319-418-220	#319-418-221	#319-
6.5mm-06	.30-06	#184-100-310	#184-100-311	#319-306-049	#319-306-055	#319-306-058	.38-55	.30/30	#184-100-300	#184-100-301	#319-418-220	#319-418-221	#319-
6.5 x 55	6.5 x 55	#184-100-290	#184-100-291	#319-418-160	#319-418-161	#319-418-162	.40-65	.45-70 Govt	#184-100-330	#184-100-331	NA NA	NA NA	#J2J
.270 Win	.30-06	#184-100-310	#184-100-311	#319-306-049	#319-306-055	#319-306-058	.416 Rem Mag	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-
.270 WSM	.300 WSM	#184-100-263	#184-100-264	NA NA	NA NA	NA NA	.45/70	.45/70	#184-100-330	#184-100-331	NA NA	NA NA	#J2J
.270 Weatherby	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-418-252	.458 Win	Magnum	#184-100-320	#184-100-331	#319-418-250	#319-418-251	#319-
.275 H&H	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-418-252	.32-20	.32-20	#184-100-360	#184-100-361	NA	#313-416-231 NA	#313-
7 x 57	7 x 57	#184-100-280	#184-100-281	#319-418-080	#319-418-081	#319-418-082	9mm Luger	9mm Luger	#184-100-340	#184-100-341	NA NA	NA NA	
7mm Rem Mag	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-418-252	.38 Super (Nonte)	.38 Super (Nonte)	#184-100-340	#184-100-391	NA NA	NA NA	
7mm Weatherby	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-418-252	.38 Spec/.357	.357 Mag	#184-100-390	#184-100-391	NA NA	NA NA	
7mm BR	Rem BR	#184-100-222	#184-100-223	NA NA	NA NA	NA NA	.357 Max	.357 Mag	#184-100-380	#184-100-381	NA NA	NA NA	
7 x 61 S&H	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-418-252	.337 Max .40 S&W	.337 Mag .40 S&W	#184-100-300	#184-100-381	NA NA	NA NA	
7 x 01 3011 7mm Exp	.280 Rem	NA	NA	#319-418-100	#319-418-101	NA							
7mm-08	.308/.243	NA NA	NA NA	#319-308-630	#319-308-634	#319-308-638	.44 Mag/.44 Spc	.44 Mag	#184-100-430	#184-100-431	NA NA	NA NA	
		NA NA	NA NA	#319-418-100	#319-418-101	#319-418-102	.45 ACP	.45 ACP	#184-100-450	#184-100-451	NA NA	NA NA	
.280 Rem .284 Win	.280 Rem	#184-100-287	NA NA			#319-416-102 NA	.45 Colt	.45 Colt	#184-100-510	#184-100-511	NA	NA	
	.284 Win			#319-418-110	#319-418-111	#319-418-122	CARTRIDGE	HEVDODY	CE GAUGE NAM	IF ST	K# CLYMER GAU	GE STV# (CLYMER
.30M1 *	.30 Carb	#184-100-350	#184-100-351	#319-418-120	#319-418-121		CARTRIDGE	HEADSPA	SE GAUGE NAM	31	GO	GL SIN# (NO-GO
300 AAC Blackout	300 AAC Blackou		#100-011-311	NA WAR	NA WAR	NA NA	.410 Shotgun		110		NA NA	#1	84-110-
30-30	.30/30	#184-100-300	#184-100-301	#319-418-220	#319-418-221	#319-418-222	20 Gauge		0 Gauge		#184-110-200		84-110-
300 Savge	.300 Savge	NA	#184-100-266	NA NA	NA	NA	12 Gauge		2 Gauge		#184-110-120		84-110
30-40 Krag	.30-40 Krag	#184-100-302	#184-100-303	#319-418-230	#319-418-231	#319-418-232				411451:00			
.303 British	.303 British	#184-100-302	#184-100-303	#319-418-240	#319-418-241	#319-418-242	Advise # —	 Shotshell He 	eadspace Gau	ge, 4H45H00			!

308 Win 308	CARTRIDGE	HEADSPACE GAUGE NAME	CLYMER GAUGE GO	CLYMER GAUGE NO-GO	FORSTER GAUGE GO	FORSTER GAUGE NO-GO	FORSTER GAUGE FIELD
7.62mm NATO 7.62mm NATO NA NA #319-000-007 #100-010-715 #319-000-006 30-06 30-06 #184-100-310 #184-100-320 #184-100-321 #319-181-250 #319-306-055 #3	.308 Win	.243308	NA	NA	#319-308-630	#319-308-634	#319-308-638
30-06 30-06	.308 Win	.308	#184-100-260	#184-100-261	#100-010-714	NA	NA
300 H6H Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-252 300 Win Mag Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-253 300 Win Mag Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-253 300 Ultra Mag 300 Ultra #184-100-306 #184-100-307 NA	7.62mm NATO	7.62mm NATO	NA	NA	#319-000-007	#100-010-715	#319-000-006
300 Win Mag 300 Win Mag 300 Win Mag 300 Win Mag 300 Win Shrt Mag 300 Win Mag 300 W	.30-06	.30-06	#184-100-310	#184-100-311	#319-306-049	#319-306-055	#319-306-058
30-338	.300 H&H	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-418-252
300 Ultra Mag 300 UNS M. #184-100-305 #184-100-261 NA NA NA 300 Wish Shrt Mag 300 WS M. #184-100-262 #184-100-221 #319-418-250 #319-418-251 #319-418-252 308 Norma Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-252 308 Norma Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-252 308 Norma Magnum #184-100-300 #184-100-511 NA NA NA 326/25/45R Russian 76,25/45R Russian #184-100-300 #184-100-511 NA NA NA 326/Win Spl 30/30 #184-100-300 #184-100-301 #319-418-220 #319-418-221 #319-418-222 32-40 30/30 #184-100-300 #184-100-301 #319-418-220 #319-418-221 #319-418-222 32-40 30/30 #184-100-300 #184-100-301 #319-418-220 #319-418-221 #319-418-222 32-40 30/30 #184-100-300 #184-100-311 #319-418-220 #319-418-221 #319-418-222 32-40 30/30 #184-100-300 #184-100-311 #319-418-220 #319-418-221 #319-418-222 32-40 30/30 #184-100-300 #184-100-311 #319-418-220 #319-418-221 #319-418-222 32-40 30/30 #184-100-300 #184-100-311 #319-418-220 #319-418-251 #319-418-252 32-40 30/30 #184-100-300 #184-100-311 #319-418-250 #319-418-251 #319-418-252 32-40 30/30 #184-100-300 #184-100-311 #319-418-250 #319-418-251 #319-418-252 32-50 30-06 NA NA NA NA 338 WIN Magnum #184-100-263 #184-100-264 NA NA NA 338 WIN Magnum #184-100-263 #184-100-311 #319-418-250 #319-418-251 #319-418-252 338 WSM 300 WSM #184-100-263 #184-100-311 #319-418-250 #319-418-251 #319-418-253 338 WIN Magnum #184-100-300 #184-100-311 #319-306-049 #319-306-055 #319-306-058 340 Weatherby Magnum #184-100-300 #184-100-311 #319-306-049 #319-306-055 #319-306-058 350 Rem Mag Magnum #184-100-300 #184-100-311 #319-306-049 #319-306-055 #319-306-058 350 Rem Mag Magnum #184-100-300 #184-100-311 #319-418-250 #319-418-251 #319-418-252 338 WIN AN NA NA NA NA NA 358 Norma Magnum #184-100-300 #184-100-311 #319-306-049 #319-306-055 #319-306-058 350 Rem Mag Magnum #184-100-300 #184-100-311 #319-418-250 #319-418-251 #319-418-252 375 HöH Magnum #184-100-300 #184-100-311 #319-418-250 #319-418-251 #319-418-252 375 HöH Magnum #184-100-300 #184-100-311 #319-418-250 #319-418-25	.300 Win Mag	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-418-252
300 Win Shrt Mag	.30-338	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-418-252
300 Weatherby Magnum	.300 Ultra Mag	.300 Ultra	#184-100-306	#184-100-307	NA	NA	NA
Magnum	.300 Win Shrt Mag	.300 W.S.M.	#184-100-263	#184-100-264	NA	NA	NA
762x39 Russian 7.62x39 Russian 7.62x39 Russian 4184-100-490 #184-100-491 NA NA MA 7.62x54R Russian 7.62x54R Russian #184-100-500 #184-100-361 NA NA MA NA NA NA 32.00 25/20 #184-100-300 #184-100-301	.300 Weatherby	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-418-252
7.62x54R Russian 7.62x54R Russian #184-100-500 #184-100-501 NA	.308 Norma	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-418-252
32-20	7.62x39 Russian	7.62x39 Russian	#184-100-490	#184-100-491	NA	NA	NA
32 Win Spl	7.62x54R Russian	7.62x54R Russian	#184-100-500	#184-100-501	NA	NA	#319-000-004
32-40	.32-20	.25/20	#184-100-360	#184-100-361	NA	NA	NA
### ### ### ### ### ### ### ### ### ##	.32 Win Spl		#184-100-300	#184-100-301	#319-418-220	#319-418-221	#319-418-222
### Mag	.32-40	.30/30	#184-100-300	#184-100-301	#319-418-220	#319-418-221	#319-418-222
### 319-306-058 ### 319-306-05	8mm Mauser	8x57 Mauser	#184-100-310	#184-100-311	#319-418-150	#319-418-151	#319-418-152
325 WSM	8mm Mag	Magnum	#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-418-252
338 Win Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-252 338 WSM .300 WSM #184-100-263 #184-100-331 NA	8mm-06	.30-06	NA	NA	#319-306-049	#319-306-055	#319-306-058
338 Win Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-252 338 WSM .300 WSM #184-100-263 #184-100-331 NA	.325 WSM	.300 WSM	#184-100-263	#184-100-264	NA	NA	NA
338 WSM	.338 Win		#184-100-320	#184-100-321	#319-418-250	#319-418-251	#319-418-252
338-06	.338 WSM				NA	NA	NA
338-06	.33 Win	.45/70 Govt	#184-100-330	#184-100-331	NA	NA	NA
340 Weatherby Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-252 348 Win	.338-06				#319-306-049	#319-306-055	#319-306-058
348 Win	.340 Weatherby	Magnum		#184-100-321	#319-418-250	#319-418-251	#319-418-252
350 Rem Mag Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-252 308 Win/7.62 NATO .308 Win #184-100-260 #184-100-261 NA	.348 Win						
350 Rem Mag Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-252 308 Win/7.62 NATO .308 Win #184-100-260 #184-100-261 NA	.35 Whelen	.30-06	#184-100-310	#184-100-311	#319-306-049	#319-306-055	#319-306-058
308 Win/7.62 NATO .308 Win #184-100-260 #184-100-261 NA							
NA							
358 Norma Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-252 375 H6H Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-252 375 Win 30/30 #184-100-300 #184-100-301 #319-418-220 #319-418-221 #319-418-222 38-55 30/30 #184-100-300 #184-100-301 #319-418-220 #319-418-221 #319-418-222 40-65 45-70 Govt #184-100-330 #184-100-331 NA							
375 H6H Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-252 375 Win 30/30 #184-100-300 #184-100-301 #319-418-220 #319-418-221 #319-418-222 38-55 30/30 #184-100-330 #184-100-331 NA							
375 Win 30/30 #184-100-300 #184-100-301 #319-418-220 #319-418-221 #319-418-222 38-55 30/30 #184-100-300 #184-100-301 #319-418-220 #319-418-221 #319-418-222 40-65 45-70 Govt #184-100-330 #184-100-331 NA NA NA NA NA H16 Rem Mag Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-252 45/70 #184-100-330 #184-100-321 #319-418-250 #319-418-251 #319-418-252 45/70 #184-100-330 #184-100-321 #319-418-250 #319-418-251 #319-418-252 32-20 32-20 #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-252 32-20 32-20 #184-100-360 #184-100-361 NA							
38-55 .30/30 #184-100-300 #184-100-301 #319-418-220 #319-418-221 #319-418-222 #0-65 .45-70 Govt #184-100-330 #184-100-331 NA NA NA NA NA H16 Rem Mag Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-252 #5/70 .45/70 #184-100-330 #184-100-321 #319-418-250 #319-418-251 #319-418-252 #5/80 NA					,		
40-65							
416 Rem Mag Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-252 45/70							
45/70							
458 Win Magnum #184-100-320 #184-100-321 #319-418-250 #319-418-251 #319-418-252 32-20 32-20 #184-100-360 #184-100-361 NA							
32-20							
9mm Luger 9mm Luger #184-100-340 #184-100-341 NA NA NA 38 Super (Nonte) .38 Super (Nonte) #184-100-390 #184-100-391 NA NA NA 38 Spec/.357 .357 Mag #184-100-380 #184-100-381 NA NA NA 357 Max .357 Mag #184-100-380 #184-100-381 NA NA NA VA S5W .40 S6W #184-100-400 #184-100-401 NA NA NA 44 Mag/.44 Spc .44 Mag #184-100-430 #184-100-431 NA NA NA 45 CCP .45 ACP #184-100-450 #184-100-451 NA NA NA 45 Colt .45 Colt #184-100-510 #184-100-511 NA NA NA CARTRIDGE HEADSPACE GAUGE NAME STK# CLYMER GAUGE GO STK# CLYMER GAUGE NO-GO STK# CLYMER GAUGE NO-GO							
38 Super (Nonte) .38 Super (Nonte) #184-100-390 #184-100-391 NA							
38 Spec/.357							
357 Max .357 Mag #184-100-380 #184-100-381 NA NA NA 40 S6W .40 S6W #184-100-400 #184-100-401 NA NA NA 44 Mag/.44 Spc .44 Mag #184-100-430 #184-100-431 NA NA NA 45 CCP .45 ACP #184-100-450 #184-100-451 NA NA NA 45 Colt .45 Colt #184-100-510 #184-100-511 NA NA NA CARTRIDGE HEADSPACE GAUGE NAME STK# CLYMER GAUGE GO STK# CLYMER GAUGE NO-GO							
40 S6W .40 S6W #184-100-400 #184-100-401 NA NA NA NA 44 Mag/.44 Spc .44 Mag #184-100-430 #184-100-431 NA NA NA NA 45 ACP .45 ACP #184-100-451 NA NA NA NA 45 Colt .45 Colt #184-100-510 #184-100-511 NA NA NA NA NA CARTRIDGE HEADSPACE GAUGE NAME STK# CLYMER GAUGE GO NO-GO					-		
44 Mag/.44 Spc							
45 ACP 45 ACP #184-100-450 #184-100-451 NA NA NA 45 Colt 45 Colt #184-100-510 #184-100-511 NA NA NA CARTRIDGE HEADSPACE GAUGE NAME STK# CLYMER GAUGE GO NO-GO							
45 Colt							
CARTRIDGE HEADSPACE GAUGE NAME STK# CLYMER GAUGE STK# CLYMER GAUGI GO NO-GO							
GO NO-GO	.TJ CUIL	.TJ CUIL	#104-100-310	#104-100-311	IAW	MM	IVA
	CARTRIDGE	HEADSPAC	CE GAUGE NAM	ME ST			
	.410 Shotgun		110				

#184-110-201

#184-110-121

BROWNELLS/FORSTER MATCH RIFLE HEADSPACE GAUGES



Covers every size chamber all the way from Go to Field. Perfect for match shooters, armorers, 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. NOTE: Some .308/7.62 gauges will be marked ".243".

STOCK #	CALIBER	SIZE	TYPE
#319-223-464	.223 Rem/5.56 NATO	1.4636"	GO
#319-223-467	.223 Rem/5.56 NATO	1.4666"	NO-GO
#319-223-470	.223 Rem/5.56 NATO	1.4696"	FIELD
#319-308-630	.243 Winchester	1.630"	GO
#319-308-631	.308 Win/7.62 NATO	1.631"	Match
#319-308-632	.308 Win/7.62 NATO	1.632"	Match
#319-308-634	.243 Winchester	1.634"	NO-GO
#319-308-638	.243 Winchester	1.638"	FIELD

— Advise # —	Forster Headspace Gauge, 9.	A27A86 \$ 31.99
— Advise # —	Match Gauge, 9A25A71	30.99
#079-308-000	.308 Match Gauge Kit, 9A23	37H51 \$ 259.99



CLYMER GO/NO-GO GAUGE SETS

Headspace Gauge Sets For Rifles, Handguns & Shotauns



Convenient kits contain "Go" and "No-Go" gauges for accurately checking chamber length to make sure it meets SAAMI or CIP specs. These gauges are essential tools for ensuring a tight, accurate, safe chamber when chambering a new barrel. Always have a set on hand to check for correct headspace before buying or firing a new gun. Comes in a handy, durable plastic carrying case.

SPECS: Steel, precision machined to SAAMI or CIP (7.62 x 54R) specs. Each set contains one go gauge and one no-go gauge in a single caliber as listed



below.	Įms	2 LR
#184-000-051	.22 LR Headspace Gauge Kit, 4H60F00	\$ 60.00
#184-000-037	.223 Rem. Headspace Gauge Kit, 4H66D00	66.00
NEW 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		90.00

GUARANTEED.FOREVER.® SINCE 1939

CLYMER FIELD HEADSPACE GAUGES

Measures The Largest Safe **Dimensions**

Field gauges are essential tools for ensuring a safe chamber on used rifles. Slightly longer then 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

	.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 Headspace 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.



#080-586-500	1/2" 79° Crown Cutter	, 7A35M72 \$ 52.99
#080-586-750	3/4" 79° Crown Cutte	, 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 45° TWELVE-FLUTE

MUZZLE CHAMFER CUTTER

that can destroy fine accuracy. Twelve flutes cut smooth and chat-

ter-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, 3¹/₄" (8.2cm) long. Handle - aluminum 3¹/₂"

(8.8cm) long 1/4"-20 threads. Pilot - brass, 11/4" (3cm) long. One Caliber

#080-943-023

#080-943-243

#080-943-007

#080-943-308

- Advise # - One Cal. Muzzle Chamfer Set, 8K82P05 . . \$ 95.99 - Advise # - Brass Muzzle Pilot, only, 8K20K04..... 26.99

¹/₄"-20 thread, 8K12C63.....

#080-588-625 5/8" Diameter, 45° Chamfer Cutter, only,

#080-589-000 Facing & Chamfering Tool Handle, only,

STK# ONE CAL. SET STK# BRASS PILOT ONLY

Set includes cutter, pilot and handle.

#080-930-223

#080-930-243

#080-930-284

#080-930-308

Smooth, Chatter-Free Cutter &

Interchangeable Brass Pilots

A ready-to-use combina-

FITS

.22 Centerfire Muzzle

6mm/.243 Muzzle

7mm Muzzle

.30 Muzzle

tion of twelve-flute cutter and

brass pilot for touching up mi-

nor rifle muzzle imperfections

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

Safe Muzzle Touch-Up For Rifled Slug Barrels

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

Muzzle Facing Cutter.

#080-589-000

Facing & Chamfering Tool Handle, only, 1/4"-20 thread, 8K12C63.....

BROWNELLS 45° BRASS MUZZLE LAP

Polish Chamfers; Lap Edges; Improve Accuracy

fer 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.

MUZZLE FACING PILOTS

Polished brass pilots turned to uniform concentricity make it easy

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. 3/16" shank fits Brownells

#080-943-207	12 Ga, .718 " Rfld a Plt, 7A18P23	\$ 24.99
#080-943-209 🍅	20 Ga, .609" Rfld Bbl Plt, 7A27Q11	27.11
	1" Diameter, 90° Muzzle Facing Cutter, only, 8K59N55	74.99

Use to polish after using 45° Cham-SPECS: 1¹/₄" (3cm) lg. ⁵/₈" (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	.17-6.5mm	5/32" (3.96mm)	8K11P75	\$ 13.99
#080-764-350	.27035	3/16" (4.76mm)	8K11N32	\$ 13.99
#080-764-410	.38/.35741	1/4" (6.35mm)	8K11D31	\$ 13.99
#080-764-500	.44-50	5/16" (7.93mm)	8K13F91	\$ 16.99

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	PRIC	PRICE	
	R	IMFIRE 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	
	CENTE	RFIRE RIFLE DUMA	1IES .		
#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	

#669-270-005	5	.270	/F11D/1	\$ 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		
€W080-001-390	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		
CENTERFIRE HANDGUN DUMMIES						
#367-000-015	5	.32 H&R Mag	7F7F65	\$ 10.99		
#367-918-010	10	9mm Makarov	7F13L22	\$ 19.99		

CALIBER

STOCK #

PFR

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.	7F71H51	\$ 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 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

order on the web

brownells.com

- BROWNELLS RIFLE/HANDGUN MUZZLE & CYLINDER FACING & CHAMFERING TOOLS

Hardened Steel Cutters With Interchangeable Pilots Face-Off, Square-Up And Chamfer Rifle & Handgun Muzzles - Chamfer Revolver Cylinders NO LATHE Required, Pilots Fit Either Cutter

45° MUZZLE/CYLINDER CHAMFERING CUTTER - A damaged or poorly-cut muzzle can really hurt accuracy; sharp edges on revolver cylinder chamber mouths can cause rounds to hang up going into the cylinder - a real problem when using speedloaders. Cure both problems with this cutter. Use with muzzle pilots to clean up the lands and grooves at the barrel's muzzle; change the pilot and chamfer a cylinder to let rounds drop in smoothly. The 45° Cutter supplied in Sets marked with an * is 5/s" dia. to fit the larger

barrel and cylinder mouths on those calibers. All other Sets have a 1/2" diameter, 45° cutter.

SPECS: Cutter - 3/4" (8.25cm) long (except .17 caliber cutter - 2½" (6cm) long). ½" (12.7mm) or ½" (15.8mm) diameter. Handle - 3/4" (8.89cm). 3 oz. (85 g). .45 ACP Pilots - .45 ACP-1 fits S&W Model 25& 625. .45 ACP-2 fits Colt 1917. Hardened steel cutter and oilots. aluminum handle. Packaged in a polygropylene box.

#080-588-454	¹ / ₂ " Diameter, 45° Chamfer Cutter, only, 8K47J45	\$ 58.99
#080-588-625	5/8" Diameter, 45° Chamfer Cutter, only, 8K51G64	59.99
#080-588-453	¹ / ₂ " Diameter, 45° Chamfer Cutter, for .17 Cal., 8K47J58	62.99
#080-589-000	Facing & Chamfering Tool Handle, only, 1/4"-20 thread, 8K12C63	14.99
– Advise # –	45° Muzzle/Cyldr Chmfr Cutter & Steel Pilot for 1 cal., 8K73D53 \$	99.99
– Advise # –	45° Muzzle/Cylder Chmfr Cutter & Brass Pilot for 1 cal., 8K80C21	100.99
– Advise # –	Cylinder Pilot, Steel, only, 8K21J68	25.99
– Advise # –	Cylinder Pilot. Brass, only 8K20Q76	26 99

90° MUZZLE FACING CUTTER - Uses interchangeable, 1¹/4" long, slip-in muzzle pilots that keep its blades exactly perpendicular to the bore axis. Actually faces-off and squares-up barrel muzzles after shortening, prior to crowning, Ideal for removing dings or damage from flat faced (not rounded), rifle and handgun muzzles. Supplied in polypropylene box.

SPECS: Cutter - 3¹/₄* (8.2cm) long (except .17 caliber cutter - 2²/₆* (6cm) long. Diameter - 1* (2.5cm) or .750* (19mm). Handle - 3¹/₄* (8.9cm) long. 3 oz. (85 g). Hardened steel cutter and pilots, aluminum handle. Packaged in a polypropylene box.

#080-586-909	.750" Diameter, 90° Muzzle Facing Cutter, only, 8K48A18	\$ 57.99
#080-586-910	1" Diameter, 90° Muzzle Facing Cutter, only, 8K59N55	74.99
#080-586-911	1" Diameter, 90° Muzzle Facing Cutter, for .17 Cal., 8K64C58	74.99
#080-589-000	Facing & Chamfering Tool Handle, only, 1/4"-20 thread, 8K12C63	14.99
— Advise # —	.750" Dia., 90° Muzzle Facing Cutter & Steel Pilot for 1 cal., 8K71A44 \$	100.99
- Advise # -	.750" Dia., 90° Muzzle Facing Cutter & Brass Pilot for 1 cal., 8K82H72	100.99
- Advise # -	Muzzle Pilot, Steel, only, 8K23H91	29.99
— Advise # —	Muzzle Pilot, Brass, only, 8K19Q65	26.99

- Advise #	— Cylinder i	Pilot, Brass, oni	y, 8K2UQ/6			20.	99	
		STK# 45° CUTTER					STK# BRASS	FITS
ONE CAL. SET	CAL. SET	& STEEL PILOT	& BRASS PILOT	& STEEL PILOT	& BRASS PILOT	PILOT ONLY	PILOT ONLY	
#080-591-208	NA	#080-587-208	NA NA	#080-586-208	NA	#080-686-208	NA	.17 Centerfire Muzzle (.165")
#080-591-209	NA	#080-587-209	NA	#080-586-209	NA	#080-686-209	NA	.17 HMR Muzzle (.166")
#080-591-210	NA	#080-587-210	NA	#080-586-210	NA	#080-686-210	NA	.17 High Std./HM2 Muzzle (.167")
#080-591-207	NA	#080-587-207	NA	#080-586-207	NA	#080-686-207	NA	.177 Airgun Muzzle (.173")
#080-591-214	#080-946-210	#080-587-214	#080-948-210	#080-586-214	#080-947-210	#080-686-220	#080-943-220	.20 Muzzle
#080-591-211	#080-946-211	#080-587-211	#080-948-211	#080-586-211	#080-947-211	#080-686-211	#080-943-211	.22 RF Muzzle (.211")
#080-591-213	#080-946-213	#080-587-213	#080-948-213	#080-586-213	#080-947-213	#080-686-213	#080-943-213	.22 RF Muzzle (.213")
#080-591-022	#080-946-022	#080-587-224	#080-948-224	#080-586-229	#080-947-229	#080-686-022	#080-943-022	.22 RF Muzzle (.215")
#080-591-023	#080-946-023	#080-587-234	#080-948-234	#080-586-239	#080-947-239	#080-686-023	#080-943-023	.22 Centerfire Muzzle
#080-591-243	#080-946-243	#080-587-645	#080-948-645	#080-586-690	#080-947-690	#080-686-243	#080-943-243	6mm/.243 Muzzle
#080-591-257	#080-946-257	#080-587-254	#080-948-254	#080-586-259	#080-947-259	#080-686-257	#080-943-257	.257 Muzzle
#080-591-264	#080-946-264	#080-587-264	#080-948-264	#080-586-269	#080-947-269	#080-686-264	#080-943-264	6.5mm/.264 Muzzle
#080-591-270	#080-946-270	#080-587-274	#080-948-274	#080-586-279	#080-947-279	#080-686-270	#080-943-270	.270 Muzzle
#080-591-007	#080-946-007	#080-587-745	#080-948-745	#080-586-790	#080-947-790	#080-686-007	#080-943-007	7mm Muzzle
#080-591-308	#080-946-308	#080-587-304	#080-948-304	#080-586-309	#080-947-309	#080-686-308	#080-943-308	.30 Muzzle
#080-591-311	#080-946-311	#080-587-311	#080-948-311	#080-586-311	#080-947-311	#080-686-311	#080-943-311	.311 Muzzle
#080-591-320	#080-946-320	#080-587-320	#080-948-320	#080-586-320	#080-947-320	#080-686-320	#080-944-320	.32 Muzzle
NA	NA	#080-587-321	#080-948-321	NA	NA	#080-686-321	NA	.32 Cylinder
#080-591-322	#080-946-322	#080-587-322	#080-948-322	#080-586-322	#080-947-322	#080-686-322	#080-943-322	.32-20 Muzzle
#080-591-323	#080-946-323	#080-587-323	#080-948-323	#080-586-323	#080-947-323	#080-686-323	#080-943-323	8mm Muzzle
#080-591-338	#080-946-338	#080-587-338	#080-948-338	#080-586-338	#080-947-338	#080-686-338	#080-943-338	.338 Muzzle
#080-591-380	#080-946-380	#080-587-380	#080-948-380	#080-586-357	#080-947-357	#080-686-380	#080-944-380	.38/.357 Muzzle
NA	NA	#080-587-381	#080-948-381	NA	NA	#080-686-381	#080-943-381	.38/.357 Cylinder
#080-591-350	#080-946-350	#080-587-350	#080-948-350	#080-586-350	#080-947-350	#080-686-350	#080-943-350	.35 Muzzle
#080-591-384	#080-946-384	#080-587-384	#080-948-384	#080-586-384	#080-947-384	#080-686-384	#080-943-384	.38-40 Muzzle
#080-591-375	#080-946-375	#080-587-375	#080-948-375	#080-586-375	#080-947-375	#080-686-375	#080-943-375	.375 Muzzle
#080-591-400	#080-946-400	#080-587-400	#080-948-400	#080-586-400	#080-947-400	#080-686-400	#080-944-400	.40/10mm Muzzle
NA	NA	#080-587-401	NA	NA	NA	#080-686-401	NA	.40/10mm Cylinder
#080-591-410	#080-946-410	#080-587-410	#080-948-410	#080-586-410	#080-947-410	#080-686-410	#080-944-410	.41 Muzzle*
#080-591-440	#080-946-440	#080-587-440	#080-948-440	#080-586-440	#080-947-440	#080-686-440	#080-944-440	.44 Muzzle*
#080-591-450	#080-946-450	#080-587-450	#080-948-450	#080-586-450	#080-947-450	#080-686-450	#080-944-450	.45 Muzzle*
#080-591-430	#080-946-430	#080-587-459	#080-948-418	#080-586-451	#080-947-459	#080-686-459	#080-943-450	.45 BP Muzzle*
#080-591-480		#080-587-480	#080-948-480	#080-586-480	#080-947-480	#080-686-480		.480 Ruger Muzzle*
#080-591-503	#080-946-502	#080-587-501	#080-948-501	#080-586-501	#080-947-501	#080-686-501	#080-944-501	.50 S&W Muzzle*
#080-591-501	#080-946-501	#080-587-503	#080-948-503	#080-586-502	#080-947-503	#080-686-503	#080-943-501	.50 BMG/BP Muzzle*
#080-591-458	#080-946-458	#080-587-458	#080-948-458	#080-586-458	#080-947-458	#080-686-458	#080-943-458	.458/.45-70 Muzzle*
NA	#080-946-417	#080-587-416	#080-948-417	#080-586-417	#080-947-416	#080-686-416	#080-943-417	.416 Muzzle*
NA	NA	#080-587-411	#080-948-411	NA	NA	#080-686-411	#080-942-411	.41 Cylinder*
NA NA	NA NA	#080-587-441	#080-948-441	NA NA	NA NA	#080-686-441	#080-942-441	.44 Cylinder*
NA NA	NA NA	#080-587-448	#080-948-448	NA NA	NA.	#080-686-448	#080-942-448	.45 ACP-1 Cylinder*
NA NA	NA NA	#080-587-456	#080-948-456	NA NA	NA NA	#080-686-456	#080-942-456	.45 ACP-2 Cylinder*
NA NA	NA NA	#080-587-451	#080-948-451	NA NA	NA NA	#080-686-451	#080-942-451	
	IIIA	" 000-201-421	" 200-240-43T	IIIA	IIIA	"030-000-431	" 000-34F-43T	. 10 Cymruci

CHAMFERING & FACING COMBO SETS

ONE-CALIBER SET - One 90° and one 45, Cutter; one Handle and one Pilot of your choice. Polypropylene box. ■

— Advise # —	Rifle/Handgun One-Caliber Set, advise STEEL pilot, <i>8K111K37</i>	\$ 150.99
— Advise # —	Rifle/Handgun One-Caliber Set, advise BRASS pilot. 8K126A27	150.99

RIFLE SET - Includes one 90°, 45°, and 79° Cutter, plus one Handle and all Rifle Pilots. Flip-storage box with foam insert. *Does not include .17 caliber pilots.*

#080-943-000	Rifle Master Facin		
	with BRASS pilots,	8K296P67	\$ 399.99

HANDGUN SET - Includes one 90°, 45°, and 79° Cutter, plus one Handle, 10 Cylinder Pilots, and 13 Handgun Bore Pilots. Flip-storage box with foam insert.

#080-586-000	Handgun Master Facing/Chamfering			
	Set with STEEL pilots, 8K298E42	\$ 399.99		
#080-944-000	Handgun Master Facing/Chamfering			
	Set with BRASS pilots, 8K293Q56	379.99		

MASTER SET - Includes one 90°, 45°, and 79° Cutter, one Handle, 17 rifle muzzle pilots, 10 revolver cylinder pilots, 5 Handgun Bore Pilots, 8 Rifle/Handgun muzzle pilots in a storage box with foam insert. Does not include .17 caliber pilots.

#080-587-001	Rifle/Hndgn Master Facing/ Chamfering Set, w/STEEL pilots, 8K407G89	\$ 499.99
#080-942-000	Rifle/Handgun Master Facing/ Chamfering Set, w/ BRASS pilots, 8K396F90	. 499.99

.17 CAL. MASTER SET - Includes one 90° and 45° Cutter, one Handle, and 3 rifle muzzle pilots in .165°, .166°, and .167° diameters for .17 centerfire and .17 rimfire calibers. Does not include 79° (11°) muzzle crowning cutter, available separately.

_	#080-686-000	.17 Cal. Master Set, 8K134B77	\$ 165.99
	#080-000-184 🔘	.17 Cal., 3/4" Crown Cutter,	
		8K40G38	54.99

MANSON PRECISION REAMERS MUZZLE CROWN REFACING KIT



No Lathe Way To Cut A Perfect Crown In Minutes & Improve Accuracy

Provides a fast, no lathe way to cut a smooth, concentric muzzle crown on both rifle and handgun barrels for an immediate improvement in accuracy. Expandable pilots provide precise alignment of the facing cutter with the bore. Spring-loaded adapter with neoprene damper absorbs vibration providing a consistent, chatterfree cut. Includes two facing cutters for 0° or 11° crowns, each with

precision ground three-blade inserts that quickly and easily remove the toughest material and provide a perfectly square barrel crown. Outside chamfer cutter deburrs the sharp edges for a clean, even finish. Kits include 0° facing cutter, 11° facing cutter, outside chamfer cutter, and two or five pilots depending on kit, plus a ¹/₅" pilot wrench, ²/₅a* allen wrench, setup gauge, manual handle, adapter, instructions, and storage case. Perfect for slow even cuts and precise indexing of muzzle brakes.

SPECS: Facing Cutters - Steel, carbide inserts. Chamfer Cutter - Steel. 1.25" (32mm) diameter. Pilots - Steel, 8½" (22.2cm) overall length. Kits include power driver or manual handle, 0° facing cutter, 11° facing cutter, outside chamfer cutter, (2 or 5) pilots, ½" pilot wrench, ¾" allen wrench, setup gauge, power driver, adapter, instructions, and storage case.

#513-000-038 🔘	2-Pilot Manual Crown Kit, 3A375E00	\$ 375.00
#513-000-039	5-Pilot Manual Crown Kit, 3A490B00	490.00

BROWNELLS LAPPING COMPOUNDS

Aluminum Oxide In A Water Soluble Base For Easy Cleanup

The right abrasive for lapping the final fit between semi-auto slides and frames, rifle bolts and receiver raceways, and any other application where a super-close fit or silksmooth mechanism is required. #600 and #800 grit aluminum oxide abrasive crystals in a long lasting petro-



leum base that's water soluble for fast, easy cleanup in soap and water. Aluminum oxide crystals are smooth and rounded in shape, so they won't embed and continue to wear the part after cleanup.

SPECS: Aluminum oxide. 4 fl. oz. (118 ml). Available in #600 and #800 grit. Twin Pak contains one jar of each grit.

#083-041-600	#600 Lapping Compound, 3H2	.5A12 \$ 29.99
#083-041-800	#800 Lapping Compound, 3H2	25C30 29.99
#083-041-002	Twin Pak Lapping Compound, 3H33E88	49.99

GARNET LAPPING COMPOUNDS - Fast-working, but absolutely non-embedding, petroleum abrasive paste for honing close-fitting parts to an ultra-smooth, friction-free fit. A natural substance, Garnet can be safely used on castiron, brass, bronze or softer steels without embedding or galling.

SPECS: Garnet, oil-base paste. 4 oz. (113 g). **GK-5** = 600 grit. **GK-7** = 800 grit, **GK-10** = 5 microns.

#083-047-005 🗞	GK-5 Lapping Compound, 3H16D85	\$ 19.99
#083-047-007 🗞	GK-7 Lapping Compound, 3H16H12	19.99
#083-047-010 🗞	GK-10 Lapping Compound, 3H16G21	19.99

GUARANTEED.FOREVER.®
SINCE 1939

.50 S&W Cylinder*

#080-686-481 #080-942-480 .480 Ruger Cylinder

#080-587-481

#080-587-502

#080-948-481

#080-948-502

NA

NA

NΔ

#080-686-502

SCOPE MOUNTING TOOLS

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

STOCK #	BUSHING		
BUSHING SET			
#319-400-132	10-32		
#319-400-356	3-56		
#319-400-648	6-48		
#319-400-840	8-40		
DRILL B	USHING		

STOCK #	BUSHING
#319-400-921	#21
#319-400-928	#28
#319-400-930	#30
#319-400-931	#31
#319-400-964	#7/64

Advise # —	Bushing Set, each, <i>9A23D57</i> \$	26.99
— Advise # —	Drill Bushing, each, 9A15E82	18.45

BROWNELLS SCOPE RING ALIGNMENT LAP



Helps prevent dinged and damaged scope tubes by removing high spots to guickly 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, 8	K44J40	\$ 69.99
#080-903-130	30mm Alignment La	p, 8K68D37	79.99

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 51/2" (14cm) long, (7cm) wide. Fits receivers between .630" and 1.440" in diameter. Includes #31 (6-48) and #28 (8-40) drill and tan hushings

Scope Mount Drill Fixture,	
2F110H93	\$ 128.99

BROWNELLS SILICON CARBIDE

ABRASIVE COMPOUND

sharp-edged particles to keep cutting longer than aluminum oxide

compounds. For use on steel only. Remove with solvent.

GRIT SIZE

120

180

240

320

400

600

800

SPECS: 2 fl. oz. (59 ml). Kit contains 120, 180, 240, 320, 400, 600 and

#080-537-600 600 Grit Silicon Carbide, 5L20P51... 24.99

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

#080-905-000 Silicon Carbide Abrasive Kit.

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

SPECS: 120 grit (coarse); 600 grit (fine). 1 lb. net wt.

Stock Rubbing Compound.

SPECS: 4 fl. oz. (118 ml).

STOCK #

#083-045-120

#083-045-180

#083-045-240

#083-045-320

#083-045-400

#083-045-600

#083-045-800

listed above

800 grit.

Sharp-Edged Silicon Carbide Self-

Lubricating Petroleum Base

"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 lubri-

cant breaks down into smaller and smaller

PRICE 5L14Q52 \$ 16.99

5L10J70 \$ 16.99

5L11B13 \$ 16.99 5L15B07 **\$ 17.99**

5L15J36 \$17.99

5L24F64 \$ 29.99 5L24G92 \$ 29.99

The very best abrasive compound for

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) 81/2" (21cm) long rod, (1) 51/2" (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

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	

EXD ENGINEERING VERTICAL

RETICLE INSTRUMENT

Accurate Check For Perfectly Aligned Crosshairs

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

SPECS: Aluminum, natural finish. 5½" (14cm) long, 2"

Adjustable, self-aligning V-blocks with integral

0 **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: 41/4" (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

BROWNELLS HOLE CENTER PUNCHES

#289-100-000 Vertical Reticle Inst., 9H43A73 \$ 56.99

"bulls" or wounded game.

(5cm) wide. Includes complete instructions.

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: 23/4" (7cm) long. 1/4" (6.3cm) diameter knurled handle. Hardened,

#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

NO HANDLING CHARGE • NO MINIMUM ORDER ONE-RATE SHIPPING ANYWHERE IN THE U.S.

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. 81/2" (21.5cm) long.

#526-000-042 Leupold Rotary Dovetail Ring Wrench,

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, 1/4" flat blade, SPECS: Drivers; Chrome vanadium steel, blue, matte finish, Handles: re-

#526-522-960 Scopesmith Mounting Tool, 4K15C93... \$ 19.09

order on the web

brownells.com

BROWNELLS PAGE 471

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; 3/32" (fits Leupold) and 7/64" (fits Redfield) hex-head, T-10 and T-15 TORX ring and base screws.

SPECS: 17/8" (4.7cm) long overall, 11/4" (3.1cm) long

#080-146-006	#6 Slotted See Thru Bit, 8K4K19	\$ 4 99
#000-1 1 0-000	#O Stotted See Till d Dit, ON-INIS	7 7.55
#080-146-008	#8 Slotted See Thru Bit, 8K4B19	4.99
#080-146-093	³ / 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 overtorque 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 rec-

ommended by most scope and scope ring manufactures. 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."

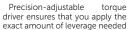
SPECS: Steel shank, plastic handle, 31/2" (8,8cm) long, 31/2" wide, Fits T15 Torx screws only

#947-000-152 Scope Ring Torque Wrench, 7D16H69 . . \$ 19.99

BUSHNELL BORESIGHTERS



Set Tightening Force; Accepts ALL Brownells Magna-Tip Bits





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" & 5/32" hex with 1" long shanks; T-25 and 5/32" hex with 4" long shanks.

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

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. Works great for optics mounted on rifles,

handguns, and shotguns. Helps get reticle level in seconds. MK-III has white and black stripes of different thickness to accompdate different vision preferences. Tactical fits Picatinny rails, has black and green stripes, and is taller to match taller rings typically found on Tactical Rifles.

#100-011-731 Segway Reticle Leveler MK-III. 8F16I47. . \$ 19.99 **#100-013-054** Segway Tactical Reticle Leveler, 8F17K05 . . **20.59**

Fast, Accurate Sight-In System Gets "On Paper" Without Firing A Shot



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. Sights centered on the grid will shoot very close to point-of-aim at 100 vards. Collimator is CNC-machined from aluminum, then hardcoat anodized to protect the finish from nicks, dings, and surface wear. Includes convenient carrying case that protects from damage and keeps each item clean and ready to use. Professional model has adjustable arbors for .22 to .270, 7mm to .35, and .35 to .45 calibers. Everything fits in the included hard-sided carrying case. Compact Magnetic model works on all calibers and firearm types. Attaches directly to the muzzle and eliminates the need for inserts or arbors. Cloth carrying case with pull cord for easy closing and secure storage. SPECS: Collimator - Aluminum, hardcoat anodized finish, matte black. Standard contains (1) insert of each caliber: .177. .22. .25. .27. 6mm 6.5mm, 7mm, .30, .32, .338, .35, .375, .44, .45, .50 . Collimator - 43/4" (12cm) long. Inserts - Steel, 3¾" (9.5cm) long. Case - Vinyl, black. 3¼ (8.2cm) diameter x 5½" (14cm) wide, rolled up. **Professional** contains 3 adjustable inserts: .22 to .270, 7mm to .35, and .35 to .45 calibers. Inserts - Śteel, expandable, 4½" (11cm) long. Collimator - 4¾" long. Case – Vinyl covered, hard sided, black. 5-3/8" (13.6cm) long x 2-1/8" (5.4cm) wide, 3½" (9cm) high. Magnetic - Collimator - 3¼" long. Case - Cloth, black.

#593-000-052 (Professional Boresighter, 7K89E44 . . . \$ 99.99 #593-000-051 Magnetic Boresighter, 7K34A73 42.99

SIGHTMARK UNIVERSAL LASER — **BORESIGHTER**



Helps Sight In Rifles, Pistols, Or Shotguns Without Firing A Shot

Compact, self-contained boresighting 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. A powerful magnet holds the sighter securely on the muzzle of any rifle, pistol, or shotgun; nothing to insert into bore or chamber. Install the three batteries (included) into the battery compartment, use the centering

switch on. Aim at a target 20-30 yards away, and adjust windage and elevation of the scope or sights so point-ofaim is zeroed on the dot. Go to the range for test shots and final sight adjustments. Fits easily in pocket and includes padded nylon carrying case.

SPECS: High-impact polycarbonate, black, Laser wavelength, 632-650 nm. Sighting range, 15-100 yards. Dot size, 2" at 100 yards. Includes (3) AG13 button cell batteries, nylon carrying case, and instructions

#100-004-010 Universal Laser Boresighter, 8A32K03...\$ 33.99

SIGHTMARK LASER BORESIGHTER



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. Works just as well with red dot scopes and iron sights. No metal contacts the rifling, and it's all self-contained. The SL-100 comes with a set of adapters so it will fit all firearms from .22 to .50 caliber, plus 12 and 20 gauge shotguns. Included SRL-100 attachment converts it into a scope reticle leveler by refocusing the laser to a horizontal beam for precise crosshair alignment. Works best indoors, where you have control over ambient lighting. Includes complete instructions and two #357/LR-44

#100-000-843 SL-100 Laser Boresighter, 8K103K97. \$ 111.99

SITE-LITE LASER BORESIGHTER





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. Works equally well with red dot scopes and iron sights. Laser is mounted to a cone shaped, aluminum spud. An O-ring and a powerful magnet hold the spud centered in the bore. No special adapters to buy and no metal contacts the rifling. A system of adapters and O-rings lets one unit fit all firearms from .22 to .50 caliber, plus 12 and 20 gauge shotguns. Also includes the SRL-100 adapter that slips over the Boresighter's lens to convert it into a highly accurate Scope Reticle Leveler by refocusing the laser to a horizontal beam for precise crosshair alignment, SRL-100 also available separately. SL-100 Standard Model for use indoors, where you have control over ambient lighting. SL-150 Ultra-Mag has an ultra-bright 635mm laser for better visibility in bright, ambient light conditions, SL-500 Ultra-Mag uses a super-bright green laser for maximum visibility of the sighting dot in daylight and very bright ambient light. SPECS: Aluminum. Includes (2) adapters, (12) O-rings, (2) cardboard

target cards, SRL-100 adapter, instructions, and plastic storage case. SL-100 - 6¹/s" (15.6cm) OAL without adapter, 4¹/s" (10.5cm) long spud. Uses (2) #357/ LR-44 batteries, included, SL-150 - 65/6" (16.8cm) OAL 41/4" (10.8cm) long spud. Uses (1) CR2 lithium battery, included. SL-500 - 7¹/₂" (19.1cm) OAL, 4¹/₄" long spud. Projects a green sighting dot. Uses (1) CR123 lithium battery, included, SRL-100 - Includes calibrated laser target, bubble level, and instructions.

#100-000-843	SL-100 Laser Boresighter, 8K103K97\$	111.99
#100-002-429	SL-150 Ultra-Mag Laser Boresighter,	
	8K154H69	164.99
#100-004-085	SL-500 Ultra-Mag Laser Boresighter,	
	8K210N24	249.99
#100-002-430	SRL-100 Reticle Leveler, 8K20G32	27.99

guides on the rear of the boresighter to center it on the muzzle, and

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. Centerfire boresighters contain the entire laser system and batteries in the size of a normal cartridge case. Rimfire models have a cartridge-sized laser unit that goes into the chamber and a magnetic external battery holder that sticks to the receiver for hands free operation. Simply insert laser into chamber, gently close the action far enough to secure the laser, and aim at a target 20-30 yards away. Adjust windage and elevation while compensating for the height of the scope, then head to the range for test shots and final adjustments. Boresighter stores easily in the included nylon carrying case that fits easily in a pocket, tool kit, or range bag. Available in a variety of calibers listed below. SPECS: Machined brass. Laser wavelength, 632-650 nm. Sighting range, 15-100 yards. Dot size, 2" at 100 yards. Includes (2) AG5 button cell batteries, nylon carrying case, and instructions. .223 Rem also fits .222 Rem, 5.56 x 45 NATO, 5.6 x 50, 6 x 47. 7mm Rem/.264 Win also fits 8mm Rem, .338 Win. **.30-06** also fits .25-06, .270 Win, .280 Rem, 7mm Express, 7.7 Japanese, 8mm-06, .338-06, and .35 Whelan. .308 also fits 6mm Rem, 243 Win 257 Roberts 260 Rem 284 Win 7x57 Mauser 7mm 08 8mm Mauser, 307, 356, and 358 Win, 22 LR and 17 HMR boresighters use 2 AAA batteries (included) in an external pack. #100-004-011 (A) 227 Pam Lacor Porosightor

#100-004-011	8A24P50	\$ 28.99
#100-004-014	7mm Rem/.264 Win. Laser Boresighter, 8A27J63	32.99
#100-004-013 🍑	.30-06 Laser Boresighter, 8A25E96	29.99
#100-004-015 🍑	.308 Laser Boresighter, 8A24I99	28.99
#100-014-688 🍑	.300 AAC Blackout Boresighter, 8A25B33	35.99
#100-004-012 🍑	7.62x39 Laser Boresighter, 8A24J99	28.99
#100-004-016 🔘	9mm Luger Laser Boresighter, 8A25A45	28.99
#100-004-017 🔘	.40 S&W Laser Boresighter, 8A24I99	28.99
#100-004-018 🔘	.45 ACP Laser Boresighter, 8A24A99	28.99

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. Very easy to use: Mount your collima-

tor onto the elevation arm, insert your bore spud in the elevator block, then lock with thumbscrew. Insert your spud into the bore and move elevation shaft up or down. Adjust the collimator so its grid view is near the center of the objective lens, and lock collimator height with second thumbscrew. NOTE: Can be used with any bore spud or arbor 1/2" or smaller to include expandable arbors. SPECS: Elevator Block - Aluminum. 13/4" (4.5cm) long, 3/4"(1.9cm) wide, 13/4" high. Elevation Shaft - Stainless steel. 1/4" (6.3mm) diameter. Elevation Arm - Aluminum. 3/8" (9.5mm) diameter. Includes instructions.

#100-002-512 Collimator Elevator, 5A90N34 \$ 110.99

GUARANTEED.FOREVER.® SINCE 1939

OREGON TRAIL DEFENSE FIREARM STIPPLING TOOL KITS



Helpful Tips...for Creating a Custom Surface Textures on Polymer-Frame Guns

Stippling 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 woodburning tools, but by far the best way is to use the Oregon Trail Defense stippling tool. It has a short shaft to keep your hand close to your work, and has a low 25-wattheating 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 Stippling Tip Kit. Each of these tips screws onto the end of the stippling tool to enable you to create a custom texture that looks - and feels - like none other. The 12 stippling 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 stippling tool tips have 8-36 tpi right-hand female threads, so they will NOT fit the typical wood-burning tool.

#100-022-980 Stippling Tool Kit, 9H59P33....... \$ 59.99 #100-027-838 Deluxe Stippling Tip Kit, 9H66K64... 69.99

D'AGUANNO CUSTOMS AR-15/M16 RECEIVER RACEWAY FIXTURE



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 AR vise blocks is that they fit over the outside of the upper - not so here. One end of the D'Aguanno 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'Aguanno 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 ¹⁰/₁₀₀ 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 11⁵/₄" long, and the tension-adjustable smooth wrench is 7.5" long. Both are made of hardened ¹/₁₀₀" 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, bott 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,	4
	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/s" (.875") across the rear wrench/socket flats.

#100-036-558 Big Horn Action Wrench, 4C00NIL \$ 85.00

BROWNELLS TACTICAL RIFLE — FIELD MAINTENANCE 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/ Leupold windage (L/B) and #185-10 bits; '/\s', '/s' and '/s' pin punches; '/s' drive handle; '/s' 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, 45in-lb torque T-handle; ½'s square-to-hex drive converte, ball-hex "L" wrench set, bolt ejector tool set, bolt disassembly tool, ny-lon/brass hammer, ½'s and ½'s pin punches, 120' brass alignment/push punch 12'x24' bench/ field mat. Approx. 5 lb (23 kd) 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®.

SPEČS: Includes: #84 MAGNA-TIP® hollow screwdriver handle w/#185-0, #185-10, #300-4, and #360-4 bits; 1' nylon/brass hammer; 1/s* and 3/s* roll pin punches; 1/o* and 3/s* 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 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

BROWNELLSMILITARY 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. 71/4" (18.4 cm) long.

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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 5/8" 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 corrosionresistant 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 (*/ss.", */sr.", */s." b"/s."), pin punch set (*/ss.", */sr.", */sr." b"/sr."), prick punch, center punch, Delrin® bench block, double-ended nylon gun parts cleaning buish, stainless steel cleaning brush, #3 acid brush, cleaning rod (4 sections with slotted tip), 8-32 to */ss." 27 rod adapter, Double-Tuff™ phosphor bronze bore brush set (7,62mm, 12.7mm, 18mm & 40mm), 40mm cotton bore mop, and (100) 1'/s" dia. heavy duty flannel cotton patches, in a heavy duty O.D. green Cordura nylon case. Case is approximately 11" (27.9cm) long, 9'/s" (24.1cm) high, and 3'/s" (8.9cm) thick.

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, 10½* (26.7cm) high, 3½* (8.9cm) thick.

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

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brownells.com