

GENERAL GUNSMITH TOOLS INDEX

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GRACE USA 17-PIECE BENCH TOOL SET

Necessary Tools For Basic Gun Work In The Shop

Handy tool set contains basic tools for performing 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 ounce brass hammer. Punches are made of 1/16" brass hex stock and come in 1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", and 5/16" diameter. Kit comes with a neoprene bench block to keep tools organized, but also serves as a functional bench block. Bench block also available separately.



#354-000-042AQ 17-Piece Bench Tool Set, 4E112K50 \$ 129.99
#354-000-043AQ Bench Block Only, 4E30F00 37.99

GRACE GUN CARE TOOL SET

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



Never get caught without essential gunsmithing tools again. Complete 17-piece tool set, in a handy, padded, vinyl case, carries easily to the range; lies flat on the bench. Contains the tools you need for quick field repairs: eight, fixed blade screwdrivers with parallel ground tips fit most gun screws; eight, non-marring, brass pin punches and an 8 ounce brass hammer help provide safe removal and installation of the most commonly found assembly pins.

SPECS: Case - vinyl, black, 8 1/2" (21.6cm) x 11" (28cm). Hammer - 8 oz. (226 g), 1" (2.5cm) dia. x 2" (5.1cm) long head, 9 1/4" (23.5cm) hickory handle. Punches - brass, 3/16" hex stock, parallel shaft. 1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4" and 5/16" dia. Screwdrivers - square shanks hardened to Rc 52-56. 4" to 9" lengths. Hardwood handle.

#354-100-017AQ Gun Care Tool Set, 4E97D00 \$ 112.99



BROWNELLS BASIC GUNSMITHING KIT

Helps You Do Basic Repairs



The 24 tools (plus 6 additional screwdriver bits) in this Kit are among the ones you will find on the work bench of practically all professional gunsmiths. When we chose each one individually, we walked the aisles of our stock room many times,

repeatedly handling each of the vast variety of gunsmithing tools we carry. We had two thoughts in mind as we evaluated each tool: (1) If I were advising a good friend starting to work on guns, is this a tool he should have; and, (2) If I were assembling a compact, economical and basic service tool kit for myself, is this one of the tools I would start with. If the tool met both of these basic requirements, it is in the Kit.

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

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

#080-750-000AQ Basic Gunsmithing Kit, 8K282K00 \$ 299.99

ADD-ON Pak No. 1 - Consists of the 4-in-1 Hand Rasp; Scribe Hook; No. 1033-6 Chain Nose Pliers and No. 91 Allen Wrench Set, which are included in the Basic Gunsmithing Kit but NOT included in the Assembly/Disassembly Kit.

#080-750-001AQ Add-On Pak No. 1, 8K38C25 \$ 43.99

BROWNELLS ASSEMBLY/DISASSEMBLY TOOL KIT

With Special Tools For Colts & Mausers



30 tools and bits with four highly specialized tools making the Kit better equipped for more advanced professional work. The Colt Tool makes the ticklish job of removing Colt revolver ejectors simple and makes it easy to turn tight 1911 Auto

bushings. The Bolt Extractor Pliers greatly assist removal and installation of those stiff extractors on Enfield, Springfield, Mauser or similar bolt. Magazine retaining caps on Ithaca 37's, Winchester Model 12's and similar, positively require the special Winchester Model 12 Wrench to remove. The 7/64" 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" Nylon/Brass Hammer; No. 81 MAGNA-TIP® Screwdriver; Screwdriver Bits Nos. 1 - 2 - 6 - 00 - 10 - 20 and 30; Two Instrument Screwdrivers; Main Spring Vise; MF134 India Stone; M-16 Brush; 1/8" x 6" Pin Punch; 3/32" x 6" Pin Punch; 1/16" Starter Punch; 3/32" Starter Punch; Brownells Replacement Pin-Punch Set; 2" Replacement Punch Assortment; Nylon/Brass Drift Pin Punch Set; Gunsmith Bench Knife; 8" No. 2 Cut Hand File; Sight Base File; Brownells Colt Pistol Wrench; Model 12 Wrench; Bolt Spring Extractor Pliers; Screw Check'r; 7/64" Speed-Hex (Ball-end) Wrench and Kit Box.**

#080-755-000AQ Assmbly/Dismbly Kit, 8K275K15. . . \$ 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.

#080-755-002AQ Add-On Pak No. 2, 8K38A45. \$ 43.99



BROWNELLS BASIC FIELD TOOL KIT

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



Versatile, compact tool kit helps prevent minor firearm malfunctions from ending your field outing ahead of schedule. Like our popular gun-specific Field Maintenance Packs, this kit was developed for serious shooters who are on the go, and features only the highest quality, longest lasting gunsmithing tools available. These tools were carefully selected by our gunsmithing technicians for general field repair and maintenance of a host of firearm types, so you're as prepared as possible to tackle those readily correctable problems that occur when you least expect them. Perfect for the competitive shooter, avid hunter, and mobile armorer who need the basics to help field strip and perform minor repairs and cleaning of handguns and long guns. Our extra-tough, 1000 denier Cordura® field case, with individual tool pouches, keeps everything protected and organized, so there's no down time scrounging for something to substitute for the right tool.

Our specially configured Magna-Tip® screwdriver set with #81 handle, polyethylene case, and bench tray filled with 23 of the most commonly used slotted, hex, Phillips, and Torx® bits will handle the majority of gun screws in existence. An additional miniature screwdriver set gives you six double-ended Phillips, slotted, and Torx quick-change bits to take care of those really small but critical gun fasteners. And, the knurled swivel top driver handle provides finger-tip control to prevent gouging or losing those really tiny screws. Extra-long, butstock screwdriver makes it fast and easy to remove most shotgun stocks. We've also added the most commonly used steel, starter and pin punches. Easily start, remove, and install spring pins and roll pins in most guns without damage to the pin or firearm itself. Steel punches are individually marked for size. Also included is a non-marring, nylon drift punch for making minor sight adjustments as well as a host of other jobs. A smooth cut file with handle takes care of those unforeseen problems that require minor metal removal; four additional handle inserts accept many other file sizes you may wish to add to your kit. Medium grit, India stone allows you to lap, hone, sharpen, or polish out small metal imperfections. Additional tools include a steel packing hook for releasing springs, a 6" chain nose pliers for grabbing and holding small parts, a nylon bench block with "V" center, a nylon/brass hammer, and a double-ended gun parts cleaning brush. Lay everything on the soft, flexible

GENERAL GUNSMITH TOOLS

BASIC TOOL KITS


Orders/Tech: 800-741-0015

order on the web
brownells.com

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BROWNELLS WEAPONS FIELD MAINTENANCE PACKS

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

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



M16/M4 Field Pack

M16/M4 FIELD PACK - Allows complete weapon breakdown for routine maintenance and repair, plus includes tools for sight adjustments and field cleaning of the Colt M16/M4. Includes special tools for removal of barrel nut, flash hider and lower receiver extension without damage to any rifle component.

SPECS: Includes: #81 MAGNA-TIP® hollow screwdriver handle w/ Le-upold windage (L/B) and #185-10 bits; 1/16", 1/8" and 1/4" pin punches; 1/2" drive handle; 3/4" nylon/brass hammer; buttstock tool; combination wrench; lower receiver vice block; A1/A2 sight wrench; carrier carbon scraper; Deluxe model buttstock cleaning kit. Approx. 5 lb. (2.3 kg) wt.

#080-000-458AQ M16/M4 Field Pack, 8K239H99... \$ 259.99



Remington 700 Field Pack

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

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

#080-000-457AQ Rem. 700 Field Pack, 8K325F62... \$ 420.99



Tactical Shotgun Field Pack

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

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

#080-000-583AQ Brownells Tactical Shotgun Maintenance Pack, 8K275C65... \$ 312.99



1911 Auto Field Pack shown

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

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

#080-000-456AQ Brownells 1911 Auto Field Pack, 8K284B99... \$ 376.99

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

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

#080-000-469AQ Beretta 92/M9 Field Pack, 8K283L54... \$ 329.99

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

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

#080-000-582AQ Field Tool Pack for Glock, 8K265E31... \$ 304.99

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

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

#080-000-039AQ S&W M&P Field Pack, 8K179C91... \$ 247.99



Ruger Mini-14 Field Pack

RUGER MINI-14 FIELD PACK - Each tool in this kit serves a specific purpose in helping you keep your .223 carbine functioning reliably. Contains all of the correct-size pin punches and screwdriver bits needed for full field stripping, plus a rear sight adjustment tool designed specifically for the Ruger® Mini-14®. **SPECS:** Includes: #84 MAGNA-TIP® hollow screwdriver handle w/ #185-0, #185-10, #300-4, and #360-4 bits; 1" nylon/brass hammer; 1/16" and 1/8" roll pin punches; 1/8" and 1/4" 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.

#080-000-483AQ Mini-14 Field Pack, 8K149L86... \$ 186.99



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

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

#080-000-522AQ Foreign Weapons Field Maintenance Pack, 8K335Q61... \$ 376.99

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

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

#080-000-459AQ Field Pack Case, 8K65H00... \$ 75.99

AVID DESIGN THE GUN TOOL

18 Separate Tools In One,
Ready For Range & Field

Compact, easy-to-operate tool protects you from being caught short in the field without the tool you need for emergency repairs and adjustments. Loaded with 18 separate tools for working on long guns, the Gun Tool conveniently fits in your pocket, range bag, or hunting pack. The ergonomically shaped body features a rugged 420 stainless steel frame and molded polymer scales with grippy synthetic rubber inserts for a secure grasp. Brushed aluminum bolsters provide strength and durability without excess weight. Includes claw-point knife blade, pin punch, .410 bore through 10 gauge shotgun choke tube wrenches, and a blade for scope windage/elevation adjustment screws. You also get built-in T-10, T-15, and T-20 Torx® drivers, plus 3/16" and 5/16" Allen key wrenches. There's even a magnetic 3/16" hex drive and four interchangeable screwdriver tips (1/8" and 3/16" flat head; Phillips #1 and #2) that stow conveniently in a covered compartment in the handle. **Enhanced** model also includes five additional Allen bits (5/64", 7/64", 1/8", 9/64", and 3/16"), an adapter that lets you use any 1/4" drive bit in your Gun Tool, and a tough, molded nylon belt sheath, plus a goose-neck LED borelight.

SPECS: 420 stainless steel and aluminum, molded polymer and black rubber grip. 5" (12.7cm) long, 1 1/2" (3.1cm) wide, 1 1/2" (3.8cm) high. 8 oz. (226g) weight. Bore Light - Uses (3) LR-44 button-cell batteries, included.

#100-004-955AQ The Gun Tool, 8C15J84..... \$19.99

#100-004-732AQ Enhanced Gun Tool, 8C21Q00..... 23.99



LEATHERMAN® MULTI-TOOLS

Go-Anywhere Survival, Repair
& General Maintenance Tools

Heavy-duty, stainless steel multi-tools are perfect for the grab-and-go bag, range bag, briefcase, or vehicle glove compartment. Or carry them on your belt or MOLLE gear with the included nylon sheath. Choose a model with blades, extensions, and attachments that best suit your needs. All feature a fold-open, locking blade and combination needlenose/regular pliers with wire cutters, plus a saw blade, crimper, wire stripper, and bottle/can opener. 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. Includes instructions and black nylon sheath with belt attachment.

WAVE® - Classic Leatherman tool, the most popular model, features 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 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.

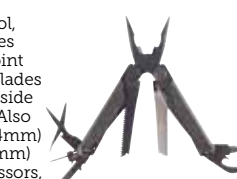
SPECS: 4" (10.2cm) OAL folded; 6 1/4" (16cm) OAL extended. 8.5 oz. (241g) weight.

#525-000-001AQ Wave Multi-Tool, 5B85F59..... \$99.99

SURGE® - This 21-in-1 general purpose tool features the largest set of pliers offered in a Leatherman. You get separate 4 1/2" (11.4cm) long clip-point and serrated sheepsfoot knife blades, a Phillips driver, 3/16" (1.9mm) and 5/16" (7.9mm) flat blade screwdrivers, stranded wire cutter, wire stripper, scissors, diamond-coated file, wood/metal file, 9" (22cm) fold open ruler, awl with thread loop, and .06" (1.5mm) eyeglass repair screwdriver.

SPECS: 4 1/2" (11.4cm) OAL folded; 6" (15.2cm) OAL extended. 12.5 oz. (335g) weight.

#525-000-002AQ Surge Multi-Tool, 5B93A39..... \$99.99



NEW! Color NEW INNOVATIVE PRODUCTS MIL-SPEC TOOL BOX

Super Strong Mil-Spec Case
Withstands Roughest Use

Premium, hard-side tool box is ideal for storage, shipping and protection of small arms, tools, range equipment and precision instruments. Made from nearly indestructible molded polymer resin. Dent, rust and corrosion proof; water-tight, O ring seals keep dust and moisture out. Features four, removable drawers and a flat work surface. Front door has six, open, storage compartments, one is lockable. Corrosion-resistant, stainless steel latch and hinge pins, plus two padlock attaching points help keep tools secure. Protective ears surround the snap latches, plus spring-loaded latch pins prevent accidental opening. Two, spring-loaded, padded, steel handles always lay flat. Easy rolling wheels and retractable handle take the load off your arm, provides faster, easier carry for heavy loads. Used by the military to protect sensitive missile repair tools, meets mil-spec MIL-C-4150 and ATA specifications. Also available are foam drawer inserts with pre-cut spaces for the M4 tools of our Premium AR-15 Armorer's Kit.

SPECS: Polymer resin, black or OD Green. 24" (61cm) wide, 18" (45.7cm) high, 15" (38.1cm) deep. Drawers - 21 1/2" (54.6cm) long, 10 1/4" (27.3cm) wide, 2 1/8" (5.4cm) deep. Top Tray - 22 1/4" (56.5cm) long, 12 1/4" (31.1cm) wide, 2 1/8" (6cm) deep. 38 lb. wt. Drawer Inserts - Six, pre-cut foam rubber inserts, grey.

#636-000-003AQ Mil-Spec Tool Box, Black, 6C429F99..... \$499.99

#636-000-008AQ Mil-Spec Tool Box, OD Green, 6C429F99..... 499.99

#080-000-988AQ Tool Box Foam Inserts, 8K73P61..... 84.99



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 1/2" wide x 8 1/2" deep x 13 1/2" high.

#480-500-520AQ No. 520 Chest, 8D275F00..... \$369.99

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

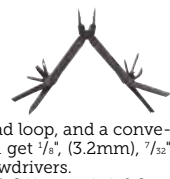
SPECS: 26 1/2" wide x 8 1/2" deep x 18" high.

#480-526-110AQ No. 52611 Chest, 8D419L99..... \$589.99

SUPER TOOL® 300 - Gives you 19 tools in one with replaceable, heavy-duty hard wire cutters in the plier jaws, separate 3 1/2" (8.1cm) long clip-point and serrated sheepsfoot knife blades, stranded wire cutters, Phillips drivers, wood/metal file, 9" (22cm) fold-open ruler, awl with thread loop, and a convenient swing-out lanyard loop. Plus, you get 1/8", (3.2mm), 7/16" (5.6mm), and 3/16" (7.9mm) flat-blade screwdrivers.

SPECS: 4 1/2" (11.4 cm) OAL folded, 7" (17.8cm) OAL extended. 9.6 oz. (272g) weight.

#525-000-003AQ Super Tool 300, 5B74B49..... \$89.99



BROWNELLS MULTI-VISE™

Easily Adaptable & Versatile,
Quality Construction
That Lasts and Lasts

Don't adjust jobs to your vise; adjust your Multi-Vise™ to the job. Multi-Vise adjusts in every direction a job can take you...position it horizontally, vertically, and rotate it 360° in a horizontal plane. Multi-Vise adapts to nearly any job; drilling, filing, stock work, soldering, sanding, and the holding of darn near anything.

The highest quality U.S. materials and craftsmanship go into producing the Multi-Vise. The body is constructed of tough, 50,000 psi tensile strength, ductile, iron, which makes it last and last. You won't have to tighten or loosen extra clamps when you turn Multi-Vise on its side or rotate it back and forth, because the convenient cam locking system automatically locks the Multi-Vise in position when you tighten the jaws. Precision-machined, smooth, jaw faces combine firm pressure with a gentle finesse to securely hold metal, wood, or plastic. The 4140, chrome-moly-steel, nickel-plated, rust-resistant lead screw turns effortlessly.

Multi-Vise, the most versatile vise ever offered to professional gunsmiths and home hobbyists, is also backed by Brownells 100% satisfaction guarantee. Upgrade to the Multi-Vise today...your jobs will be easier tomorrow!

SPECS: Cast iron body, precision-machined, green paint. Jaws are 3 1/2" (9.0cm) x 2 1/2" (6.3cm), opens to 5" (12.7cm). 1 1/4" (4.4cm) square anvil. 18 lb. (8kg) wt.

#080-000-019AQ Multi-Vise, Complete, 8K279I99... \$299.99



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 guides along the vise screw with exceptional smoothness for precise tension control. Heavy duty base with steel clamping screw and T-handle make the Bisley vise extremely solid, portable and quick to mount and remove on work platforms from 1 to 2 1/2" thick.

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

#950-000-003AQ Bisley Gunsmithing Vise, 5Z216Q75..... \$274.99



PANA-VISE®

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

Holds work in any imaginable position, rotating thru 360°, tilting 180°. Head and base are separate parts so the same head can be used on all of the bases.



PANA-VISE HEADS

NO. 303 HEAD - has heavy-duty adjusting screw, brass bushing, double steel guide pins.

SPECS: Nylon jaws are 2 1/2" (6.35cm) wide, open to 2 1/4" (5.39cm) with throat of 15/16" (2.42mm).

#695-303-000AQ No. 303 Head, only, 5F27H99..... \$27.99

NO. 366 HEAD - opens to a full 6" (15.2cm). Micro adjustable, steel jaw plates. Removable, molded, neoprene pads.

SPECS: Jaws are 1 1/4" (4.4cm) wide.

#695-366-000AQ No. 366 Head, only, 5F42G99..... \$42.99

NO. 437 HEAVY DUTY HEAD - slotted flat plate provides a mounting surface for heavy objects, fits the **NO. 400 Base only**.

SPECS: Cast aluminum, 3" x 6" (7.6cm x 15.2cm), 1" dia. x 3.25" long (2.5cm x 8.3cm) shaft.

#695-437-000AQ No. 437 Head, only, 5F21Q99..... \$21.99

PANA-VISE BASES

Variable load control knob gives full range of adjustments.

NO. 300 BASE - is the original screw-down, bench-top base.

SPECS: 4 1/2" (11.4cm) bottom diameter. 3 1/4" (8.8cm) high.

#695-300-000AQ No. 300 Base, only, 5F24H99..... \$24.99

NO. 380 VACUUM BASE - Flip-lever controls suction; sets and releases easily. Grips any smooth, non-porous surface.

SPECS: 4 1/2" (10.7cm) x 5" (12.7cm) at bottom; 3 1/2" (8.9cm) to top of ball. 6 1/4" (15.8cm) high overall.

#695-380-000AQ No. 380 Base, only, 5F39P99..... \$39.99

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

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

#695-400-000AQ No. 400 Base, only, 5F42C99..... \$42.99

#695-303-308AQ PanaVise Combo, No. 303 Head and No. 380 Vacuum Base, 5F67D98..... 67.98

#695-303-343AQ No. 343 Nylon Jaws, 5F2K99..... 2.99

#695-303-353AQ No. 353 Steel Jaws, 5F9B99..... 9.99

BERRY'S MANUFACTURING GUNSMITH'S VERSACRADLE

Rotates For Unlimited
Access When Working
On Firearms



Unique gun vise adjusts in almost unlimited directions for easy access when working on your rifle or shotgun. Ball joint swivel allows smooth rotation horizontally, vertically, and 360° in a horizontal plane; with a locking lever to hold the position. Two, leather padded clamps with hook-and-loop fasteners provide a firm, non-slip grip on metal, wood, or plastic. Clamps are independently length adjustable for a precise fit on any length firearm. Aluminum base with adjustable swing-arm adapts to a wide variety of workbenches. Base is hardcoat anodized for durability.

SPECS: Base - Aluminum, black, matte. Clamping Frame - Aluminum, natural finish. 20" (51cm) long, 16" (40.6cm) wide, 12 1/2" (31.7cm) high.

#100-003-772AQ Gunsmith's Versacradle, 1C199D99..... \$225.99

order on the web

brownells.com

Orders/Tech: 800-741-0015

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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 re-clamp to change its position because the swivel mechanism allows the entire jaw assembly to rotate 360° horizontally and tilt up to 28° from vertical. Jaw tightening handle and swivel locking handle can be removed if necessary to provide maximum freedom of access to work piece. Rugged machined steel swivel mechanism with case-hardened jaws; cast aluminum base is drilled for bolting to benchtop. Accepts items up to 1" wide. **SPECS:** Steel, black oxide finish, with cast aluminum base. Approximately 5 1/4" (13.3cm) overall height.

#319-000-005AQ Swiv-O-Ling Vise, 9A59H69 \$ 77.99



LYMAN REVOLUTION ROTATING GUN VISE

**Provides Secure, Easy Access
For Working On Firearms**

Innovative gun vise angles 45° left- or right-of-center for easy access when working on your rifle, shotgun or handgun. Adjustable, rubber padded vise secures the buttstock end, and when combined with the wrap-around forearm support provides a firm, non-slip grip. Aluminum tube-frame construction with open bottom and removable parts tray provides complete protection from dripping solvents and bedding. Vise and forearm supports are independently length adjustable for a custom fit with any firearm. Convenient slots hold cleaning rods and keeps them out of the way.

SPECS: Frame - Aluminum, polished finish. Vise/Forearm Clamp - Polymer, rubber pad. 36" (91.4cm) long, 15 1/2" (40cm) wide, 11 1/2" (29.2cm) high.

#539-000-017AQ Rotating Gun Vise, 5K89P00 \$ 95.99



PALMGREN

DRILL PRESS VISES

**Precision, American-Made;
Add Versatility To Drill Presses**

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

SPECS: #120 - 4 1/2" (11.1cm) long. Jaw: 1 1/2" (3.8cm) wide, 1 1/2" opening. #320 - 8" (20.3cm) long. Jaw: 3" (7.6cm) wide, 3" opening.

#178-150-120AQ #120 Drill Press Vise, 8G86A00 \$ 86.00

#178-150-320AQ #320 Drill Press Vise, 8G121G99 121.99

LEATHER VISE JAW PADS

**Used To Protect Guns In Vises
Since Year One**

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

SPECS: 4" (10.2cm) x 6 1/2" (16.5cm), 9-10 oz. Sold in pairs.

#413-001-002AQ Leather Vise Pads, 3Z9N95 \$ 9.95



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.

#912-361-005AQ #005 Toolmakers Clamp, 5F1Q22 \$ 12.99

#912-362-010AQ #010 Toolmakers Clamp, 5F15E00... 15.00

#912-363-015AQ #015 Toolmakers Clamp, 5F21J61... 21.99

"V" BLOCKS

**Time & Time Again,
Makes Possible The Impossible**

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

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

#973-340-463AQ 116 V-Block, 9D39H99 \$ 46.99



BROWNELLS

ELASTOMER PAD FOR MULTI-VISE™

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

The perfect addition to your Brownells Multi-Vise, these pads are made of space-age elastomers that "grip" the work piece securely without any slipping, marring, or staining. Pad material

was developed for missile launch tube liners, so it's really tough, does not readily impregnate and will give years of service. Plus, the pads are permanently bonded to an aluminum plate that is pre-cut to fit your Multi-Vise. Red pads are for use on wood, plastic, or other soft materials; Blue pads are for metals and other hard materials. Sold in pairs only.

SPECS: Elastomer pad, aluminum plate. Pad: 2" (5.1cm) high x 4" (10.2cm) wide x 3/8" (9.5mm) thick. Plate: 4 1/2" (12.4cm) high x 4" wide x 1/4" (6.3mm) thick. Sold in pairs only. Minor fitting may be required.

#080-000-364AQ Multi-Vise Jaw Pads, Red, 2E67B99 \$ 67.99

#080-000-365AQ Multi-Vise Jaw Pads, Blue, 2E67H99 67.99

BROWNELLS

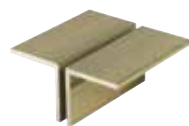
RUBBER-FACED VISE JAWS

**Protects Delicate Or
Polished Parts From Damage**

Will not mark or scratch expensive or delicate firearm parts, but holds them firmly without damage. Durable, nylon-reinforced rubber is permanently bonded to lightweight aluminum, replaceable jaws. Wide retaining lip with nitrile magnet on the underside keeps jaws in place; drops right onto any 4", 5" or 6" steel bench vise and stays put.

SPECS: Aluminum jaws, rubber face. 4" (10cm) long, 1/2" (9.5mm) thick, 1 1/2" (3.8cm) wide face.

#080-827-000AQ Rubber-Faced Vise Jaws, 8K18M96 \$ 28.99



BROWNELLS

BRONZE VISE JAWS

**Where Powerful No-Mar Gripping
Is A Must**

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

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

#080-019-003AQ 3" Bronze Vise Jaws, pr, 5L16H48... \$ 21.99

#080-020-004AQ 4" Bronze Vise Jaws, pr, 5L20N99... 29.97

#080-021-012AQ 12" Bronze Vise Jaws, 1-pc, 5L24P55 29.97

BROWNELLS LEAD VISE JAW FACES

**Soft, Tight Gripping,
Easily Fitted To Any Vise Jaws**

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

SPECS: 3/16" (1.2mm) thick. 2" (5.1cm) x 4" (10.2cm) or 3" (7.5cm) x 4" (10.2cm).

#084-010-424AQ 2" x 4" Lead Sheets, 4, 5L12E44 \$ 16.95

#084-011-434AQ 3" x 4" Lead Sheets, 4, 5L15L01 22.95



M16 CLINIC VISE PADS

**For A Tight Hold Without Damage;
Simple, Stick-On Installation**

High-strength, polymer vise pads allow a firm grip on valuable firearms and small, hard-to-hold parts without marring or scraping. Peel-n-stick adhesive backing provides a tight hold on vise jaws, pliers and other tools. Extra thick for a tight grasp on the work piece without damaging its surface. Polymer construction resists most solvents.

Large fits vise jaws up to 6" long. **Small** works well on pliers or other small tools.

SPECS: Polymer, white. Adhesive backing. Large - 6" (15.2cm) long, 2" (5.1cm) wide, 1/8" (3.2cm) thick. Small - 2 1/4" (7cm) long, 1" (2.5cm) wide, 1/8" thick.

#100-004-261AQ Small Vise Pads, 6K3P55 \$ 4.99

#100-004-260AQ Large Vise Pads, 6K7K98 11.99

SUPER-HOLD VISE JAW PADS

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

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

SPECS: 4" Pad: 2" (5.1cm) high x 4" (10.2cm) wide x 3/8" (9.5mm) thick. Aluminum Plate: 1/2" (6.3mm) thick x 5" (12.7cm) high x 4" (10.2cm) wide.

5" Pad: 2 1/2" 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.

#852-002-100AQ 4" Red Super Hold Pads, 2E49N99... \$ 49.99

#852-002-200AQ 4" Blue Super Hold Pads, 2E49F99... 49.99

#852-000-001AQ 5" Red Super Hold Pads, 2E61P99... 61.99

#852-000-002AQ 5" Blue Super Hold Pads, 2E61H99... 61.99



WAGNER INDUSTRIES MAGNETIC SOFT JAWS

Get A Grip On Your Guns



Soft, yet extremely rigid, polyurethane vise jaws fit comfortably in a 4" or 5" vise and are held in place by embedded magnets. Non-slip surface grips precious firearms firmly without crushing, marring, or scratching.

Top "lip" fits the top of your vise jaws adding two inches to allow extra protection and more work area. Surface resists oils and wipes clean. Each set comes with a separate polyurethane cover for vise screws or anvils so you can be absolutely sure that no part of your guns or tools will come in contact with the vise. **Channeled** soft jaws have all the same features as the Standard version with the addition of machined vertical and horizontal channels with 3/8" radius for an improved grip on contoured parts such as barrels and actions.

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

#100-002-397AQ Standard Soft Jaws, 4A39Q99 \$ 39.99

#100-003-410AQ Channeled Soft Jaws, 4A48Q99 48.99

BROWNELLS HANDI CLAMP

**Far Tighter Grip Than Your
Fingers For Holding Small Parts**

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

SPECS: Steel, chrome finish. 3 1/2" (8.2cm) O.A.L. 1 1/2" (3.8cm) reach. 3/8" (4.8mm) opening. Rubber pads - 3/8" (14.2mm) dia.

#080-945-016AQ Handi Clamp, 8K7N43 \$ 9.99



TRACK OF THE WOLF MAINSRING VISE

Compresses "V" Springs Effortlessly

New improved design makes it much easier to compress tough mainsprings with two rotating, adjustable jaws that compress 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.

#870-000-001AQ Mainspring Vise, 7H19M99 \$ 21.99



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.

#080-000-316AQ Screw Head Polishing/Pin Vise, 6A16N99 \$ 22.99



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: 3¹/₁₆" (9.4cm) long, 1/2" (12.7mm) diameter. Adjusts from .0" to .125" (3.2mm).

#345-090-000AQ Pin Vise No. 90, 5D15B49..... \$ 15.49

BROWNELLS BENCH/FIELD GUN MAT



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

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

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

#084-280-001AQ #1 Roll-Up Gun Mat, 4H9D99..... \$ 14.99

#084-280-002AQ #2 Roll-Up Gun Mat, 4H20D56..... 26.99

BROWNELLS RANGE/BENCH GUN MAT

Compact, Cushioned
Mat Protects
Your Guns From
Scratches & Dings



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

SPECS: Neoprene rubber with nylon facing, black. 16¹/₂" (41.8cm) long, 8¹/₄" (22.2cm) wide, 7/8" (2.7mm) thick.

#084-000-228AQ Range/Bench Neoprene Gun Mat, 8F9G99..... \$ 9.99

BROWNELLS LEATHER GUN MAT

Gives A Tough, Leather Work
Surface Anywhere You Go



Cut from 1/8" thick, genuine cowhide for superior strength and puncture-resistance, yet supple enough to roll up and tie off. Just the right size for clean-

DRYMATE® GUN CLEANING PAD

Protects Guns
From Scratches
During Cleaning & Repair



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

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

#100-004-360AQ Small Gun Cleaning Pad, 6C4H99... \$ 5.99

#100-004-359AQ Large Gun Cleaning Pad, 6C7J99... 9.99

OTIS GUN CLEANING MAT

Lightweight, Roll Up Mat
Protects Guns From Scratches



Large, waterproof neoprene mat covers the top of your workbench to protect your gun's finish during cleaning, maintenance, or more extensive work. Stays put, so it's great for the reloading bench, the shooting bench, or even on the tailgate of

your pickup at the range. Use as a seat in the woods or kneel on it while cleaning game. Rolls up easily for storage.

SPECS: Neoprene rubber, black. 36¹/₂" (92.0cm) long, 17¹/₂" (45.0cm) wide, 3/8" (4.8cm) thick.

#668-000-099AQ Gun Cleaning Mat, 8F14E69..... \$ 16.99

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:** 17¹/₂" (44.4cm) long, 12" (30.5cm) wide, 3/8" (4.7mm) thick. **Large Mat:** 36" (91.4cm) long, 24" (60.9cm) wide, 1/2" (3.1mm) thick. Weighs 1¹/₂ lbs. (680 g).

#358-128-316AQ Assy/Disassy Mat, 8E18N99..... \$ 22.99

#358-128-416AQ Large Mat, 8E42A08..... 49.99

ing, 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 into the leather.

SPECS: Cowhide, light brown. 15¹/₂" (40cm) long x 12" (30.5cm) wide.

#084-000-125AQ Leather Gun Mat, 2E19B45..... \$ 24.95

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 11¹/₄" (29.8cm).

#164-800-000AQ Master Mat, 4F39Q99..... \$ 39.99

TEK MAT GUN MATS



Protective Mats Feature Handy Schematics
Of Popular Guns

Thick, flexible work mats protect your gun against scratches and pad your workbench or table while serving as a handy reference for disassembly and assembly. **Long Gun mats** are 36" long and 11¹/₄" wide. **Handgun mats** are 17" long and 11" wide. Choose gun model below. AR-15 mats available in black, OD Green and Gray.

#100-015-986AQ Ruger 10-22 Gun Mat, 2D19D00... \$ 24.99

#100-015-988AQ AK-47 Gun Mat, 2D19H00..... 24.99

#100-015-992AQ M14/M1A Gun Mat, 2D19B00.... 24.99

#100-015-993AQ M1 Garand Gun Mat, 2D19E00.... 24.99

#100-015-994AQ Remington 700 Gun Mat, 2D19A00... 24.99

#100-015-995AQ Remington 870, 2D19I00..... 24.99

#100-015-989AQ Black AR-15 Gun Mat, 2D19D00... 24.99

#100-015-990AQ OD Green AR-15 Mat, 2D19D00.... 24.99

#100-015-991AQ Gray AR-15 Mat, 2D19C00..... 24.99

#100-016-002AQ 1911 Mat, 2D10B00..... 13.99

#100-015-996AQ Beretta 92 Gun Mat, 2D10P00.... 13.99

#100-015-997AQ Glock Gun Mat, 2D10B00..... 13.99

#100-015-998AQ Ruger MK III Gun Mat, 2D10C00... 13.99

#100-015-999AQ Sig Sauer 229 Gun Mat, 2D10A00..... 13.99

#100-016-000AQ S&W M&P Gun Mat, 2D10N00.... 13.99

#100-016-001AQ Springfield XD Gun Mat, 2D10L00... 13.99



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

BROWNELLS

EXTRA-LARGE BENCH BLOCKS

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



Rifle



Pistol

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

SPECS: Polyethylene, green or blue. 4" (10cm) diameter, 1¹/₂" (2.8cm) high.

#080-000-492AQ Rifle Bench Block, 8D19H99..... \$ 19.99

#080-000-493AQ Blue Pistol Bench Block, 8D19G99... 19.99

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. 2¹/₄" (6.7cm) diameter. 1¹/₂" (3.8cm) high. 1¹/₂ lb. (503 g).

#080-632-000AQ Steel Bench Block, 8K33F08..... \$ 41.99

NYLON - Totally Non-Marring

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

SPECS: 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). "V" groove.

#928-100-000AQ Nylon Bench Block, 8K18F51..... \$ 21.99

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 1¹/₈" (4.3cm) high.

#080-000-252AQ AR-15 Front Sight Bench Block, 8D33P13..... \$ 39.99

#080-001-156AQ Front Sight Housing Maintenance Kit, 8K53D00..... 64.99

NEW!

BROWNELLS PREMIUM ROLL PIN PUNCHES



Easily Remove & Install Roll Pins Without Damage

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

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

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

- #080-001-083AQ Premium Roll Pin Punch Kit, 8K29K00 \$34.99
- #080-001-068AQ 1/16" Premium Roll Pin Punch, 8K4L80 5.99
- #080-001-069AQ 3/16" Premium Roll Pin Punch, 8K4D80 5.99
- #080-001-070AQ 1/8" Premium Roll Pin Punch, 8K4H80 5.99
- #080-001-071AQ 1/4" Premium Roll Pin Punch, 8K4C80 5.99
- #080-001-072AQ 3/8" Premium Roll Pin Punch, 8K4E80 5.99
- #080-001-073AQ 1/2" Premium Roll Pin Punch, 8K4F80 5.99
- #080-001-074AQ 5/8" Premium Roll Pin Punch, 8K4M80 5.99

NEW!

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", 1/8", 3/16", 1/4", 3/8", 1/2", and 5/8" diameter punches.

- #080-001-082AQ Premium Roll Pin Starter Punch Set, 8K25A00 \$31.99
- #080-001-075AQ 1/16" Roll Pin Punch, 8K4D29 5.79
- #080-001-076AQ 3/16" Roll Pin Punch, 8K4L29 5.79
- #080-001-077AQ 1/8" Roll Pin Punch, 8K4D29 5.79
- #080-001-078AQ 1/4" Roll Pin Punch, 8K4P29 5.79
- #080-001-079AQ 3/8" Roll Pin Punch, 8K4A29 5.79
- #080-001-080AQ 1/2" Roll Pin Punch, 8K4A29 5.79
- #080-001-081AQ 5/8" Roll Pin Punch, 8K4A29 5.79

NO HANDLING CHARGE • NO MINIMUM ORDER ONE-RATE SHIPPING ANYWHERE IN THE U.S.

NEW!

BROWNELLS PREMIUM ROLL PIN HOLDERS



Prevents Flattening Roll Pin Tip

Five piece set contains the most commonly used holders to accurately align roll pins during removal or installation. Set contains 1/16", 1/8", 3/16", 1/4", and 3.5mm roll pin holders. The 1/16" holder is notched to clear AR-15/M16 rear sights. The 3.5mm is ideal for holding the breech block retaining pin on Sig handguns. Each holder is made from 5160 heat treated bainite steel for strength. Holders are available as a set or individually.

SPECS: 5160 steel, heat treated. 3/16" (7.9mm) wide hex handle.

- #080-001-132AQ Premium Roll Pin Holder Set, 8K26P00 \$31.99
- #080-001-133AQ 1/16" Diameter Roll Pin Holder, 8K6F00 7.99
- #080-001-134AQ 1/8" Diameter Roll Pin Holder, 8K6J00 7.99
- #080-001-135AQ 3/16" Diameter Roll Pin Holder, 8K6G00 7.99
- #080-001-136AQ 1/4" Diameter Roll Pin Holder, 8K6B00 7.99
- #080-001-137AQ 3.5mm Diameter Roll Pin Holder, 8K6A00 7.99

BROWNELLS GUNSMITH'S PUNCH & NEEDLE FILE BLOCK

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



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

SPECS: 15" (38.1cm) long, 3" (7.6cm) wide, 2 1/4" (5.7cm) high. 12 holes 1/16" (1.1mm) diameter; 16 holes 3/16" (7.1mm) diameter; 12 holes 1/8" (4.8mm) diameter. All holes 1 1/4" (3.2cm) deep.

- #084-305-101AQ Punch & Needle File Block, 4H40I18 \$47.99



BROWNELLS GUNSMITH PROFESSIONAL PUNCH SET



Best Material - Quality Machined & Priced For You

Excellent All-Around Selection Chosen Specifically For Gun Work

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

SPECS: 4" (10.2cm) lg. 1/4" (6.3mm) or 3/16" (8mm) dia. handles.

- #080-553-000AQ Pro Punch Set, 8K37B64 \$49.99

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 3/16" (7.9mm) diameter. **Alignment Punches** - Contains (1) of each diameter: .070" (1.8mm) to .156" (4.0mm); .110" (2.8mm) to .187" (4.7mm); .150" (3.8mm) to .219" (5.6mm). Taper length: 2 1/2" (6.3cm) to 3" (7.6cm). **Mini Punches** - Contains (1) of each diameter: 1/16" (1.6mm), 1/8" (2mm), 3/16" (2.4mm), 1/4" (7cm) long. **Starter Punches** - Contains (1) of each diameter: 1/16", 1/8", 3/16", 1/4", 3/8" (3.2mm), 1/2" long. **Prick Punch** - Contains (1), 1/16" x 4" long. **Center Punch** - Contains (1), 1/16" x 4" long. **Pin Punches** - Contains (1) of each diameter: 1/16", 1/8", 3/16", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1" (11.4cm) long, 1/8" x 4 1/2" (12.1cm) long, 3/16" (4mm) x 5" (12.7cm) long. **Bench Block - Delrin**, tan. 8" (20cm) long, 3" wide, 1/4" (1.9cm) high. Holds all 20 punches.

- #080-000-653AQ Pin Punch Set, 8K96I00 \$105.99
- #080-000-652AQ Bench Block, only, 8K7C73 9.99

BROWNELLS BRASS PUNCH SET



For Driving Roll Pins, Sights & Solid Pins

Precision machined, non-marring brass punches drift sights and drive pins without risk of damage to the sight, pin, or firearm. We combined 20 of our most popular non-marring brass punches, added a compact bench block and came up with a great addition for the work bench. Features (4) starter punches, (8) roll pin punches, and (8) standard punches for a variety of different jobs. Delrin® bench block holds and organizes all 20 punches for easy access, plus is resistant to most solvents. Starter punches are used to start the removal of steel or alumi-

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

- #080-000-569AQ Master Punch Set, 8K106G50 \$109.99

TOLL FREE: 800-741-0015

num 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), 3/16" (2.4mm), 1/8" (3.2mm), 1/4" (4mm). **Roll Pin Punches** - Contains (1) of each diameter: 1/16", 1/8", 3/16", 1/4", 3/8", 1/2" (4.8mm), 5/8" (5.6mm), 3/4" (6.4mm), 7/8" (7.9mm). Working length: 3/16" (7.9mm) - 1 1/2" (2.8cm) long. **Standard Punches** - Contains (1) of each diameter: 1/16", 1/8", 3/16", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1" (11.4cm) long, 1/8" x 4 1/2" (12.1cm) long, 3/16" (4mm) x 5" (12.7cm) long. **Bench Block - Delrin**, tan. 6 1/2" (16cm) long, 3" (7.6cm) wide, 1/4" (1.9cm) high. Holds 20 punches. Bench block included in set, also available separately.

- #080-000-649AQ Brass Punch Set, 8K95C00 \$119.99
- #080-000-648AQ Bench Block, only, 8K7A73 9.99

GRACE BRASS PUNCH SET



Non-Marring, Precision-Machined To Fit Common Pin Sizes

For drifting sights, driving pins or fitting parts when marking or scratching the surface can mean the difference between a job well done and disaster. Machined from premium, brass hex. **Punch Set** includes 8 flathead, long shaft punches for driving pins completely out. **Roll Pin Punch Set** includes 8 roll pin punches with cupped ends that fit around roll pins without drifting off. **Starter Punch Set** includes 4 flathead, tapered punches for drifting sights and driving pins flush. Includes plastic storage pouch for easy access. Punches also available separately.

SPECS: Brass, 1/16" (7.9mm) hex stock. **Punch Set/Roll Pin Punch Set - 8 punches:** 1/16", 3/32", 1/8", 5/32", 3/16", 1/2", 3/4", 5/16" dia. **Starter Punch Set - 4 punches:** 1/16", 3/32", 1/8", 5/32" dia.

LONG SHAFT PUNCHES

STOCK #	SIZE	STOCK #	SIZE
#354-100-062AQ	1/16" (1.6mm)	#354-100-187AQ	3/16" (4.8mm)
#354-100-093AQ	3/32" (2.4mm)	#354-100-218AQ	1/2" (5.3mm)
#354-100-125AQ	1/8" (3.2mm)	#354-100-250AQ	3/4" (6.4mm)
#354-100-156AQ	3/16" (4mm)	#354-100-312AQ	5/16" (7.9mm)

— Advise # — **Long Shaft Punch**, each, 4E5M94 . . . \$ 7.99

STARTER PUNCHES

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

— Advise # — **Starter Punch**, each, 4E5I78 \$ 6.94

ROLL PIN PUNCHES

STOCK #	SIZE	STOCK #	SIZE
#354-000-012AQ	1/16" (1.6mm)	#354-000-015AQ	3/16" (4mm)
#354-000-013AQ	3/32" (2.4mm)	#354-000-018AQ	1/4" (6.4mm)
#354-000-014AQ	1/8" (3.2mm)	#354-000-019AQ	5/16" (7.9mm)

— Advise # — **Roll Pin Punch**, each, 4E5P00 \$ 5.99
#354-100-000AQ Punch Set, 8 pc, 4E30L00 \$ 33.99
#354-000-006AQ Starter Punch Set, 4 pc, 4E16L00 19.99
#354-000-011AQ Roll Pin Punch Set, 8 pc, 4E28D60 33.99



MASEN BRASS HAMMER & PUNCH SET

Complete, Economical Set For Bench Or Field

The right punches for most firearms applications. Virgin brass punches and brass hammer won't mark most blued steel. Tempered steel punches stand up to hardened steel pins. Nylon drift punches move softer, sight housing alloys.

SPECS: Includes (8) 3 1/4" (8.2cm) long brass punches, (2) 3" (7.6cm) long steel punches, (2) 3" long nylon punches, 1/2" diameter, 2 oz. and hammer in a black, nylon-plastic bench box. Sizes may vary.

#555-500-000AQ Brass Punch Set, 6E28B24 \$ 31.99

LYMAN

DELUXE PUNCH SETS

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

Compact set of punches, with hammer, stores in its own bench block for quick access. Combination brass/nylon hammer has machine knurled handle for positive grip.

SPECS: 4130 steel punches. Set includes 1/16" (1.5mm), 3/32" (2.3mm), 1/8" (3.1mm), 5/32" (3.9mm), 3/16" (4.7mm) diameter pin punches, 1/16" center punch, 3/16" diameter brass drift. Brass/nylon face hammer, 8" (20cm) overall length, hardwood storage block.

#539-703-129AQ Deluxe Hmr/Punch Set, 5K14M09 . . . \$ 49.99



ROLL PIN PUNCH SET

Remove and replace hollow split roll pins easily and safely using these special-built round-nose punches. The round tip locks into the pin to keep the punch from slipping and damaging receivers, trigger assemblies, and other fragile mechanisms. Machined knurling also helps you maintain a secure grip and retain control of the punch. Made of through-hardened 4140 steel for maximum strength and years of dependable service.

SPECS: 4140 chrome-moly steel. Set of 4 punches, approximately 4" (10.2cm) long, in 1/16" (1.6mm), 3/32" (2.4mm), 1/8" (3.2mm), and 3/16" (4mm) diameters.

#539-000-018AQ Roll Pin Punch Set, 5K14K36 \$ 16.99

PUNCH SET

Five, precision-machined gunsmith punches equip you to handle a wide variety of disassembly and reassembly jobs. Non-tapered, with a flat tip for removing solid pins—excellent for drifting sight pins in and out. Kit includes four, steel punches through-hardened for excellent strength and a non-marring brass drift punch for jobs where the gun's finish must be protected. Knurled handles ensure a firm grip to prevent slippage that can lead to accidental marring of the gun's finish.

SPECS: Pin punches - 4140 chrome-moly steel. 1/16", 3/32", 1/8", 3/16" diameters. 3 1/2" to 4 1/2" OAL. Drift punch - Brass. 1/16" (4.8cm) diameter. 3 1/4" (8.3cm) OAL.

#539-000-019AQ Pistol Punch Set, 5K14E36 \$ 16.99

TOP DEAD CENTER PUNCH



Positive Centering For Sight Installation

A rugged, foolproof tool to end the problems of off-center-work that come from trying to "eyeball" Top Dead Center on gun barrels or other round stock. Just level and plumb the rifle on the drill press, place TDC on barrel or receiver, level bubble and tap punch. Punch mark is Top Dead Center. Shockproof level.

SPECS: Body - 1 5/16" (23.8mm) x 1 1/2" (3.8mm) x 1" (2.5cm), aluminum. Punch - 1/4" (6.3mm) diameter tool steel. **Locating Rod** - 5 1/2" (14cm) long.

#871-100-000AQ Top Dead Center Punch, 1G37I27 . . . \$ 37.99

BROWNELLS

ALIGNMENT & PUSH PUNCHES

Use to Align Parts, Start Pins, Assembly/Disassembly

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

SPECS: Handle - Plastic. Shank - Unhardened steel drill rod, or 360 alloy brass. 3 1/2" (8.2cm) long. OAL - 4 1/2" (12.1cm) long. **Alignment/ Push Punch Set** - Contains (4) brass and (4) steel punches, (1) brass and (1) steel of each diameter: .092" (2.3mm), .120" (3mm), .151" (3.8mm), and .246" (6.2mm).

Bench Block - Delrin, tan. 6 1/8" (16cm) long, 3" (7.6cm) wide, 1/4" (1.9cm) high. Holds 8 punches.

STK# STEEL	STK# BRASS	DIAMETER	PRICE
#080-000-029AQ	#080-000-024AQ	.092"	8K6L97 \$ 8.99
#080-000-030AQ	#080-000-025AQ	.120"	8K6L97 \$ 8.99
#080-000-031AQ	#080-000-026AQ	.151"	8K6L97 \$ 8.99
#080-000-032AQ	#080-000-027AQ	.246"	8K6L97 \$ 8.99

- #080-000-034AQ Set Of Four Steel Punches, 8K27L07 31.99
- #080-000-028AQ Set Of Four Brass Punches, 8K26D84 32.99
- #080-000-647AQ Alignment/ Push Punch Set, 8K50F00 60.95
- #080-000-646AQ Bench Block, only, 8K6D94 8.99

BROWNELLS

HOLE CENTER PUNCHES



Use Sights, Ribs Or Bases As Their Own Drill Guide

Three special Center Punches with outside diameters (O.D.) that match the clearance drill size of the most popular sight, rib and scope base mounting screws. Ground, parallel sided punches reach through even the thickest handgun rib. Ends guesswork and center-to-center spacing problems. To Use: Level gun in vise or scope mounting jig, position and level sight, rib or base, and clamp in place. Place correct size punch in hole and lightly tap with a 4-oz. hammer. Remove base, drill and tap first hole; re-install base and check positioning. If everything is "square", re-clamp and finish other holes.

SPECS: 2 1/8" (7cm) long. 1/4" (6.3cm) diameter knurled handle. Hardened, tool steel.

- #080-732-006AQ #6 Hole Center Punch, 8K6G94 \$ 8.99
- #080-732-008AQ #8 Hole Center Punch, 8K6P94 8.99
- #080-732-010AQ #10 Hole Center Punch, 8K6K94 8.99
- #080-732-000AQ Hole Center Punch Set, 8K17I98 21.99



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 3/16" diameter tips (one Nylon, one Brass) and one Handle. **4-Way Set** includes four Handles, one 3/16" Nylon Tip; plus one each, 3/16", 1/4" and 5/16" diameter Brass Tips. **6-Way Set** adds 1/4" and 3/16" diameter, Aluminum Tips and 2 more handles to the 4-Way Set. **SPECS:** Handle 3" (7.6cm) long x 3/8" (9.5mm) diameter. **Tips** are 1 1/4" (3.2cm) long.

- #080-475-001AQ Nylon Punch Tip, 8K2C83 \$ 3.39
- #080-475-002AQ 3/16" Brass Punch Tip, 8K2L93 3.49
- #080-475-003AQ 1/4" Brass Punch Tip, 8K3Q62 4.99
- #080-475-004AQ 3/16" Brass Punch Tip, 8K2H82 3.39
- #080-475-005AQ 1/4" Alum Punch Tip, 8K3Q70 4.49
- #080-475-006AQ 3/16" Alum Punch Tip, 8K3M86 4.99
- #080-000-209AQ Rem. Shotgun Punch, 8K4D03 4.99
- #080-475-000AQ Basic N/B Punch Set, 8K5P79 6.99
- #080-475-100AQ 4-Way N/B Punch Set, 8K15C76 18.99
- #080-475-106AQ 6-Way Punch Set, 8K18Q00 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. 1/16" (7.9mm) diameter. Polyenco Nylon. Sold in a set of 3.

#080-478-000AQ Set of 3 Nylon Front Sight Punches, 8K4Q22 \$ 4.99

BROWNELLS

GUNSMITH'S ALIGNMENT PINS

The CURE For Some Tough Assembly Jobs

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

- #080-645-000AQ Alignment Pin Set, 7D14M68 \$ 18.99
- #080-645-007AQ Small Alignment Pin, 8K6F97 9.99
- #080-645-011AQ Medium Alignment Pin, 8K7I21 9.99

BROWNELLS® WEB BENCH™
 Your Internet Gunsmithing Newsletter! Sign-up at brownells.com

BROWNELLS CUP TIP PUNCHES



Prevent Those Beautiful Round-Headed Pins From Flat-Topping

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

SPECS: Punches - Steel, 3/16" (7.9mm) wide hex handle. Long - 3 1/4" (9.5cm) overall w/ 1/4" (19.0mm) tip. Short - 3 1/4" (8.6cm) overall w/ 3/16" (9.5mm) tip. 3/16" (7.9mm) hex handles. Bench Block - Delrin, tan. 8" (20cm) long, 3" (7.6cm) wide, 1 1/4" (1.9cm) high. Holds all 8 punches. **Set A** contains (1) of each punch #1, #2 and #3. **Set B** contains (1) of each punch #4, #5 and #6. **Set C** contains (1) of each punch #1 thru #6. **Set D** contains (1) of each punch #1 thru #8 and bench block.

STOCK #	MODEL	DIAMETER	LENGTH
#080-620-001AQ	1	.057" (1.4mm)	Long
#080-620-002AQ	2	.066" (1.7mm)	Long
#080-620-003AQ	3	.072" (1.8mm)	Long
#080-620-004AQ	4	.040" (1.0mm)	Short
#080-620-005AQ	5	.050" (1.3mm)	Short
#080-620-006AQ	6	.050" (1.3mm)	Long
#080-620-300AQ	7	3mm (.118")	Long
#080-620-301AQ	8	3mm (.118")	Short

— Advise # — Cup Tip Punch, 8K15E02 \$ 17.99

- #080-620-103AQ Cup Tip Punch Set A, 8K39F68 \$ 46.69
- #080-620-203AQ Cup Tip Punch Set B, 8K40G54 \$ 47.99
- #080-620-306AQ Cup Tip Punch Set C, 8K76H05 \$ 89.99
- #080-000-645AQ Cup Tip Punch Set D, 8K80K86 \$ 100.85
- #080-620-300AQ Long 3mm Cup Tip Punch, 8K9E88 \$ 11.99
- #080-620-301AQ Short 3mm Cup Tip Punch, 8K10B47 \$ 12.99
- #080-000-644AQ Bench Block, only, 8K6A94 \$ 8.99

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 marks 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 3/16" (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.
#080-513-039AQ	.039	#080-513-091AQ	.091
#080-513-060AQ	.060		

— Advise # — Replaceable Starter Punch, each, 8K7M96 \$ 9.99

#080-513-000AQ Replaceable Starter Punch Set, 8K18P92 \$ 22.99

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.

STOCK #	LENGTH	SIZE	PRICE
#587-475-062AQ	4" (10.2cm)	1/16" (1.6mm)	7H5A99 \$ 5.99
#587-475-093AQ	4" (10.2cm)	3/32" (2.4mm)	7H6N99 \$ 6.99
#587-475-125AQ	4" (10.2cm)	1/8" (3.2mm)	7H5M99 \$ 5.99
#587-475-156AQ	4" (10.2cm)	3/16" (4.0mm)	7H5A99 \$ 5.99
#587-493-093AQ	4 1/2" (11.4cm)	1/16" (1.6mm)	7H6N99 \$ 6.99
#587-493-125AQ	4 1/2" (11.4cm)	3/32" (2.4mm)	7H5K99 \$ 5.99
#587-493-156AQ	5" (12.7cm)	3/16" (4.0mm)	8K6G67 \$ 6.99

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
#587-465-062AQ	1/16"	#587-465-125AQ	1/8"
#587-465-093AQ	3/32"	#587-465-156AQ	1/4"

— Advise # — Starting Punch, 7H3C80 \$ 4.99

CENTER PUNCHES

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

SPECS: Punch 222 is 1/4" (6.3mm) O.D. x 3 1/2" (9.0cm) long. Punch 455 is 3/16" (7.9mm) O.D. x 4" (10.2cm) long.

- #587-111-222AQ Center Punch 222, 7H4B99 \$ 4.99
- #587-113-455AQ Center Punch 455, 7H4A55 \$ 4.55

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: 3/16" (7.9mm) O.D., 4" (10.2cm) long.

#587-110-440AQ 440 Prick Punch, 7H5J99 \$ 5.99

MAYHEW MINI PUNCHES

The Only Way To Remove Wee Sight Pins



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

- #587-474-062AQ 1/16" Mini Punch, 7H6A99 \$ 6.99
- #587-474-093AQ 3/32" Mini Punch, 8K4A99 \$ 4.99
- #587-474-078AQ 1/8" Mini Punch, 8K4Q40 \$ 4.49
- #587-474-000AQ Mini Punches, set of 3, 7H8D99 \$ 8.99

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.

- #080-513-639AQ 1" x .039" Replacement Pins, 8K7K72 \$ 9.99
- #080-513-660AQ 1" x .060" Replacement Pins, 8K7G73 \$ 9.99
- #080-513-691AQ 1" x .091" Replacement Pins, 8K8B17 \$ 10.99

BROWNELLS ROLL PIN PUNCH SET



Remove & Install Roll Pins The Professional Way

We combined 19 of our most popular roll pin punches and added a handy bench block to come up with the perfect punch set for the busy shop or department armor. Easily start, remove, and install spring pins and roll pins in firearms without damage to the pin or firearm. Features (5) holder punches, (7) starter

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

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

- #080-000-651AQ Roll Pin Punch Set, 8K99P99 \$ 109.99
- #080-000-650AQ Bench Block, only, 8K7P73 \$ 9.99

BROWNELLS ROLL PIN STARTER PUNCHES

Start Roll Pins Without Damage

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

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

- #080-000-241AQ Roll Pin Strtr Pnch Kit, 8K29Q10 \$ 35.00
- #080-000-242AQ #1 Roll Pin Strtr Punch, 8K3M43 \$ 4.99
- #080-000-243AQ #2 Roll Pin Strtr Punch, 8K3P64 \$ 6.99
- #080-000-244AQ #3 Roll Pin Strtr Punch, 8K4H51 \$ 6.99
- #080-000-245AQ #4 Roll Pin Strtr Punch, 8K3E96 \$ 5.99
- #080-000-246AQ #5 Roll Pin Strtr Punch, 8K4P12 \$ 5.99
- #080-000-247AQ #6 Roll Pin Strtr Punch, 8K4A75 \$ 5.99
- #080-000-248AQ #7 Roll Pin Strtr Punch, 8K4A75 \$ 5.99

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.

- #354-000-025AQ Roll Pin Punch Set, 4E27E99 \$ 32.99
- #354-000-026AQ 1/16" Punch, 4E4N99 \$ 5.99
- #354-000-027AQ 3/32" Punch, 4E4F99 \$ 5.99
- #354-000-028AQ 1/8" Punch, 4E4D99 \$ 5.99
- #354-000-029AQ 3/16" Punch, 4E4Q99 \$ 5.99
- #354-000-030AQ 1/4" Punch, 4E4K99 \$ 5.99
- #354-000-031AQ 1/2" Punch, 4E4Q99 \$ 5.99
- #354-000-032AQ 3/8" Punch, 4E4C99 \$ 5.99



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.

- #080-685-130AQ 3.5mm Roll Pin Holder, 8K11E98 \$ 14.99
- #080-685-078AQ 3/16" Roll Pin Holder, 8K12E26 \$ 14.99
- #080-685-000AQ Roll Pin Holders, set, 8K45M23 \$ 49.99

STOCK #	FOR PIN DIA.	O/A LENGTH	PRICE
#080-685-125AQ	#4 - 1/8" (3.2mm)	5" (12.7cm)	8K12N51 \$ 15.99
#080-685-130AQ	3.5mm (.138")	5" (12.7cm)	8K11E98 \$ 14.99
#080-685-093AQ	#3 - 3/32" (2.4mm)	4 1/2" (11.4cm)	8K12P65 \$ 15.99
#080-685-078AQ	#2 - 3/16" (2.0mm)	4 1/2" (11.4cm)	8K12E26 \$ 14.99
#080-685-062AQ	#1 - 1/16" (1.6mm)	4 1/2" (11.4cm)	8K12D26 \$ 14.99



STARRETT #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. Blue, knurled grip area; individually marked for size. Set of all 8 punches comes in handy, fitted, round, hard plastic bench box. Also available singly.

STOCK #	SIZE	STOCK #	SIZE
#827-525-780AQ	1/16"	#827-525-820AQ	3/16"
#827-525-790AQ	3/32"	#827-525-830AQ	1/2"
#827-525-800AQ	1/8"	#827-525-840AQ	1/4"
#827-525-810AQ	3/16"	#827-525-850AQ	3/8"

— Advise # — Starrett Pin Punch, each, 7B6M99 \$ 6.99

#827-525-860AQ Starrett Pin Punch Set #565, 7B6L99 \$ 62.99



BROWNELLS GUNSMITH REPLACEABLE PIN PUNCH SET

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



Finally! What we think is the answer to the pin punch headache that has plagued us - and every other gunsmith who has ever knocked out a gun pin, had the punch break or bend, and been out of business until a new one could be made or ordered. Now - Just Replace the Tip!

REPLACEABLE PUNCH PIN



Handles, with removable knurled-chuck to hold punch, are made of powder, 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. **SPECS:** Handle 3" (7.6cm) long x 1/8" (9.5mm) diameter. Pins are 2" (5.1cm) or 2 1/2" (6.3cm) long.

COMPLETE SINGLE PIN PUNCHES

STOCK #	DIA.	LENGTH	STOCK #	DIA.	LENGTH
#080-507-239AQ	.039	2"	#080-507-539AQ	.039	2 1/2"
#080-507-260AQ	.060	2"	#080-507-560AQ	.060	2 1/2"
#080-507-291AQ	.091	2"	#080-507-591AQ	.091	2 1/2"

— Advise # — Replacement Pin Punch, each, 8K8C38. \$ 10.99

#080-507-560AQ Replac. Tip Pin Punch, 8K8C87. \$ 9.99

#080-001-123AQ Replacement Pin Punch Pin & Pin Punch Kit - 3 mm, 8K8Q00. 9.99

#080-001-122AQ 3mm Replacement Tip, 8K3E50. 4.99

#080-507-000AQ Repl. Pin Punch Set of 3, w/2" pins, 8K20N31. 24.99

#080-507-050AQ Repl. Pin Punch Set of 3, w/2 1/2" pins, 8K20A31. 24.99

REPLACEMENT PINS

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

#080-509-639AQ 2" x .039" Pins, 8K10Q24. \$ 14.99

#080-509-660AQ 2" x .060" Pins, 8K10Q26. 14.99

#080-509-691AQ 2" x .091" Pins, 8K10I27. 14.99

#080-510-639AQ 2 1/2" x .039" Pins, 8K11117. 14.99

#080-510-660AQ 2 1/2" x .060" Pins, 8K12G56. 19.99

#080-510-691AQ 2 1/2" x .091" Pins, 8K12J65. 15.99

STARRETT

AUTOMATIC CENTER PUNCH

For Fine,
Precision Marking



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

SPECS: Steel. 3 1/8" (9.8cm) long. .405" (10.3mm) diameter. 1 1/2 oz. (43 g). Knurled body and adjusting cap. Starrett #18AA.

#827-501-190AQ Starrett Auto Punch, 7B38B99. \$ 38.99

#827-703-800AQ Replacement Punch Tip, 7B6D49. 6.49

NEED IT **NOW?!**
ASK FOR OVERNIGHT DELIVERY!



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", 3/32", 1/8", 5/32" diameters).

#354-007-000AQ Punch Kit, 4E28C60. \$ 32.99

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., 11 1/2" (29.2cm); 1 1/4" (28.6cm) dia., 11 1/2" (29.2cm).

#818-100-034AQ 3/4" Hammer Handle, 8A4H93. \$ 5.80

#818-100-001AQ 1" Hammer Handle, 8A6B34. 7.46

#818-100-114AQ 1 1/4" Hammer Handle, 8A7A31. 8.60

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.

#818-700-100AQ 1" Steel Hammer Head, 8A7D10. \$ 9.99

STOCK #	SIZE	PRICE
PLASTIC		
#818-300-034AQ	3/4"	8A1H58 \$ 1.68
#818-300-078AQ	7/8"	8A1F79 \$ 2.25
#818-300-100AQ	1"	8A1K80 \$ 1.99
#818-300-114AQ	1 1/4"	8A2I77 \$ 3.06
NYLON		
#818-200-034AQ	3/4"	8A2C84 \$ 3.19
#818-200-078AQ	7/8"	8A3G25 \$ 3.79
#818-200-100AQ	1"	8A3P23 \$ 3.99
#818-200-114AQ	1 1/4"	8A4F86 \$ 5.52
#818-200-112AQ	1 1/2"	8A5Q61 \$ 6.40
#818-200-200AQ	2"	8A12A74 \$ 17.99
BRASS		
#818-500-034AQ	3/4"	8A6G12 \$ 6.99
#818-500-100AQ	1"	8A6H96 \$ 9.99

BROWNELLS 1" NYLON/BRASS HAMMER

Our Most Popular
Gunsmith
No-Mar Hammer



This combo is so 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 more.

SPECS: 1" (2.5cm) diameter faces. 11 1/2" (29.2cm) hickory handle. Weighs approximately 6 oz. (170 g).

#818-600-100AQ 1" Nylon/Brass Hammer Combo, 8A19A99. \$ 19.99

BROWNELLS 3/4" PLASTIC/BRASS HAMMER



Dual Faces In Precise, Small Size

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).

#818-600-343AQ 3/4" Plastic/Brass Hammer, 8A14E99. \$ 14.99

GRACE GUNSMITH'S BRASS HAMMERS



Beautifully Polished & Balanced

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

SPECS: 9/16" (23.5cm) handle. 4 oz. (113g) STD Head - 1/2" (12.5cm) dia. x 2 1/4" (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 - 1 1/4" (3.2cm) dia. x 2 1/2" (6.7cm).

#354-001-004AQ 4 oz. Std Brass Hammer, 4E14I25. \$ 14.99

#354-001-008AQ 8 oz. Std Brass Hammer, 4E16D99. 16.99

#354-001-108AQ 8 oz. Long Brass Hammer, 4E19K99. 19.99

#354-001-016AQ 16 oz. Brass Hammer, 4E19N99. 19.99

BALLPEEN HAMMER



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
#956-000-002AQ	4 oz. (113.4g)	HP4	9D29Q98 \$ 29.99
#956-100-008AQ	8 oz. (226.8g)	HP8	6E29F99 \$ 29.99
#956-000-001AQ	12 oz. (340.2g)	HP12	6E12E06 \$ 14.99

CHASERS HAMMER



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, ultra-precision 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.

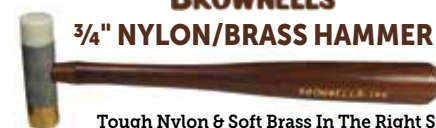
SPECS: Steel head, hardwood handle. Approx. 10" (25.4cm) overall length. Face sizes: 1 1/2" (23.8mm), 1 1/4" (2.9cm), 1 1/2" (3.2cm).

#249-746-220AQ 1 1/2" Chasers Hammer, 9D38L87. \$ 38.87

#249-746-280AQ 1 1/4" Chasers Hammer, 9D44H99. 44.99

#249-746-320AQ 1 1/4" Chasers Hammer, 9D29E83. 29.83

BROWNELLS 3/4" NYLON/BRASS HAMMER



Tough Nylon & Soft Brass In The Right Size

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, non-marking 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.

#818-600-075AQ 3/4" Nylon/Brass Hammer, 8A15J99. \$ 19.99

SMALL, SOLID BRASS HAMMER



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: 9/16" (23.2cm) long. 2" (5.1cm) high. 2 oz. (57 g) brass head.

#360-375-821AQ 2 oz. Brass Hammer, 6C8E99. \$ 10.99

GRACE GUNSMITH'S BALLPEEN HAMMER

Exceptional
Balance & Control
For Precision Work



Drop forged, steel heads secured to tough, seasoned hickory handles provide exceptional balance and control for precision gunsmithing work. Half-round, machined "ballpeens" allow maximum striking force to be applied to a very small area. Tapered handle is shaped for comfort and an easy grasp. Available in 2, 4, 8, and 12 ounce weights for a variety of light to heavy jobs.

SPECS: Steel head, hickory handle. 2 oz. - 10 1/2" (26cm) OAL. Head - 2 1/2" (5.7cm) long x 3/8" (1.4cm) dia. large face, 3/8" (1.5cm) dia. ballpeen. 4 oz. - 10 1/2" (26.7cm) OAL. Head - 2 1/2" (7cm) long x 3/4" (1.9cm) dia. large face, 3/8" (1.7cm) dia. ballpeen. 8 oz. - 11 1/8" (30.1cm) OAL. Head - 3 1/2" (10.2cm) long x 7/8" (2.2cm) dia. large face, 3/8" (2.16cm) dia. ballpeen. 12 oz. - 12 3/4" (32.4cm) OAL. Head - 4" (10.2cm) long x 1 1/8" (2.7cm) dia. large face, 1" (2.5cm) dia. ballpeen.

#354-000-020AQ 2 oz. Ballpeen Hammer, 4E14K95. \$ 17.99

#354-000-021AQ 4 oz. Ballpeen Hammer, 4E15C95. 18.99

#354-000-022AQ 8 oz. Ballpeen Hammer, 4E16E95. 19.99

#354-000-023AQ 12 oz. Ballpeen Hammer, 4E17A95. 20.99

CROSS PEEN HAMMER

Unique Design Ideal For Reassembly & Bench Work



So-called because of the flat sides of the peening head. Small diameter head tapers slightly. Delivers 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, 1/2" (22.2mm) dia. 8 1/2 oz. (240g) head. 10 oz. - Overall length, 12 1/2" (31.8cm). Head, overall, 4 1/2" (11.4cm). Face, 1" (25.4mm) dia. 10 1/2 oz. (300g) head.

#541-000-014AQ Cross Peen Hammer, 8 oz., 1D26K25. \$ 29.99

#541-000-015AQ Cross Peen Hammer, 10 oz., 1D27D50. 31.99

Orders/Tech: 800-741-0015

order on the web
brownells.com

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**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. - 2 1/2" (6.3cm) long, 1 1/4" (3.4cm) dia., 9" (22.9cm) high. 12 oz. - 3" (7.6cm) long, 1 1/2" (3.8cm) dia., 10" (25.4cm) high.

- #100-003-751AQ Rawhide Hammer, 8 oz., 4A28B00 \$ 32.99
- #100-003-752AQ Rawhide Hammer, 12 oz., 4A28B50 33.99

**GUNSMITH'S
RAWHIDE Mallet**



Perfect "Soft Touch" For Wood & Finished Metal

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, 1 1/4" (3.2cm) dia. x 3 1/4" (7.9cm). No. 3, 8 oz. (227 g) head, 1 1/4" (4.4cm) dia. x 3 1/2" (8.6cm). Head lengths and dia. will vary with the density of the hide.

- #672-196-001AQ Rawhide Mallet No. 1, 2G23L99. \$ 28.99
- #672-196-003AQ Rawhide Mallet No. 3, 2G32D55. 38.99

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 adapters.

STOCK #	FITS	PRICE
#084-175-032AQ	.32 Cal.	4H23N64 \$ 29.99
#084-175-357AQ	9mm/.38/.357Cal.	4H23P64 \$ 29.99
#084-175-040AQ	10mm/.40/.41 Cal.	4H23N64 \$ 29.99
#084-175-044AQ	.44 Cal.	4H23D64 \$ 29.99
#084-175-045AQ	.45 Cal.	4H23K64 \$ 29.99
#084-175-000AQ	Squib Rod Kit, 4H64K56.	\$ 85.99

**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 carries lifetime guarantee against breakage. Easy and convenient to use whether checking an occasional reload or pulling hundreds of bullets.

SPECS: Overall length 11 1/8" (29.5cm).

- #734-001-000AQ Quinetics Bullet Puller, 4C21D99. \$ 21.99

REPLACEMENT "NEW-TWIST" CHUCK - Update older Quinetics bullet pullers (and copies/clones) with this universal chuck. Takes .22 thru .45 caliber cases and releases quickly; no need to remove the cap. Same as supplied in current model.

SPECS: Aluminum jaws.

- #734-001-001AQ "New-Twist" Chuck, 4C9N99. \$ 9.99



**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
#080-880-223AQ	#080-881-223AQ	Fits .222, .223, etc.
#080-880-308AQ	#080-881-308AQ	Fits .308, .30-06, etc.
#080-880-338AQ	#080-881-338AQ	Fits .30-.338 Mag., etc.

- Advise # - Complete Stuck Case Puller, 8K102L85. \$ 125.99
- Advise # - Stuck Case Puller Collet, only, 9A21J10 25.99

C.J. WEAPONS

BROKEN SHELL EXTRACTORS

Fast, No-Fuss Removal Of Stuck Cases

Don't let case head separation put an end to your day at the range or in the field. Simple, reliable tool quickly and easily removes a stuck case from the chamber. Make sure gun is unloaded, then insert the shell extractor in the chamber and close the action, just like you're loading another round. The back of the tool takes the place of the missing case head, while the springy steel fingers slide through the case neck and expand to positively grab the case mouth. Manually work the action to extract the broken shell and the tool. Carry one in your pocket when shooting as cheap insurance against having your range day or hunt cut short. Fits ONLY the specified caliber.

SPECS: Steel, blued. Models available for the calibers listed below.

- #100-005-992AQ .223/5.56 Broken Shell Extractor, 5K7M29 \$ 9.99
- #100-003-126AQ .308/7.62 Broken Shell Extractor, 5K6K03 10.99
- #100-003-127AQ .30-06 Broken Shell Extractor, 5K6F03 10.99
- #100-005-993AQ .30 Carbine Broken Shell Extractor, 5K7N29 9.99
- #100-005-755AQ .300 Win. Mag. Broken Shell Extractor, 5K6C38 9.99
- #100-003-128AQ 7.62 x 39 Broken Shell Extractor, 5K6F03 10.99
- #100-003-160AQ 7.62 x 54R Broken Shell Extractor, 5K6A03 10.99
- #100-005-994AQ .303 British Broken Shell Extractor, 5K7C29 9.99
- #100-005-995AQ 8mm Mauser Broken Shell Extractor, 5K7B29 9.99



**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.

- #080-000-441AQ .223 Broken Shell Extractor, 8K16K99 \$ 19.99
- #080-000-530AQ .308 Broken Shell Extractor, 8K18Q95 22.99

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: 2 1/2" (6.3cm) long shanks, 3 3/4" (9.5cm) long x 1" diameter handle. Set includes one driver of each size.

STOCK #	SIZE	STOCK #	SIZE
#080-453-062AQ	1/16"	#080-453-109AQ	7/64"
#080-453-078AQ	5/64"	#080-453-137AQ	3.5mm
#080-453-093AQ	3/32"	#080-453-156AQ	5/32"

- Advise # - Allen Fixed Blade Driver, 8K8N83. \$ 9.99
- #080-453-000AQ Allen Fixed-Blade Set, 8K45N69. \$ 55.29

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

- #080-452-001AQ #1 Fixed-Blade Phillips, 8K8F89. \$ 10.99
- #080-452-002AQ #2 Fixed-Blade Phillips, 8K8B10. 9.99
- #080-452-003AQ #3 Fixed-Blade Phillips, 8K8I89. 9.99
- #080-452-000AQ Fixed-Blade Phillips Set, 8K23M50 27.99

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

NEW! Calibers **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.





- #296-000-125AQ 4-Caliber Cartridge Checker, 6B17A14 \$ 19.99
- #296-000-189AQ Cowboy Cartridge Checker, 6B21L43 24.99
- #296-000-190AQ .223 Rem Cartridge Checker, 6B25Q71 29.99
- #296-000-191AQ 5.56 Cartridge Checker, 6B25P71 29.99
- #296-000-220AQ .30-06 7-Hole Cartridge Checker, 6B38D57 44.99
- #296-000-221AQ .300 Blackout 7-hole Cartridge Checker, 6B34I29 39.99
- #296-000-222AQ .308 Win 7-Hole Cartridge Checker, 6B34J29 39.99
- #296-000-202AQ .380 ACP Cartridge Checker, 6B17Q14 19.99
- #296-000-226AQ .38 Super 7-Hole Cartridge Checker, 6B17L14 19.99
- #296-000-224AQ .357 Magnum 7-Hole Cartridge Checker, 6B17E14 19.99
- #296-000-225AQ .40 S&W 7-Hole Cartridge Checker, 6B17G14 19.99
- #296-000-223AQ 10mm Auto 7-Hole Cartridge Checker, 6B17M14 19.99
- #296-000-227AQ .45 ACP 7-Hole Cartridge Checker, 6B17M14 19.99
- #296-000-203AQ 12 Gauge Cartridge Checker, 6B42B86 49.99



BROWNELLS GUN SPECIFIC SCREWDRIVER SETS

Self-Storing, Carry Along For 'Smiths & Shooters'

On the bench or in the field, you'll have the right 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, Hol- low 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: 6 1/8" (15.7cm) long overall. 1 1/4" (3.2cm) diameter grip. 


#080-000-444AQ 1911 Screwdriver Set, 8K21D07 \$ 24.99
#080-000-448AQ 1911 Bits, only, 8K11N51 13.99

GLOCK PISTOL - Two taken-down bits for pistol itself and magazine, plus three bits and a .050" Allen wrench for adjustable aftermarket sights. SPECS: 6 1/8" (15.7cm) long overall. 1 1/4" (3.2cm) diameter grip.

#080-000-408AQ Glock Screwdriver Set, 8K20C74 \$ 24.99
#080-000-447AQ Glock Bits, only, 8K9P75 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. 1 1/4" (3.2cm) diameter grip.

#080-000-021AQ Colt SAA Set, 8K18L24 \$ 21.99
#080-000-086AQ Colt SAA Bits, only, 8K7Q82 9.99

RUGER® SINGLE ACTION - Four flat blade bits to fit Ruger Single Action screws for base pin latch, grip frame, and ejector housing, plus an extra-long hex bit for Bisley back-strap screws. SPECS: 8" (20.3cm) long overall. 1 1/4" (3.2cm) diameter grip. Bits fit Ruger Blackhawk®, Vaquero®, Bisley, and 2005 and later New Vaquero®. 

#080-000-020AQ Ruger S/A Screwdriver Set, 8K19I08 \$ 29.99

#080-000-087AQ Ruger S/A Bits, only, 8K9L87 14.99

RUGER DOUBLE ACTION - Heat-treated, 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, 1 1/8" (5cm) long. Magna-Tip handle - 8" (20.3cm) long x 1 1/4" (3.2cm) diameter, solid grip handle. Fits Redhawk®, Super Redhawk®, GP-100®, and SP101® Cylinders. 

#080-000-362AQ Ruger D/A Ejector Driver Set, 8K17L35 \$ 19.99

#080-432-001AQ Ruger D/A Ejector Bit, only, 8K6C95 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. 1 1/4" (3.2cm) diameter grip.

#080-087-004AQ 4-in-1 S&W Combo, 8K14L80 \$ 17.95
#080-087-002AQ S&W Combo Bits, only, 8K6M65 7.99

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 compartment in grip.

Orders/Tech: 800-741-0015


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. 12 1/2" (31.8cm), 5 1/8" (13cm) wide, 3 1/4" (1.9cm) high. Holds 120 Magna-Tip bits and 7 handles.

#080-000-514AQ Master Storage Block, 8K22G81 \$ 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. 8 1/4" (21cm) x 3 1/4" (9.5cm) x 1 1/4" (17mm). 

#080-115-075AQ Wooden Bit Block, 8K19K16 \$ 24.99
#080-113-000AQ Super Set Box, only, 8K5I61 6.99

SPECS: 5 1/2" (14cm) long overall. 1" (2.5cm) diameter grip.

#080-088-003AQ S&W Screwdriver Set, 8K14I32 \$ 16.99
#080-088-005AQ S&W Bits, only, 8K4I78 5.99

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

SPECS: 8" (20.3cm) long overall. 1 1/4" (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.

#080-087-005AQ Win. 97 Set, 8K17E32 \$ 19.99
#080-087-010AQ Win. 97 Bits, only, 8K6K52 7.99
#080-087-006AQ Marlin 336 Set, 8K19E10 22.99
#080-087-011AQ Marlin 336 Bits, only, 8K8G67 10.99

#080-087-007AQ Winchester 92/Rossi Set, 8K20G61 24.99

#080-087-012AQ Win. 92/Rossi Bits, only, 8K9H57 11.99
#080-087-008AQ Win. 94 Angle Eject Set, 8K17Q70 22.99
#080-087-013AQ Win. 94 Angle Eject Bits, only, 8K7E80 10.99

#080-087-009AQ Win. 94 Top Eject Set, 8K18G85 22.99
#080-087-014AQ Win. 94 Top Eject Bits, only, 8K9G22 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: 5 1/2" (14cm) long overall. 1" (2.5cm) diameter grip.

#080-088-870AQ 870/1100 Screwdriver, 8K15P53 \$ 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. 1 1/4" (3.2cm) diameter grip.

#080-000-440AQ Browning Auto-5 Set, 8K16E99 \$ 18.99
#080-000-446AQ Browning Auto-5 Bits, only, 8K6H99 10.99



BROWNELLS OFFICIALLY LICENSED

NRA MAGNA-TIP® SCREWDRIVER SET

Work On Your Guns Without Having Them Look "Worked-On!"

If you work on firearms, you know exactly how hard it is to keep your gun's screws in their original - pristine - unmarked condition. General purpose, off-the-shelf screwdrivers never fit quite right, and are often too soft or too brittle to withstand the hardened steels and torque requirements used in gun work. These shortcomings eventually result in marred screw heads, scarred slots, or even worse - unsightly gouges and dings in stock or metal finishes caused by using the wrong screwdriver.

Brownells MAGNA-TIP bits are designed and manufactured to put an end to these frustrations. Each bit is made from the same, state-of-the-art materials used for heavy, industrial production applications, then ground expressly for gun work for a perfect blade-to-slot fit. We've taken every aspect of screwdriver use into consideration, designed the MAGNA-TIP set to work the right way, and used the very best materials and workmanship for its construction. That's why, for over 40 years, it still remains the #1 choice of professional gunsmiths everywhere. With the NRA MAGNA-TIP Set - you, too, can work on your guns without having them look "worked-on!"

Inside the rugged field case, you get a custom bench tray with 22 of the most commonly used screwdriver bits (slotted, hex, Phillips, and Torx®) for today's most popular firearms. Like a professional gunsmith, you'll be prepared for the majority of standard gun screws, plus scope base and ring screws, too - you even get a bit for the windage screws on Leupold and Redfield scope mounts. The full size, magnetic, screwdriver handle bears an official "NRA" logo. And, every component is made to the highest quality standards, and is 100% Unconditionally Guaranteed - Forever - No Questions Asked! Simply put - you'll never need to buy another screwdriver set again.

FEATURES


- Custom-ground bits with the right combination of hardness and durability for maximum strength and wear-resistance.

- True, hollow-ground, bit radius provides complete metal-to-metal contact between bit and fastener to prevent screw damage, and transmits torque evenly up the shank for superior turning power.

- Phillips bits with Anti-Cam-Out design grab the sides of the slot to prevent "reaming" the fastener head.

- Robust, hand-filling, driver handle is precision-molded from shockproof plastic; fluted grooves along the outside provide a positive gripping surface for maximum control.

- Hex shank with powerful magnet for quick bit changes; accepts a small wrench for added leverage on those really stubborn screws.

- Magnetism transfers through the bit to hold the screw in position. 

#084-000-257AQ NRA MAGNA-TIP Screwdriver Set, 4H49C99 \$ 52.99

MAGNA-TIP® ADD-ON-PAK - Get even more versatility with the MAGNA-TIP Add-On Pak. It provides ten, additional screwdriver bits and the Brownells Stubby Handle to your Officially Licensed NRA MAGNA-TIP Set. Pak includes six, hollow-ground bits for slotted screws, 7/8" and 1/4" hex bits, plus our 2" Long Phillips Bit for recoil pad removal and installation. The Stubby Handle includes our proven, magnetic bit holder for fast bit changes, and a short, stout, handle design helps keep you centered over the fastener for better control in those hard-to-get-at places. Of course, every component is backed by our lifetime, 100% Satisfaction Guarantee!

SPECS: Stubby Handle - 2 1/4" (6.3cm) OAL, 1" (2.5cm) diameter handle. 3/8" (1.6cm) long shank. Bits - Steel. Pak includes stubby handle and bits: #120-4, #180-1, #210-4, #240-3, #270-4, #300-3, #340-6, #185-6, #185-5, #185-6, and 2" long Phillips.

order on the web

brownells.com



BIT SPECIFICATIONS		
BIT #	TYPE	SIZE
#120-1	Slotted	.120 x .020
#150-4	Slotted	.150 x .035
#180-3	Slotted	.180 x .030
#180-5	Slotted	.180 x .040
#210-5	Slotted	.210 x .040
#240-5	Slotted	.240 x .040
#300-6	Slotted	.300 x .050
#360-8	Slotted	.360 x .070
L/B	Slotted	Leupold Windage
#185-00	Hex	1/16
#185-0	Hex	5/64
#185-1	Hex	3/32
#185-2	Hex	1/8
#185-3	Hex	5/32
#185-4	Hex	3/16
#185-9	Hex	7/64
#185-10	Hex	9/64
#1	Phillips	1
#2	Phillips	2
#3	Phillips	3
T10	Torx	T10
T15	Torx	T15

SPECS: Bits - Hollow-Ground Steel. Handle - Shockproof plastic. 1 1/4" (3.2cm) diameter. 8" (20.3cm) OAL. Field Case - Polyethylene. Includes Slotted Bits #120-1, #150-4, #180-3, #180-5, #210-5, #240-5, #300-6 and #360-8, Leupold Windage; Hex Bits #185-00, #185-1, #185-2, #185-3, #185-4, #185-9 and #185-10; Phillips Bits #1, #2 and #3; Torx Bits T10 and T15.

BIT SPECIFICATIONS		
BIT #	TYPE	SIZE
#120-4	Slotted	.120 x .035
#180-1	Slotted	.180 x .020
#210-4	Slotted	.210 x .035
#240-3	Slotted	.240 x .030
#270-4	Slotted	.270 x .035
#300-3	Slotted	.300 x .030
#340-6	Slotted	.340 x .050
#185-5	Hex	7/32
#185-6	Hex	1/4
Long	Phillips	2" Long

#080-115-002AQ MAGNA-TIP Add-On Pak, 8K24A84 \$ 28.99

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BROWNELLS MAGNA-TIP® SCREWDRIVER SYSTEM



Standard Set No. 1 shown



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

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

To help you get a screwdriver set suited to your specific needs, we offer the MAGNA-TIP system in two basic configurations. The **Standard Set** contains bits for general gun maintenance and repair - and darn near everything around the house and garage, too. The **Super Set**, with its incredible selection of graduated bits, is the Gold Standard of gun-

smith screwdrivers. For added customization, you get to choose the driver handle you want: the full-size **#81 Handle**, the **#84 Hollow Handle** with a compartment in the grip for storing bits, or if you like your hand close to the work, the **Magnetic Law Enforcement Handle** or **Clip Tip Law Enforcement Handle**. Both Law Enforcement (LE) handles grasp the bits equally well, but the Clip Tip version will not magnetize them. Like everything we sell, all of our MAGNA-TIP components are 100% Unconditionally Guaranteed to please you.

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 1 1/2" (3.8cm) overall length (see table). #81 & #84 Handles - 8" (20.3cm) long overall, 1 1/4" (3.2cm) grip diameter. Law Enforcement Handles - 5 1/2" (14cm) long overall, 1" grip diameter.

STK# #81 HANDLE	STK# #84 HANDLE	STK# MAGNETIC LE	STK# CLIP TIP LE	BIT SET	PRICE
#080-101-081AQ	#080-101-084AQ	#080-101-804AQ	#080-101-801AQ	Standard No. 1	8K42B98 \$ 51.99
#080-102-081AQ	#080-102-084AQ	#080-102-804AQ	#080-102-801AQ	Standard No. 2	8K37D24 \$ 44.99
#080-103-081AQ	#080-103-084AQ	#080-103-804AQ	#080-103-801AQ	Standard No. 3	8K29G08 \$ 36.99
NEW #080-105-000AQ Standard Set Field Case, only, 8K4D76					\$ 5.60
#080-106-000AQ Standard Set Bench Tray, only, 8K4E47					5.25
#080-104-000AQ Standard Set Case-n-Tray Combo, 8K8H34					9.81

STANDARD MAGNA-TIP SET BITS

STOCK #	BIT NUMBER	BLADE DIA.	BLADE THICKNESS	PRICE	
#080-445-002AQ	445-00***	.138"	.028	8K2E52 \$ 2.99	
#080-445-032AQ	445-0***	.154"	.032"	8K2N52 \$ 2.99	
#080-445-103AQ	445-10***	.138"	.034"	8K2E55 \$ 3.99	
#080-445-203AQ	445-20***	.216"	.036"	8K2J52 \$ 2.99	
#080-445-303AQ	445-30***	.248"	.038"	8K2P52 \$ 2.99	
#080-445-135AQ	445-1*	.278"	.035"	8K2A52 \$ 2.99	
#080-445-240AQ	445-2*	.278"	.040"	8K2F52 \$ 2.99	
#080-445-342AQ	445-3*	.278"	.042"	8K2G52 \$ 2.99	
#080-445-446AQ	445-4*	.278"	.046"	8K2F52 \$ 2.99	
#080-445-550AQ	445-5***	.312"	.050"	8K2B52 \$ 2.99	
#080-445-655AQ	445-6***	.360"	.055"	8K2K52 \$ 2.99	
#080-440-001AQ	440-0/1220*	Phillips #0	NA	8K1G25 \$ 1.47	
#080-440-100AQ	440-1/1221*	Phillips #1	NA	8K1K24 \$ 1.99	
#080-440-200AQ	440-2/1222*	Phillips #2	NA	8K1Q25 \$ 1.99	
#080-185-000AQ	185-0/5222*	3/16" Allen	NA	8K2F52 \$ 2.99	
#080-185-900AQ	185-9/5224*	7/16" Allen	NA	8K2D52 \$ 2.99	
#080-185-200AQ	185-2/5225*	1/8" Allen	NA	8K2C52 \$ 2.99	
#080-185-010AQ	185-10/5226***	3/16" Allen	NA	8K2M99 \$ 3.50	
#080-185-300AQ	185-3/5227**	1/16" Allen	NA	8K1P85 \$ 2.19	
#080-185-400AQ	185-4/5228**	3/16" Allen	NA	8K2Q52 \$ 2.99	
#080-185-500AQ	185-5/5229**	1/2" Allen	NA	8K2A52 \$ 2.99	
#080-185-600AQ	185-6/5220**	1/4" Allen	NA	8K2P52 \$ 2.99	

* 1" (2.5cm) overall length
 ** 1 1/4" (3.2cm) overall length
 *** 1 1/2" (3.8cm) overall length

THE HANDLE

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

EXPANDABLE & COMPATIBLE

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

PERFECT NO-SLIP FIT

MAGNA-TIP bits have true power-flowing, hollow-ground

MAGNA-TIP® SUPER SET™



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" or .010" increments. Each 1 1/2" 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!

- #080-108-100AQ Starter Super Set Add-On Pak, 8K40F47... \$ 46.99
- #080-113-000AQ Super Set Box, only, 8K5161... 6.99
- #080-115-000AQ Super Set Case-n-Tray Combo, 8K8G86... 10.99
- #080-120-330AQ #120-3 Bit, 8K2L52... 2.99
- #080-240-540AQ #240-5 Slotted Bit, 8K2P52... 2.99

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.

- #080-112-024AN Update Bits, only, 8K32E79... \$ 41.49
- #080-112-000AN Update Kit, 8K42E08... 50.49



STK# #81 HANDLE	STK# #84 HANDLE	STK# MAGNETIC LE	STK# CLIP TIP LE	BIT SET	PRICE
#080-107-081AN	#080-107-084AN	#080-107-804AN	#080-107-801AN	22 Bit Starter Super Set	8K61G99 \$ 73.99
#080-110-081AN	#080-110-084AN	#080-110-804AN	#080-110-801AN	44 Bit Super Set Plus	8K102D01 \$ 118.99
#080-112-081AN	#080-112-084AN	#080-112-804AN	#080-112-801AN	58 Bit Master Super Set Plus	8K110P85 \$ 129.99

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

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

FIELD CASE & BENCH TRAY

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

SATISFACTION GUARANTEED SINCE 1939



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. **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

MAGNA-TIP® PROFESSIONAL SUPER SET™

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 10 to 70 in.-lb. Both versions of the set come with a sturdy benchtop storage block to store all the bits and handles; a hard-side plastic carry case is supplied with Torque Handle. The Professional Super Set is truly the most versatile screwdriver system you'll ever use—and quite possibly the last one you'll ever have to buy! Adjustable Torque Handle also available separately. **APG**
SPECS: Hardened steel bits, high-density plastic handles, Delrin bench block. Ratchet Handle – Stainless steel shank, plastic handle. Torque Handle – Steel, aluminum housing with synthetic rubber cover, and high-impact plastic handle.



Available with or without Adjustable Torque Handle

- #080-000-532AQ Professional Super Set, 8K299N99 \$ 329.99
- #080-000-531AQ Professional Super Set w/Adjustable Torque Handle, 8K334P05 419.99
- #080-000-515AQ Adj. Torque Handle, only, 8K119J99 149.99

PROFESSIONAL SUPER SET BITS

STOCK #	BIT NO.	BLADE DIA.	BLADE THICKNESS	PRICE
#080-120-120AQ	120-1	.120	.020	8K2P52 \$ 2.99
#080-120-225AQ	120-2	.120	.025	8K2N52 \$ 2.99
#080-120-435AQ	120-4	.120	.035	8K2H52 \$ 2.99
#080-120-540AQ	120-5	.120	.040	8K2L52 \$ 2.99
#080-120-645AQ	120-6	.120	.045	8K2J52 \$ 2.99
#080-445-002AQ	445-00***	.138"	.028	8K2E52 \$ 2.99
#080-150-120AQ	150-1	.150	.020	8K2H52 \$ 2.99
#080-150-225AQ	150-2	.150	.025	8K2F52 \$ 2.99
#080-150-330AQ	150-3	.150	.030	8K2L52 \$ 2.99
#080-150-435AQ	150-4	.150	.035	8K2I52 \$ 2.99
#080-150-540AQ	150-5	.150	.040	8K2P52 \$ 2.99
#080-150-645AQ	150-6	.150	.045	8K2E52 \$ 2.99
#080-445-032AQ	445-00***	.154"	.032"	8K2N52 \$ 2.99
#080-180-120AQ	180-1	.180	.020	8K2G52 \$ 2.99
#080-180-225AQ	180-2	.180	.025	8K2P52 \$ 2.99
#080-180-330AQ	180-3	.180	.030	8K2Q52 \$ 2.99
#080-180-435AQ	180-4	.180	.035	8K2B75 \$ 2.99
#080-146-006AQ	#6 slot**	.180	.037	8K3Q19 \$ 3.99
#080-180-540AQ	180-5	.180	.040	8K2C52 \$ 2.99
#080-180-645AQ	180-6	.180	.045	8K2K52 \$ 2.99
#080-445-103AQ	445-10***	.138"	.034"	8K2E55 \$ 3.99
#080-210-120AQ	210-1	.210	.020	8K2F52 \$ 2.99
#080-210-225AQ	210-2	.210	.025	8K2B52 \$ 2.99
#080-210-330AQ	210-3	.210	.030	8K2I52 \$ 2.99
#080-210-435AQ	210-4	.210	.035	8K2E52 \$ 2.99
#080-210-540AQ	210-5	.210	.040	8K2N52 \$ 2.99
#080-210-645AQ	210-6	.210	.045	8K2P52 \$ 2.99
#080-210-750AQ	210-7	.210	.050	8K2G52 \$ 2.99
#080-445-203AQ	445-20***	.216"	.036"	8K2J52 \$ 2.99
#080-240-120AQ	240-1	.240	.020	8K2E75 \$ 2.99
#080-240-225AQ	240-2	.240	.025	8K2B52 \$ 2.99
#080-240-330AQ	240-3	.240	.030	8K2N52 \$ 2.99
#080-240-435AQ	240-4	.240	.035	8K2B52 \$ 2.99
#080-146-008AQ	#8 slot**	.240	.040	8K3A49 \$ 4.49
#080-240-645AQ	240-6	.240	.045	8K2A52 \$ 2.99
#080-240-750AQ	240-7	.240	.050	8K2A52 \$ 2.99
#080-445-303AQ	445-30***	.248"	.038"	8K2P52 \$ 2.99
#080-270-120AQ	270-1	.270	.020	8K2Q52 \$ 2.99
#080-270-225AQ	270-2	.270	.025	8K2H52 \$ 2.99
#080-270-330AQ	270-3	.270	.030	8K2M52 \$ 2.99
#080-270-435AQ	270-4	.270	.035	8K2L52 \$ 2.99
#080-270-540AQ	270-5	.270	.040	8K2H52 \$ 2.99

STOCK #	BIT NO.	BLADE DIA.	BLADE THICKNESS	PRICE
#080-270-650AQ	270-6	.270	.050	8K2P52 \$ 2.99
#080-270-760AQ	270-7	.270	.060	8K2A55 \$ 3.99
#080-445-135AQ	445-1*	.278"	.035"	8K2A52 \$ 2.99
#080-445-240AQ	445-2*	.278"	.040"	8K2F52 \$ 2.99
#080-445-342AQ	445-3*	.278"	.042"	8K2G52 \$ 2.99
#080-445-446AQ	445-4*	.278"	.046"	8K2F52 \$ 2.99
#080-300-120AQ	300-1	.300	.020	8K2D52 \$ 2.99
#080-300-225AQ	300-2	.300	.025	8K2Q70 \$ 2.99
#080-300-330AQ	300-3	.300	.030	8K2K52 \$ 2.99
#080-300-435AQ	300-4	.300	.035	8K2F52 \$ 2.99
#080-300-540AQ	300-5	.300	.040	8K2M52 \$ 2.99
#080-300-650AQ	300-6	.300	.050	8K2Q52 \$ 2.99
#080-300-760AQ	300-7	.300	.060	8K2J52 \$ 2.99
#080-445-550AQ	445-5***	.312"	.050"	8K2B52 \$ 2.99
#080-340-120AQ	340-1	.340	.020	8K2M75 \$ 2.99
#080-340-225AQ	340-2	.340	.025	8K2H52 \$ 2.99
#080-340-330AQ	340-3	.340	.030	8K2M52 \$ 2.99
#080-340-435AQ	340-4	.340	.035	8K2K52 \$ 2.99
#080-340-540AQ	340-5	.340	.040	8K2B52 \$ 2.99
#080-340-650AQ	340-6	.340	.050	8K2E52 \$ 2.99
#080-340-760AQ	340-7	.340	.060	8K2I52 \$ 2.99
#080-340-870AQ	340-8	.340	.070	8K2I52 \$ 2.99
#080-360-120AQ	360-1	.360	.020	8K2M55 \$ 2.99
#080-360-225AQ	360-2	.360	.025	8K2B55 \$ 3.99
#080-360-330AQ	360-3	.360	.030	8K2K52 \$ 2.99
#080-360-435AQ	360-4	.360	.035	8K2F52 \$ 2.99
#080-360-540AQ	360-5	.360	.040	8K2I10 \$ 2.99
#080-360-650AQ	360-6	.360	.050	8K2J52 \$ 2.99
#080-445-655AQ	445-6***	.360"	.055"	8K2K52 \$ 2.99
#080-360-760AQ	360-7	.360	.060	8K2Q52 \$ 2.99
#080-360-870AQ	360-8	.360	.070	8K2Q52 \$ 2.99
#080-440-001AQ	440-0/1220*	Phillips #0	NA	8K1G25 \$ 1.47
#080-440-100AQ	440-1/1221*	Phillips #1	NA	8K1K24 \$ 1.99
#080-440-200AQ	440-2/1222*	Phillips #2	NA	8K1Q25 \$ 1.99
#080-441-002AQ	NA*	Phillips #2	NA	8K2P52 \$ 2.99
		Anti-Cam-Out		
#080-185-000AQ	185-0/5222*	1/8" Allen	NA	8K2F52 \$ 2.99
#080-146-093AQ	See-Thru**	1/8" Allen	NA	8K3L88 \$ 4.99
#080-185-900AQ	185-9/5224*	7/64" Allen	NA	8K2D52 \$ 2.99
#080-146-109AQ	See-Thru**	1/8" Allen	NA	8K4N20 \$ 4.99
#080-185-200AQ	185-2/5225*	1/2" Allen	NA	8K2C52 \$ 2.99
#080-185-010AQ	185-10/5226***	1/2" Allen	NA	8K2M99 \$ 3.50

1 1/2" (3.8cm) shaft length, unless otherwise noted.
 * = 1" (2.5cm) shaft. ** = 1 1/4" (3.2cm) shaft. *** = 2" (5.1cm) shaft.



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. 1 1/4" (3.2cm) diameter grip. 3/4" (8.3cm) long shank.



#080-086-181AQ #81 Solid Handle, 8K11N65 \$ 13.99

#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. 1 1/4" (3.2cm) diameter grip. 3/4" (8.3cm) long shank. Handle With Bits includes #445-1, #445-2, #445-3 and #445-4.

#080-087-084AQ #84 Handle, w/4 bits, 8K17N52 \$ 20.99
 #080-087-000AQ #84 Handle, no bits, 8K15I32 17.99
 #080-087-001AQ Replacement Cap, White, 1K1L44 1.99

STUBBY HANDLE - Just the ticket for tight places. Super-strong, magnetic grip of the full size MAGNA-TIP. **SPECS:** 2 1/2" (6.3cm) long overall. 1 1/4" (3.2cm) diameter grip. 1/2" (1.9cm) long shank.

#080-090-000AQ Stubby Handle, 8K10I16 \$ 12.99

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:** 5 1/2" (14cm) long overall. 1" (2.5cm) diameter grip. 1 1/4" (4.5cm) long shank.

#080-088-004AQ Magnetic LE Handle, 8K11N15 \$ 14.97

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:** 3 1/4" (9.5cm) long overall. 7/8" (2.2cm) diameter grip. 1" (2.5cm) long shank.

#080-089-006AQ Compact Magnetic LE Handle, 8K10B29 \$ 14.97

#080-089-005AQ Compact Clip-Tip LE Handle, 2K10N72 15.60

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:** 6 1/8" (15.7cm) long overall. 1 1/4" (3.2cm) diameter grip. 1 1/4" (4.5cm) long shank.

#080-088-006AQ LE Hollow Handle, 8K15L52 \$ 21.99

Stock numbers shown in red indicate the product is made or assembled in the U.S.A.

This information is not available for all products at time of catalog production, but will be regularly updated on our website.

BROWNELLS

MAGNA-TIP® BIT SHAPING STONE



Forms The Bit To Fit The Slot

Special stones for custom-shaping MAGNATIP and Brownells Fixed Blade screwdrivers. To shape tips, chuck stone into drill press, lock bit or screwdriver into drill press vice and grind to match screw slot. Large stone fits the radius of the hollow grind on both screwdriver models. **SPECS:** 1/2" (6.35mm) shank. 25,000 rpm. Large - 3/8" (3.97cm) dia. x 1/2" (12.4mm) thick. Small - 1/8" (15.0mm) diameter x 1/2" (12.4mm) thick.

- #091-001-000AQ Large MAGNA-TIP Stone, 1K5B99 ... \$ 5.99
- #091-001-625AQ Small MAGNA-TIP Stone, 1K9E99 ... 9.99



BROWNELLS MAGNA-TIP® RATCHET HANDLE

Contoured For Maximum Comfort & Leverage; Compatible With All Magna-Tip Bits



Bit not included

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. 5 1/2" (14cm) long overall. 3 3/4" (9.2cm) long shank. Handle is 3" (7.6cm) wide at widest point. Accepts 1/4" hex bits, including all Magna-Tip bits.

- #080-000-513AQ Magna-Tip Ratchet Handle, 8K33F49 ... \$ 34.99

BROWNELLS

DESIGNATED DRIVER



A Screwdriver Kit For Your Pocket, Tool Box & Range Bag

Handy, fluted aluminum handle with one Phillips and four of Magna-Tip hollow ground slotted bits; all stored right in the handle, always available when you need them. 3" length gives excellent control; keeps your hand close to the work and helps prevent damage to screw slots. Quick-change, magnetic bit retainer also keeps small screws from getting lost. 2" magnetic extension provides extra reach. Accepts the Magna-Tip universal choke tube wrench, sold separately. **SPECS:** Aluminum handle, green. 3" (7.6cm) overall length, 1" (2.5cm) diameter. Accepts all Brownells 1/4" hex drive bits. 1" long bits - 445-1, 445-2, 445-3, 445-4 and 440-2 Phillips. Choke Wrench Bit - 1/4" (22.2mm) diameter, 1 1/2" (3.8cm) long.

- #080-000-023AQ Designated Driver, 1E22H91 ... \$ 29.99

FORSTER/BONANZA

GUNSMITH SCREWDRIVERS



Hardened Steel Screwdrivers 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. Because of the end use of this product, For-

ster offers a warranty on manufacturing defects but not misuse/abuse. **SPECS:** Tip sizes from 1/8" (3.1mm) to 3/16" (4.3mm) wide, .023" (.58mm) to .035" (.89mm) thick. Set of 8 in soft plastic case.

- #319-120-000AQ Screwdriver Set, 9A45L04 ... \$ 54.99
- #319-120-006AQ #6 X-L Screwdriver, 9A12H98 ... 15.99

CHAPMAN

SCREWDRIVER SET

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

Small, compact kit for field maintenance/repair on guns. Snap-lock, unbreakable, polyethylene case. Each alloy steel bit is held in the handle by ball detents and stop. Extension is equipped with set screw for permanent setup. Midget ratchet fits all bits, has 200 lb. working 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.

- #172-960-130AQ Midget Offset-Ratchet, 2G4D90 ... \$ 5.99
- #172-960-000AQ Chapman Screwdriver Set, 2G27150 ... 32.99

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. 4 1/2" (11.4cm) x 6" (15.2cm) case.

- #172-681-000AQ Torx/Allen Set, 2G38H40 ... \$ 44.99

CHAPMAN "G" SET - Nineteen additional bits for the Chapman Screwdriver Set. **SPECS:** Set contains 11 - Allen head Bits from 1/16" to 1/8"; 7 - Metric Allen head bits and 1 - 1/4" square drive adapter. Packed in vinyl holder.

- #172-960-118AQ Chapman "G" Set, 2G18D99 ... \$ 21.99

CHAPMAN TORX SET - Eight piece set. 7 Torx bits plus midget ratchet stored in soft vinyl pouch. **SPECS:** Set contains T-6 to T-30 Torx bits, ratchet, vinyl pouch.

- #172-106-800AQ Torx Set, 2G15J50 ... \$ 18.99

NO HANDLING CHARGE • NO MINIMUM ORDER ONE-RATE SHIPPING ANYWHERE IN THE U.S.

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 guaranteed against breakage. **SPECS:** Kit contains handle, extension, ratchet, 12 slotted head bits, 2 Phillips head bits, 10 Allen head bits. Packaged in a 6 1/2" (16.5cm) X 4 1/2" (11.4cm) polyethylene case.

- #172-890-000AQ Chapman Deluxe Screwdriver Set, 2G32A60 ... \$ 37.99

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 armorers 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. 6 1/2" (15.7cm) overall, 1 1/2" (4.5cm) long shank, 1 1/4" (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.

- #080-000-757AQ Tactical/LE Field Torx Kit, 8K13E74 ... \$ 17.99

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 nickel-plated ferrule. Made in the USA, guaranteed not to break or chip. **SPECS:** Set of 8 or individuals available. Wooden handles.

STOCK #	SCREW-DRIVER #	APPROX. BLADE WIDTH	APPROX. BLADE THICKNESS	OVERALL LENGTH
#354-008-001AQ	N3	.315"	.041"	9.25"
#354-008-002AQ	N2	.300"	.037"	4"
#354-008-003AQ	H3	.190"	.038"	7.5"
#354-008-004AQ	N4	.375"	.049"	9.50"
#354-008-005AQ	H2	.195"	.032"	6.25"
#354-008-006AQ	G2	.125"	.025"	4.5"
#354-008-007AQ	H4	.235"	.044"	8.5"
#354-008-008AQ	G3	.160"	.031"	5.5"

- Advise # - Individual Grace Screwdriver, 4E5L81 ... \$ 6.99
- #354-008-000AQ Grace 8-Screwdriver Set, 4E35I50 ... \$ 39.99



GRACE USA

SCREWDRIVER SETS



9-piece Hex Set



11-piece Star set

Always Have The Right Driver For The Job

Precision manufactured and hand-assembled screwdrivers give tight fit between driver and screw head to virtually eliminate marring under torque. Contoured hardwood handles with nickel-plated ferrules fit the hand comfortably. **Star Screwdriver Set** includes T5, T6, T7, T8, T9, T10, T15, T20, T25, T27 and T30 sizes. **Hex Screwdriver Set** includes 1/16", 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", and 5/8" sizes. **SPECS:** 8650 Chromium-Vanadium steel alloy blade, black oxide finish.

- #354-000-037AQ 11-Piece Star Screwdriver Set, 4E46G00 ... \$ 53.99
- #354-000-038AQ 9-Piece Ball Hex Screwdriver Set, 4E36L00 ... 41.99

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.

PISTOLSMTIH 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".

- #354-107-000AQ Pistolsmith 7-Screwdriver Set, 4E33D00 ... \$ 39.99

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".

- #354-105-000AQ Browning Screwdriver Set, 4E28Q00 ... \$ 32.99

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".

- #354-000-010AQ Colt Screwdriver Set, 4E21B00 ... \$ 24.99

WINDAGE SCREWDRIVER - Pre-ground, parallel tipped screwdriver correctly fits the windage screw slot to prevent slipping and marring the screw head. Fits windage screws 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 6 1/2" (16.5cm) OAL.

- #354-000-024AQ Windage Screwdriver, 4E10C87 ... \$ 13.49

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 ^{9/16}" (15.08cm) to 12 ^{7/8}" (32.7cm) OAL.

#354-000-035AQ Slotted Screwdriver Set, 4E48M00... \$ 63.99

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

#354-000-033AQ Phillips Screwdriver Set, 4E29L00... \$ 39.99

SQUARE RECESS SET - Three screwdrivers with round shanks come in the following sizes: **SR-0** - .075" (.191cm); **SR-1** - .091" (.231cm); and **SR-2** - .115" (.292cm). 5 1/2" (13.97cm) to 8 1/4" (20.96cm) OAL.

#354-000-034AQ Square Recess Screwdriver Set, 4E14A00... \$ 17.99

GRACE MICRO SCREWDRIVER SET



Extra Small Tips For Tiny Screws

Fixed-blade screwdrivers with steel shanks come in a set of three slotted and three Phillips tips for jobs involving tiny screws, like those on adjustable triggers, sights or scopes. Precise, snug fit between the driver and fastener minimizes potential for marring the head. Each is hand-assembled

to a square, hardwood handle that is etched with the size for fast identification.

SPECS: Blades - Chromium-vanadium 8650 alloy steel, black oxide finish. Ferrule - Steel, nickel-plated. Handle - Hardwood, smooth finish. Approx. 5.1" (12.95cm) OAL. Includes Phillips tips 000, 000, 00 and slotted tips (blade width x approx. blade thickness) 1/16" x .014", 3/64" x .018", and 1/32" x .022".

#354-000-036AQ Grace Micro Screwdriver Set, 4E21J50... \$ 29.99

TORQUE LIMITING SCREWDRIVER

Precise Tightening For Critical Gun Fasteners

Smooth, reliable, roller bearing cam ensures accurate, 6 to 36 in-lb torque measurements for accurate consistent tightening of action screws, mount and ring screws, and other gun fasteners. Spring-loaded collar locks driver at desired torque setting; auto-slip mechanism prevents over-tightening. Easy-to-release bit holder with chuck-type collet accepts 1/4" hex bits and adapters. Micrometer scale is calibrated to an accuracy of ± 6% on all readings above 20% of full scale. Includes NIST-traceable certificate of calibration. Strong, light, aluminum housing. Includes protective, hard case.

SPECS: Model TS-35. Aluminum housing with internal roller bearing cam. Adjustable, 6 to 36 in-lb (11-4.08 Nm). 6 1/2" (16.5cm) long, 6.5 oz (184g) wt. Includes instructions. Made in U.S.A.

#018-000-001AQ TS-35 Torque Screwdriver, 8A220N00... \$ 249.99

BROWNELLS 12-IN-1 PRECISION MINIATURE SCREWDRIVER SET



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

Precision made, hardened steel bits give you the right selection for repairing guns, cameras, computers, watches, and many other small items. Kit features six double-ended, quick change bits to fit most small screws found in the shop or home.

Bits snap into large, deep knurled, swivel top handle that provides easy one-hand use. Gives finger-tip control with tiny, easy-to-lose screws. Handle and bits are packed in a convenient plastic storage holder marked with the size of each bit.

SPECS: Four Phillips (000, 00, 0, 1) bits. Four slotted (1.5, 2.0, 2.5 and 3.2mm) bits. Four TORX (T-7, T-8, T-9 and T-10) bits.

#079-000-001AQ Miniature Screwdriver Kit, 1K13100... \$ 17.99

PRECISION INSTRUMENT SCREWDRIVERS IN HINGED WOODEN CASE

Very Best Quality To Handle Smallest Of Gun Screws

Precision screwdrivers. Handles are nickel-plated steel, ribbed for positive handling. Blades of ground, tempered steel are held firmly in place by special chucks. Heads are free-swiveling. Complete screwdrivers are sold as a full set or separately.

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.

#249-919-000AQ Instrument Screwdriver Set, 9D71D99... \$ 71.99

INDIVIDUAL COMPLETE SCREWDRIVERS			
STOCK #	SIZE	PRICE	
#249-914-060AQ	.06" (1.5mm)	9D10B78	\$ 10.78
#249-914-090AQ	.09" (2.3mm)	8K9J99	\$ 9.99
#249-914-115AQ	.115" (2.9mm)	8K9J99	\$ 9.99



Orders/Tech: 800-741-0015

order on the web **brownells.com**

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BROWNELLS FIXED-BLADE GUNSMITH'S SCREWDRIVER™

- 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 bugging 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 2 1/2" 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 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 reshaping while still maintaining the original blade width. In addition, it allows the screwdriver to go into holes or recesses that are only screw-slot 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 the set.

- 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 Set™. The Master Set™ has all 20 Screwdrivers, plus the properly radiused Bit Shaping Stone, and a bottle of Brownells Best Penetrating Oil™. 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. NONE of the four sets include the Bench Block - It's sold as a separate item and makes a great addition to your set, now or later. As with all our tools and supplies, they are guaranteed to please you, the most demanding craftsman in the world - the working gunsmith.

SPECS: 2 1/2" (6.3cm) long shanks. 3/4" (9.5cm) long x 1" (2.5cm) dia. handle. Each screwdriver packed in individual plastic tube.

STOCK #	SCREW-DRIVER #	SHANK DIA.	BLADE THICK	PRICE
#080-451-001AQ	1	.120	.030	8K10P06 \$ 11.99
#080-451-002AQ	2	.120	.040	8K10A06 \$ 11.99
#080-451-003AQ	3	.150	.030	8K10D06 \$ 11.99
#080-451-004AQ	4	.150	.040	8K10C06 \$ 11.99
#080-451-005AQ	5	.180	.030	8K10L06 \$ 11.99
#080-451-006AQ	6	.180	.040	8K10Q25 \$ 12.15
#080-451-007AQ	7	.210	.030	8K10K06 \$ 11.99
#080-451-008AQ	8	.210	.040	8K10C06 \$ 11.99
#080-451-009AQ	9	.240	.030	8K10H16 \$ 12.99
#080-451-010AQ	10	.240	.040	8K10C06 \$ 11.99
#080-451-011AQ	11	.270	.035	8K10F06 \$ 11.99
#080-451-012AQ	12	.270	.045	8K10Q06 \$ 11.99
#080-451-013AQ	13	.300	.035	8K10D06 \$ 11.99
#080-451-014AQ	14	.300	.045	8K10E17 \$ 12.99
#080-451-015AQ	15	.300	.055	8K10H06 \$ 11.99
#080-451-016AQ	16	.340	.040	8K10H06 \$ 11.99
#080-451-017AQ	17	.340	.050	8K10M06 \$ 11.99
#080-451-018AQ	18	.360	.040	8K10D06 \$ 11.99
#080-451-019AQ	19	.360	.050	8K10D06 \$ 11.99
#080-451-020AQ	20	.360	.060	8K11P15 \$ 13.15

#080-451-110AQ Fixed-Blade Starter Set, 8K81K99... 94.99

#080-451-210AQ Fixed-Blade Completer Set, 8K81N21... 89.99

#080-451-000AQ Fixed-Blade Gunsmith's Master Set, 8K149P99... 163.99

#080-454-000AQ Fixed-Blade Gunsmith's Super Master Set, 8K189I99... 199.99

#084-305-100AQ Master Set Oak Bench Block, 4H62E92... 76.99

#084-305-110AQ Add-On Oak Bench Block, 8K49I20... 69.99



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, 1 1/2" (3.8cm) long bits in flip-top storage box.

STOCK #	BIT #	BLADE WIDTH	BLADE THICK	PRICE
#080-120-120AQ	120-1	.120	.020	8K2P52 \$ 2.99
#080-120-225AQ	120-2	.120	.025	8K2N52 \$ 2.99
#080-150-120AQ	150-1	.150	.020	8K2H52 \$ 2.99
#080-150-225AQ	150-2	.150	.025	8K2F52 \$ 2.99
#080-180-120AQ	180-1	.180	.020	8K2G52 \$ 2.99
#080-180-225AQ	180-2	.180	.025	8K2P52 \$ 2.99
#080-210-120AQ	210-1	.210	.020	8K2F52 \$ 2.99
#080-210-225AQ	210-2	.210	.025	8K2B52 \$ 2.99
#080-240-120AQ	240-1	.240	.020	8K2E75 \$ 2.99
#080-240-225AQ	240-2	.240	.025	8K2B52 \$ 2.99
#080-270-120AQ	270-1	.270	.020	8K2Q52 \$ 2.99
#080-270-225AQ	270-2	.270	.025	8K2H52 \$ 2.99
#080-300-120AQ	300-1	.300	.020	8K2D52 \$ 2.99
#080-300-225AQ	300-2	.300	.025	8K2Q70 \$ 2.99
#080-340-120AQ	340-1	.340	.020	8K2M75 \$ 2.99
#080-340-225AQ	340-2	.340	.025	8K2H52 \$ 2.99
#080-360-120AQ	360-1	.360	.020	8K2M55 \$ 3.99
#080-360-225AQ	360-2	.360	.025	8K2B55 \$ 3.99

#080-120-000AQ Thin-Bit Set, 8K39L99..... \$ 49.99

#080-115-018AQ Thin-Bit Box 'N Tray Combo, only, no bits, 8K6H43..... 7.99

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
#080-441-001AQ	1	\$ 2.99	#080-441-003AQ	3	\$ 2.79
#080-441-002AQ	2	\$ 2.99			

#080-441-000AQ Anti-Cam Phillips Bit Set, 8K3D96 \$ 5.99

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
#080-435-031AQ	T5 Torx	\$ 2.99	#080-435-010AQ	T10 Torx	\$ 2.99
#080-435-032AQ	T6 Torx	\$ 2.99	#080-435-015AQ	T15 Torx	\$ 2.99
#080-435-033AQ	T7 Torx	\$ 2.99	#080-435-020AQ	T20 Torx	\$ 2.99
#080-435-034AQ	T8 Torx	\$ 2.99	#080-435-025AQ	T25 Torx	\$ 2.99
#080-435-035AQ	T9 Torx	\$ 3.10	#080-435-030AQ	T30 Torx	\$ 2.99

#080-435-000AQ Torx Bit Set, 8K14F64..... \$ 17.22

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", 1/32", 1/16" and 3/32" Square Bits. "Other Bit" Master Kit includes the Allen, Phillips and Square Bit Sets described; 17 bits in all.



#080-185-185AQ Allen Bit Set, 8K14L35..... \$ 16.99
#080-440-000AQ Phillips Bit Set, 8K3Q01..... 3.99

INDIVIDUAL MAGNA-TIP® SQUARE BITS

STOCK #	SIZE	PRICE	STOCK #	SIZE	PRICE
#080-444-100AQ	1/16"	\$ 1.99	#080-444-101AQ	3/32"	\$ 1.99
#080-444-102AQ	1/8"	\$ 1.99	#080-444-103AQ	1/16"	\$ 1.99
#080-444-000AQ Square Bit Set, 8K4D99..... 6.49					
#080-144-000AQ "Other Bit" Master Kit, 8K14P99... 16.99					

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
#080-118-015AQ	1.5mm	\$ 4.99	#080-118-050AQ	5mm	\$ 1.59
#080-118-020AQ	2mm	\$ 2.99	#080-118-060AQ	6mm	\$ 3.99
#080-118-025AQ	2.5mm	\$ 2.99	#080-118-070AQ	7mm	\$ 2.99
#080-118-030AQ	3mm	\$ 2.99	#080-118-080AQ	8mm	\$ 3.99
#080-118-040AQ	4mm	\$ 2.99			

#080-118-000AQ Metric Allen Head Bit Set, 8K19G06..... \$ 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.



#080-136-000AQ Long Phillips Blade, 8K2N52..... \$ 2.99

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: 1 1/16" (3.9cm) long, 3/16" (4.7mm) shaft diameter.

#080-137-002AQ Remington Square Bit, 8K2I52..... \$ 2.99

WINDAGE/CLAMP SCREW BITS - Custom ground bits for exact, no-slip, no-scar fit in virtually every scope base, ring, and windage/clamp screw used today. The Set includes all four bits at a great price savings. The Combo includes all four bits PLUS our short shank, Law Enforcement, Clip-Tip handle for excellent control and convenience.



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.

#080-430-625AQ WVR Clamp Screw Bit, 8K6M60..... \$ 7.99
#080-430-400AQ RED Clamp Screw Bit, 8K4K79..... 5.99
#080-430-430AQ L/B Clamp Screw Bit, 8K4Q90..... 5.99
#080-430-435AQ RUG Clamp Screw Bit, 8K7I50..... 8.99
#080-430-000AQ Windage/Clamp Screw Bit Set, 8K20H48..... 24.99
#080-430-100AQ Windage/Clamp Screw Bit Combo, 8K26G33..... 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: 1 1/8" (3.8cm) long.

#080-147-000AQ Millett Rear Sight Bit, 8K3C40..... \$ 4.99

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



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, 1 1/2" (3.2cm) diameter x 4 1/4" (12cm). Steel. 3/8" (9.5mm) sq. drive male end. Bit Holder, 3/8" (9.5mm) sq. drive (female) socket adapts 3/8" (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-TIP bits.

#531-290-000AQ Impact Driver, 1C23B68..... \$ 29.99
#080-430-025AQ Socket Drive Adapter, 8K4G22..... 4.99
#080-669-000AQ Impact Driver Set, 8K33G13..... 52.99

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

SPECS: 1 1/16" (3.9cm) overall length, 3/16" (8mm).

#080-434-045AQ Magna-Tip .45 Bushing Driver Bit, 8K8A49..... \$ 13.99

#080-134-001AQ 1911 Slim Bushing Bit, 8K9K34..... 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 too.



SPECS: Steel, heat treated. Allen: 1/16" hex. Slotted: 240-5. TORX: T-15. Fit Brownells 1911 Auto and Ruger Mk1/MkII grip screws.

#080-185-100AQ 3/16" Allen Bit, 8K2J52..... \$ 2.99

#080-240-540AQ #240-5 Slotted Bit, 8K2P52..... 2.99

#080-435-015AQ T15 Torx Bit, 8K2G52..... 2.99

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.

#080-000-656AQ Magna-Tip 4" Extension, 8K6E52..... \$ 9.99

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.

#080-401-250AQ Square Drive Adapter, 8K3K65..... \$ 4.99

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



SPECS: 1/8" (9.5mm) drive to 3/8" (6.3mm) hex. 1 1/4" (3.2cm) L x 1/4" (19.0mm) diameter. Nose is 1/16" (1.1mm) diameter.

#080-430-025AQ Socket Drive Adapter, 8K4G22..... \$ 4.99

SEE-THRU RING BITS - Extra-long MAGNA-TIP bits reach right through scope rings. Set includes bits for #6 and #8 slotted screws; 3/16" (fits Leupold) and 1/8" (fits Redfield) hex-head, T-10 and T-15 TORX ring and base screws.



SPECS: 1 1/8" (4.7cm) long overall, 1 1/4" (3.1cm) long shank.

#080-146-006AQ #6 Slotted See Thru Bit, 8K3Q19..... \$ 3.99

#080-146-008AQ #8 Slotted See Thru Bit, 8K3A49..... 4.49

#080-146-093AQ 3/16" Hex See Thru Bit, 8K3L88..... 4.99

#080-146-109AQ 1/8" Hex See Thru Bit, 8K4N20..... 4.99

#080-000-077AQ T-10 Torx See Thru Bit, 8K4P05..... 4.99

#080-000-078AQ T-15 Torx See Thru Bit, 8K3K88..... 4.99

#080-146-000AQ See-Thru Bit Set, 8K18F65..... 21.99



BONDHUS PRECISION SCREWDRIVER KIT



Adjustable Shafts With Interchangeable Bits To Fit & Reach Small Screws

Driver system has six, interchangeable steel shafts with 12 precision-ground bits for fast change from standard slot blade to Phillips or Torx® tip. Great for working on the many small parts and accessories

found in most gun shops and hobbyist work benches. Collet lets you adjust the shaft length approximately 3" to get to those hard-to-reach places. Rotating cap minimizes friction to ease screw removal or installation, while the hanging hole in the handle can be used with a second shaft as a T-handle for extra leverage to remove stubborn screws. Handle has a soft, ergonomic, rubber outer-grip for comfort and excellent grip.

SPECS: Handle - Steel, polypropylene, and neoprene, gray and black. Shaft/Bits - Chrome-moly-vanadium steel, 4 1/4" (12cm) long. Bits: Standard - 3/16" x .016" (2.0 x 0.4mm), 1/16" x .141" (3.5 x 0.6mm); Phillips - 000, 00, 0, and 1; Torx® - T6, T7, T8, T9, T10, T15.

#123-000-018AQ Precision Screwdriver Kit, | 3B34B25..... \$ 37.99

BONDHUS FIXED BLADE TORX DRIVERS



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

T-10 and T-15 fit Brownells, Burris and Leupold scope ring and base screws. Ball-head driver can be held as much as 25° off angle and still grip the screw socket tightly. Hardened, steel shaft gives excellent reach; fluted handle provides a solid grip.

SPECS: T-10 - 5" (12.7cm) long, 2 1/4" (7cm) long shank. T-15 - 5 1/2" (14cm) long, 2 1/8" (7.3cm) long shank.

#123-127-100AQ T-10 TORX Driver, 3B5Q50..... \$ 6.99

#123-127-150AQ T-15 TORX Driver, 3B5J50..... 6.99

BROWNELLS TORX® DRIVER SET



Popular Sizes For Gun Work; Comfortable Grip For Excellent Control

Professional-grade Torx driver set with eight of the most popular sizes equips you to work on almost any Torx® screw found on guns and firearm accessories. Precision-machined steel shaft is heat-treated for super strength, so when you're wrestling to loosen stubborn screws, these drivers won't give out and break like cheap hardware store drivers. Shaft lengths are carefully selected to provide the best balance of reach and rigidity. The comfortable, ergonomically shaped, synthetic rubber handle gives you a secure, non-slip grip and great control. T-10 and T-15 drivers fit Brownells, Burris, and Leupold scope ring and base screws. Comes in a reusable, heavy duty clear plastic pouch.

SPECS: Heat-hardened steel. Set includes T-6, T-7, T-8, T-9, T-10, T-15, T-20, and T-25 sizes. Shaft lengths from 4 1/4" (T-6) to 5 1/4" (T-25).

#080-000-724AQ Torx Driver Set, 8K23M00..... \$ 29.99

SATISFACTION GUARANTEED SINCE 1939

NEW!

**BEST WAY TOOLS
SOFT JAW PLIERS**

Helps Prevent Marring

Pliers feature nylon 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.



- #100-015-336AQ Soft Jaw Pliers, 7B13D50 \$ 15.99
- #100-015-335AQ Soft Jaw Needle Nose Pliers, 7B19H75 23.99
- #100-015-337AQ Soft Jaw Tongue & Groove Pliers, 7B25K00 29.99
- #100-015-338AQ Replacement Insert, Needle Nose, 7B4F22 4.99
- #100-015-339AQ Replacement Insert, Pliers, 7B3P25 3.99
- #100-015-340AQ Replacement Insert, Tongue & Groove Pliers, 7B3I25 3.99

**GUNSMITH'S
LONG CHAIN NOSE PLIER**

Heavy-Duty, Needle-Nose



Much heavier than needle-nose pliers. Finely serrated jaws
SPECS: 6" (15.2cm) - 6 1/2" (16.4cm) overall, 1 1/8" (4.8cm) jaw.

- #191-103-360AQ 6" Chain Nose Pliers, 1A13P50 \$ 15.99

NEW!

**GRACE
PLIERS**

Quality, Precision Tools For Long-Lasting Performance

High-quality pliers are precisely handcrafted for years of reliability at your workbench or home. **Needle Nose** offers a built-in wire cutter and finely serrated jaws that tightly grab springs and other small parts. **Diagonal** features exceptionally sharp edges and flush snipping action. **Angle Nose Slip Joint** has three adjustable pivot points to increase grip size range, with a flat mouth and milled teeth that curve at the back for rounded objects, like hot metal rods. Rubber-covered handles ensure a comfortable and firm hold. Available individually or as a 3-piece set. **SPECS:** Steel. **Needle Nose** - 6 1/2" (16.5cm) OAL. 1 1/8" (4.9cm) long jaw, including cutter. **Diagonal** - 6 1/4" (15.9cm) OAL. 1 1/8" (2.1cm) long jaw. **Angle Nose Slip Joint** - 5 1/4" (13.7cm) OAL.



- #354-000-048AQ Needle Nose Pliers, 4E18A60 \$ 21.99
- #354-000-049AQ Diagonal Pliers, 4E18M60 21.99
- #354-000-050AQ Angle Nose Slip Joint Pliers, 4E10D00 11.99
- #354-000-051AQ Pliers Set, 4E47K15 54.99

NEW! WANT MORE NEW PRODUCTS? SHOP ON LINE! PRODUCTS ADDED DAILY

GERMAN MADE

SPECIAL GUNSMITHING PLIERS

Super Strength Box Joints For Maximum Precision

"BUCHSENMACHER" (GUNSMITH) PLIERS

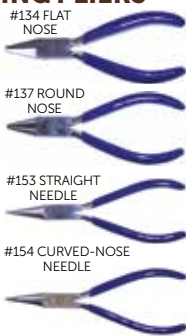
Perhaps no other tool on the bench is required to do more jobs than the Gunsmith's pliers - everything from getting up inside a small action and inserting a spring the size of a small hair, to holding red-hot rods while being formed. Because of the extremely rough, to extremely delicate, work done with pliers, just being tools isn't enough; they must be instruments.

These pliers are manufactured by a company that has long specialized in QUALITY - respected for generations.

They are of strong box construction. This gives the pliers greater strength and prevents loosening of the joints when doing twisting and turning operations. Finish: Polished steel jaws and joints.

Each tool is guaranteed for quality and service. The manufacturer's slogan since 1824 has always been, "First Quality and Then Price". This manufacturing policy is of greater importance to the craftsman today than ever before. **SPECS:** 145mm long. (Approximately 5 1/2")

- #249-130-134AQ 134 Flat Nose Pliers, 9D34N99 \$ 34.99
- #249-130-137AQ 137 Round Nose Pliers, 9D27L99 27.99
- #249-150-153AQ 153 Straight Needle Pliers, 9D28B99 28.99
- #249-150-154AQ 154 Curved Needle Pliers, 9D29I99 29.99



HIGH GRADE PARALLEL JAW PLIERS



Most "Parallel" We've Found

English-made with heat-treated, flat-nosed jaws. Smooth-jawed model gives a tight, non-marking grip. Serrated model holds tightly and includes a lengthwise groove to hold wire or drill rod. **SPECS:** Both; 5" (12.7cm) long, 1 1/8" (2.9cm) deep throat, open to 7/16" (11.1mm) wide. Nickel plated handles, blued jaws.

- #348-181-105AQ Smooth Parallel Pliers, 8D30P29 \$ 34.95
- #348-181-103AQ Serrated Parallel Pliers, 8D24E82 34.95

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. 1 1/4" (3.2cm) 2 1/2" (6.3cm) long. **Inch Set** includes: .028", .035", .050", 1/16", 3/16" and 1/8" sizes. **Metric Set** includes: .7mm, .89mm, 1.27mm, 1.5mm, 2mm, 2.5mm, 3mm.

- #123-000-016AQ Inch Short-Arm Hex "L" Wrench Set, 3B6M37 \$ 7.99
- #123-000-017AQ Metric Short-Arm Hex "L" Wrench Set, 3B6L74 7.99



BONDHUS

BALL-HEX "L" WRENCHES

Work At Angles Up To 25°

Because they can be "off" as much as 25°, ball-end, hex wrenches will work in places conventional ones won't. Use "square" end when more leverage is needed. Supplied in deluxe case with a locking slot for each wrench. **SPECS:** 2 1/8" (7.3cm) - 6 1/2" (16.5cm) long. **Inch Set** - 12 sizes: .050", 1/16", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1". **Metric Set** - 9 sizes: 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10mm.

STOCK #	SIZE	PRICE	STOCK #	SIZE	PRICE
#123-109-050AQ	.050"	\$.99	#123-109-125AQ	1/8"	\$ 1.09
#123-109-062AQ	1/16"	\$.99	#123-109-140AQ	3/8"	\$ 1.09
#123-109-078AQ	1/8"	\$.99	#123-109-156AQ	1/2"	\$ 1.09
#123-109-093AQ	3/16"	\$.99	#123-109-187AQ	3/16"	\$ 1.29
#123-109-109AQ	1/4"	\$ 1.09			

- #123-109-000AQ Inch Ball-Hex Wrench Set, 3B10I00 \$ 11.99
- #123-110-000AQ Metric Ball-Hex Wrench Set, 3B10B00 11.99



BONDHUS

FOLD-UP WRENCH SETS

Compact Units Fit Range Bag Or Tool Box



Compact, easy-to-grip sets feature chamfered tips for easier insertion into screw heads. #12591 - Hex. Nine sizes from .050" to 3/16". #12589 - Hex. Nine sizes from 3/16" to 1/4". #12592 - Metric. Seven sizes from 1.5mm to 6mm. #12632 - Torx®. Eight sizes from T6 to T25. **SPECS:** Hardened steel wrenches 1.5" to 2.5" (3.8cm to 6.35cm) long. High impact synthetic case, approx. 4" long.

- #123-125-910AQ #12591 Fold-Up Hex Wrench Set, 3B4A20 \$ 4.99
- #123-125-890AQ #12589 Fold-Up Hex Wrench Set, 3B5M10 5.99
- #123-125-920AQ #12592 Fold-Up Hex Wrench Set, 3B4I20 4.99
- #123-126-320AQ #12632 Fold-Up Torx Wrench Set, 3B9H50 10.99



BROWNELLS

MAGNA-TIP® ADJUSTABLE TORQUE HANDLE

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

Precision-adjustable torque driver ensures that you apply the exact amount of leverage needed to accurately tighten a wide variety of gun screws, including action screws and screws for scope rings and mounts. Adjustable from 10 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. Rugged, 3/8" square drive bit locks positively to the included socket adapter to let you use any Magna-Tip bit. The adapter's clip-style chuck grasps the bit securely to prevent slipping or falling out. Streamlined, teardrop-shaped handle provides a secure grip for maximum leverage and even transfer of tight-



NEW!

BONDHUS®

PROHOLD® "L" WRENCHES

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

A nylon button in the long end holds screw snugly on the wrench, helping to prevent dropped and lost screws. Because they can be "off" as much as 25°, wrenches will work in places conventional ones won't. Use "square" end when more leverage is needed. Supplied in deluxe case with a locking slot for each wrench. **SPECS:** High-torque steel. 2 1/8" (7.3cm) - 6 1/2" (16.5cm) long. **Inch Ball-Hex Set** - 13 sizes: .050", 1/16", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1". **Metric Ball-Hex Set** - 9 sizes: 1.5, 2, 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.

STOCK #	SIZE	PRICE	STOCK #	SIZE	PRICE
#123-000-003AQ	.050"	\$ 1.49	#123-000-008AQ	1/8"	\$ 1.89
#123-000-004AQ	1/16"	\$ 1.49	#123-000-009AQ	3/16"	\$ 1.89
#123-000-005AQ	1/8"	\$ 1.49	#123-000-010AQ	1/4"	\$ 1.99
#123-000-006AQ	3/16"	\$ 1.59	#123-000-014AQ	3/16"	\$ 3.99
#123-000-007AQ	1/4"	\$ 1.69			

- NEW 123-000-019AQ 13-Piece Inch Ball-Hex Wrench Set, .050" to 3/8", 3B18E50 \$ 21.99
- NEW 123-000-020AQ 9-Piece Metric Ball-Hex Wrench Set, 1.5mm to 10mm, 3B15D00 17.99
- NEW 123-000-021AQ 8-Piece Star Tip Wrench Set, T9 to T40, 3B15F50 17.99

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", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1". Yellow coated. **Metric Set** - 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm. Red coated.

- #587-000-001AQ Inch Twisted Hex Wrench Set, 7H19K50 \$ 22.99
- #587-000-002AQ Metric Twisted Hex Wrench Set, 7H19E50 22.99

ing force. To change torque setting, lift the handle, turn it to the desired setting indicated through the easy-to-read window scale, and push back in until it snaps firmly into place. A self-limiting clutch "clicks" free when the specified amount of torque is reached, preventing further tightening and possible damage to components. Rubber-coated aluminum body provides additional gripping surface and protects your gun from scratches. Sturdy, hard-side carrying case included. **SPECS:** Steel, aluminum housing with synthetic rubber cover, and high-impact plastic handle. 7 1/8" (18cm) length overall. **Hand Grip** - 6 1/8" (15.6cm) long, 2" (5cm) wide. Adjustable 10 - 70 in-lb., 1 in-lb. increments. Socket adapter and injection-molded carry case included.

- #080-000-515AQ Adj. Torque Handle, only, 8K119J99 \$ 149.99

GENERAL GUNSMITH TOOLS

PLIERS

WRENCHES

BROWNELLS

MAGNA-TIP® PRESET TORQUE DRIVER



Protects Screw Heads From Damage Caused By Over-Tightening

Every time you reach for one of these drivers, you'll be able to apply the exact amount of tightening force you need consistently and repeatedly—no adjustments, no settings to change. Available in 15, 25, and 45 in.-lb. settings, this driver features a self-limiting clutch that stops tightening when the preset torque level is reached. Prevents over-tightening that causes stripped threads, broken-off screw heads, and other damage that comes from applying too much force. Perfect for high-volume, frequently performed tasks where you need to apply the same torque force over and over again. The hardened stainless steel shank transmits all the energy evenly to the screw, while the magnetic bit socket accepts any Magna-Tip bit we sell. Tear-drop shaped polymer handle with rubberized gripping surface ensures a comfortable, consistent grasp. **SPECS:** Shank - Hardened stainless steel, natural silver finish. Handle - Reinforced molded polymer, blue, and synthetic rubber, black. 4 1/2" (11.4cm) OAL. 3 1/2" (8.9cm) wide handle.

#080-000-640AQ Magna-Tip Torque Driver, 15 in.-lb., 8K24L78 \$ 29.99
#080-000-641AQ Magna-Tip Torque Driver, 25 in.-lb., 2B24F78 29.99
#080-000-643AQ Magna-Tip Torque Driver, 45 in.-lb., 2B24E78 29.99

CALIFORNIA TORQUE PRODUCTS
TORQUE WRENCHES

For Precise Tightening Of Barrel Nuts, Triggerguard Screws, Scope Ring & Base Screws

Steel, chrome-plated, adjustable torque wrenches let you determine the exact inch-pounds or foot-pounds of torque to apply when tightening barrel nuts, triggerguard screws, scope ring and base screws. Tightening to the same reading every time provides improved accuracy and shot-to-shot consistency. Turn and lock handle to set desired torque; wrench "clicks" when screw reaches proper tightness. Comfortable rubber handle provides a good grip, so you can control the amount of torque you're applying. Impact-resistant, polycarbonate case provides protection and keeps wrench clean during storage. 1/4" Drive torque wrench is adjustable from 30 to 200 in.-lb., in one in.-lb. increments, and is not for use on size 8 or smaller diameter screws. Accepts all 1/4" and 3/8" drive attachments; includes 3/8" drive adapter. 3/8" Drive torque wrench is adjustable from 10 to 80 ft.-lb., in 1/2 ft.-lb. increments. Accepts all 3/8" drive attachments. 1/2" Drive torque wrench is adjustable from 20 to 150 ft.-lb., in one ft.-lb. increments. Accepts all 1/2" drive attachments.

SPECS: Steel, chrome plated; rubber covered handle. +/- 3% accuracy. 1/4" (6.3mm) Drive - 3/4" (1.9cm) O.D. 1-1516" (4.8cm) O.D. handle. 12 1/2" (31.7cm) OAL. Includes 1/4" to 3/8" adapter. Adjustable 30-200 in.-lb., 1 in.-lb. increments. 3/8" (9.525mm) Drive - 1 1/8" (4.1cm) O.D., 1 7/4" (43.8cm) OAL. Adjustable from 10 to 80 ft.-lbs. in 1/2 ft.-lb. increments. 1/2" (12.7mm) Drive - 1" (2.5cm) O.D. 1 1/2" (4.1cm) O.D. handle. 20" (50.8cm) OAL. Adjustable 20-150 ft.-lb., 1 ft.-lb. increments. Includes certificate of calibration.

#100-003-985AQ 1/4" Torque Wrench (30-200 in.-lb.), 4E129G65 \$ 179.99
#100-010-680AQ 3/8" Torque Wrench (10-80 ft.-lb.), 2B109E50 159.99
#100-003-986AQ 1/2" Torque Wrench (20-150 ft.-lb.), 4E170A00 199.99

BORKA ENTERPRISES
PRECISION TORQUE LIMITERS

Pre-Set Limiters Help You Apply Precise Torque

Steel torque limiters feature two adapters that fit 3/8" square and 1/4" hex drives and let you apply torque in pre-set inch-lbs increments. Limiter is clearly marked for fast and easy identification.

Available in 15, 25, 35, 45, 55 and 65 inch-lbs settings. Each limiter is clearly marked for fast and easy identification.
#100-014-403AQ 15 inch-lbs Torque Limiter, 1D45J71 \$ 53.99
#100-014-404AQ 25 inch-lbs Torque Limiter, 1D45G71 53.99
#100-014-405AQ 35 inch-lbs Torque Limiter, 1D45P71 53.99
#100-014-408AQ 45 inch-lbs Torque Limiter, 1D45M71 53.99
#100-014-409AQ 55 inch-lbs Torque Limiter, 1D45K71 53.99
#100-014-410AQ 65 inch-lbs Torque Limiter, 1D45C71 53.99

SEEKONK 1 TO 75 INCH POUND
VARIABLE TORQUE WRENCH

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



Chrome-plated, high-alloy steel, variable-dial torque wrench lets you see the exact amount of inch pounds you're applying. Large dial, with contrasting, black numerals on a white background, is easy to read; includes one-inch-pound graduations from 1 to 75. Heat-treated, molybdenum, fish-scaled handle lets you get a good grip so you can control the amount of torque you're applying. Encased in an impact-resistant polycarbonate box. Requires 1/4" socket-drive conversion for use on screws (listed with Torque Handles). **SPECS:** Chrome-plated, high-alloy steel and plastic body; molybdenum handle. 1/4" (6.35mm) drive. 2 1/4" (5.5cm) O.D. dial. 3/4" (20mm) O.D. handle. 10 1/4" (26cm) OAL. +/- 3% accuracy.

#792-000-001AQ 1-75 in. Lb. Variable Torque Wrench, 2G149F03 \$ 185.99

WHEELER ENGINEERING
FAT WRENCH

Set Proper Torque On Screws To Help Maximize Accuracy

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

#100-012-250AQ FAT Wrench w/10 Bit Set, 7A48G00 \$ 54.99

SEEKONK

1/4" DRIVE TORQUE HANDLE



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

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

Accepts all 1/4" drive attachments. **SPECS:** Steel, chrome plated. 3 1/2" (8.8cm) high, 4 1/2" (10cm) wide.

#792-000-002AQ 15in/lb Torque Handle, 2G92H18 . . . \$ 115.99
#792-000-003AQ 20in/lb Torque Handle, 2G89K48 . . . 112.99
#792-000-004AQ 25in/lb Torque Handle, 2G92H18 116.99
#792-212-035AQ 35in/lb Torque Handle, 2G90J45 . . . 112.99
#792-212-045AQ 45in/lb Torque Handle, 2G93A18 . . . 116.99
#792-212-055AQ 55in/lb Torque Handle, 2G92L18 . . . 116.99
#792-212-062AQ 62in/lb Torque Handle, 2G85J73 . . . 104.99
#792-212-065AQ 65in/lb Torque Handle, 2G92D51 . . . 116.99

SQUARE-TO-HEX 1/4" DRIVE CONVERTER

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

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

#084-095-250AQ 1/4" Socket, 2Z3P99 \$ 4.49
#084-095-230AQ ZM23 Converter, 8K17K20 21.99

1/2" TORQUE WRENCH



For Barrel Nuts & Any Bolts You Want Precisely Tight

Set the dial handle to desired torque; wrench "clicks" when the number is reached. The right tool for AR-15/M16 barrel nuts, bolt carrier key, or action screws on any rifle. **SPECS:** Chrome-plated steel. 1/2" (12.7mm) drive. 17 1/2" (43.5cm) long. 1" (2.5cm) diameter handle. 30 - 150 foot pound range.

#018-150-050AQ 1/2" Torque Wrench, 8F129F99 \$ 136.99

JEWELER'S DEEP SAWFRAME



Handy Little Jig Saw

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

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

#249-146-500AQ Jeweler's Sawframe, 9D25Q83 \$ 25.83

PIERCING BLADES - Round back follows curves. Pak of 12. **SPECS:** 5/16" (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.

#360-081-001AQ Size 1 (47 Tpi) Sawblades, 6C5G99 . . . \$ 5.99
#360-121-004AQ Size 4 (37 Tpi) Sawblades, 6C5N70 . . . 5.70
#360-141-006AQ Size 6 (33 Tpi) Sawblades, 6C6F99 . . . 6.99
#360-181-010AQ Size 10 (24 Tpi) Sawblades, 6C8B45 8.45

BROWNELLS FILE CHALK



Extends File Life, Makes Using/Cleaning File Easier

Filling file teeth with this chalk is an age old "Gunsmith Kink" to prevent "pinning", the buildup of metal chips in

the teeth of the file. It increases the effectiveness of the file, extends file life, and produces a smoother, more professional finish. Metal removal is faster and easier, too. An inexpensive time and money saver. For superior results, use file chalk along with a good file card, listed elsewhere. **SPECS:** 4" (10.2cm) long, 1" (2.5cm) diameter 2 pieces per tube.

#080-705-006AQ File Chalk, 6 pieces, 8K4J61 \$ 5.99
#080-705-012AQ File Chalk, 12 pieces, 8K8C15 10.99

BROWNELLS FILE STARTER SET

The Basic Files That Belong On Every Gunsmith's Bench



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

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

#080-803-000AQ File Starter Set, 8K320H50 \$ 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,

scribes right where they're always handy. Frees up tool box space. Designed by a gunsmith for use on his own bench, and shared with us because it's such a great tool holder. **SPECS:** 15" (38.1cm) long, 3" (7.6cm) wide, 2 1/4" (5.7cm) high. 12 holes 1/16" (1.1mm) diameter; 16 holes 3/32" (7.1mm) diameter; 12 holes 1/8" (4.8mm) diameter. All holes 1 1/4" (3.2cm) deep.

#084-305-101AQ Punch & Needle File Block, 4H40G18 \$ 47.99

BROWNELLS
FILE & SCREWDRIVER RACK

Keeps Files & Screwdrivers Neatly Organized

Scratch-resistant, forestgreen, powder-coated rack organizes often-used screwdrivers and files. Drilled-mounting holes let you attach it in the most convenient spot. **SPECS:** Aluminum, 6063-T5. 12" (30.48cm) long, 1.5" (3.81cm) wide, 1.5" (3.81cm) tall. Slots: .35" (8.9mm) wide, 1" (2.54cm) deep.

#080-000-043AQ File & Screwdriver Rack, 8K17D60 . . \$ 26.99

FILE ACCESSORIES

DOUBLE-FACE FILE CLEANER - Stiff, 7/16" long, angle bent, steel wire bristles, plus 3/4" long, stiff synthetic bristles. **SPECS:** 9" (22.9cm) overall length. Hardwood body.



#537-020-002AQ File Cleaner, 8K9J35..... \$ 12.99

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.



#345-890-000AQ File/Tool Handle, each, 5D7H99..... \$ 7.99

BROWNELLS

MOLDED PLASTIC TOOL HANDLES

Ready To Mount On Tools



Pre-shaped and drilled for screwdrivers, chisels, etc. **SPECS:** L1 - 2 1/4" (7cm) long, 5/16" (15.9mm) dia. Hole is 1/8" (3.2mm) dia. L2 - 3" (7.6cm) long, 11/16" (20.6mm) dia. Hole is 1/8" (3.2mm) dia. L3 - 3 3/8" (8.6cm) long, 13/16" (24mm) dia. Hole is 1/8" (4.8mm) dia. L4 - 3 3/4" (9.5cm) long, 1 1/16" (2.7cm) dia. Hole is 1/4" (6.3mm) dia. L5 - 4 1/2" (11.4cm) long, 1 1/8" (3cm) dia. Hole is 3/16" (7.9mm) diameter. Try-Pak contains one each in yellow and black, 10 in all.

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

#016-100-000AQ Plastic Handle Try-Pak, 1K15P99... \$ 15.99

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. Improves file control and helps reduce hand fatigue. Flared neck with ribs keeps your hand from sliding forward when you need to really "bear down" on the material. Four removable inserts accept most popular file sizes. **SPECS:** Molded rubber, black. 4 1/2" (11.4 cm) long.



#191-000-001AQ File Handle, 1A3B99..... \$ 4.99

NEEDLE FILE HANDLES

The ONLY Way To Properly Hold & Control Needle Files



Helps the needle file become a part of your hand to control cut direction and eliminate canting. Seat file into hollow handle to any length desired and lock in place with positive-grip collet. **SPECS:** 3 3/16" (8cm) long, 13/16" (20.6mm) diameter Black plastic.

#249-210-300AQ Needle File Handle, 8K7100..... \$ 8.99

- 3 or More - Needle File Handles, per each, 8K5K99..... \$ 5.99

ASK ABOUT **OVERNIGHT DELIVERY!**

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.



#290-600-100AQ Eze-Lap 600 Set, Fine, 9B25L79..... \$ 35.29

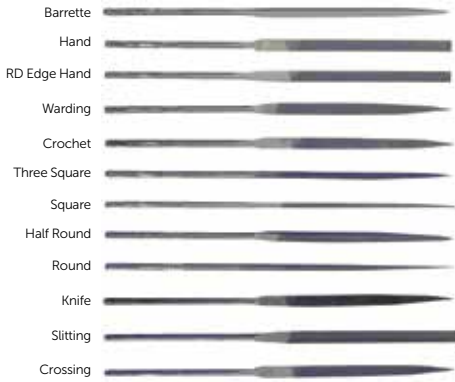
#290-600-200AQ Eze-Lap 600 Set, Coarse, 9B29E49... 39.79

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

- Advise # - Single Eze-Lap, Fine, 9B4C99..... \$ 6.99

- Advise # - Single Eze-Lap, Coarse, 9B5L49..... 7.79

PROFESSIONAL GUNSMITH NEEDLE FILE SET



Finest Professional Gunsmith Quality

Finest Professional Quality Gunsmith Needle Files in set of 12 assorted shapes. Made of best materials to rigid quality standards. Cuts are deep and durable. Knurled handles for no-slip use or convenient lock-up in Needle File Handles shown below. Comes in heavy-duty, see-through, pocketed roll with snap closure. Protects files, yet gives immediate access to shape wanted. Sold in sets or singles. **SPECS:** Set contains 1 each of the following shapes: Barrette, Hand, Hand with round edges, Warding, Crochet, Three Square, Square, Half Round, Round, Knife, Slitting and Crossing. Approx. 5 1/2" (14cm) overall length. Shank 2 3/8" (6cm) x 1/8" (3.2mm) dia.

#249-210-010AQ Medium Needle File Set, 9D111M00..... \$ 119.99

#249-210-030AQ Fine Needle File Set, 8K100L00..... 109.99

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

- Advise # - Needle Files, each, 9D9J95..... \$ 12.99

DIAMOND NEEDLE FILES

Fast Material Removal, Incredibly Long Life

Needle files with an extraordinary, industrial diamond cutting surface to cut carbide, hardened steels, and ceramics. Give excellent material removal and long life. **SPECS:** 5 1/2" (14.0cm) overall, 2 1/2" (6.3cm) cutting surface. Set includes 5 files, one each: #1D - Equalling, #2D - Half Round, #3D - Round, #4D - Square, #5D - Three-Square.

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

- Advise # - Needle File, each, 6C20K12..... \$ 22.99

#360-339-701AQ Needle File Set, 6C115P13..... \$ 117.99

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

#080-648-600AQ Coarse 60° Bent Needle File, 8K10G85..... \$ 12.99

#080-648-602AQ Med. 60° Bent Ndl File, 8K21E70..... 24.99

#080-648-604AQ Fine 60° Bent Ndl File, 8K22J50..... 25.99

BROWNELLS "V" SHAPED 90° BENT NEEDLE FILES



Made Especially To Custom Specs For Checkering

Made for us on special order for gun checkering. Cutting edge of the "V" is 90°, thus eliminating tipping the tool from one side to the other to point-up 90° diamonds. Assures good, positive work. Uniform contact and shape. Back of file is "Safe". **SPECS:** 6 1/2" (15.9cm) overall length. Medium or Fine cut.

#080-648-901AQ Med. 90° Bent File, 8K22K00..... \$ 23.99

#080-648-903AQ Fine 90° Bent File, 8K9E56..... 13.49



RAMRODZ

3-PIECE FLAT FILE SET

Ideal For Metal, Wood, & Polymer



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

#100-015-133AQ 3-Piece Flat File Set, 7C22F50..... \$ 26.99

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", .120", .130".



#100-015-132AQ 12-Piece Diamond Micro Files, 7C22E50..... \$ 26.99

AMERICAN PATTERN HAND FILES



Versatile Design For Shaping

Basic, all-purpose file for dressing, striking off, shaping and metal removing of all types. Parallel in width, taper slightly in thickness. Double-cut sides; one edge is single-cut, other is safe. **SPECS:** 8" (20.3cm) - 2 1/2" (19.8mm) wide x 1/32" (5.6mm) thick. 10" (25.4cm) - 2 1/2" (24.6mm) wide x 1/4" (6.3mm) thick.

STOCK #	CUT	PATTERN	LENGTH	PRICE
#191-058-530AQ	Bastard	Amer.	8"	1A7K99 \$ 9.99
#191-058-860AQ	2nd	Amer.	8"	1A9N50 \$ 11.99
#191-058-190AQ	Smooth	Amer.	8"	1A9Q50 \$ 12.50
#191-059-680AQ	Bastard	Amer.	10"	1A11N25 \$ 13.99
#191-060-010AQ	2nd	Amer.	10"	1A12L75 \$ 15.99
#191-060-340AQ	Smooth	Amer.	10"	1A14I49 \$ 16.99

AMERICAN PATTERN ROUND FILES

For Smooth, Precise Metal Removal

American pattern, smooth cut round files allow even, gradual metal removal for an outstanding finish. Available in several different diameters to handle a variety of jobs. **SPECS:** Steel, round files. 7 1/4" (15cm) long x 1/8" (3.2cm) or 1/32" (3.9cm) dia.; 9 1/2" (15cm) long x 3/16" (4.7cm), 1/32" (5.5cm), or 1/4" (6.3cm) dia.

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

- Advise # - Round File, 1A3F75..... \$ 4.99

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

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

AMERICAN PATTERN FILES

Excellent For Finish Work

MILL FILES

Made especially for draw-filing and finishing metals. Taper slightly in width, thickness stays the same over the entire length. Both edges are square. Single cut on sides and edges. SPECS: 6" (15.2cm), 3/16" (7.1mm) wide x 7/16" (2.8mm) thick. 8" (20.3cm), 3/16" (19.9mm) wide x 3/16" (3.6mm) thick. 10" (25.4cm), 3/16" (24.6mm) wide x 3/16" (4.4mm) thick.

STOCK #	CUT	LENGTH	PRICE
#191-083-540AQ	Bastard 6" (15.2cm)	1A4N50	\$ 5.99
#191-083-850AQ	Second 6" (15.2cm)	1A6N50	\$ 7.99
#191-084-160AQ	Smooth 6" (15.2cm)	1A6N75	\$ 8.49
#191-084-970AQ	Bastard 8" (20.3cm)	1A5L60	\$ 6.99
#191-085-290AQ	Second 8" (20.3cm)	1A7A65	\$ 9.99
#191-085-600AQ	Smooth 8" (20.3cm)	8K7K35	\$ 9.99
#191-086-730AQ	Second 10" (25.4cm)	1A9N25	\$ 11.49
#191-087-040AQ	Smooth 10" (25.4cm)	1A9H75	\$ 12.49

LATHE FILES

"The only way to file a barrel in a lathe" - P.O. Ackley. Heavy and stiff, with about twice as much slant on the teeth as a standard file. Produces a shearing cut on the lathe. SPECS: 10" (25.4cm) 3/16" (24.6mm) wide. 1/2" (6.3mm) thick. 12" (30.5cm) 3/16" (3.0mm) wide. 3/16" (7.1mm) thick.

#191-076-570AQ	10" Lathe File, 1A13B00	\$ 16.99
#191-076-980AQ	12" Lathe File, 1A17B25	21.89

HALF-ROUND FILES

Choice between flat and curved surfaces. Taper slightly in both width and thickness. Bastard works for wood and metal. SPECS: Double-cut flat side, single-cut curved side. 8" (20.3cm) long, 1/4" (19mm) wide, 7/16" (5.6mm) thick.

STOCK #	CUT	LENGTH	PRICE
#191-049-600AQ	Smooth 8" (20.3cm)	8K11E96	\$ 16.49
#191-048-960AQ	Bastard 8" (20.3cm)	1A11I75	\$ 14.99
#191-049-270AQ	2nd 8" (20.3cm)	1A12A25	\$ 15.49

HELLER AMERICAN PATTERN HAND FILES

Gives Excellent Control. Multi-Cut breaks the chips. Select the **Second Cut** for fine finish work, **Double Cut Bastard** for medium cutting. **3-File Set** includes all three files and a storage pouch.

SPECS: 10" (25.4cm) long, 1" (2.5cm) wide. 3/16" (3.98mm) thick.

#651-000-001AQ	Multi-Cut File, 1E9A89	\$ 12.99
#651-000-002AQ	Second Cut, 1E7I95	9.75
#651-000-003AQ	Double Cut Bastard, 1E9K99	12.99
#651-000-004AQ	3-File Set, 1E41J99	52.99

SWISS PATTERN BARRETTE FILES

For Fine Detail Work

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

#191-350-310AQ	4" Barrette #0 Cut, 1A18Q75	\$ 22.99
#191-350-370AQ	4" Barrette #1 Cut, 6C20H62	23.99
#191-350-610AQ	6" Barrette #0 Cut, 1A22P00	25.99
#360-310-291AQ	6" Barrette #1 Cut, 6C24B80	28.99
#191-350-730AQ	6" Barrette #2 Cut, 1A23L00	26.99

SWISS PATTERN PILLAR FILES

Four Widths For Precise Final Filing

STANDARD PILLAR FILES - Swiss Pattern

Similar in shape to the Hand Files, but only about two-thirds as wide. Double-cut on sides; edges are safe. Swiss Pattern.

SPECS: 4" (10.2cm) #0 & #2 cut, 3/16" (9.1mm) wide x 3/16" (2.8mm) thick. 6" (15.2cm) #00, #0 & #2 cut, 3/16" (11.9mm) wide x 3/16" (3.6mm) thick. 8" (20.3cm) #00, #0, #2 cut, 3/16" (15.5mm) wide x 3/16" (5.2mm) thick.

STOCK #	CUT	LENGTH	PRICE
#191-398-610AQ	#0 4"	1A14P00	\$ 16.99
#191-398-730AQ	#2 4"	1A14E00	\$ 16.99
#191-398-990AQ	#0 6"	8K13L61	\$ 16.25
#191-399-290AQ	#00 8"	1A19M00	\$ 22.99
#191-399-350AQ	#0 8"	1A19K75	\$ 23.99
#191-399-470AQ	#2 8"	1A22I00	\$ 25.99

NARROW PILLAR FILES - Swiss Pattern

Same shape as Pillar. Double-cut on sides; edges safe.

SPECS: 6" (15.2cm) long. #0 cut, 3/16" (9mm) wide x 3/16" (3.6mm) thick. #191-400-760AQ 6" Narrow Pillar File, 1A15E50 \$ 18.99

EXTRA NARROW PILLAR FILES - Swiss Pattern

Considered the standard gunsmithing file. "Safe" on both edges so you can cut right up to faces without undercutting the sides of your work. Swiss Pattern. SPECS: 8" (20.3cm) long. #00 Cut 1/2" (7.1mm) wide. 3/16" (3.6mm) thick. #0, #2, #4 Cut 3/16" (6.7mm) wide. 1/8" (3.2mm) thick. All taper slightly in thickness.

#360-312-121AQ	Extra Narrow Pillar File, #00, 6C26N10	\$ 29.99
#360-312-131AQ	Extra Narrow Pillar File, #0, 6C27M47	31.99
#360-312-151AQ	Extra Narrow Pillar File, #2, 6C29F79	34.99
#360-312-161AQ	Extra Narrow Pillar File, #4, 6C34P66	39.99

VERY EXTRA NARROW PILLAR FILES - Swiss Pattern

#0 cut is for fast removal in soft metals, works beautifully for wood, too. #2 cut is ideal for rear sight notch adjustments, extractor/ejector groove relief, final fitting of fine parts.

SPECS: 4" (10.2cm) long. 3/16" (4mm) wide. Thickness tapers slightly from 3/16" (1.2mm).

#360-312-021AQ	#0 Very Extra Narrow Pillar File, 6C16F53	\$ 18.99
#360-312-041AQ	#2 Very Extra Narrow Pillar File, 6C18H36	20.99

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.

#360-313-231AQ	#2 Cut Parallel Rd File, 6C21I51	\$ 24.99
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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 schnabells, 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.

#360-313-841AQ	1/2" Round Vulcanite File, 6C45N99	\$ 45.99
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METAL CHECKERING FILES

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

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

STOCK #	LPI	PRICE
#080-310-401AQ	20 (#00)	6C36G70 \$ 49.99
#080-000-177AQ	25 (#00)	6C63B25 \$ 75.99
#080-310-411AQ	30 (#0)	6C36H48 \$ 49.99
#080-310-421AQ	40 (#1)	6C38K10 \$ 51.99
#080-310-431AQ	50 (#2)	5K39A06 \$ 53.49
#080-310-451AQ	75 (#4)	5K51B01 \$ 54.99

SCREW HEAD FILES

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

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

#249-103-270AQ	#7 Screw Head File, 9D36K67	\$ 42.99
#249-103-290AQ	#9 Screw Head File, 9D36I67	42.99
#249-103-211AQ	#11 Screw Head File, 9D36A67	39.99
#249-000-001AQ	Screw Head File Set, 9D100C02	120.99

BROWNELLS WEB BENCH™

Your #1 Internet Newsletter for Professional Gunsmithing Information

SCREW SLOT FILES

Two Precision Styles For Perfect Custom Slots



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

#249-107-000AQ	Master Slot File Set, 9D449N99	\$ 449.99
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APPROX. THICKNESS	JOINT FILE	EQUALLING FILE	FILE PAIR
#3 .021	#249-108-197AQ	NA	#249-110-197AQ
#4 .025	#249-108-236AQ	#249-109-236AQ	#249-110-236AQ
#5 .032	NA	NA	#249-110-315AQ
#6 .040	NA	NA	#249-110-394AQ

BROWNELLS SCREW SLOT FIXTURE

The Secret To Getting Perfectly-Centered Screw Slots, Every Time



Heat-treated, steel fixture makes it possible to cut screw slots precisely in the center of the head. Simplifies fitting new screws to a custom gun or recutting/repairing some on a classic. Clamping thumb screw locks the gun screw in the exact position you want; two sets of roller pins guide your saw or slotting file during cutting to produce screw slots with a look of true class. SPECS: Heat-treated steel, black, oxide finish. 2" (5.1cm) long, 1 1/4" (3.2cm) wide, 7/16" (22.2mm) high. For use with .025" thick files and blades.

#080-000-082AQ	Screw Slot Fixture, 8K28C93	\$ 37.99
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PATTERNMAKERS' CABINET RASPS

Favorite Of Professional Stockmakers For Shaping & Finishing

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

SPECS: 12 1/8" (19cm) overall length. 3/16" (22.2mm) wide, tapers to 7/16" (11.1mm). #49 is second cut, #50 is smooth cut.

#191-188-460AQ	#49 Cabinet Rasp, 1A49C99	\$ 49.99
#191-188-610AQ	#50 Cabinet Rasp, 8K66F99	66.99

BROWNELLS

SIGHT BASE FILES

The Professional Way To Safely
Widen Or Cut New Dovetails
60°- STANDARD SLOT

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

- #080-648-160AQ #1 60° Sight Base File, 6C39I99..... \$ 49.99
- #080-648-060AQ #2 60° Sight Base File, 8K38D95..... 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. 1/8" (4.8mm) wide. #1, medium, doublecut. #2, fine, single-cut.

- #080-648-165AQ #1 65° Sight Base File, 6C30G77..... \$ 34.99
- #080-648-265AQ #2 65° Sight Base File, 6C33L86..... 39.99

NO-CLOG FILES



Superb For
Shaping Wood

Covers every operation from rough shaping to final contouring of combs, grip areas. With heavy pressure, the wood rolls off at an incredible rate. For finish work, the weight of the file alone will make "sawdust" cuts. Fine sanding is usually all that's necessary (cuts smooth cross grain, too)! Hold at a 60° angle to edges (butt, cheekpiece, etc.). Unusual, no-clog design.
SPECS: Flat - 12 tpi, 10" (25.4cm) long, 1" (2.5cm) wide; Half-Round/Flat - 14 tpi, 8" (20.3cm) long, 2 1/2" (18.3mm) wide.

- #191-202-910AQ Flat No-Clog File, 1A41Q99..... \$ 41.99
- #191-205-820AQ Half-Rnd/Flat No-Clog File, 1A39Q99..... 39.99

GRACE

HOOKE AND PICK SET

Great For Getting Into
Tight Spots

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



- #100-011-441AQ Hook & Pick Set, 4E17E15..... \$ 19.99

**STAINLESS STEEL
DENTAL TOOLS**

Hundreds Of Uses;
Surgical Stainless Steel

EXPLORERS - Attach springs, position parts, remove gunk.

SPECS: 6 1/2" (16.5cm) long. Wt. approximately 1/2 oz. (14g) each. 5 different shapes. Set contains one of each.

- #700-410-003AQ #3 Dental Explorer, 7Z4Q59..... \$ 4.59
- #700-410-006AQ #6 Dental Explorer, 7Z4M99..... 4.99
- #700-410-007AQ #7 Dental Explorer, 7Z4Q82..... 4.99
- #700-410-017AQ #17 Dental Explorer, 7Z4E99..... 4.99
- #700-410-023AQ #23 Dental Explorer, 7Z4Q51..... 5.49
- #700-410-000AQ Dental Explorers Set, 7Z19M88..... 21.99

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

- #700-401-516AQ #16 Dental Scaler, 7Z11Q99..... \$ 11.99
- #700-401-515AQ #15 Dental Scaler, 7Z8M42..... 9.99

S-4 SCALERS - Much stronger than the other Scalers or Explorers.

SPECS: 7" (17.7cm) long. Wt. 1/2 oz. (14g). Double-ended.

- #700-401-004AQ Scaler #S-4, 7Z11B99..... \$ 11.99

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.

- #197-654-200AQ Packing Hook #3031, 5F11I95..... \$ 11.95

SHOP TWEEZERS

So Universal - Always A Use

SPECS: 6 1/4" (17.1cm) long Nickel plated.

- #345-415-634AQ Angle-point Tweezers, 5D6D89..... \$ 6.89

**ENCO
INSIDE DIAL CALIPER**



Measures Inside
Dimensions Of Barrels
& Chokes

Accurately measure chambers, choke tubes, bores and various other inside dimensions. Dial is graduated to handle

measurements from .375"-1.375" with .001" accuracy. Bezel locking screw lets you set zero for comparative measurements. Ball bearing contact points deliver repeatable measurements every time.

SPECS: Aluminum housing, steel arms. 5.3" (13.6cm) OAL, 2" (5cm) diameter dial.

- #100-002-230AQ Inside Dial Caliper, 7A130D30..... \$ 135.95

**LYMAN
DIAL CALIPER**

High-Quality
Stainless Steel
At A Moderate Price

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

- #539-832-212AQ Lyman Dial Caliper, 5K27H12..... \$ 29.99

**LYMAN
DIGITAL CALIPER**



Direct, Digital Readout
In Both Inches &
Millimeters

Easy-to-see, LCD digital readout takes the

guesswork out of measuring. Gives inside, outside and depth functions. Manual on/off switch. Push button zero allows pre-selection of a zero dimension and plus or minus comparison for sorting of parts based on variation. Single toggle button and dual beam graduations give instant inch and millimeter conversions. Reads to 6"/150mm with .0005"/.01mm resolution and .001"/0.1mm accuracy.

SPECS: Stainless steel beam, jaws and rollers. 9 1/4" (23.4cm) long. Includes foam-padded, plastic case and battery.

- #539-832-218AQ Lyman Digital Caliper, 5K29G88..... \$ 54.99

**MITUTOYO
DIGIMATIC CALIPERS**

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



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

- #606-000-001AQ 8" Digimatic Caliper, 6K219I99..... \$ 219.99

**STARRETT
DEPTH MICROMETER**



For Accurate Checking
Of Slots & Grooves

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

- #827-523-180AQ Starrett Depth Mic., 7B309A99..... \$ 309.99

**MITUTOYO
DIGIMATIC MICROMETER**

Electronic;
Direct Reading
To 50 Millionths;
Programmable



No programming needed to start measuring all the way down to .00005" (50 millionths!). User programmable to do all sorts of comparative measurements... compare multiple pieces to one original or set the desired dimension as zero and compare all pieces to that. Full, black-filled thimble and sleeve markings so can be used even if the battery runs out. Instant conversion from inch to millimeters.

SPECS: 5 1/2" (14.6cm) long x 2 1/8" (6.7cm) high. Carbide tipped measuring faces. Reads 0-1" (2.5cm), 0-25mm. Accurate to .00005" (.0013mm). W/case.

- #606-293-705AQ Digimatic Micrometer, 6K149E64..... \$ 162.99

**STARRETT
6" DIAL CALIPER**



U.S. Made -
Professional Quality

A precision tool that handles all the required measurements; inside, outside, depth and steps. Stainless steel frame and slide, including the "down-pointing" rack teeth that shed dirt and chips. Dial registers .100" per revolution, the wide graduations give fast, easy reading. Available with a **White Face** with black marks, **Black Face** with white marks or **Red Face** with white marks. Satin finish with deep, recessed, black-filled scale markings. Fast adjusting thumb wheel. Knurled lock for jaw and dial.
SPECS: 9" (22.9cm) long, 3" (7.6cm) high, 1 1/8" (3.5cm) diameter dial. 10" (25.4cm) x 4" (10.2cm) x 1" (2.5cm) padded, plastic case.

- #827-559-100AQ White Face Caliper, 7B180J49..... \$ 189.99
- #827-559-101AQ Black Face Caliper, 7B199I99..... 208.99
- #827-559-102AQ Red Face Dial Caliper, 7B199D99..... 208.99

**STARRETT
CR-2032 LITHIUM BATTERY**

Replacement Battery For A Wide Variety
Of Powered Devices

Replacement battery for most Starrett digital calipers, many compact red dot sights, and a variety of other battery-powered electronics.
SPECS: CR-2032, 3 volt lithium cell. Sold in 2 pak.

- #749-000-220AQ CR-2032 Repl Battery for Starrett Calipers, 7B9J99..... \$ 9.99

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 each leaf.

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

- #493-480-028AQ English Thread Pitch Gauge, 3D8D60..... \$ 9.99
- #592-690-024AQ Metric Thread Pitch Ga., 2E8I60..... 9.99
- #592-769-000AQ BSW Thread Pitch Gauge, 2E8Q60..... 9.99

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. **USA**
SPECS: Steel. Tapered leaves. **Inch** - 26 leaves. 3" (7.6cm) long, .015" and .025". .002" to .020" in .001" steps. **Metric** - 28 leaves. 3.9" (10cm) long. .05mm to .14mm in .01mm steps. .15mm to 1mm in .05mm steps.

- #606-950-252AQ Inch Feeler Gauge, 8K27H99 \$27.99
- #606-184-313AQ Metric Feeler Gauge, 6K68J99 68.99

BROWNELLS SCREW CHEK'R™

Identifies Threads Plus Gives Drill & Tap Sizes

Tells size, threads-per-inch, diameter, length, tap series, body drill size, and tap drill for machine screws; use to check size of wood and sheet metal screws plus standard rivets. Covers all standard sizes, including 6-48. Use to cut unhardened screws to length, straighten bent screws or battered threads. **USA**
SPECS: Hardened steel, satin chrome plated. 3" (7.6cm) x 5" (12.7cm). With instructions. **U.S. Thread Model** - Checks #1 through 7/8" 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.

- #080-670-001AQ U.S. Screw Chek'r, 1A12P69 \$14.89
- #080-670-002AQ Metric Screw Chek'r, 1A13N9S 19.97

CARSON MAGNIFIERS

Help You See & Manipulate Small Gun Parts & Pieces



Carson Magnifiers help you see and work with small gun parts, other small items, even help remove splinters. **MagniGrip** is a 4.5x magnifier attached to fine point tweezers and a bright LED light. All-in-one unit helps you see, grab and lights your work area. **Attach-A-Mag** is a large, 2x magnifier with an articulated body and a clothes-pin-style clamp, letting you attach it to your bench, table, or other work area and bend it to where you need it. LED lights your work area.
SPECS: **MagniGrip:** 1.2" (30mm) lens O.D. 4 1/2" (11.4cm) long, 1.3" (3.3cm) wide, 1" (2.5cm) high. (3) GP395 button cell batteries. **Attach-A-Mag:** 4.3" (90mm) lens O.D. 12" (30cm) high, 4.3" (12cm) wide, 1.5" (3.8cm) long. (3) SG12 button cell batteries.

- #100-012-851AQ MagniGrip, 2G6J99 \$8.99
- #100-012-852AQ Attach-A-Mag, 2G11I50 13.99

Robert E. Schoeler I've been a customer for 20+ years - never a problem - always top quality products and service.
March 11 at 10:21pm - Like

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

STOCK #	LENGTH	MODEL	PRICE
#338-110-007AQ	7"	Slim	8C630M00 \$ 630.00
#338-110-017AQ	17"	Slim	8C738M21 \$ 799.99

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



- #338-115-017AQ 17" Slim Kit, 8C769B99 \$ 769.99

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



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

- #338-009-017AQ 17" Slim 90° Attachment, 8C125C94 \$ 134.99

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.



- #338-000-004AQ 22" Borescope Kit, 8C1599G00 .. \$ 1599.00

7" & 17" 90° GUNSMITH BORESCOPE KIT - includes both a 7" optic tube and 17" optic tube with built-in 90° mirror for a close-up view of rifling, crown, breech, chamber or any critical firearm component. Adjustable focus from 1mm to infinity. Includes two, variable intensity Mini-Maglite flashlights with LED lamps. Aluminum case with locking clasps provides secure storage. Includes AA batteries, lens cleaning solution, and instructions.
SPECS: .189" (4.8mm) dia., for bores .223" (5.56mm) or larger.



- #338-000-005AQ 7" & 17" 90° Gunsmith Borescope Kit, 8C1595H00 \$ 1595.00

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



- #338-020-000AQ Hawkeye Carry Case, 8C79A99 \$ 79.99

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°.



- #338-000-001AQ Angled Eyepiece, 8C255K36 \$ 269.99

DONEGAN OPTICAL OptiVISOR



Continuous Headband; Dial Adjustable

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

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

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

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

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

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

FITS OVER REGULAR GLASSES - No need to take them off with the OptiVISOR. **USA**
SPECS: No. 2, 1 1/2" X at 20" (51.0cm); No. 3, 1 1/4" X at 14" (35.6cm); No. 5, 2 1/2" X at 8" (20.3cm); No. 7, 2 1/4" X at 6" (15.2cm); No. 10, 3 1/2" X at 4" (10.2cm).

- #255-002-000AQ No. 2 OptiVISOR, 5E35B99 \$ 41.99
- #255-003-000AQ No. 3 OptiVISOR, 5E35P99 41.99
- #255-005-000AQ No. 5 OptiVISOR, 5E35A99 41.99
- #255-007-000AQ No. 7 OptiVISOR, 5E36J49 45.99
- #255-000-000AQ No. 10 OptiVISOR, 5E39L50 46.00

Extra LENS PLATES

- #255-002-020AQ No. 2 Lens Plate, 5E22G00 \$ 26.00
- #255-003-030AQ No. 3 Lens Plate, 5E22B00 26.00
- #255-005-050AQ No. 5 Lens Plate, 5E22G00 26.00
- #255-007-070AQ No. 7 Lens Plate, 5E22N00 26.00
- #255-010-100AQ No. 10 Lens Plate, 5E21K23 24.99
- #255-303-001AQ New-style Comfort Band, (plastic tab attachment), 5E12B79 15.29

OPTILOUPE - Easily attached to any OptiVISOR. Gives up to 6X magnification. Pivots out of way.
SPECS: Screw-on attachment.



- #255-001-600AQ OptiLOUPE, 5E8E49 \$ 9.99

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



- #509-000-017AQ Bore Bright, 9K47A99 \$ 54.99

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. **USA**

SPECS: 45" (114.3cm) long adjustable arm. 5" (12.7cm) dia. lens.

- #538-100-002AQ Luxo KFM-1A, 8C294A34 \$ 354.99
- #538-200-009AQ T-9 Fluorescent Tube, 8C20Q50 23.99

ANDREWS SALES MAG-SAFETM MAGNIFYING SAFETY GLASSES

Protects Eyes, Helps You See Small Parts & Intricate Assemblies



Rugged, scratch-resistant safety glasses reduce eye fatigue and provide full-lens magnification for detailed, close-up gunsmithing work. Made from shatterproof polycarbonate with a contoured frame for comfort and side shields for added protection. Full-power and in-focus at 10" for checkering, engraving, working with small parts, and looking in nooks and crannies. Also blocks 100% of harmful UVA and UVB rays. Meets ANSI Z87.1+ requirements. One size fits most.
SPECS: Clear polycarbonate. Lenses approximately 5 1/2" (14cm) wide, x 2" (5.1cm) high, with 4 1/4" (12cm) long shank. Available magnifications: 1.25x, 2x, and 3x.

- #100-005-578AQ 1.25x Safety Glasses, 1E12P77 \$ 15.99
- #100-005-579AQ 2x Safety Glasses, 1E12Q77 15.99
- #100-005-580AQ 3x Safety Glasses, 1E12B77 15.99

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.

- #368-000-001AQ 2x Safety Glasses, 8F25J99 \$ 30.99

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 headband.



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

- #255-000-001AQ Visor Light, 5E18K99 \$ 21.99
- #255-000-002AQ Spare Bulb, 5E4B99 6.79

INSPECTION ACCESSORIES

TWEezer/MAGNIFIER - Stainless steel tweezers with optical grade plastic, 2X magnifier lens. Use to inspect small, hard-to-hold parts. Includes protective storage pouch.
SPECS: 3/4" (9.5cm) long, .925" (2.4cm) diameter lens.
#080-000-071AQ Tweezer/Magnifier, 8K2G98 \$ 3.99



MAGNIFIER - Compact, folding pocket magnifier. Double lens system gives combined 8X. Get a closer look at anything.
SPECS: 1/4" (3.2cm) diameter glass.
#345-534-002AQ Double Lens Magnifier, 5D14F80 \$ 14.80



LOUPES - Instantly turns prescription or safety glasses into magnifiers for close up work. Pivots out of the way when not needed. Attaches to either right or left side. Precision-ground optical glass.
SPECS: 24mm dia. 3X magnification, 3/4" (9cm) focal length.
#255-300-003AQ 3X Loupe, 5E16D29 \$ 18.79



FLEX LIGHT

Most Bendable Light We Can Find

No gimmicks, just a darn nice light with the most bendable, least kinking, flex head we've found. Pinpoint, high intensity beam reaches into corners in action recesses, magazine wells and barrels.
SPECS: 14 1/2" (36.8cm) long overall, 9" (22.9cm) long flex section. Requires two AA batteries (not included).
#531-322-500AQ Flex Light, 1C14J50 \$ 19.99
#531-322-510AQ Wire/Bulb Assembly, 1C5G62 7.99



MILITARIA AAA BATTERY BORELIGHT

Illuminates Bore For Easy Inspection

Bright, compact LED light helps to ensure your gun is clean and obstruction-free before storage or operation. A removable 90°, fiber-optic extension piece illuminates barrels, action recesses, or other hard-to-see areas. Push-button tail piece activates the high-intensity beam that is powered by one AAA battery.
SPECS: Aluminum body, black, 5" (12.7cm) OAL. Uses (1) AAA battery, included.
#622-000-002AQ Militaria Borelight, 2B4G50 \$ 5.99



MILITARIA, INC.

FLEXIBLE LED BORE LIGHT

Examine Bores & Other Hard-To-See Areas

Bright, diode-charged light with flexible neck projects white light for easy inspection of bores, chambers, and other hard-to-see areas of any gun. Sealed, shockproof housing with push-button on/off switch gives years of trouble-free service. Pocket clip provides easy carry for walking the gunshows or around the shop. Runs on one AAA battery, included.
SPECS: Aluminum, anodized silver with flexible steel neck, 9 1/4" (23.5cm) OAL, 9/16" (1.6cm) dia. housing, 5 1/2" (14cm) long flexible neck. Uses one AAA battery, included.
#622-000-001AQ Borelight, 2B6E50 \$ 6.50
- 3 or More - Borelight, per each, 2B5D75 \$ 5.75



POWER CUSTOM

SERIES II STONING FIXTURE

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, clean-breaking trigger pull on semi-automatic firearms. Individual, easy-to-change **Adapters** attach to a precision-ground indexing elevator column and clamp both the hammer and sear in the right position for correct stoning. Adjustable design lets you change both hammer and sear angle to meet the 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.

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

— Advise # — **Series II Stoning Fixture/1 Adapter, 3A172K63** \$ 179.99

— Advise # — **Series II Adapter, only, 3A33G04** 33.99

#080-815-000AQ Series II India Stone, 8K13J22 \$ 20.99
#080-815-001AQ Series II Hard Arkansas Stone, 8R65K46 79.99

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



#713-271-000AQ Univ. Hammer Adapter, 3A33G04 \$ 33.99

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



#713-000-082AQ Triangle Stone Holder, 3A56M94 \$ 63.99



BROWNELLS

HAMMER/SEAR PIN BLOCK KIT

Allows Visual Inspection Of Hammer & Sear Engagement

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



SPECS: Block - Steel, blued. Pins - Stainless steel. 2 1/2" (6.4cm) long, 1 1/8" (1.7cm) wide. **Kit** includes plastic storage box.

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

— Advise # — **Hammer/Sear Block Hammer Pin, 8K4D89** \$ 5.99

— Advise # — **Hammer/Sear Block Sear/Trigger Pin, 8K3J99** 4.99

#080-000-098AQ Hammer/Sear Block Hammer Pin, 8K4D89 \$ 5.99

#080-000-099AQ Hammer/Sear Block Sear/Trigger Pin, 8K3J99 4.99

#080-000-106AQ Colt AR-15 .154" Small Hammer/Trigger, Pin Set, 8K8K83 11.99

#080-000-107AQ Colt AR-15 .172" Large Hammer/Trigger, Pin Set, 8K10N18 14.99

#080-000-116AQ Hammer/Sear Pin Block, only, 8K48M99 59.99

#080-000-115AQ Hammer/Sear Pin Block Kit, 8K119A00 149.99



Instructional Video Available Online



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 clean-up. 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.

#080-721-621AQ 2 Ceramic Stone Ground Set, 8K37N50 \$ 49.99

POWER CUSTOM

SERIES I STONING FIXTURE

Ultimate For Hammer & Sear Work; Accurate, Repeatable Setup

Save time and money by providing repeatable setup, accurate, measurable adjustments and suitability for many guns. Fixture has built-in hammer and trigger/sear alignment pin holes for seven popular guns, plus an adapter for working on one additional gun model of your choice. Purchase more adapters separately for other guns; many jigs combined in one fixture! To use, mount hammer or trigger/sear on adapter, set and lock at correct index mark as instructed. Set stoning angle by counting "clicks" specified to raise or lower elevator and stoning guide. Lock guide, place stone on both roller and hammer or trigger/sear, and stone as normal. Easily adjustable to allow variations in stoning angle for exact, desired trigger pull weight. Same tool Ron Power uses in his own shop. Complete with one adapter and very detailed instructions written by Ron. You will also need a #10 Machinist's Clamp and 6"x1/2"x1/2" stones (listed elsewhere).
SPECS: Blued steel. 5 1/8" (14.1cm) long x 2 1/8" (6.5cm) wide x 3" (7.6cm) high. 3/4" (19mm) thick base. 5 1/4" lb (2.6 kg). Includes roller guide and one adapter in the price.



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

— Advise # — **Series I Fixture Complete, 3A159F99** \$ 159.99

— Advise # — **Series I Fixture Adapter, only, 3A25F00** 25.49

#713-070-002AQ Series I Fixture Complete, 3A159Q99 \$ 159.99

#713-071-002AQ Colt Govt. Adapter, only, 3A25F00 25.49

#713-070-900AQ Series I Fixture Roller Guide, 3A2L45 2.99

STOCK #	STYLE	CUT	COLOR	PRICE
#080-721-604AQ	Ground	M-Fine	Black	8K21L18 \$ 29.99
#080-721-601AQ	Ground	X-Fine	White	8K22B28 \$ 29.99

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

#080-811-000AQ Brownells Hammer/Sear File & Stone Kit, 8K99P99 \$ 129.99

NORTON

6" x 1/2" x 1/2" INDIA STONES



Traditional Gunsmithing Favorites Deliver Excellent Surface Finishes

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

- #657-246-146AQ MF-46 India Stone, 7E9M75 \$10.99
- #657-246-246AQ FF-46 India Stone, 7E8D79 10.99

NORTON

6" x 1" x 1" INDIA STONES

Excellent Surface Finish With Fast Metal Removal



Fast cutting, aluminum oxide stone, six inches long and one inch square, lets you make a long, steady stroke and turn out those glass sharp, silky-smooth trigger jobs that make shooting a joy. Excellent for many other stoning jobs, too. MF-76 Medium - A few quick strokes in a trigger jig cleans up burrs in new guns. FF-76 Fine - Combines speed and a smooth cut for a crisp, smooth, trigger pull. SPECS: Aluminum oxide. 6" (15.2cm) x 1" (2.5cm) x 1".

- #657-000-001AQ MF-76 Med. India Stone, 7E19C99 . . . \$19.99
- #657-000-002AQ FF-76 Fine India Stone, 7E19J99 19.99

NORTON INDIA STONES



Mainstay Of The Gunsmith Profession

Man made from aluminum oxide. A uniformly dense stone with superior cutting properties make these medium grit stones cut faster than hard Arkansas. Especially

useful for lapping, honing, sharpening and polishing in tight places where the special shapes can reach into nooks and crannies.

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

STOCK #	SHAPE	MODEL	SIZE	PRICE
#657-010-034AQ	Square	MF-34	4 x 1/2"	7E10Q04 \$ 10.99
#657-020-134AQ	Triangle	MF-134	4 x 1/2"	8K9I99 \$ 9.99
#657-030-214AQ	Round	MF-214	4 x 1/2"	7E15A99 \$ 15.99
#657-040-134AQ	Diamond	MT-134	4 x 1/2"	7E19J99 \$ 19.99
#657-050-724AQ	Knife	MF-724	4 x 1 x 1/2"	7E14M99 \$ 14.99
#657-060-024AQ	Slip	MS-24	4 1/2 x 1/4 x 1/16"	7E14F99 \$ 14.99
#657-070-723AQ	Point	MF-723	3 x 1/16"	7E19M99 \$ 19.99

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.



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; 1/8" (9.5mm) x 1/2" (9.5mm) x 3" (7.6cm) long Square; 1/4" (6.3mm) dia. Round; 3" (7.6cm) long x 1" (2.5cm) deep Knife; 1/8" (3.2mm) wide at the back, tapering to 1/16" (1.6mm) at the edge. Fitted tray protects stones.

- #080-576-000AQ Hard Arkansas File Set, 8K99E99 . . . \$ 119.99



BROWNELLS

GUNSMITH'S PREMIUM CERAMIC STONE FILE SET

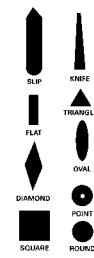
Sharp, Precision-Ground Stones With Clean Cutting Edges For Superb Trigger & Sear Work



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

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

- #080-721-001AQ Triangle Ceramic Stone, 8K14M74 . . . \$ 20.99
- #080-721-002AQ Square Ceramic Stone, 8K18N03 . . . 24.99
- #080-721-004AQ Round Ceramic Stone, 8K16N08 . . . 21.99
- #080-721-000AQ Ceramic Stone Set, 8K37M56 51.99



NORTON PREMIUM HARD ARKANSAS STONES

Complete Selection Of Shapes For Every Professional Need

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

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

STOCK #	SHAPE	MODEL	SIZE	PRICE
#657-300-033AQ	Square	HF-33	3x1/2"	8K15N99 \$ 15.99
#657-300-113AQ	Triangle	HF-113	3x1/2"	8K19R99 \$ 19.99
#657-300-813AQ	Round	HF-813	3x1/2"	8K25G99 \$ 25.99
#657-300-823AQ	Flat	HF-823	3x1/2x1/8"	8K31L21 \$ 32.99
#657-300-843AQ	Diamond	HF-843	3x1/2x1/2"	7E41J99 \$ 41.99
#657-300-863AQ	Point	HF-863	3x1/2"	7E41M99 \$ 41.99
#657-300-873AQ	Knife	HF-873	3x1x1/4"	8K36P99 \$ 36.99

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.

Cellulplastic 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 3/4" tubes and 60 caps. Ten 1/2" tubes & 100 caps. Packed in carton.

- #080-536-000AQ Cellulplastic Tube Shop Assortment, 8K43L91 \$ 67.99

PLASTIC TUBES

STOCK #	QTY.	DIAMETER	PRICE
#080-536-375AQ	30	1/8" (9.5mm)	8K26L15 \$ 38.99
#080-536-625AQ	17	3/8" (15.9mm)	8K23G29 \$ 33.99
#080-536-875AQ	8	1/2" (22.2mm)	8K17I57 \$ 19.99
#080-536-100AQ	7	1" (2.5cm)	8K15I85 \$ 23.99

CAPS

DIAMETER	STK# CAPS PER 100	STK# CAPS PER 1M
3/8" (9.5mm)	#080-536-138AQ 9.99	#080-536-238AQ 49.97
5/8" (15.9mm)	#080-536-158AQ 15.99	#080-536-258AQ 99.99
7/8" (22.2mm)	#080-536-178AQ 15.99	#080-536-278AQ 129.99
1" (2.5cm)	#080-536-110AQ 19.99	NA

SPYDERCO

SHAPED CERAMIC STONES

Sharp Edges, Easy Cleaning

Ceramics cut beautifully and uniformly using water (not messy oil) as the lubricant; they're resistant to shatter and breakage and literally last a lifetime. Cleanup consists only of washing with detergent and warm water to restore the original clean, white cutting surface. The cut is rated "smooth" and you can cut Hard Arkansas with these Ceramic files. After a bit of use and a few washings, the cut will become even finer. SPECS: Smooth cut. Set contains 1 each of the following: Square, 1/4" (6.3mm) x 5" (15.2cm); Triangle, 1/4" (6.3mm) x 5" (15.2cm); Round, 1/4" (6.3mm) diameter x 5" (15.2cm).

- #824-400-000AQ Ceramic Stone Set, 8K39E70 \$ 63.99
- #824-400-001AQ Round Ceramic Stone, 4B17A78 20.99
- #824-400-002AQ Triangle Ceramic Stone, 4B15G79 . . . 18.99
- #824-400-003AQ Square Ceramic Stone, 4B15B79 19.99

EZE-LAP

DIAMOND HONE & STONE



Fast, Long Lasting

Millions of diamond cutting edges permanently bonded to a 2" x 3/4" steel plate for universal, any-direction, cutting action. SPECS: 5/8" (16.9cm) overall length 1/2" (17.5mm) wide. 4" (10.2cm) long plastic handle.

- #290-100-001AQ Fine Hone & Stone, 9B3B89 \$ 15.99
- #290-100-002AQ Medium Hone & Stone, 9B4Q99 6.49
- #290-100-003AQ Coarse Hone & Stone, 9B5J99 7.49

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.

- #824-302-001AQ Fine Ceramic Bench Stone, 4B62E15 \$ 76.99
- #824-302-002AQ Medium Ceramic Bench Stone, 4B62M31 77.99

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 1/2" (8mm) x 1/4" (6.3mm). No. 291 Knife - 4" (10.2cm) x 1/2" (15.9mm) x 1/8" (3.2mm).

- #348-221-001AQ 221F Ruby Stone, 8D71N99 \$ 71.99
- #348-221-002AQ 221M Ruby Stone, 8D68P65 69.99
- #348-291-001AQ 291F Ruby Stone, 8D126M40 126.99

WASHITA MOUNTAIN

ARKANSAS STONE SET



Natural Stones In Ideal Gunsmithing Shapes

Carbon steels just seem to polish best with a genuine Arkansas stone and the four shapes in the kit have proven to be the most useful in the gun shop. The edges are nice and clean, making them

an excellent choice for flat trigger and sear faces plus most other fitting chores. Fine cut, white hard Arkansas. SPECS: Set includes - 1/4" (6.3mm) x 4" (10.1cm) Triangle; 1/4" x 4" Square; 1/4" diameter Round; 1" (2.5cm) x 4" Knife tapers from 1/4" thick to 1/8" (1.6mm) thick.

- #975-104-000AQ Arkansas 4-Stone Set, 5G39G99 \$ 43.99

STONING ACCESSORIES

BENCH STONES - Three distinct grades, Soft (Med) Arkansas, Hard (Fine) Arkansas and Surgical Hard (X-Fine) Arkansas. With cedar box.

SPECS: MB8 2" (5.1cm) x 1" (2.5cm) x 8" (20.3cm). FTC8 2" x 1/2" (12.7mm) x 8". XTC4 2" x 1/2" x 4" (10.2cm). XTC8 2" x 1/2" x 8".



- #975-006-008AQ MB8 Med, 5G25D29 \$ 29.99
- #975-005-008AQ FTC8 Fine, 5G26L49 29.99
- #975-003-004AQ XTC4 X Fine, 5G23H00 25.99
- #975-003-008AQ XTC8 X Fine, 5G39C99 49.99

HONING OIL - Keep all sharpening stones cutting faster and prevent metal particles from clogging the pores. SPECS: 4 oz. (118.2ml) or 16 oz. (473ml) can.

- #657-003-004AQ Honing Oil, 4 oz., 7E9P19 . . . \$ 11.99
- #657-003-016AQ Honing Oil, 16 oz., 7E12A26 . . . 14.99



FOREDOM POWER TOOLS

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

Power grinders efficiently handle all the precision shaping and contouring work in the shop. Easy to use, whether the job requires slow speed, high torque "hogging," or high speed for carbide tools that need only the lightest touch. Runs in forward or reverse rotation for ease-of-use during left- or right-hand operation. Cutting/grinding/polishing accessory kits available separately, below. **SR Power Tool** has a flexible shaft and convenient foot operated control for hands-free speed control. Lightweight, compact **K.1020 Micro Grinder** has the power of a flexible shaft, plus the extra freedom of movement of a micro-motor that fits in the palm of your hand. Features a 3-jaw, geared chuck for use with rotary accessories shanks up to 3/16" (4mm) diameter.



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 Handpiece. **K.1020 Micro Grinder** - Electric motor - 9.24 oz.-in. torque, 60/50 Hz, 4.82 Amps DC. 110/120 or 220/240 capable. Speed range w/foot control: 20,000 rpm maximum. 36" (91.4cm) flexible shaft. Set includes motor unit, foot control, 3-jaw chuck, extra motor brushes, and instructions. Does not come with accessory tools.

#318-700-005AQ SR-8D Set, 8A313L99 \$ 313.99
#318-700-301AQ SR-30 Set, 8A293F92 356.99
#318-000-005AQ K.1020 Micro Grinder, 8A427B71 ... 499.99

8D HANDPIECE - Grease-sealed ball bearings for heavy duty use. Complete with one collet.
SPECS: 9 1/2" (24.1cm) long, approx. 1/2" (19mm) dia. 5 oz. (141g).

#318-008-000AQ #8D Handpiece, 8A62B66 \$ 79.00

30 HANDPIECE - Key-type chuck for shank sizes up to 3/16". Grease-sealed ball bearings; complete with key.
SPECS: 5" (12.7cm) long, 1" (2.5cm) diameter 6 oz. (170g).

#318-030-000AQ #30 Handpiece, 8A52N88 \$ 64.99
#318-030-720AQ #30 Chuck Key, 8A3P05 3.05

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.

#318-001-002AQ FCT-1 Foot Control, 8A35C00 \$ 35.00

POWER TOOL ACCESSORIES - Accessory kits designed for the Foredom power tools and carefully selected to serve the needs of the professional gunsmith contain a huge variety of grinding bits and wheels to shape, cut, polish, and finish wood, metal, plastic, and fiberglass. Convenient plastic clamshell storage case keeps things organized. This huge 88-piece assortment contains some of the latest and most unique accessories for shaping, cutting and finishing metal. Ceramic purple sanding drums and discs, V Stone mounted abrasives, CeramCut Blue stones and MetalMaster polishing wheels and rods. Also plated diamond points, steel cutters and burs, aluminum oxide points, wire and bristle brushes, felt buffs and bobs, tube of red polishing rouge, various mandrels with 3/16" 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, 3/16" diameter ceramic purple sanding disk 60, 80, 120, and 220 grit; (6) V Stone mounted abrasives; (5) CeramCut Blue® Stones; (5)



DREMEL

CARBIDE CUTTERS

Carbide Lasts Longer, Cuts Faster Than High Speed Steel

STOCK #	MODEL	
#257-990-100AQ	#9901	
#257-990-200AQ	#9902	
#257-990-300AQ	#9903	
#257-990-400AQ	#9904	
#257-990-500AQ	#9905	
#257-990-600AQ	#9906	
#257-990-900AQ	#9909	
#257-991-000AQ	#9910	
#257-991-100AQ	#9911	

SPECS: 1/8" shanks, maximum cutting head diameter, 1/8".

— Advise # — Carbide Cutter, 7E8I62 \$ 12.99

DREMEL

HIGH SPEED STEEL CUTTERS

The Standard Cutter For Most Applications

STOCK #	MODEL	
#257-100-100AQ	#100	
#257-100-114AQ	#114	
#257-100-115AQ	#115	
#257-100-116AQ	#116	
#257-100-117AQ	#117	
#257-100-134AQ	#134	
#257-100-144AQ	#144	
#257-100-194AQ	#194	
#257-100-199AQ	#199	

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

— Advise # — H/S Steel Cutter, each, 7E4G58 \$ 6.99

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 1/2" (6.3mm) dia. with lengths as follows: #1 = 3/16" (14.3mm); #2 = 1/2" (12.7mm).

STOCK #	MODEL	STOCK #	MODEL
#317-710-001AQ	1	#317-710-002AQ	2

— Advise # — Solid Carbide Burr, 7A16G19 \$ 19.99

Metal Master polishing wheels and (3) rods, (3) rubber backed mandrels; (1) 1 1/4" fiberglass cut-off wheel; (1) plated diamond point, (6) steel cutters and burs, (5) aluminum oxide points, (6) wire and bristle brushes; (7) felt buffs and bobs; 1 oz. (29.6mL) red polishing rouge. 3/16" and 1/8" shanks. 20,000 RPM max operating speed.

#318-000-002AQ 88-Pc Accessory Set, 8A107A41 ... \$ 127.99

- POWER HAND TOOL ACCESSORIES -

Make The Most Of Your Hand-Held Tool

FIBERGLASS REINFORCED CUT-OFF WHEEL - 1 1/4" (3.2cm) dia. Larger diameter makes it possible to cut thicker material. Long lasting. Sold in pak of 5.

#257-400-426AQ #426 Cut-Off Wheel, 7E6N44 \$ 9.50

HEAVY-DUTY, EMERY CUT-OFF WHEEL - .040" (1mm) thick for wider slotting, less breakage, longer service life. 1 1/2" (24mm) diameter. Sold in pak of 20.

#257-400-420AQ #420 Cut-Off Wheels, 7E4H82 \$ 7.10

CUTTING WHEEL #409 - A handy emery wheel for slicing, cutting-off and similar operations. 36 discs per package.

#257-400-409AQ #409 Wheel, 7E4H35 \$ 6.45

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

#257-000-014AQ #543 Carbide Wheel, 7E15K56 \$ 19.99

DRUM SANDER BANDS #408, 432 - 1/2" (12.7mm) dia. coarse grit; No. 432, 1/2" dia. fine grit. Pak of 6.

#257-400-408AQ #408 Band, 7E2P20 \$ 3.25

#257-400-432AQ #432 Band, 7E2I20 3.25

DRUM SANDER MANDREL #407 - 1/2" dia. For use with #408, #432 and other 1/2" sander bands.

#257-400-407AQ #407 Drum Sander, 7E2G91 \$ 4.99

FLAP WHEEL SANDER - 1 1/8" (2.8cm) dia. wheels. 502, 3/8" (9.5mm) wide, 80 grit; 504, 3/16" (4.8mm) wide, 80 grit. 503, 3/8" (9.5mm) wide, 120 grit; 505, 3/16" (4.8mm) wide, 120 grit. 1/8" (3.2mm) shanks.

#257-000-002AQ #502 Wheel, 7E5D34 \$ 7.99

#257-000-003AQ #504 Wheel, 7E5Q22 7.99

#257-000-004AQ #503 Wheel, 7E5F63 7.99

#257-000-005AQ #505 Wheel, 7E5C63 7.99

WIRE BRUSHES - Small, versatile, steel brushes for efficiently removing rust, corrosion and polishing metal surfaces. 1/8" (3.2mm) shanks.

#257-400-428AQ #428 Wire Brush, 7E2H20 \$ 3.25

#257-400-442AQ #442 Wire Brush, 7E2L20 3.25

#257-400-443AQ #443 Wire Brush, 7E2J20 3.25

DO NOT RUN BRUSHES NO. 428, 442 AND 443 IN EXCESS OF 15,000 RPM

#402 MANDREL - To be used with all cutting wheels, sanding discs and polishing wheels. 1/8" (3.2mm) shank.

#257-125-402AQ #402 Mandrel, each, 7E2E20 \$ 3.25

FALCON TOOL

MX FINISHING WHEELS

Long Lasting, Popular Grits For Polishing & Shaping

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

#084-000-021AQ 1/2" x 1/2" Starter Kit, 4H25E00 \$ 29.99

#084-000-022AQ 1/2" x 1/2" 50 Grit MX Wheel, 4H11I58 16.99

#084-000-024AQ 1/2" x 1/2" 120 Grit MX Wheel, 4H11I58 16.99

#084-000-025AQ 1/2" x 1/2" 180 Grit MX Wheel, 4H14A54 19.99

#084-000-026AQ 1/2" x 1/2" 320 Grit MX Wheel, 4H11C58 16.99

#084-000-084AQ 1/2" x 1/2" MX Wheel Starter Kit, 4H25F00 29.99

#084-000-079AQ 1/4" x 1/2" 50 Grit MX Wheel, 4H13H77 20.99

#084-000-081AQ 1/4" x 1/2" 120 Grit MX Wheel, 4H12F56 18.99

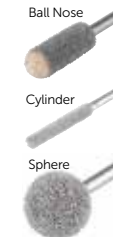
#084-000-082AQ 1/4" x 1/2" 180 Grit MX Wheel, 4H13E69 19.99

#084-000-083AQ 1/4" x 1/2" 320 Grit MX Wheel, 4H14N07 20.99

KUTZALL CARBIDE CUTTERS

Designed For Soft Materials

Unique carbide cutters are designed for aggressive cutting action when working with wood, plastic, and composite materials. Randomly-spaced teeth cut evenly and without clogging making them ideal for roughing out or modifying stocks before sanding. Available with 1/8" or 1/4" shank. Not to be used on metal. **SPECS:** Tungsten carbide, 1/8" or 1/4" diameter shank.



STOCK #	SHAFT	SHAPE	DIA/LENGTH	PRICE
#681-000-001AQ	1/8"	Ball Nose	.200" x 3/16"	1H9Q50 \$ 11.99
#681-000-002AQ	1/8"	Ball Nose	.65" x 1.56"	1H16J50 \$ 18.99
#681-000-003AQ	1/8"	Cylinder	.90" x 1.8"	1H15J50 \$ 17.99
#681-000-004AQ	1/8"	Sphere	1.15" Dia.	1H19L00 \$ 21.99
#681-000-005AQ	1/8"	Ball Nose	.9" x 1.2"	1H16M50 \$ 19.99
#681-000-006AQ	1/8"	Ball Nose	.33" x .55"	1H11E50 \$ 13.99
#681-000-010AQ	1/8"	Cylinder	.21" x 1"	1H9C50 \$ 11.99
#681-000-011AQ	1/8"	Cylinder	.35" x .55"	1H11I50 \$ 13.99

SERIOUS SAVINGS

EDGE

BROWNELLS

Pays for itself in just 4 orders!

For a \$49.95 annual membership fee, Brownells **EDGE** offers these benefits:

- FREE Standard Shipping on all orders
- FREE Shipping on returns
- Discounted 2-Day & Overnight shipping
- Special members-only offers & discounts

Sign up now at Brownells.com/EDGE

or call 800-741-0015 and order #080-001-199

Only \$49.95 a year!



CRATEX ABRASIVE KIT
 Reshaped Abrasive Wheels For All Polishing/Grinding Needs

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

SPECS: Kit includes: 80 (total) Tapered and Straight edge wheels, Bullet and Cylinder shaped points, each style in four grits, Coarse, Medium, Fine, Extra Fine. Four 1/8" shank mandrels. Maximum speed: 25,000 rpm.

#190-777-000AQ Cratex 777 Abrasive Kit, 9A75A99... \$77.99

CRATEX REPLACEMENT POINTS, WHEELS & MANDRELS

SPECS: Bulk replacements sold 25 each per pkg. **#6 Cylinder Point**, 1/4" (6.3mm) diameter, 7/16" (22.2mm) long. **#8 Bullet Point**, 7/16" (7.1mm) diameter, 1" (2.5cm) long. **#11 Bullet Point**, 1/8" (9.5mm) diameter, 1" long. **#15 Bullet Point**, 1/8" (12.7mm) diameter, 1/2" long. **#74 Straight Edge Wheel**, 1/8" (22.2mm) diameter, 1/2" thick. **#86 Straight Edge Wheel**, 1" diameter, 3/16" (4.76mm) thick. **#4 Point Mandrel**, 1/8" shank diameter, fits 1/8" (1.59mm) arbor hole. **#6 Point Mandrel**, 1/8" shank diameter fits 1/8" arbor hole. 25,000 rpm max. Mandrels sold 3 each per pkg. **Try-Pak** contains 1 of each size.

STOCK #	GRIT	STYLE	ARBOR	PRICE
#190-025-061AQ	Coarse	#6 Cyl	1/8"	9A17Q99 \$ 17.99
#190-025-062AQ	Medium	#6 Cyl	1/8"	9A17F99 \$ 17.99
#190-025-063AQ	Fine	#6 Cyl	1/8"	9A17P99 \$ 17.99
#190-025-064AQ	Ex-Fine	#6 Cyl	1/8"	9A17G99 \$ 17.99
#190-025-081AQ	Coarse	#8 Blt	1/8"	9A16E50 \$ 16.99
#190-025-082AQ	Medium	#8 Blt	1/8"	9A18I99 \$ 18.99
#190-025-083AQ	Fine	#8 Blt	1/8"	9A19G99 \$ 19.99
#190-025-084AQ	Ex-Fine	#8 Blt	1/8"	9A16C99 \$ 16.99
#190-025-111AQ	Coarse	#11 Blt	1/8"	9A34D99 \$ 34.99
#190-025-112AQ	Medium	#11 Blt	1/8"	9A34B99 \$ 34.99
#190-025-113AQ	Fine	#11 Blt	1/8"	9A32I99 \$ 32.99
#190-025-114AQ	Ex-Fine	#11 Blt	1/8"	9A35P99 \$ 35.99
#190-025-152AQ	Medium	#15 Blt	1/8"	9A38C99 \$ 38.99
#190-025-153AQ	Fine	#15 Blt	1/8"	9A38Q99 \$ 38.99
#190-025-154AQ	Ex-Fine	#15 Blt	1/8"	9A36H99 \$ 36.99
#190-025-743AQ	Fine	#74 Whl	1/8"	9A17P99 \$ 17.99
#190-025-744AQ	Ex-Fine	#74 Whl	1/8"	9A17D99 \$ 17.99
#190-025-863AQ	Fine	#86 Whl	1/8"	9A29J99 \$ 29.99

#190-001-004AQ #4 Point Mandrel, 3-pak, 9A13J99... \$13.99
#190-001-006AQ #6 Point Mandrel, 3-pak, 9A15G15... 15.15
#190-001-000AQ Mandrel Try-Pak, 9A10K99... 10.99

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 1/2" long. Grits 60; 120; 240; 320 (resin bond). 10 rolls of single grit per bag. Maximum speed: 20,000 rpm.

STOCK #	GRIT	STOCK #	GRIT
#591-801-060AQ	60	#591-801-240AQ	240
#591-801-120AQ	120	#591-801-320AQ	320

— Advise # — Cylinder Rolls, 10-pak, 1E4J99... \$ 4.99
#591-812-001AQ Abrasive Roll Mandrel, only, 1E4E99... \$ 4.99

NEW! **BROWNELLS PREMIUM GRINDING POINT KIT**



The 11 Most Popular/Useful Shapes & Sizes

Industrial grade cobalt added to aluminum oxide crystals form the hardest, fastest grinding points available. Gives a smooth surface on all metals, lasts much longer than "hobby" points. Kit contains 3 each of the points shown below at a special price. Refill 6-Paks make it easy to keep your Kit well stocked.

SPECS: Shank - 1/2" (3.8cm) long, 1/8" (3.2mm) diameter. Refills sold 6 per pak, not assorted.

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

— Advise # — Refill, 6-pak, 8K16J46... \$ 20.99

#080-697-000AQ Prem. Grinding Point Kit, 8K54P38... \$ 79.99

BROWNELLS 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.

#080-560-000AQ Felt Bob Polishing Kit, 8K52C65... \$ 62.99

FELT BOB REFILL PAKS - Paks of three.

STOCK #	GRIT	STOCK #	GRIT
#080-560-101AQ	Square, 1"x 1/2", 8K12J85	\$ 16.99	
#080-560-102AQ	Square, 1/2"x 3/8", 8K7I93	8.99	
#080-560-103AQ	Tapered Cone, 1"x 1/2", 8K10D24	14.99	

UNMOUNTED BOBS only

#080-560-201AQ	Knife, 1", 8K5J11	7.99
#080-560-202AQ	Knife, 3/8", 8K3I25	3.99
#080-560-211AQ	Square, 1"x 1/4", 8K3C94	4.99
#080-560-212AQ	Square, 1"x 3/8", 8K9M82	12.99
#080-560-213AQ	Square, 1"x 1/8", 8K2D50	4.99

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
#591-510-060AQ	60	#591-510-240AQ	240
#591-510-120AQ	120	#591-510-320AQ	320

— Advise # — Tapered Sanding Rolls, 10-pak, 1E9N99... \$ 9.99
#591-812-001AQ Abrasive Roll Mandrel, only, 1E4E99... \$ 4.99

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° self-centering 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
#891-201-640AQ	1/64	0156 \$ 2.99	#891-201-400AQ	1/4	2500 \$ 4.99
#891-201-320AQ	1/32	0312 \$ 1.99	#891-217-640AQ	1/64	2656 \$ 4.99
#891-201-160AQ	1/16	0625 \$ 1.99	#891-209-320AQ	1/32	2812 \$ 6.99
#891-205-640AQ	1/64	0781 \$ 1.99	#891-219-640AQ	1/64	2969 \$ 5.99
#891-203-320AQ	1/32	0938 \$ 1.99	#891-205-160AQ	1/16	3125 \$ 6.99
#891-207-640AQ	1/64	1094 \$ 1.99	#891-221-640AQ	1/64	3281 \$ 7.99
#891-201-800AQ	1/80	1250 \$ 2.99	#891-211-320AQ	1/32	3438 \$ 7.99
#891-209-640AQ	1/64	1406 \$ 2.99	#891-223-640AQ	1/64	3594 \$ 8.99
#891-205-320AQ	1/32	1562 \$ 2.99	#891-203-800AQ	1/80	3750 \$ 7.99
#891-211-640AQ	1/64	1719 \$ 2.99	#891-225-640AQ	1/64	3906 \$ 9.99
#891-203-160AQ	1/16	1875 \$ 2.99	#891-227-640AQ	1/64	4219 \$ 10.99
#891-213-640AQ	1/64	2031 \$ 2.99	#891-215-320AQ	1/32	4687 \$ 13.99
#891-207-320AQ	1/32	2188 \$ 3.99	#891-231-640AQ	1/64	4844 \$ 14.99

WIRE GAUGE DRILLS - JOBBER LENGTH

STOCK #	NO. EQUIV.	PRICE	STOCK #	NO. EQUIV.	PRICE
#891-101-228AQ	1J	2280 \$ 5.99	#891-131-120AQ	31J	1200 \$ 2.99
#891-102-021AQ	2J	2210 \$ 4.99	#891-132-116AQ	32J	1160 \$ 2.99
#891-103-213AQ	3J	2130 \$ 4.99	#891-133-138AQ	33J	1130 \$ 2.99
#891-104-209AQ	4J	2090 \$ 4.99	#891-134-111AQ	34J	1110 \$ 2.99
#891-105-205AQ	5J	2055 \$ 4.99	#891-135-110AQ	35J	1100 \$ 2.99
#891-106-204AQ	6J	2040 \$ 4.99	#891-136-106AQ	36J	1065 \$ 2.99
#891-107-201AQ	7J	2010 \$ 4.99	#891-137-104AQ	37J	1040 \$ 2.99
#891-108-199AQ	8J	1990 \$ 3.99	#891-138-101AQ	38J	1015 \$ 2.99
#891-109-196AQ	9J	1960 \$ 3.99	#891-139-099AQ	39J	0995 \$ 2.99
#891-110-193AQ	10J	1935 \$ 4.99	#891-140-098AQ	40J	0980 \$ 2.99
#891-111-191AQ	11J	1910 \$ 3.99	#891-141-096AQ	41J	0960 \$ 2.99
#891-112-189AQ	12J	1890 \$ 3.99	#891-142-093AQ	42J	0935 \$ 2.99
#891-113-185AQ	13J	1850 \$ 3.99	#891-143-089AQ	43J	0890 \$ 2.99
#891-114-182AQ	14J	1820 \$ 3.99	#891-144-086AQ	44J	0860 \$ 2.99
#891-115-180AQ	15J	1800 \$ 4.99	#891-145-082AQ	45J	0820 \$ 2.99
#891-116-177AQ	16J	1770 \$ 3.99	#891-146-081AQ	46J	0810 \$ 2.99
#891-117-173AQ	17J	1730 \$ 3.99	#891-147-078AQ	47J	0785 \$ 2.99
#891-118-169AQ	18J	1695 \$ 2.99	#891-148-076AQ	48J	0760 \$ 2.99
#891-119-166AQ	19J	1660 \$ 2.99	#891-149-073AQ	49J	0730 \$ 2.99
#891-120-161AQ	20J	1610 \$ 2.99	#891-150-070AQ	50J	0700 \$ 2.99
#891-121-159AQ	21J	1590 \$ 2.99	#891-151-067AQ	51J	0670 \$ 2.99
#891-122-157AQ	22J	1570 \$ 2.99	#891-152-063AQ	52J	0635 \$ 2.99
#891-123-154AQ	23J	1540 \$ 2.99	#891-153-059AQ	53J	0595 \$ 2.99
#891-124-152AQ	24J	1520 \$ 2.99	#891-154-055AQ	54J	0550 \$ 2.99
#891-125-149AQ	25J	1495 \$ 2.99	#891-155-052AQ	55J	0520 \$ 2.99
#891-126-147AQ	26J	1470 \$ 2.99	#891-156-046AQ	56J	0465 \$ 2.99
#891-127-144AQ	27J	1440 \$ 2.99	#891-157-043AQ	57J	0430 \$ 2.99
#891-128-140AQ	28J	1405 \$ 2.99	#891-158-042AQ	58J	0420 \$ 2.99
#891-129-136AQ	29J	1360 \$ 2.99	#891-159-041AQ	59J	0410 \$ 2.99
#891-130-128AQ	30J	1285 \$ 3.99	#891-160-040AQ	60J	0400 \$ 2.99

WIRE GAUGE DRILLS - SHORT LENGTH

STOCK #	NO. EQUIV.	PRICE	STOCK #	NO. EQUIV.	PRICE
#891-401-228AQ	15	2280 \$ 4.99	#891-406-204AQ	65	2040 \$ 3.99
#891-402-221AQ	25	2210 \$ 4.99	#891-407-201AQ	75	2010 \$ 3.99
#891-403-213AQ	35	2130 \$ 3.99	#891-408-199AQ	85	1990 \$ 3.99
#891-404-209AQ	45	2090 \$ 3.99	#891-409-196AQ	95	1960 \$ 3.99
#891-405-205AQ	55	2055 \$ 3.99	#891-410-193AQ	105	1935 \$ 3.99

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 #	DIA.	FACE	MANDREL	PRICE
#839-500-025AQ	1/4"(6.3mm)	1/8"(9.5mm)	1/8"(3.1mm)	2C4N99 \$ 4.99
#839-500-750AQ	3/4"(19mm)	1"(2.5cm)	1/8"(3.1mm)	2C4M99 \$ 4.99
#839-500-900AQ	1"(2.5cm)	2"(5cm)	1/4"(6.3mm)	2C9D99 \$ 9.99

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 1/64" to 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" x 4 1/4" x 2 1/2" box. 1" = 2.5cm.

#891-500-000AQ Maxi Set, 1H399H99... \$ 545.99

WIRE GAUGE DRILLS - SHORT LENGTH CONTINUED

STOCK #	NO. EQUIV.	PRICE	STOCK #	NO. EQUIV.	PRICE
#891-411-191AQ	11S	1910 \$ 2.99	#891-436-106AQ	36S	1065 \$ 1.99
#891-412-189AQ	12S	1890 \$ 3.99	#891-437-104AQ	37S	1040 \$ 1.50
#891-413-185AQ	13S	1850 \$ 2.99	#891-438-101AQ	38S	1015 \$ 1.99
#891-414-182AQ	14S	1820 \$ 2.99	#891-439-099AQ	39S	0995 \$ 1.99
#891-415-180AQ	15S	1800 \$ 3.99	#891-440-098AQ	40S	0980 \$ 1.99
#891-416-177AQ	16S	1770 \$ 2.99	#891-441-096AQ	41S	0960 \$ 1.99
#891-417-173AQ	17S	1730 \$ 3.99	#891-442-093AQ	42S	0935 \$ 1.99
#891-418-169AQ	18S	1695 \$ 2.99	#891-443-089AQ	43S	0890 \$ 1.99
#891-419-166AQ	19S	1660 \$ 2.99	#891-4		



BROWNELLS TAP & DIE KIT No. 1

Basic Foundation Set For
The Gunsmith's Bench



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, sturdy, fitted, double-level polyethylene case, and has 8 plug taps, 8 matching screw-adjusting 1/16" 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, 8-36, 8-40, 10-32; plus two tap wrenches, 1/16" die stock, and box.

#080-655-001AQ Tap & Die Kit No. 1, 8K143E00 \$ 159.99
#395-311-021AQ Offset Tap Handle, 5C7P00 8.99

"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!

SPECS: H-2, High Speed tool steel.

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	PRICE
#748-002-356AQ	3-56	8D11G99 \$ 11.99
#748-001-648AQ	6-48/Plug	8D16A99 \$ 17.50
#748-002-648AQ	6-48/Bottom	8D16F25 \$ 16.99
#748-101-640AQ	6-40	8D6175 \$ 8.25
#748-102-640AQ	6-40/Bottom	8D6175 \$ 8.25
#748-001-840AQ	8-40/Plug	8D21P50 \$ 22.99
#748-002-840AQ	8-40/Bottom	8D19F31 \$ 25.99
#748-101-832AQ	8-32/Plug	8D7A50 \$ 8.99
#748-102-832AQ	8-32/Bottom	8D6D50 \$ 7.99
#748-101-422AQ	1/4-22/Plug	8D19M99 \$ 21.99

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	PRICE
#748-202-352AQ	3-56/Plug	8D11G99 \$ 11.99
#748-202-353AQ	3-56/Bottom	8D11C99 \$ 11.99
#748-202-642AQ	6-48/Plug	8D16P25 \$ 16.99
#748-202-643AQ	6-48/Bottom	8D18D99 \$ 18.99
#748-203-642AQ	6-40/Plug	8D6175 \$ 8.25
#748-203-643AQ	6-40/Bottom	8D6175 \$ 8.25
#748-202-842AQ	8-40/Plug	8D21B25 \$ 22.99
#748-202-843AQ	8-40/Bottom	8D22J50 \$ 23.99



BROWNELLS DRILL & TAP STARTER KIT

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 handguns. 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. High-speed 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) 3J1 and (2) 4J3 wire gauge drills, and polyethylene case.

#080-564-003AQ Basic Drill & Tap Starter Kit, 8K47P31 \$ 51.95

#080-564-004AQ Premium Drill & Tap Starter Kit, 8K95E99 95.99



BROWNELLS DRILL & TAP KIT No. 2

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 popular and profitable jobs to be done by gunsmiths.

So, Bob B. put together this assortment of the tap-hole and clearance drills, plus the taper, plug and bottom taps needed to do these jobs right. Then, added a professional type "T"-handed 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. sample of Do-Drill™ (the world's best drill/tapping oil) in a dropper-top bottle, and a tough, compact bench box.

This is one heck of a kit, guys. Tools used are top-quality, American-made. Taps are all Carbon steel so when 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 seen over, and can be bloody awful to get out!) Drills are standard, replaceable High Speed Steel.

Whether you're just getting your shop set up, or been at it a while, this is one kit you need on your bench - 'cause it's the one you're going to use most often.

SPECS: Sizes: 3-56; 5-44; 6-40; 6-48; 8-40 and 10-32, giving you 18 taps, 12 drills, Do-Drill™, Tap Wrench and Bench Box.

#080-564-002AQ Drill & Tap Kit No. 2, 8K99D99 . . . \$ 129.99

TAPS & DIES



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 1/16" O.D. round unless otherwise indicated in chart.

FRACTIONAL CARBON TAPST

NOMINAL SIZE	TAP DRILL SIZE	CLEARANCE DRILL SIZE	STK# TAPER	STK# PLUG	STK# BOTTOM	STK# 13/16" O.D. DIE
1/4-40	38	29	#395-184-001AQ \$2.49	NA	NA	NA
1/4-20	7	7/16	#395-142-011AQ \$2.79	#395-142-022AQ \$2.79	#395-142-033AQ \$2.79	#265-000-009AQ \$10.99
1/4-24	4	7/16	#395-142-411AQ \$2.69	#395-142-422AQ \$2.79	#395-142-433AQ \$2.69	#265-000-010AQ \$24.99
1/4-28	3	7/16	#395-142-801AQ \$2.79	#395-142-802AQ \$2.79	#395-142-803AQ \$2.79	#395-142-804AQ \$34.66
1/4-32	7/16	7/16	#395-143-201AQ \$2.69	#395-143-202AQ \$2.79	#395-143-203AQ \$2.69	#395-143-204AQ \$8.99
1/4-40	2	7/16	#395-144-001AQ \$2.69	#395-144-002AQ \$2.79	#395-144-003AQ \$2.69	#395-144-004AQ \$15.99
1/2-18	F	7/16	#891-516-181AQ \$4.99	NA	NA	NA
1/2-24	I	7/16	#395-516-321AQ \$3.39	NA	#891-516-243AQ \$4.99	NA
13225	21	8	NA	#395-316-362AQ \$2.69	NA	NA
1/2-32	7/16	7/16	NA	#395-516-322AQ \$3.49	#395-516-323AQ \$3.39	NA
1/2-27	J	7/16	NA	NA	#748-001-517AQ \$23.99	NA
1/2-18	7/16	7/16	NA	NA	#395-000-004AQ \$6.99	NA
7/32-40	11	1	NA	NA	NA	#080-598-112AQ \$74.99
1/4-22	5	7/16	NA	NA	NA	#325-142-200AQ \$19.99
1/4-25	3	7/16	NA	NA	NA	#325-142-500AQ \$47.99
1/4-30	7/16	7/16	NA	NA	NA	#325-143-000AQ \$13.99
6-32	36	25	NA	NA	#395-632-003AQ \$2.59	NA

WIRE GAUGE CARBON TAPST

NOMINAL SIZE	TAP DRILL SIZE	CLEARANCE DRILL SIZE	STK# TAPER	STK# PLUG	STK# BOTTOM	STK# 13/16" O.D. DIE
0-80	56	51	#395-080-001AQ \$5.99	#395-080-002AQ \$5.99	#395-080-003AQ \$5.99	NA
1-72	53	47	#395-172-001AQ \$5.99	#395-172-002AQ \$5.99	#395-172-003AQ \$5.99	NA
2-56	50	42	#395-256-001AQ \$4.99	#395-256-002AQ \$4.99	#395-256-003AQ \$4.99	NA
2-64	50	42	#395-264-001AQ \$4.99	#395-264-002AQ \$4.99	NA	NA
3-48	47	36	#395-348-001AQ \$4.99	#395-348-002AQ \$4.99	#395-348-003AQ \$4.99	NA
3-56	45	36	#395-356-001AQ \$5.99	#395-356-002AQ \$5.99	#395-356-003AQ \$5.99	#395-356-004AQ \$14.99
4-36	44	31	#395-436-001AQ \$2.39	#395-436-002AQ \$2.49	#395-436-003AQ \$2.39	NA
4-40	43	31	#395-440-001AQ \$2.49	#395-440-002AQ \$2.49	#395-440-003AQ \$2.49	#395-440-004AQ \$14.99
4-48	42	31	#395-448-001AQ \$2.39	#395-448-002AQ \$2.49	NA	#265-000-005AQ \$9.99

WIRE GAUGE CARBON TAPST CONTINUED

NOMINAL SIZE	TAP DRILL SIZE	CLEARANCE DRILL SIZE	STK# TAPER	STK# PLUG	STK# BOTTOM	STK# 13/16" O.D. DIE
5-40	38	29	#395-540-001AQ \$2.49	#395-540-002AQ \$2.49	#395-540-003AQ \$2.49	#395-540-004AQ \$14.99
6-32	36	25	#395-632-001AQ \$2.59	#395-632-002AQ \$2.59	NA	#265-000-006AQ \$10.99
6-36	34	25	#395-636-001AQ \$2.49	#395-636-002AQ \$2.59	#395-636-003AQ \$2.49	#265-000-007AQ \$14.99
6-40	33	25	#395-640-001AQ \$2.59	#395-640-002AQ \$2.59	#395-640-003AQ \$2.59	#395-640-004AQ \$14.99
6-48	31	25	#395-648-001AQ \$2.59	#395-648-002AQ \$4.99	#395-648-003AQ \$2.59	#395-648-004AQ \$25.99
8-32	29	16	#395-832-001AQ \$2.59	#395-832-002AQ \$2.59	#395-832-003AQ \$2.59	#265-000-008AQ \$10.99
8-36	29	16	#395-836-001AQ \$2.59	#395-836-002AQ \$2.59	#395-836-003AQ \$2.59	#395-836-004AQ \$14.99
8-40	28	16	#395-840-001AQ \$2.59	#395-840-002AQ \$2.99	#395-840-003AQ \$2.79	#395-840-004AQ \$29.99
10-24	25	17/16	#395-102-401AQ \$2.79	#395-102-402AQ \$2.79	#395-102-403AQ \$2.79	NA
10-32	21	17/16	#395-103-201AQ \$2.79	#395-103-202AQ \$2.79	#395-103-203AQ \$2.79	#395-103-204AQ \$14.99
10-36	20	11	#080-604-106AQ \$22.99	#080-604-116AQ \$25.99	#080-604-126AQ \$25.99	#265-000-002AQ \$14.99
12-24	16	7/16	#395-122-401AQ \$2.79	#395-122-402AQ \$2.79	#395-122-403AQ \$2.79	NA
12-28	14	7/16	#395-122-801AQ \$2.79	#395-122-802AQ \$2.79	#395-122-803AQ \$2.79	#395-122-804AQ \$14.99
12-32	13	7/16	#395-123-201AQ \$2.79	#395-123-202AQ \$2.79	#395-123-203AQ \$2.79	NA
5-44	37	29	NA	#395-544-002AQ \$2.59	#395-544-003AQ \$2.49	NA

HIGH-SPEED STEEL TAPS

NOMINAL SIZE	TAP DRILL SIZE	CLEARANCE DRILL SIZE	STK# TAPER	STK# PLUG	STK# BOTTOM
6-48	31	25	#395-648-101AQ \$4.99	#395-648-102AQ \$4.99	#395-648-103AQ \$4.99
7/16-40	11	1	#080-598-113AQ \$34.99	#080-598-114AQ \$34.99	#080-598-115AQ \$34.99
8-40	28	16	#395-840-101AQ \$5.99	#395-840-102AQ \$4.99	#395-840-103AQ \$4.99
3-56	45	36	NA	#748-001-356AQ \$11.99	#748-002-356AQ \$11.99
6-40	33	25	NA	#748-101-640AQ \$8.25	#748-102-640AQ \$8.99
7/16-40	11	1	NA	#748-001-324AQ \$25.95	NA
1/4-22	5	7/16	NA	#748-001-422AQ \$24.99	#748-002-422AQ \$25.95
1/4-25	3	7/16	NA	#748-001-425AQ \$24.99	#748-002-425AQ \$28.99
1/4-28	3	7/16	NA	#748-001-428AQ \$8.99	#748-002-428AQ \$8.99
1/4-30	7/16	7/16	NA	#748-001-430AQ \$24.99	#748-002-430AQ \$24.90
1/4-32	2	7/16	NA	#748-001-432AQ \$24.99	#748-002-432AQ \$25.95
8-36	28	16	NA	NA	#080-604-836AQ \$15.99
10-32	21	7	NA	NA	#080-604-132AQ \$12.99
7/16-32	26	12	NA	NA	#080-604-332AQ \$19.99
6mm-1	8	B	NA	NA	#080-604-610AQ \$19.99
1/4-40	1	7/16	NA	NA	#748-002-440AQ \$25.95
7/16-32	F	M	NA	NA	#325-932-003AQ \$9.34

†We are no longer able to supply! We 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 Carbon Taps in the following sizes: 1-56, 1-64, 3-80, 4-32, 5-48, 10-28, 10-30, 14-20, 14-24.

***High-speed steel Wire Gauge 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 Carbon Taps in the following sizes: 1-56, 1-64, 3-80, 4-32, 5-48, 10-28, 10-30, 14-20, 14-24.

**High-speed steel.

SATISFACTION GUARANTEED
SINCE 1939

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.

- #748-250-356AQ 3-56 Gun Tap, 8D12K99 \$ 12.99
- #748-250-648AQ 6-48 Gun Tap, 8D26C99 26.99
- #748-250-840AQ 8-40 Gun Tap, 8D26C31 28.99

TOOL MAKERS PARALLEL CLAMPS

Precision Holding For Unusual Shapes



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

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

- #912-361-005AQ #005 Toolmakers Clamp, 5F11L22... \$ 12.99
- #912-362-010AQ #010 Toolmakers Clamp, 5F15G00... 15.00
- #912-363-015AQ #015 Toolmakers Clamp, 5F21I61... 21.99

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 each leaf.



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

- #493-480-028AQ English Thread Pitch Gauge, 3D8D60 \$ 9.99
- #592-690-024AQ Metric Thread Pitch Ga., 2E8I60 9.99
- #592-769-000AQ BSW Thread Pitch Gauge, 2E8Q60... 9.99

DIE STOCK



Four Handy Sizes

SPECS: #12, 7" (17.8cm) long for 3/16" (20.6mm) round dies; #47, 9" (22.9cm) long for 1" (2.5cm) round or hex dies; #48, 12 1/4" (31.1cm) long for 1 1/2" (3.8cm) dies; #49, 15 1/2" (39.4cm) long for 2" (5.1cm) dies.

- #395-311-316AQ #12 Die Stock, 5C11J99 \$ 11.99
- #325-100-182AQ #47 Die Stock, 5B5J79 5.79
- #325-100-185AQ #48 Die Stock, 5B10D87 10.87
- #325-100-186AQ #49 Die Stock, 5B15K99 15.99

QUESTIONS BEFORE YOU BUY?
Ask Our Full-Time Tech Staff
800-741-0015

BROWNELLS SCREW CHEK'R™

Identifies Threads Plus Gives Drill & Tap Sizes



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

SPECS: Hardened steel, satin chrome plated. 3" (7.6cm) x 5" (12.7cm). With instructions. U.S. Thread Model - Checks #1 through 3/16" 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.

- #080-670-001AQ U.S. Screw Chek'r, 1A12P69 \$ 14.89
- #080-670-002AQ Metric Screw Chek'r, 1A13N95 19.97

BROKEN TAP EXTRACTOR



Will Save Your Day - And A Whole Bunch Of Trouble

Don't wait until you have a broken tap to extract before ordering some of these. At least have a No. 6 for 6-48 and a No. 8 for 8-40, with extra sets of fingers on hand at all times.

SPECS: Steel body. Heat-treated steel fingers.

STK#	2-FLUTE	STK#	3-FLUTE	STK#	4-FLUTE	TAP SIZE	PRICE
COMPLETE TAP EXTRACTOR							
#952-200-004AQ	#952-300-004AQ	NA	4	\$ 11.25			
#952-200-006AQ	NA	#952-400-006AQ	6	\$ 11.25			
NA	#952-300-006AQ	NA	6	\$ 12.49			
NA	#952-300-008AQ	#952-400-008AQ	8	\$ 11.25			
NA	#952-300-010AQ	#952-400-010AQ	10	\$ 11.25			
NA	NA	#952-400-014AQ	1/4	\$ 11.75			
EXTRA FINGERS (PAKS OF 12)							
#952-100-062AQ	#952-100-063AQ	NA	6	\$ 5.45			
NA	#952-100-043AQ	NA	4	\$ 5.45			
NA	#952-100-083AQ	#952-100-084AQ	8	\$ 5.45			
NA	#952-100-010AQ	NA	10	\$ 8.10			
NA	NA	#952-100-064AQ	6	\$ 5.99			

T-HANDLE TAP WRENCH



Two Convenient Sizes

SPECS: No. 1E for 0 to 12. No. 164 for 1/16" to 1/4".

- #395-311-001AQ T-Handle No. 1E, 8K5C36 \$ 5.99
- #345-164-000AQ T-Handle No. 164, 1/16" to 1/4", 5D14Q66 14.66

TAP WRENCHES



Two Sizes Cover From 0 To 1"

SPECS: No. 1, 9 1/4" long, fits 0 to 1/4" 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.

- #395-312-088AQ Tap Wrench No. 1, 5C16E99 \$ 16.99
- #395-311-098AQ Tap Wrench No. 2, 5C44G40 44.40

STARRETT

TAP WRENCHES



#174 Straight Handle

#93 T-Handle

For Accurate Thread Cutting, Reaming & Drilling

Precision-made tap 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-to-grasp, 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 square-shank tools. Centered pilot hole on body allows hand-turning in drill presses, mills, and lathes.

- #827-506-580AQ #174 Tap Wrench, 7B33199 \$ 33.99
- #827-000-004AQ #93 Tap Wrench, 7B36D99 36.99

BIG GATOR TOOLS V-TAP GUIDES



For Cutting Perfectly Straight Threads; Inch & Metric Models Available

Aligns and centers taps to cut perfectly straight threads on flat or curved surfaces. Helps prevent misalignment and tap damage, saving time

and money. Center V-groove along the bottom of the guide allows a snug fit on curved receivers, barrels, or parts with corners. Outer edges are surface ground to precise tolerances for a tight fit on flat surfaces. Precision machined from nickel-alloy steel, then heat-treated for strength, durability, and dimensional stability. Models available for Standard inch and Metric size taps.

SPECS: Nickel alloy steel. 4 1/8" (11.7cm) long, 1/2"-1" (1.3-2.5cm) wide tapered, 7/8" (2.3cm) high. Includes plastic storage sleeve. Standard fits tap sizes: 0-80, 1-64, 1-72, 2-56, 2-64, 3-48, 3-56, 4-36, 4-40, 4-48, 5-40, 5-44, 6-32, 6-36, 6-40, 8-32, 8-36, 8-40, 10-24, 10-32, 1/4"-20, 1/4"-28, 3/8"-18, 3/8"-24, 1/2"-16, 1/2"-24, 7/8"-14, 7/8"-20, 1"-13, 1"-20, 1"-11, 1"-18. Metric fits tap sizes: 1.6mm, 2mm, 2.5mm, 3mm, 3.5mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm, 14mm, 16mm.

- #100-004-422AQ Standard V-Tap Guide, 8C19F30... \$ 22.99
- #100-004-423AQ Metric V-Tap Guide, 8C19F30 22.99

NEW! TAP IT ALL TAPPING PASTE

Eases Cutting During Tapping

Paste works on any metal or alloy and at any angle to help ease cutting when tapping. Easy-to-clean formula wipes up afterwards, and is 100% bio-based and non-toxic. Allows higher feed and speed rates, and helps increase tool life by reducing friction.

- #100-015-191AQ Tapping Paste, 3H9L24 \$ 10.99



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.

- #357-001-000AQ Taprite Kit, 9C27P15 \$ 27.15

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.



- #083-007-016AQ 16 oz. Do-Drill, 5L12M01 \$ 15.99
- #083-008-128AQ 1 Gal. Do-Drill, 5L72K83 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 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.

- #100-013-368AQ Viper's Venom, 8 oz., 6A6F90 \$ 7.99
- #100-013-369AQ Viper's Venom, 1 quart, 6A18Q20 19.99



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.

- #262-100-004AQ Dykem Layout Fluid, 2F7L35 \$ 9.99



**PERMATEX
PRUSSIAN BLUE**

Gives A Visual Fit Check



Intense blue paste clearly marks high spots on parts being fitted. **■**
SPECS: 3/4 oz (21.2g) tube.

#100-001-581AQ Prussian Blue, 2A4P49 \$ 4.99

**FISHER MACHINE SHOP
MACHINE TOOLS**

Top-Quality Machinist Tools For Precision Work

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

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

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

#100-004-429AQ Micro Edge Finder, 1C9I99 \$ 10.99

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

SPECS: Steel, hardened, knurled bottleneck. 3 1/8" (7.9cm) OAL, 1/2" (13mm) diameter shank, 3/16" (4.8mm) diameter tip, retracts 1/2" into body. Adjustable spring tension.

#100-004-428AQ Micro Tap Guide, 1C11Q00 \$ 12.95

PEEDEETHREADMEASURINGWIRES

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

SPECS: Steel, 2 1/4" (7cm) OAL. Contains 16 different wire sizes, (3) of each diameter: .018" (.45mm), .024" (.61mm), .029" (.74mm), .032" (.81mm), .040" (1mm), .045" (1.1mm), .055" (1.4mm), .063" (1.6mm), .072" (1.8mm), .081" (2.1mm), .092" (2.3mm), .108" (2.7mm), .120" (3mm), .127" (3.2mm), .143" (3.6mm), .185" (4.7mm).

#100-004-430AQ Pee Dee Thread Wire Set, 1C23100 . . \$ 26.99

**BROWNELLS
MACHINE SETUP GAUGE**



Immediately Gives Correct Lathe Bit Position

Easily centers cutting tools for conventional lathe operations on either flat or rounded stock. For milling operations, makes indexing of squares, hexes, triangle, parallels and flats fast, easy and exact to 1/4 min. of angle. All surfaces are machined true to all other surfaces so can be used in literally hundreds of setup operations. Built-in level. **■**

SPECS: Aluminum, silver, matte finish. 1 1/8" (3.65cm) x 1 1/8" x 1/2" (12.7mm).

#080-000-211AQ Machine Setup Gauge, 2B53G10 . . . \$ 57.95

STARRETT #98-6 PRECISION LEVEL

Finest Quality For Machine Setup

A precision instrument for setting up lathes, milling machines, drill presses, sight fixtures and more. Seasoned casting; highly-polished bearing surfaces; grooved base to handle round work; integral cross-test level. **■**

SPECS: 1 division (.100"=2.5mm) equals an elevation of .005" (.13mm) per foot. Base is 6" (15.2cm) long. Weighs 14 oz. (397 g).

#827-504-410AQ No. 98-6 Level, 7B135P00 \$ 139.99

**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.

#827-505-690AQ Cross-Test Level, 7B54N99 \$ 54.99

STARRETT ANGLE METER

For Precise Measurements Of Pitch Or Slope

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

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

#827-000-003AQ Angle Meter, 7B15K87 \$ 19.95

**BROWNELLS
LATHE CENTERING BAR**



Eliminate Errors Caused By Faulty Alignment

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

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

#080-000-258AQ Lathe Centering Bar, 1 1/4" x 24", 8K162K87 \$ 203.99

H&K BARREL CENTERING BAR



Makes The Job "Precision" & Not By "Guess"

For EXACT centering of bore of rifle barrel to the lathe - whether the barrel outside is concentric with bore or not. The only perfect way to setup for barrel turning or truing, muzzle crowning, barrel threading or chambering. Made of ground hardened steel; spring-loaded on tailstock end. An excellent lathe accessory for the professional gunsmith. **■**

SPECS: 1/2" (12.7mm) diameter. 7" (17.8cm) long. Fits up to .45.

#391-001-000AQ Barrel Centering Bar, 1C90H00 . . . \$ 90.00

**BROWNELLS
LATHE CENTERING BUTTONS**



Assures Correct Head/Tail Stock Alignment

Precision-ground and hardened "buttons" help ensure correct lathe alignment, quickly. Move head and tailstock together with buttons between centers until button faces touch. If O.D. over button joint measures .900", (nominal button O.D.) head and tailstock are aligned. If not, the buttons are offset, and so are your headstock and tailstock. Make adjustments and re-measure. **■**

SPECS: Steel. .560" (14.2mm) long x .900" (22.9mm) diameter.

#080-641-002AQ Lathe Center Buttons, 8K27G44 . . . \$ 34.99

**XS SIGHT SYSTEMS
DOVETAIL MEASURING TOOL**

Determines Sight & Dovetail Width

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

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

#006-101-000AQ Dovetail Measuring Tool, 6K39J29 \$ 45.00

BROWNELLS CROWN SAVER™ LATHE CENTER COVER



Your Safeguard When Turning Barrels With Finished Crowns

These brass cones take much of the anxiety out of lathe-turning a perfectly good barrel with an already finished crown. Insert a

Crown Saver between the muzzle and lathe or mill center before fluting, 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".

#080-000-379AQ Small Crown Saver, 10-pak, 8K22I78 \$ 29.99

#080-000-869AQ Large Crown Saver, 5-pak, 8K15D00 19.99

60° CENTER GAUGE

Quick Check For Thread Angle & TPI

Double depth of American Nat'l Thread. Tempered stainless steel with three 60° notched angles. Graduations in 14th, 20th, 25th and 32nd per inch to determine tpi. **■**

SPECS: 2 1/2" (5.7cm) x 3/4" (19.0mm), .044" (1.1mm) thick.

#345-778-060AQ Center Gauge 60°, 5D9M00 \$ 10.99

**MANSON PRECISION REAMERS
FLOATING REAMER HOLDER**



Keeps Reamer Aligned To Barrel For Accurate Chambers

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

SPECS: Steel and aluminum. Holder - 1 1/4" (4.5cm) diameter, 2 1/2" (6.4cm) long. Shanks - approx. 4" (10.2cm) long.

#513-054-001AQ Reamer Holder w/Straight Shank, 3A115G95 \$ 115.99

#513-054-002AQ #2 Morse Taper Shank, 3A25M00 25.00

#513-054-038AQ #3 Morse Taper Shank, 3A26R00 26.00

WANT MORE? OVER 82,000 PRODUCTS TO CHOOSE FROM ONLINE! www.brownells.com

**SATISFACTION GUARANTEED
SINCE 1939**

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 radius.

#080-000-834AQ 1/4" Turning Kit, 7C115J00 \$ 115.00

1/2" TURNING RH/LH BORING BAR KIT - Includes two 1/2" square shank bars, one right hand (RH) bar and one left hand (LH) bar, a 3/8" shank boring bar, plus two CEMW-2-1.5-1 boring bar inserts and three CCMW-2-1.5-1 square shank bar inserts.

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

#080-000-835AQ 1/2" Turning RH/LH BB Kit, 7C130Q00 \$ 130.00

35° PROFILE RH/LH KIT - Includes two 3/8" square bars, one right hand bar and one left hand bar, plus three high-speed steel inserts and one carbide insert that fit either bar.

SPECS: One right-hand and one left-hand bar, both .375" square shank, 6" OAL. Inserts - three HSS VCMW-221 inserts and one carbide VCMW-221 insert, all 7° positive, .250 IC, .125 thick, .110 hole, .146 top opening, .015 radius. Includes three MS-1153 screws and T-7 wrench.

#080-000-836AQ 35° Profile RH/LH Kit, 8K110N00 \$ 110.00

1/2" THREADER (NV) KIT - Includes one 1/2" square bar, 5" long with offset end pocket for cutting ID and OD threads; plus, two high-speed steel inserts, TNMC-32NV and TPMC-32NV.

SPECS: Bar - .500" shank, 5.0" OAL, with end pocket offset for ID and OD threads, 1.375" minimum bore diameter, 60°. Inserts - .375 IC, .125 thick, .150 hole. T-15 HSS, one TNMC-32NV and one TPMC-32NV. Includes two 6-32 FH screws and 3/8" hex wrench.

#080-000-839AQ 1/2" Threader (NV) Kit, 7C85J00 \$ 85.00

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

SPECS: Bar - .500" shank, 6.0" OAL, end pocket 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.

#080-000-840AQ 1/2" Threader Laydown Kit, 7C81100 \$ 81.00

BROWNELLS

BARREL THREADING LATHE BITS

Pre-Shaped & Ready To Save You Time

Square Thread Bits cut true 10 tpi, square, barrel threads for '03 Springfield and Enfields. 55°

Threading Bits have offset cutter and are the correct bit when threading barrels for 98 Mausers. 60° **Threading Bits** have cutter offset to left for closest cut possible. All types have clearance cuts.

SPECS: 1/4" (6.3mm), 3/16" (7.9mm), 1/8" (9.5mm) square. 1/4" (6.3mm) and 3/16" (7.9mm) approximately 2 1/2" (6.4cm) long; 1/8" (9.5mm) approximately 3" (7.6cm) long.

STK# SQ.	STK# 55°	STK# 60°	SIZE
#080-658-025AQ	#080-658-125AQ	#080-658-225AQ	1/4"
#080-658-056AQ	#080-658-156AQ	#080-658-256AQ	5/16"
#080-658-038AQ	#080-658-138AQ	#080-658-238AQ	3/8"

- Advise # — 1/4" Threading Bit, 2B25B93 \$ 32.99
- Advise # — 3/16" Threading Bit, 2B21M97 33.99
- Advise # — 3/8" Threading Bit, 2B28E61 35.95

THREADING BITS FOR LEVER ACTIONS - Correctly ground threading bits cut true, 12 tpi, square threads for Marlin lever action and Remington Rolling Block rifles.

SPECS: 1/4" (6.3mm) and 3/16" square. 1/8" is approximately 2 1/2" (6.4cm) long; 3/16" approximately 3" (7.6cm) long.

#080-658-325AQ 1/4" Threading Bit, 2B19C98 \$ 24.99
#080-658-338AQ 3/16" Threading Bit, 2B22B70 29.99

BROWNELLS

BARREL CROWNING LATHE BIT

Professionally Ground For Perfect Crowns

A difficult tool to grind correctly. These are expertly done to give maximum cutter strength and proper clearance as cutter tip enters bore and shank approaches barrel. By taking careful cuts and moving table back and forth, any degree of crown shape can be cut.

SPECS: Bit ground on both ends - one for .210" (5.3mm) radius cuts; the other for .250" radius.

#080-658-250AQ 1/4" Barrel Crowning Bit, 3B26P25 . . . \$ 29.99
#080-658-375AQ 3/16" Barrel Crowning Bit, 3B29J09 . . . 34.99

QUESTIONS BEFORE YOU BUY?

Call Or Email Our Full-Time Tech Staff

1/8" CUT-OFF GROOVER RH KIT - Includes one 3/16" square bar, 4 1/2" long, plus high-speed steel inserts.

SPECS: Bar - .375" shank, 4.5" OAL. Inserts - T-15 HSS. Two 1/16" groovers (.062") and two 1/32" groovers (.031"), and one 1/8" groover (.015"). Includes two IS 3007 screws and T-9 wrench.

#080-000-841AQ 3/16" Cutoff Groover RH Kit, 7C90E00 \$ 90.00

1/16" CUT-OFF GROOVER KIT - Includes one 3/16" square shank bar, 3" long, plus one T-15 high speed steel .062" x 3" cut-off blade.

SPECS: Bar - 3/16" shank, 3" OAL. Insert - T-15 HSS, .062" x 3". Includes 3/8" wrench.

#080-000-842AQ 3/16" Cutoff Groover Kit, 7C65G00 . . . \$ 65.00

NEW!

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 high grade, 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. 65-67 Rockwell hardness.

STOCK #	SHAPE	DEG. THICK-RELIEF	NESS RADIUS	IC	PRICE
#080-001-061AQ	Triangle	0 .125"	.0156"	.25"	7C6N99 \$ 6.99
#080-001-064AQ	Triangle	0 .125"	--	.375"	7C12I99 \$ 12.99
#080-001-065AQ	Triangle	0 .125"	.025"	.375"	7C13J99 \$ 13.99
#080-001-066AQ	Triangle	0 .125"	.004"	.25"	7C6G99 \$ 6.99
#080-001-062AQ	Diamond	7 .125"	.015"	.25"	7C6F99 \$ 6.99
#080-001-063AQ	Diamond	7 .125"	.015"	.25"	7C8A99 \$ 8.99
#080-001-067AQ	Diamond	20 .094"	.008"	.25"	7C00FYL \$ 6.99

SOLID CARBIDE BALL END MILLS

Carbide For Cavities, Round Bottoms

Four-flute, center-cut design produces smooth cuts and allows plunge cutting to eliminate pre-drilling. Right-hand cut, right-hand helix. Use in right-hand turning equipment. Single-ended. Premium, high feed rate carbide for hardened steels.

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

- #317-140-250AQ 1/4" Crbd Ball End Mill, 7A33F99 . . . \$ 33.99**
- #317-140-312AQ 3/16" Crbd Ball End Mill, 7A42G99 . . . 42.99**
- #317-140-375AQ 1/8" Crbd Ball End Mill, 7A47I25 . . . 47.25**

END MILL CUTTERS

High Speed Steel & Carbide Handle Gunshop Milling Chores
 Four-flute design produces an extra smooth cut. Saves machine time and money.

HIGH SPEED STEEL - For general purpose end milling operations in unhardened steels. 5mm through 3/8" sizes contain 8% cobalt for added toughness.

SPECS: 1/4" and 3/16" sizes have 3/16" dia. shanks. 1/8" size has 1/2" dia. shank. Overall lengths from 2 1/2" (6.2cm) to 3 1/2" (8.25cm). 1/4" (6.35mm) dia. x 3/8" (15.8mm) long cut. 3/16" (9.5mm) dia. x 3/4" long cut. 1/8" (12.7mm) dia. x 1 1/4" (3.17cm) long cut.

- #265-401-250AQ 1/4" HSS End Mill, 5F26P94 \$ 26.99**
- #265-401-375AQ 3/16" HSS End Mill, 5F27A29 27.29**
- #265-401-500AQ 1/8" HSS End Mill, 5F39E49 39.49**

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

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

- #317-111-250AQ 1/4" Carbide End Mill, 7A29D99 \$ 29.99**
- #317-111-312AQ 3/16" Carbide End Mill, 7A39I99 39.99**
- #317-111-375AQ 1/8" Carbide End Mill, 7A39L99 39.99**
- #317-111-437AQ 1/16" Carbide End Mill, 7A46L99 46.99**
- #317-111-500AQ 1/2" Carbide End Mill, 7A68G95 68.95**

BROWNELLS

BOLT FACING LATHE BIT

Expertly Ground, Ultra-Hard Cobalt Alloy

Cobalt alloy bit provides maximum cutting force to open bolt faces to magnum dimensions. Back rake, front and side clearance, lip angle, cutting angle and chip rake are ground to give best performance in bolt steels. A must if you don't have a tool-post grinder.

- #080-659-250AQ 1/4" Bolt Facing Bit, 3B13I26 \$ 20.99**
- #080-659-375AQ 3/16" Bolt Facing Bit, 3B17H12 24.99**

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 3/16" (9.5mm) cut length. 3/16" (4.7mm) diameter shank with 3/16" cut length or 1/4" (6.35mm) diameter shank with 3/4" cut length. 4-flute.

STOCK #	OVERALL	DIAMETER	PRICE
#317-000-004AQ	1.5" (3.8cm)	1/8" (3.17mm)	7A16B65 \$ 16.65
#887-205-005AQ	2" (5cm)	3/16" (4.7mm)	7H42I99 \$ 42.99
#887-205-010AQ	2.5" (6.3cm)	1/4" (6.35mm)	7H74L99 \$ 74.99

SAKO EXTRACTOR MILLING CUTTERS

Helps You Install A Durable Sako Extractor On Your Remington Bolt

Carbide, center-cutting, four-flute mills precisely cut the groove necessary to install a Sako extractor on your Remington bolt for positive, reliable extraction. High-cobalt content improves feed rates for fast cutting. Order the cutter that matches the width of your Sako extractor.

SPECS: High-cobalt carbide. Order cutter that matches your Sako extractor slot width.

STOCK #	SLOT WIDTH	SIZE	PRICE
#317-000-005AQ	.152"	3/16"	7A24N99 \$ 24.99
#317-000-006AQ	.172"	1/8"	7A24H99 \$ 24.99
#317-000-007AQ	.251"	3/16"	7A32A40 \$ 32.40

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 1/16 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.

- #539-000-005AQ Electronic Trigger Pull Gauge, 5R62F10 \$ 67.99**

RCBS

PREMIUM TRIGGER PULL GAUGE



Records Each Test, Easy Operation, Great Accuracy

Recording indicator

eliminates the need to wonder if you really saw the needle at the exact moment the trigger broke. Cross pin for improved grip. Coated, non-slip trigger pull wire. **US**

SPECS: Aluminum housing, steel pull wire. 10 1/2" (26cm) long. Measures 8 oz. to 8 lb. Accurate to + 2 oz.

#747-873-070AQ Premium Trigger Pull Gauge, 1A41N99..... \$ 41.99

RCBS

TRIGGER PULL GAUGE

Gives A Quick, Convenient Check Of Pull Weights Up To 4 1/2 lbs.

RCBS's gauge has large, easy-to-read, black numbers that give you direct readouts in both ounces and grams quickly and without squinting or straining. An excellent, inexpensive tool to have around the shop that you'll find useful far more often than you might think at first. **US**



SPECS: Plastic housing. Steel hook. 0 to 72 oz. and 0-2000 g.

#747-094-500AQ RCBS Trigger Gauge, 1A26B99..... \$ 26.99

ARMORER'S/SHOP TRIGGER WEIGHT SET

Accurately Checks Single- & Double-Action Trigger Pulls From 2 lbs. to 17 1/4 lbs.



Simple, add-on weight system measures pull on all types of triggers, handguns, rifles and shotguns. Weights stack and thread into 2 lb. base weight and measure from 2 lb. to 17 1/4 lb. in 1/4 lb. increments. **US**

SPECS: Blue 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.

#678-017-000AQ Armorer's Trigger Wts., 8G157L45..... \$ 219.99

NRA OFFICIAL UNIVERSAL TRIGGER WEIGHT SYSTEM

NRA Official Trigger Weights For Referees, Juries, Gun Shops & Shooters

Made to the exacting needs of match referees and international juries, and ideal for gunsmiths to ensure accurate trigger pull testing. Roller ends on both long and short hanging rods automatically keep the weight in the trigger curve. Base with either rod weighs 500 grams. Adding a 1 lb. weight to Base and "Add-On" gives 1360 grams for international rules. **US**

SPECS: 2" diameter. Short Rod, 12" long. Long Rod, 21" long. Blue 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.

#678-650-000AQ Universal Trigger Wts., 8G91D66..... \$ 129.99



! RECORDING !

TRIGGER PULL GAUGE



3 Models:
6 lb.
12 lb.
25 lb.

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. **US**

SPECS: 6 lb. (2.7 kg) and 12 lb. (5.4 kg), 8 1/2" (21.5cm) long, 5" (12.7cm) hook. **25 lb.** (11 kg), 14" (35.5cm) hook.

#174-006-060AQ 6 lb. Recording Pull Gauge, 8B95H65..... \$ 109.99

#174-012-120AQ 12 lb. Recording Pull Gauge, 8B99Q99..... 119.99

#174-025-250AQ 25 lb. Recording Pull Gauge, 8B94L84..... 124.99

BROWNELLS TRIGGER PULL HOOKS - Replacement trigger hooks clear stocks and grips and prevent interference for an accurate trigger pull reading. Used with trigger scales.

#084-169-000AQ 14" Hook, 8K6H08..... \$ 9.11

#084-169-001AQ 5" Hook, 8K4B49..... 5.95

OFFICIAL 4 3/4 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. **US**

SPECS: 2" (5cm) diameter weights. 5" (12.7cm) long hook. 11 1/2" (29.2cm) long overall. Blue steel. Optional Long Trigger Wt. Rod; 24" (61cm) lg. 1/4 lb. (113g) 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.

#678-434-001AQ Long Trigger Weight Rod, 8G20K39..... \$ 28.95

#678-434-000AQ 4 1/4 lb. Trigger Weight Set, 8G70M80..... 101.25



WILCOX ALL-PRO ACTION WRENCH



Leverage & Strength In Traditional Design

Time-proven design provides simple, effective holding power. Works on everything except the round-receiver

POWER CUSTOM

REVOLVER FRAME/BARREL WRENCH



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

Heavy-duty, high-leverage, wrench and Delrin® blocks give form-fitted support of the frame for barrel removal and other

customizing jobs. **Frame Blocks** fit around the entire frame to provide maximum support for changing the barrel or custom machining operations like opening up the rear sight notch, making dovetails, or disassembling internal parts. **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. **US**

SPECS: Handle - Steel. 14" (35.6cm) long, 1" (2.5cm) wide, 1" high. Includes Allen wrenches. **Frame Blocks** - Delrin, black. 3 1/2" (7.9cm) long, 3/4" (1.9cm) wide, 2 1/8" (6.2cm) high. **Ruger SA** fits all Ruger single action frames. **Colt SAA** fits Colt Single Action Army and clones. **Insert Blocks** - Delrin, black. **S&W K/L** fits Smith & Wesson K and L frames. **S&W N** fits N frame. **CSA/RSA** fits all Colt SAA and clones, plus Ruger® Old/New Vaquero®, Blackhawk®, and large-frame old-model three-screw single action revolvers. **Barrel Blocks** - 6061 T6 aluminum. 4 1/4" (11.7cm) long, 1" wide, 1" high.

#713-000-024AQ Frame/Bbl Wrench Handle, 3A81F77..... \$ 89.99

#713-000-025AQ Ruger SA Frame Blocks, 3A95N28... 99.99

#713-000-026AQ Colt SAA Frame Blocks, 3A95E28..... 99.99

#713-000-086AQ S&W K/L Insert Blocks, 3A41I67.... 49.99

#713-000-087AQ S&W N Insert Blocks, 3A41K67.... 49.99

#713-000-088AQ CSA/RSA Insert Blocks, 3A41G67.... 49.99

#713-000-027AQ Uni. SA Barrel Blocks, 3A32A67..... 36.99

SURGEON RIFLES ACTION WRENCH

Prevents Damage When Installing Barrel On Surgeon Or Remington 700 Action



Easy-to-use alternative to old-fashioned T-handle action wrenches is specifically designed to prevent damage to receiver when installing and removing barrels. Lets you torque a Remington 700 or Surgeon Rifles action as close as possible to the barrel threads to eliminate unwanted twisting or bowing of the action that can result in distorted bolt raceways and other expensive damage. Inserts in the ejection port; the two "ears" fit in the raceways at the front ring. Insert a 1/2" drive ratchet handle or torque wrench and tighten/loosen the action to the barrel. Works on any length action. **US**

SPECS: Steel, black oxide finish. Fits Remington 700 and Surgeon Rifles receivers.

#100-003-675AQ Surgeon Action Wrench, 9B68G00..... \$ 79.99

Remingtons. **US**
SPECS: 12 1/2" (31.7cm) long. 4 1/4" (12.0cm) high. 1 1/4" (3.2cm) thick. Steel. Knurled handle. Includes brass shims.

#959-500-000AQ Wilcox Action Wrench, 9E73C54... \$ 79.99

#959-500-001AQ Wilcox Brass Shims, 9E3H30..... 3.30

GIVE YOUR GUN THE CAMO PATTERN YOU NEED WITH BROWNELLS® SPRAY ON FINISHES

ALUMA-HYDE II® GUN-KOTE™ BAKING LACQUER TEFLON®/MOLY OVEN CURE FINISH

- Fast & easy to apply
- Many colors to choose from
- Tougher & more durable than paint
- Economical alternative to bluing or Parkerizing

WATCH OUR SPRAY-ON PAINT SERIES AT brownells.com



BROWNELLS ACTION WRENCH SYSTEM



Eliminates Torque Damage When Installing/Removing Rifle Or Handgun Barrels

The only commercially available action wrench system that surrounds and supports the receiver ring and recoil lug to distribute potentially damaging torque forces equally. The solid steel base has a unique, machined relief to clear the recoil lug on most Mauser-type bolt action rifles and, the individual, bolt-on Heads are machined to provide an exact fit around and against the receiver ring or barrel nut for each of the firearm models listed. Together, they support the receiver in a ring of steel and greatly increase the amount of surface gripping area to totally eliminate twisted bolt "ways" or damaged, ruined receivers. This is the most advanced, complete, professional-quality, Action Wrench System. With it, you can prevent expensive receiver damage on MOST popular rifle actions, including military models, plus, models for selected handguns. Saves the gunsmith money, you can purchase the **Handle/Base Unit** complete with one of the **Interchangeable Heads**, then add different **Heads**, only as your needs grow - all for a far, far lower investment than ten, individual, specialty wrenches.

SPECS: Blued steel. **Base/Handle Unit** - 12 1/4" (31.1cm) long, 1" (24.5mm) diameter. **Interchangeable Head** - 4 1/2" (11.4cm) wide, 1 1/2" (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.

#080-800-111AQ Complete Ruger Mark I/II Wrench, 8K107F53 \$ 139.99

#080-801-111AQ Ruger Mark I/II Head, only, 8K55D82 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.

#080-850-002AQ Complete K Frame Wrench, 8K101L50 \$ 139.99

#080-851-002AQ K Frame Head, only, 8K70P43 106.99

#080-850-003AQ Complete L Frame Wrench, 8K104G51 142.99

#080-851-003AQ L Frame Heads, only, 8K89I95 135.75

#080-850-004AQ Complete N Frame Wrench, 8K104I51 142.99

#080-851-004AQ N Frame Head, only, 8K81N54 122.99

SINGLE ACTION REVOLVER - Aluminum heads completely enclose those fragile, single action frames to help eliminate expensive frame damage.

SPECS: **Base/Handle Unit** - Steel, blue, 12 1/4" (31cm) long, 1" (2.5cm) diameter handle. **Interchangeable Heads** - Aluminum, 3/4" (19mm) square, 5/8" (14cm) long. **Complete Wrench** - Includes Base/Handle and heads for one gun model, bolts and instructions. Ruger fits Blackhawk, Super Blackhawk and Vaquero size frames.

STK# COMPLETE WRENCH	STK# HEADS ONLY	FITS
#080-800-173AQ	#080-801-073AQ	Colt SAA
#080-800-174AQ	#080-801-074AQ	Ruger

— Advise # — **Complete Wrench, 8K101A26** \$ 139.99

— Advise # — **Heads, only, 8K74B75** 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.

#080-800-002AQ Comp A-Bolt Wrench, 8K107Q53 \$ 139.99

#080-801-002AQ A-Bolt Heads, only, 8K55C82 69.99

1917 ENFIELD/P-14 - Machined cut in head clears projection on receiver ring. Also fits many commercial variations, such as the Remington Model 30.

#080-800-017AQ Comp. 1917 Wrench, 8K88I00 \$ 114.99

#080-801-017AQ 1917 Head, only, 8K30K21 39.99

LARGE RING MAUSER - Maximum support for the receiver ring. Fits virtually all military and commercial Large Ring Mausers (like Mk X).

#080-800-098AQ Comp LR Mauser Wrench, 8K83A42 \$ 109.99

#080-801-098AQ LRM Head, only, 8K28E24 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.

#080-800-095AQ Complete SR Mauser Wrench, 8K83B42 \$ 109.99

#080-801-095AQ SRM Head, only, 8K30L21 39.99

MINI-MAUSER - One-piece head provides complete support for lug and receiver. Prevents twisting or crushing receiver.

#080-800-005AQ Complete Mini-Mauser Wrench, 8K88F00 \$ 114.99

#080-801-005AQ Mini-Mauser Head, only, 8K30B21 39.99

FN-FAL - Two-piece head fits inch and metric pattern receivers. Provides clearance for full length cocking handle rails.

#080-800-101AQ Complete FAL Wrench, 8K120F77 \$ 159.99

#080-801-101AQ FAL Head, only, 8K67L43 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.

#080-800-100AQ Complete M1 Carbine Wrench, 8K88F00 \$ 119.99

#080-801-100AQ M1 Carb. Head, only, 8K36L23 44.99

M14, M1A, M1 GARAND - Supports top, side and bottom of the forward ring of the receiver. Fits most variations of these rifles including the BM-59.

#080-800-114AQ Comp. M1A Wrench, 8K89H99 \$ 109.99

#080-801-114AQ M1A Head, only, 8K32J51 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.

#080-800-001AQ Comp Uni. Wrench, 8K83F42 \$ 109.99

#080-801-001AQ Universal Head, only, 8K30M21 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.

#080-800-788AQ Complete Remington 788 Wrench, 8K107I53 \$ 139.99

#080-801-788AQ Remington 788 Heads, only, 8K55L82 69.99

REMINGTON 700 - Two-piece head completely encircles cylindrical style action for 100% surface contact. Upper Head indexes on the forward guard screw and positions recoil lug properly during barrel installation. Includes both heads and longer bolts. Fits all Remington actions with receiver diameter

of 1.355". Double-angle design accepts factory lug or Tubb and Shilen tapered design.

#080-800-700AQ Complete Remington 700 Wrench, 8K119C99 \$ 139.99

#080-801-700AQ Remington 700 Heads, only, 8K62B15 74.99

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.

#080-800-110AQ Complete Round Savage 110 Wrench, 8K83P42 \$ 109.99

#080-801-110AQ Round Savage 110 Heads, only, 8K30E21 39.99

#080-800-109AQ Complete Square Savage 110 Wrench, 8K107E53 139.99

#080-801-109AQ Square Savage 110 Heads, only, 8K55Q82 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.

#080-800-004AQ Complete SMLE Wrench, 8K99F30 \$ 129.99

#080-801-495AQ SMLE Adapter Plate and SRM Head, 8K44D61 55.99

#080-801-004AQ SMLE Adapter Plate, only, 8K14C84 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.

#080-800-070AQ Complete Win. 70 Wrench, 8K83G42 \$ 109.99

#080-801-070AQ Winchester 70 Head, only, 8K30M21 39.99

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

#080-800-003AQ Complete Springfield '03 Wrench, 8K88F00 \$ 114.99

#080-801-003AQ Springfield '03 Head, only, 8K30B21 39.99

ACTION WRENCH REPLACEMENT PARTS - Separate parts to fit the Brownells Action Wrench System. **Base/Handle Unit** can be used as a replacement or as a part of your own custom, action wrench or system. **Allen Head Bolt Kit** - 1/2"-20 tpi; 2" length fits one-piece heads, 3" length fits two-piece heads. Wrench is correct, 3/8" size for these bolts. Kit includes two 2" bolts, two 3" bolts and one 3/8" Allen wrench. **Blank Blocks** - Steel Base/Handle Unit and one blank interchangeable head allows the gunsmith to make a wrench to fit virtually any rifle or handgun not listed. Blank, interchangeable-head block, drilled for bolts, available separately for creating two-piece head systems.

#080-800-900AQ Base/Handle Unit, only, 8K66I91 \$ 84.99

#080-800-903AQ Action Wrench Allen Bolt Kit, 8K57F76 7.99

#080-800-990AQ Complete Blank Block Wrench, 8K86P61 105.99

#080-801-990AQ Blank Block, only, 8K22J55 27.99

FARRELL INDUSTRIES BARREL VISE

Gentle Jaws Hold Virtually Any Barrel

Strong, precision-machined, aluminum barrel vise accepts and clamps your barrel tightly without special jaws. Heat treated nuts easily screw down onto stressproof bolts, compressing the v-shaped, aluminum vise jaws against your barrel. Compact design uses a small amount of bench space.



SPECS: **Blocks** - Aluminum, anodized, natural finish. **Top Block** - 2" (5.1cm) wide, 6" (15.2cm) long, 1" (2.54cm) thick. **Bottom Block** - 2" (5.1cm) wide, 8" (20.3cm) long, 1" (2.54cm) thick. **Jaws** - 1 1/2" (3.8cm) wide, 4 1/2" (10.8cm) long, 1 1/2" (3.8cm) thick.

#100-000-910AQ Farrell Barrel Vise, 8K128I86 \$ 149.99

#100-000-911AQ Vise Jaws, 8K49A29 56.99

WILCOX

ALL-PRO BARREL VISE

Hydraulic For Incredible Holding Power

Uses a small hydraulic jack (optional) to lock barrel in vise. Heavy steel construction. Extremely easy to use - just fingertip pressure on jack handle. Base drilled for bench mounting. Includes solid oak block to custom drill and fit to barrel.



SPECS: 18" (45.7cm) high, 13" (33cm) wide, 7 1/2" lb. (3.4 kg), 10 1/4" (26cm) jack opening, 2" (5.1cm) x 2" (5.1cm) block.

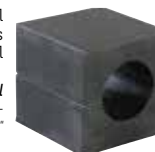
#959-400-000AQ Wilcox Barrel Vise, 9E87F99 \$ 87.99

#959-400-001AQ Wilcox Brl Vise Oak Blck, 9E6A06 6.06

#368-359-004AQ 4 Ton Hydraulic Jack, 8F49J99 49.99

UNIVERSAL CLAMPING BLOCK - Small fits Wilcox All-Pro Barrel Vise, Large fits many others. Accepts Brownells Barrel Vise Bushings or cast your own.

SPECS: Steel, blue. Includes instructions. **Small (Sm)** - 3" wide, 3" deep, 3 1/4" high. **Hole dia.** - 1-3/4" (4.4cm). **Large (Lg)** - 4 1/2" (11.43cm) wide, 3" (7.6cm) deep, 3 1/4" (8.2cm) high.



#080-864-100AQ Sm Bbl Vise Clmp Blck, 8K51H28 \$ 64.99

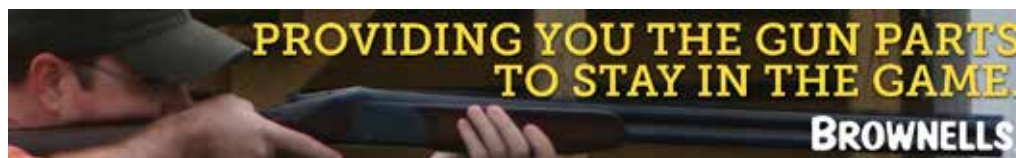
#080-864-000AQ Lg Bbl Vise Clamp Block, 8K45L49 59.99

BUSHING MOLDING BLOCK - Use STEEL BED® and cast perfectly fitted bushings for hard-to-match contours or sizes. Finished bushings fit Brownells Barrel Vise plus the Universal Clamping Block listed above.

SPECS: Aluminum, machined. **3 1/2"** (8.8cm) wide, 3" (7.6cm) deep, 2 1/4" (5.7mm) high, 1 1/4" (4.4cm) diameter bore. Accept barrels up to 1 1/4" in diameter. Includes instructions.



#080-861-100AQ Bushing Molding Block, 8K61P62 \$ 79.99



BROWNELLS BARREL VISE



Large Surface Area Gives Tremendous Power; Clamps & Holds The Tightest Barrels

To complement our "Ring-Of-Steel" Action Wrench System, we've developed the only professional-quality **Barrel Vise** that will positively clamp and keep even the tightest barrel from turning during removal. 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** - 4 1/2" (11.4cm) x 3" (7.6cm) x 1 1/2" (3.8cm). **Bottom Block** - 7" (17.7cm) x 3" (7.6cm) x 1 1/2" (2.8cm). Includes 4, 1/2"-20 x 2" Allen head bolts. **Bottom block is drilled and countersunk for 1/2" diameter mounting bolts.** **Bushings** - C.R.S. Steel, blue finish or 6160 aluminum, natural finish. All bushings 3" long, 1 1/4" diameter. **#4, 7, 8, 9, 10 and 11** are in a range of I.D.'s to 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 & 13** are a special machined set of bushings for standard and heavy M14/M1A/M1 Garand barrels. **#15** is for the FN FAL barrel. **#16** is an aluminum bushing for 3/4" octagonal barrels. **Steel and Aluminum Barrel Vise Sets** come complete with the four 1/2"-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).

#080-860-107AQ Steel Barrel Vise Set, 8K230N75 \$ 315.95

#080-860-307AQ Aluminum Barrel Vise Set, 8K250E00 315.95

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, 7/8" Allen wrench for these bolts.

#080-800-902AQ Allen Bolt Kit, 8K4B78 \$ 5.99

WISE ONLY - 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.

#080-860-900AQ Barrel Vise, only, does not include bushing, 8K89E93 \$ 119.99

STK# VISE WITH 1 STEEL BUSHING	STK# STEEL BUSHING ONLY	BUSHING NO.	I.D.
#080-860-004AQ 8K104E64 \$ 144.99	#080-861-004AQ 8K28P47 \$ 39.99	#4	1.170"
#080-860-005AQ 8K100H54 \$ 139.99	#080-861-005AQ 8K22D96 \$ 29.99	#5	Mil. Mauser 98
#080-860-006AQ 8K104C64 \$ 144.99	#080-861-006AQ 8K27L97 \$ 34.99	#6	Rem. .30-06
#080-860-007AQ 8K100B54 \$ 139.99	#080-861-007AQ 8K22E96 \$ 29.99	#7	1.150"
#080-860-008AQ 8K100A54 \$ 139.99	#080-861-008AQ 8K22D96 \$ 29.99	#8	1.175"
#080-860-009AQ 8K100I54 \$ 139.99	#080-861-009AQ 8K22M96 \$ 29.99	#9	1.200"
#080-860-010AQ 8K104L64 \$ 144.99	#080-861-010AQ 8K27L97 \$ 34.99	#10	1.225"
#080-860-011AQ 8K100A54 \$ 139.99	#080-861-011AQ 8K27J97 \$ 34.99	#11	1.250"
#080-860-012AQ 8K113N23 \$ 154.99	#080-861-012AQ 8K38I47 \$ 49.99	#12 & 13	M14/Garand
#080-860-013AQ 8K104A64 \$ 144.99	#080-861-013AQ 8K27K97 \$ 34.99	#14	M1 Carbine
#080-860-014AQ 8K100B54 \$ 139.99	#080-861-014AQ 8K22I96 \$ 29.99	#15	FN FAL

STK# VISE WITH 1 ALUMINUM BUSHING	STK# ALUMINUM BUSHING ONLY	BUSHING NO.	I.D.
#080-860-204AQ 8K115M37 \$ 144.99	#080-861-204AQ 8K27A15 \$ 34.99	#4	1.170"
#080-860-205AQ 8K110I37 \$ 139.99	#080-861-205AQ 8K22F71 \$ 29.99	#5	Mil. Mauser 98
#080-860-206AQ 8K110N37 \$ 139.99	#080-861-206AQ 8K22K71 \$ 29.99	#6	Rem. .30-06
#080-860-207AQ 8K110J37 \$ 139.99	#080-861-207AQ 8K22G71 \$ 29.99	#7	1.150"
#080-860-208AQ 8K110I37 \$ 139.99	#080-861-208AQ 8K22A71 \$ 29.99	#8	1.175"
#080-860-209AQ 8K110P37 \$ 139.99	#080-861-209AQ 8K22F71 \$ 29.99	#9	1.200"
#080-860-210AQ 8K110B37 \$ 139.99	#080-861-210AQ 8K22I71 \$ 29.99	#10	1.225"
#080-860-211AQ 8K110C37 \$ 139.99	#080-861-211AQ 8K22B71 \$ 29.99	#11	1.250"
#080-860-212AQ 8K132F55 \$ 164.99	#080-861-212AQ 8K47D35 \$ 59.99	#12 & 13	M14/Garand
#080-860-213AQ 8K115C37 \$ 144.99	#080-861-213AQ 8K29C04 \$ 39.99	#14	M1 Carbine
#080-860-015AQ 8K110C37 \$ 139.99	#080-861-015AQ 8K22B71 \$ 29.99	#15	FN FAL
#080-860-016AQ 8K134J87 \$ 169.99	#080-861-016AQ 8K49P93 \$ 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# STEEL SOLID BUSHING	STK# ALUM. SOLID BUSHING	BUSHING NO.	DIAMETER
NA	#080-861-201AQ 8K15D48 \$ 19.99	No. 1	1/2" (12.7mm)
#080-861-002AQ 8K12D93 \$ 19.99	#080-861-202AQ 8K15C48 \$ 19.99	No. 2	3/4" (19mm)
NA	#080-861-203AQ 8K15G48 \$ 19.99	No. 3	1" (25.4mm)

BROWNELLS BARREL VISE BUSHING MOLDING KIT



Molds Form-Fit Bushings That Won't Mar The Metal

Convenient, easy-to-use kit allows the gunsmith to cast perfectly fitted, barrel vise bushings for hard-to-match barrel contours and sizes. Machined, aluminum block accepts barrels up to 1 1/4" in diameter. Brownells Steel Bed™ forms super-strength, precision-fit bushings that hold extra tight without scratching or marring the metal surface. Finished bushings fit Brownells Barrel Vise and Universal Clamping Block. Instructions included.

SPECS: Block - Aluminum. 3" (7.6cm) long, 3 1/2" (8.8cm) wide, 2 1/4" (5.7cm) high, 1 1/4" (4.4cm) bore. Accepts barrels up to 1 1/4" diameter. **Steel Bed** - 1 1/2 fl. oz. (44ml) resin, 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.

#080-000-294AQ Barrel Bushing Molding Kit, 8K81B27 \$ 99.99

#080-861-100AQ Bushing Molding Block, 8K61P62... 79.99

#081-040-003AQ 2-Gun Steel Bed Kit, 5L34B80 50.99

BROWNELLS ROSIN

Prevents Slipping, Marring When Using Barrel Vises/Wrenches

Pure, ground rosin offers the gun man a product that performs superbly as a Grabbing Agent. A small amount of rosin in vise jaws, holding fixtures, or barrel vise bushings will prevent slipping and reduce the possibilities of marring.

SPECS: 1 lb. (454 g) net weight, plastic, screw-top jar.



#083-016-100AQ Rosin, 1 pound can, 5L19L71 \$ 24.99

CLYMER "MATCH" CHAMBER REAMER



Ream Tighter Chambers For .22 LR & .308 Match Ammo

"MATCH" .22 LR FINISH REAMER - Made to SAAMI match specs for Bolt Action guns using only true, **MATCH** ammo.

SPECS: M-7 tool steel. Finish reamer only. 1/4" dia. round shank.

#184-050-015AQ "Match" .22 Reamer, 4H75L00... \$ 75.00

.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. 1/4" dia. round shank.

#184-050-016AQ "Bentz" .22 Reamer, 4H75E00... \$ 75.00

.308 MATCH REAMER - For military M-852 match ammo (168 gr. bullets, M14 length); or any load using Sierra 168 gr. boattail.

SPECS: High speed steel, finish reamer only.

#184-050-402AQ .308 Match Reamer, 4H105B00... \$ 105.00

BROWNELLS STEEL BED™ STAINLESS STEEL-FILLED EPOXY, RIFLE-BEDDING COMPOUND

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



STEEL BED is simply the most-advanced, toughest- ever bedding and stabilizing, steel-bearing, epoxy compound for wood and fiber-glass gun stocks. Designed specifically for GUNS, to give the incredible impact resistance that's possible only by surrounding the action with a layer of solid, never-rust stainless steel and the skin-tight, epoxy-matrix fit so vital for superb accuracy. Through a unique blending process, there's actually more stainless steel (by weight) than epoxy in **STEEL BED** - 2 1/2 times more steel than in competitive products.

STEEL BED shrinks less than 1/100 of 1% and won't compress, crumble or "sugar" under the most punishing magnum or semiauto recoil. Because of the extremely high stainless steel content, it's tough to dye **STEEL BED** to match wood tones but, our latest dyes are so powerful that you can get a useable brown color for wood stocks and a very good black for synthetics.

Besides being incredibly strong and tough, it's very easy to use. The mixing ratio is a simple, 1-part Resin to 1-part Hardener, by volume, and the creamy, no-run texture means **STEEL BED** will stay where it's put.

SPECS: Kit Contains: (1) 1 1/2 fl. oz. (44 ml) net contents jar Resin; (1) 1/2 fl. oz. (44 ml) net contents jar Hardener; (1) 1/2 oz. (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.

#081-040-003AQ 2-Gun Steel Bed Kit, 5L34B80 \$ 50.99

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.

SPECS: Reamer - M7 high speed steel, in-the-white. Right-hand cutting, six flutes. Solid pilot, integral throat. 7/16" round shank with 7/8" square drive. Headspace Gauge - Steel, in-the-white.

#184-000-043AQ .223 Chamber Reaming Kit, 4H163A00 \$ 163.00

#184-000-044AQ .308 Chamber Reaming Kit, 4H163P00 163.00

SHOP ONLINE TOO AT BROWNELLS.COM

Search by category, keyword, stock #, firearm make or model. Narrow your results by highest rated, most popular, USA made & more! Read reviews, see additional product photos, watch videos all online.





CLYMER CHAMBERING REAMERS

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



Made from best quality, M-7 High-Speed Steel. These are precision tools for the professional gunsmith. Fully guaranteed. Roughers are .010" smaller in diameter than the final size, do not cut the throat area and should be used to save wear on the Finish Reamer when many chambers are to be cut. If only a few chambers will be cut, a Finish Reamer is all you need.

SPECS: RIFLE REAMERS - 6, right-hand cutting, straight flutes. Solid pilot, integral throat. 1/16" round shank with 1/8" square drive. 1/4" round shank on .22 RF. **PISTOL REAMERS** - 6, right-hand cutting, straight flutes. Solid pilot. Integral throat. Available in two different pilot diameters: Barrel for Single Shot or Semi-Auto pistol and rifle barrels; Cylinder for Revolver cylinders. 1/16" dia. shank with 1/8" square drive, depending on caliber. 1/4" round shank on .22 RF. Stocked in Finisher style only. **SHOTGUN REAMERS** - 6 or 8, 8" left-hand, spiral flutes, or straight flutes (indicated by * in table). 1" long removable bushing. 1/2" square shank, uses standard socket set extension (except .410 which uses Clymer rifle extensions). Stocked in Finishers only. **THROATERS** - 5, left-hand, spiral flutes. .002" larger than bullet diameter. 2-1/2" throat angle. Used to lengthen throat to increase freebore. 1/2" diameter round shank.

ORDERING: Advise: 1) Stock #. 2) Cartridge Caliber and Name. 3) Rougher or Finisher. If NA is in the Stock # column, it means that we do not stock the item, but it usually is in stock with Clymer. We will be happy to provide you a price on request (POR) and order it for you, but will require full payment in advance and the order will be non-cancelable and non-refundable. Anticipate 4-8 weeks delivery time. 4) Bushing Blank can be used only on 12, 16 and 20 ga. reamers.

- #184-054-512AQ 12" Rifle Ext., 4H35B00 \$ 35.00
- #184-054-650AQ Rifle T-Handle, 4H35J00 35.00
- #184-054-653AQ Throater/.22 T-Handle, 4H35E00. 35.00

STK# FINISHER	STK# ROUGHER	FITS	PRICE
RIMMED RIFLE CARTRIDGES			
#184-050-007AQ	NA	.17 HM2	4H145P00 \$ 145.00
#184-050-030AQ	NA	.22 Hornet	4H115G00 \$ 115.00
#184-050-040AQ	NA	.22K Hornet	4H115P00 \$ 115.00
#184-050-050AQ	NA	.218 Bee	4H115T00 \$ 115.00
#184-050-180AQ	NA	.25/20 W.C.F.	4H115T00 \$ 115.00
#184-051-754AQ	NA	7.62 x 54R	4H115M00 \$ 115.00
#184-050-330AQ	NA	.30-.30 W.C.F.	4H115J00 \$ 115.00
#184-050-420AQ	NA	.30-40 Krag	4H115K00 \$ 115.00
#184-051-303AQ	NA	.303 British	4H115J00 \$ 115.00
#184-050-332AQ	NA	.32/40 Win.	4H115A00 \$ 115.00
#184-050-490AQ	NA	.45-70 Govt.	4H115K00 \$ 115.00
BELTED CARTRIDGES			
#184-050-260AQ	NA	.264 Win. Mag	4H115M00 \$ 115.00
#184-050-285AQ	NA	7mm STW	4H115K00 \$ 115.00
#184-050-290AQ	NA	7mm Rem. Mag	4H115A00 \$ 115.00
#184-050-380AQ	#184-050-381AQ	.300 Win. Mag	4H115M00 \$ 115.00
#184-050-370AQ	NA	.300 H&H Mag	4H115G00 \$ 115.00
#184-050-460AQ	NA	.338 Win. Mag	4H115A00 \$ 115.00
#184-050-470AQ	NA	.375 H&H Mag	4H115J00 \$ 115.00
RIMLESS PISTOL CARTRIDGES			
#184-051-301AQ	NA	.30 Luger Barrel	4H85N00 \$ 85.00
#184-051-901AQ	NA	9mm Luger Barrel	4H75E00 \$ 75.00
#184-051-400AQ	NA	.40 S&W Barrel	4H75H00 \$ 75.00
#184-051-410AQ	NA	10mm Auto Barrel	4H75N00 \$ 75.00
#184-051-450AQ	NA	.45 ACP Cylinder	4H85C00 \$ 85.00
#184-051-451AQ	NA	.45 ACP Barrel	4H75H00 \$ 75.00
RIMMED PISTOL CARTRIDGES			
#184-051-320AQ	NA	.32 H&R Mag Cyl.	4H85E00 \$ 85.00
#184-051-321AQ	NA	.32 H&R Mag Barrel	4H85C00 \$ 85.00
#184-051-322AQ	NA	.32/20 Barrel	4H120J00 \$ 120.00

STK# FINISHER	STK# ROUGHER	FITS	PRICE
#184-051-350AQ	NA	.357 Mag Cylinder	4H85I00 \$ 85.00
#184-051-351AQ	NA	.357 Mag Barrel	4H85B00 \$ 85.00
#184-051-361AQ	NA	.357 Max. Barrel	4H85P00 \$ 85.00
#184-051-380AQ	NA	.38 S&W Spec. Cyl.	4H85J00 \$ 85.00
#184-051-383AQ	NA	.38 Super Nonte*	4H85G00 \$ 85.00
#184-051-444AQ	NA	.44 Special Cylinder	4H85C00 \$ 85.00
#184-051-440AQ	NA	.44 Magnum Cyl.	4H85L00 \$ 85.00
#184-051-441AQ	NA	.44 Magnum Barrel	4H85J00 \$ 85.00
#184-051-443AQ	NA	.44/40 Barrel	4H115D00 \$ 115.00
#184-051-455AQ	NA	.45 Long Colt Cyl.	4H85N00 \$ 85.00
#184-051-456AQ	NA	.45 Long Colt Barrel	4H85D00 \$ 85.00
RIMLESS RIFLE CARTRIDGES			
#184-050-005AQ	NA	.17 Remington	4H145D00 \$ 145.00
#184-050-080AQ	NA	.220 Swift (bolt action only)	4H105F00 \$ 105.00
#184-050-100AQ	#184-050-101AQ	.222 Remington	4H105E00 \$ 105.00
#184-050-004AQ	NA	5.56 NATO	4H105P00 \$ 105.00
#184-050-120AQ	NA	.223 Remington	4H105G00 \$ 105.00
#184-050-130AQ	#184-050-131AQ	.22/250	4H105K00 \$ 105.00
#184-050-155AQ	NA	6mm Rem. BR	4H105K00 \$ 105.00
#184-050-150AQ	NA	.243 Winchester	4H105I00 \$ 105.00
#184-050-190AQ	NA	.250 Sav (250-3000)	4H105B00 \$ 105.00
#184-050-200AQ	NA	.257 Roberts	4H105I00 \$ 105.00
#184-050-220AQ	NA	.25-06 Remington	4H105J00 \$ 105.00
NA	#184-050-101AQ	.223 Remington	4H105E00 \$ 105.00
NA	#184-050-101AQ	.222 Rem. Magnum	4H105E00 \$ 105.00
NA	#184-050-151AQ	.243 Winchester	4H105P00 \$ 105.00
#184-050-230AQ	NA	6.5mm x 55	4H105D00 \$ 105.00
#184-050-240AQ	NA	6.5-06 A-Square	4H105M00 \$ 105.00
#184-050-215AQ	NA	.260 Rem.	4H105I00 \$ 105.00
#184-050-270AQ	NA	.270 Winchester	4H105L00 \$ 105.00
#184-050-280AQ	NA	7mm Mauser	4H105L00 \$ 105.00
#184-050-350AQ	NA	7mm-.08 Rem.	4H105D00 \$ 105.00
#184-050-300AQ	NA	.280 Remington	4H105E00 \$ 105.00
#184-050-310AQ	NA	.284 Winchester	4H105B00 \$ 105.00
#184-050-275AQ	NA	7.62x39 Russian	4H105E00 \$ 105.00
#184-050-320AQ	NA	.30 M1 Carbine	4H105A00 \$ 105.00
#184-050-400AQ	NA	.308 Winchester	4H105H00 \$ 105.00
#184-050-390AQ	NA	.30-06 Spring-field	4H105E00 \$ 105.00
#184-050-314AQ	NA	.300 Rem. Ultra Mag	4H115M00 \$ 115.00
#184-050-312AQ	NA	.300 Win. Shrt Mag	4H115K00 \$ 115.00
#184-050-440AQ	NA	8mm Mauser	4H105G00 \$ 105.00
#184-050-510AQ	NA	.35 Whelen	4H105Q00 \$ 105.00
NA	#184-050-401AQ	.308 Winchester	4H105L00 \$ 105.00
NA	#184-050-391AQ	.30-06 Spring-field	4H105K00 \$ 105.00
.22 RIFLE RIFLE/AUTO PISTOL*			
#184-050-001AQ	NA	.17 HMR	4H145D00 \$ 145.00
#184-050-008AQ	NA	.22 Short Rifle	4H75J00 \$ 75.00
#184-050-010AQ	NA	.22 Long Rifle	4H75B00 \$ 75.00
#184-050-020AQ	NA	.22 Win. RFM	4H75H00 \$ 75.00
NA	#184-050-011AQ	.22 Long Rifle	4H75N00 \$ 75.00

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 finisher 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.

- #184-300-308AQ .308 P/T Reamer, complete set, 4H190K00 \$ 190.00
- #184-300-306AQ .30-06 P/T Reamer, complete set, 4H190J00 190.00
- #184-300-309AQ .308 P/T Reamer, only, 4H160J00 160.00
- #184-300-307AQ .30-06 P/T Reamer, only, 4H160M00 160.00
- #184-300-310AQ Thrust Bushing, only, 4H15B00 ... 15.00
- #184-300-311AQ Extension Shaft, only, 4H30M00 . 30.00

STK# FINISHER	STK# ROUGHER	FITS	PRICE
.22 RIFLE REVOLVER*			
#184-051-220AQ	NA	.22 Long Rifle	4H75K00 \$ 75.00
#184-051-222AQ	NA	.22 WRFM Revolver	4H75B00 \$ 75.00
THROATERS			
#184-053-220AQ	NA	.22 CF(.218 dia. pilot)	4H55A00 \$ 55.00
#184-053-600AQ	NA	6mm (.236 dia. pilot)	4H55G00 \$ 55.00
#184-053-650AQ	NA	6.5mm (.255 dia. pilot)	4H55A00 \$ 55.00
#184-053-700AQ	NA	7mm (.2755 dia. pilot)	4H55C00 \$ 55.00
#184-053-300AQ	NA	.30 (.299 dia. pilot)	4H55C00 \$ 55.00
#184-053-380AQ	NA	9mm/.38 (.345 dia. pilot)	4H55C00 \$ 55.00

STK# REAMER W/ BUSHING ONLY	STK# BUSHING ONLY	BUSHING SIZE	GAUGE	LENGTH
#184-052-725AQ	#184-252-725AQ	.725 (18.4mm)	12	2 1/4"
#184-052-729AQ	#184-252-729AQ	.729 (18.5mm)	12	2 1/4"
#184-052-725AQ	#184-252-725AQ	.725 (18.4mm)	12	3"
NA	#184-252-729AQ	.729 (18.5mm)	12	3"
#184-052-614AQ	#184-252-614AQ	.614 (15.6mm)	20	2 1/4"
NA	#184-252-610AQ	.610 (15.5mm)	20	2 1/4"
NA	#184-252-612AQ	.612 (15.5mm)	20	2 1/4"
NA	#184-252-610AQ	.610 (15.5mm)	20	3"
NA	#184-252-612AQ	.612 (15.5mm)	20	3"
NA	#184-252-614AQ	.614 (15.6mm)	20	3"

- Advise # - Reamer w/1 Bushing, 12, 16, 20 Ga., 4H162B00 \$ 162.00
- Advise # - Chamber Reamer Pilot, 4H12L00 ... 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. 3/16" (9.5cm) square drive shank. Includes one (1) pilot for caliber listed. .223 & .22-250 - .2185" pilot O.D. .308 & .30-06 - .2995" pilot O.D. .38-55 - .3655" or .3725" pilot O.D.

- #513-000-088AQ .223 Pilot Reamer, 3A130J00 \$ 130.00
- #513-000-089AQ .22-250 Pilot Reamer, 3A130J00 130.00
- #513-000-086AQ .308 Pilot Reamer, 3A130C00 130.00
- #513-000-087AQ .30-06 Pilot Reamer, 3A130N00 130.00
- #513-000-099AQ .38-55 Pilot Reamer, 3A139K99 139.99
- NEW #513-000-100AQ .38-55 Pilot Reamer, .3725" O.D., 3A139E99 139.99



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 1 1/2" dia. through hole.

- #100-015-759AQ Chambering & Truing Fixture, 6A265C00 \$ 265.00

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.

Orders/Tech: 800-741-0015

order on the web **brownells.com**

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GENERAL GUNSMITH TOOLS

CHAMBER REAMERS

**MANSON PRECISION REAMERS
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 1/4" (6.3mm) diameter round shank. Centerfire reamers have 1/4" (9.5mm) square drive shank. .50 BMG has a 1/2" round shank. Pistol reamers available with barrel pilot diameter for semi-auto and single shot pistols. .38 Nonte headspaces on case mouth.

STOCK #	CALIBER	PRICE
RIMFIRE CARTRIDGES		
#513-050-014AQ	.17 HM2 Finish, Standard	3A75H00 \$ 75.00
#513-050-017AQ	.17 HM2 Finish for Redman Barrel Liners	3A75I00 \$ 75.00
#513-050-001AQ	.17 HMR Finish	3A75P00 \$ 75.00
#513-050-012AQ	.17 HMR Finish, Redman w/.166" pilot for Redman Barrel Liners	3A75J00 \$ 75.00
#513-050-010AQ	.22 Long Rifle Finish (Bbl)	3A45G00 \$ 45.00
#513-051-220AQ	.22 Long Rifle Finish (Cyl)	3A45B00 \$ 45.00
#513-050-011AQ	.22 Long Rifle Rougher	3A45P00 \$ 45.00
#513-050-015AQ	.22 Long Rifle Match	3A45G00 \$ 45.00
#513-050-016AQ	.22 Long Rifle Bentz	3A45F00 \$ 45.00
#513-050-020AQ	.22 Win. RFM Finish	3A45A00 \$ 45.00
#513-050-021AQ	.22 Win. RFM Rougher	3A45P00 \$ 45.00

STOCK #	CALIBER	PRICE
RIMLESS RIFLE CARTRIDGES		
#513-000-083AQ	.17 Remington Fireball	3A12SA95 \$ 125.95
#513-050-005AQ	.17 Remington	3A12SM00 \$ 125.00
#513-000-067AQ	.204 Ruger	3A100A00 \$ 100.00
#513-000-096AQ	5.45 x 39mm	3A125H99 \$ 125.99
#513-050-080AQ	.220 Swift	3A100J00 \$ 100.00
#513-050-090AQ	.221 Fireball	3A100D00 \$ 100.00
#513-050-100AQ	.222 Remington	3A100L00 \$ 100.00
#513-050-120AQ	.223 Remington	3A100P00 \$ 100.00
#513-050-223AQ	.223 Rem. Ackley Imp.	3A100M00 \$ 100.00
#513-050-007AQ	.223 WSSM Finisher	3A100C00 \$ 100.00
#513-050-130AQ	.22/250	3A100N00 \$ 100.00
#513-050-035AQ	.22/250 Ackley Imp.	3A100C00 \$ 100.00
#513-050-150AQ	.243 Winchester	3A100L00 \$ 100.00
#513-050-170AQ	6mm/.244 Remington	3A100L00 \$ 100.00
#513-050-147AQ	6mm/.244 Rem. Ackley Imp.	3A100E00 \$ 100.00
#513-050-220AQ	.25-06 Remington	3A100A00 \$ 100.00
#513-050-225AQ	.25-06 Rem. Ackley Imp.	3A100D00 \$ 100.00
#513-050-200AQ	.257 Roberts	3A100H00 \$ 100.00
#513-050-210AQ	.257 Roberts Ackley Imp.	3A100A00 \$ 100.00
#513-050-230AQ	6.5 x 55mm	3A100P00 \$ 100.00
#513-050-240AQ	6.5-06	3A100L00 \$ 100.00
#513-050-023AQ	6.8 SPC	3A125I00 \$ 125.00
#513-050-215AQ	.260 Remington	3A100M00 \$ 100.00
#513-050-270AQ	.270 Winchester	3A100N00 \$ 100.00
#513-050-002AQ	.270 Win. Short Magnum	3A125N00 \$ 125.00
#513-050-280AQ	7 x 57mm	3A100K00 \$ 100.00
#513-050-265AQ	7 x 57mm Ackley Imp.t	3A100I00 \$ 100.00
#513-050-350AQ	7mm-08 Rem. Finish	3A100J00 \$ 100.00
#513-050-003AQ	7mm Win. Short Magnum	3A125C00 \$ 125.00

STOCK #	CALIBER	PRICE
RIMLESS RIFLE REAMERS		
#513-050-300AQ	.280 Remington	3A100N00 \$ 100.00
#513-050-295AQ	.280 Rem. Ackley Imp.	3A100I00 \$ 100.00
#513-050-275AQ	7.62 x 39mm	3A100G00 \$ 100.00
#513-050-320AQ	30 M-1 Carbine Finish	3A100H00 \$ 100.00
#513-050-321AQ	30 M-1 Carbine Rougher	3A100J00 \$ 100.00
#513-050-402AQ	.308 Winchester Match	3A125K00 \$ 125.00
#513-050-400AQ	.308 Winchester	3A100J00 \$ 100.00
#513-050-401AQ	.308 Winchester	3A100J00 \$ 100.00
#513-050-390AQ	30-06 Springfield Finish	3A100J00 \$ 100.00
#513-050-391AQ	30-06 Springfield Rougher	3A100M00 \$ 100.00
#513-050-395AQ	30-06 Sprg Ackley Imp.	3A100M00 \$ 100.00
#513-050-314AQ	.300 Remington Ultra Mag	3A100C00 \$ 100.00
#513-050-316AQ	.300 Win. Short Magnum	3A100I00 \$ 100.00
#513-050-440AQ	8 x 57mm	3A100J00 \$ 100.00
#513-000-084AQ	.338 Federal	3A125N00 \$ 125.00
#513-000-080AQ	.338-06 (same as .338-06 A-Square)	3A100A00 \$ 100.00
#513-050-510AQ	.35 Whelen	3A100I00 \$ 100.00
#513-050-355AQ	.35 Whelen Ackley Imp. Finish	3A100K00 \$ 100.00
#513-050-512AQ	.50 BMG	3A170F00 \$ 170.00

STOCK #	CALIBER	PRICE
BELTED CARTRIDGE		
#513-050-530AQ	.240 Weatherby Mag.	3A130A00 \$ 130.00
#513-050-520AQ	.257 Weatherby Mag.	3A130G00 \$ 130.00
#513-050-290AQ	7mm Remington Mag.	3A110F00 \$ 110.00
#513-050-560AQ	.300 Weatherby Mag.	3A130F00 \$ 130.00
#513-050-380AQ	.300 Winchester Mag.	3A110F00 \$ 110.00
#513-050-460AQ	.338 Winchester Mag.	3A110N00 \$ 110.00

STOCK #	CALIBER	PRICE
RIMMED RIFLE CARTRIDGES		
#513-050-030AQ	.22 Hornet	3A110L00 \$ 110.00
#513-050-040AQ	.22 K-Hornet	3A110L00 \$ 110.00
#513-000-085AQ	.25-20 WCF	3A110Q95 \$ 110.95
#513-051-322AQ	.32-20 (Bbl)	3A110P00 \$ 110.00
#513-051-754AQ	7.62 x 54R	3A110L00 \$ 110.00
#513-050-340AQ	.444 Marlin	3A110L00 \$ 110.00
#513-050-490AQ	.45-70 Government	3A110I00 \$ 110.00
#513-050-347AQ	.45-90 for Lead Bullets	3A125F00 \$ 125.00

STOCK #	CALIBER	PRICE
RIMLESS PISTOL CARTRIDGES		
#513-051-901AQ	9mm Luger	3A70G00 \$ 70.00
#513-051-923AQ	9 x 23 mm	3A70E00 \$ 70.00
#513-051-385AQ	.357 SIG	3A70D00 \$ 70.00
#513-051-400AQ	.40 S&W	3A70K00 \$ 70.00
#513-051-451AQ	.45 ACP	3A70P00 \$ 70.00

STOCK #	CALIBER	PRICE
RIMMED PISTOL CARTRIDGES		
#513-051-383AQ	.38 Super Nonte	3A80I00 \$ 80.00
#513-000-055AQ	.38-40 WCF (Bbl)	3A125H00 \$ 125.00
#513-051-351AQ	.357 Magnum (Bbl)	3A80G00 \$ 80.00
#513-051-455AQ	.45 Colt (Cyl)	3A80B00 \$ 80.00

STOCK #	CALIBER	PRICE
THROATING REAMERS		
#513-053-220AQ	.22 CF/218"	3A40F00 \$ 40.00
#513-053-250AQ	.25/.2490"	3A40A00 \$ 40.00
#513-053-600AQ	6mm/.2365"	3A40Q00 \$ 40.00
#513-053-700AQ	7mm/.2755"	3A40K00 \$ 40.00
#513-053-300AQ	.30/.2990"	3A40M00 \$ 40.00
#513-053-450AQ	.45 Rifle/.449"	3A40H00 \$ 40.00
#513-053-441AQ	.45 ACP/.4415"	3A40C00 \$ 40.00

SHOP ONLINE AT BROWNELLS.COM

Search by category, keyword, stock #, firearm make or model. Narrow your results by highest rated, most popular, USA made & more! Read reviews, see additional product photos, watch videos, all online.

**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.

- #80-027-100AQ 1 lb. Cerrosafe Alloy, 8K32F94 \$ 45.99
- #80-027-050AQ 1/2 lb Cerrosafe Alloy, 8K20P94 24.99

MENCK

.22 CHAMBER IRONING TOOL

**Swages Dry Firing Burrs
Out Of .22 Chambers**

Swages out burrs in .22 chambers caused by excessive dry firing. Insert and turn, or tap against burr until chamber is smooth and round again. Can be pushed in and turned with its own handle, a MAGNA-TIP® or a small wrench or, threaded into an 8-32 cleaning rod and pulled into the chamber, or driven into the chamber from the rear with a small punch.

SPECS: 1 1/2" (2.7cm) long. (tool only). 7/16" (1.84cm) long w/ handle. Wt. 1 1/2 oz. (43 g). Swage is case hardened 1117 steel.

- #590-009-022AQ .22 Ironing Swage, 9E23E99 \$ 23.99



**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.

- #100-013-375AQ Chambering A Remington Action, DVD, 6A00GIP \$ 24.95



**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-recommended, 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.

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

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

- Advise # - Rimfire Headspace Gauge, 3A30H00 \$ 30.00
- Advise # - Rimless Headspace Gauge, 3A30N95 30.99
- Advise # - .50 BMG Headspace Gauge, 3A60K00 60.00

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.,

- #513-000-041AQ .240 Weatherby Mag. Go Hdspce Gauge, 3A30Q00 \$ 30.00
- #513-100-320AQ Belted Mag. Go Gauge, 3A30Q00 30.00
- #513-100-321AQ Belted Mag. No-Go Gauge, 3A30H00 30.00

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

- Advise # - Rimless Pistol/Rimmed Rifle Gauge, 3A30A00 \$ 30.00



FORSTER & CLYMER HEADSPACE GAUGES

Absolutely Essential For Accurate, Safe, Chamber Work



Clymer Gauge Shown

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. **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 have same Stock #.**

Table with columns: CARTRIDGE, HEADSPACE GAUGE NAME, CLYMER GAUGE GO \$35.00, CLYMER GAUGE NO-GO \$35.00, FORSTER GAUGE GO \$28.99, FORSTER GAUGE NO-GO \$28.99, FORSTER GAUGE FIELD \$28.99. Lists various cartridges and their corresponding gauge specifications.

Table with columns: CARTRIDGE, HEADSPACE GAUGE NAME, CLYMER GAUGE GO \$35.00, CLYMER GAUGE NO-GO \$35.00, FORSTER GAUGE GO \$28.99, FORSTER GAUGE NO-GO \$28.99, FORSTER GAUGE FIELD \$28.99. Continuation of the gauge specifications table.

Orders/Tech: 800-741-0015

order on the web **brownells.com**

BROWNELLS MATCH RIFLE HEADSPACE GAUGES

In .001" Increments For Measurement Of "Match Grade" Chambers

Covers every size chamber all the way from Go to Field. Perfect for match shooters, armors, or sportsmen looking for the most accurate way to track locking lug and chamber wear on high quality, match grade barrels.

SPECS: Individual high speed steel gauges, hardened and ground. .308 Match Gauge Kit contains 1 of each .308 size listed in table, packaged in plastic case. **NOTE:** Some .308/7.62 gauges will be marked ".243".

Table with columns: STOCK #, CALIBER, SIZE, TYPE. Lists match rifle gauges such as #319-223-464AQ, #319-223-467AQ, etc.

- Advise # — Forster Headspace Ga., 9A22A31... \$ 28.99
— Advise # — Match Gauge, 8K22C15... 29.99
#079-308-000AQ #308 Match Gauge Kit, 8K199L99... \$ 249.99



CLYMER GO/NO-GO GAUGE SETS

Headspace Gauge Sets For Rifles, Handguns & Shotguns

Convenient kits contain "Go" and "No-Go" gauges for accurately checking chamber length to make sure it meets SAAMI or CIP specs. 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.

- #184-000-051AQ 22 LR Headspace Gauge Kit, 4H60F00... \$ 60.00
#184-000-037AQ 223 Rem. Headspace Gauge Kit, 4H66M00... 66.00
#184-000-038AQ 308 Win. Headspace Gauge Kit, 4H58B00... 58.00
#184-000-040AQ 30-06 Headspace Gauge Kit, 4H58P00... 58.00
#184-000-039AQ 7.62 x 39 Headspace Gauge Kit, 4H58Q00... 58.00
#184-000-047AQ 7.62 x 54R Headspace Gauge Kit, 4H60E00... 60.00
#184-000-042AQ 9mm Luger Headspace Gauge Kit, 4H60H00... 60.00
#184-000-050AQ 40 S&W Headspace Gauge Kit, 4H60D00... 60.00
#184-000-041AQ 45 ACP Headspace Gauge Kit, 4H60I00... 60.00
#184-000-048AQ 12 Gauge Headspace Gauge Kit, 4H90M00... 90.00

SERIOUS ABOUT FIREARMS SINCE 1939

GENERAL GUNSMITH TOOLS

HEADSPACE GAUGES

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CLYMER

FIELD HEADSPACE GAUGES

Measures The Largest Safe Dimensions



Field gauges are essential tools for ensuring a safe chamber on used rifles. Slightly longer than a No-Go gauge, the Field gauge is used to measure the absolute maximum allowable, safe chamber headspace. If the bolt closes on a No-Go gauge, the Field gauge is used for an additional check. If the bolt then closes on the Field gauge, the rifle is considered unsafe to shoot, and you'll have to have the barrel reambered. Includes a durable, plastic storage case. Available for .308 and .30-06 caliber chamber lengths. **SPECS:** Steel, precision machined to SAAMI specs. **.308** fits .243, .260, 7mm-08, .308, .338 Federal, and .358 Win. **.30-06** fits .25-06, .270 Win, 30-06, 8mm-06, .338-06, and .35 Whelen.

- #184-000-045AQ** .308 Field Gauge, 4H29H00 \$ 29.00
- #184-000-046AQ** .30-06 Field Gauge, 4H29N00 29.00

FORSTER .223/5.56mm MATCH RIFLE HEADSPACE GAUGE SET

11 Separate Gauges For Checking Chambers



Headspace gauges in .001" increments from 1.4636" to 1.4736" cover everything from Go to Field, including No-Go. Checks both .223 Remington commercial chambers and 5.56mm NATO chambers. Hardened steel, precision ground to SAAMI's ANSI tolerances. Includes polypropylene storage case. **SPECS:** Hardened steel. 11 gauges in .001" increments from 1.4636" to 1.4736". For 223/5.56mm NATO only.

- #319-000-008AQ** .223/5.56 Match Headspace Gauge Set, 9A178P76 \$ 204.99

A-ZOOM AMMO

RIMFIRE ACTION PROVING DUMMIES

Safe Function Testing, No Accidental Discharge



Safely check magazine feeding, action timing, extraction and ejection in guns of all action types. Manufactured to exact specifications and dimensions of factory loaded ammo, with the size and feel of real ammo, Action Proving DUMMIES are clearly marked with caliber and the word DUMMY. Useful as training aids in a classroom setting or in the shop. Distinctive color makes it easy to find DUMMIES and not confuse them with live ammo. DO NOT use as dry fire snap caps. Dry firing will deform head and greatly diminish functionality. Available in five calibers. Made in the USA. **SPECS:** CNC machined from single piece of aluminum, anodized blue.

STOCK #	PER	CALIBER	PRICE
#187-000-034AQ	6	.17 MACH 2 †	5K7N00 \$ 8.99
#187-000-033AQ	6	.17 HMR †	5K7B00 \$ 8.99
#187-000-043AQ	6	.22 Long Rifle	5K5D99 \$ 8.19
#187-000-044AQ	12	.22 Long Rifle	5K9C32 \$ 13.99
#187-000-042AQ	6	.22 WMR	5K6C65 \$ 10.99

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 Action Proving Dummies 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. **SPECS:** Centerfire Rifle Kit contains 1 each of the calibers marked in the table with *. Centerfire Handgun Kit contains 1 each of the calibers marked in the table with **, plus 7.65/.30 Luger (not available separately). Catch Up Pak contains 1 each of the calibers marked in the table with †.

- #084-039-300AQ** Centerfire Rifle Dummy Kit, 4H103M00 \$ 121.99
- #084-039-400AQ** Centerfire Handgun Dummy Kit, 4H32100 39.99
- #084-000-263AQ** Dummy Catch Up Pak, 4H37C00 43.99

STOCK #	PER	CALIBER	PRICE
RIMFIRE DUMMIES			
#187-000-034AQ	6	.17 MACH 2 †	5K7N00 \$ 8.99
#187-000-033AQ	6	.17 HMR †	5K7B00 \$ 8.99
#187-000-043AQ	6	.22 Long Rifle	5K5D99 \$ 8.19
#187-000-044AQ	12	.22 Long Rifle	5K9C32 \$ 13.99
#367-022-002AQ	50	.22 Long Rifle	1K5N35 \$ 6.99
#187-000-042AQ	6	.22 WMR	5K6C65 \$ 10.99
CENTERFIRE RIFLE DUMMIES			
#367-220-005AQ	5	.220 Swift* †	7F9Q96 \$ 12.99
#669-222-005AQ	5	.222 Rem.*	7F7L26 \$ 9.99
#367-000-014AQ	20	.223 WSSM †	7F33A00 \$ 38.99
#367-223-005AQ	5	.223 Rem.*	7F7D38 \$ 9.99
#367-223-020AQ	20	.223 Rem.*	7F26E68 \$ 34.99
#669-250-005AQ	5	22-250*	7F8A98 \$ 11.99
#669-250-020AQ	20	22-250	7F28C60 \$ 38.99
#669-600-005AQ	5	6mm*	7F8J00 \$ 10.99
#669-243-005AQ	5	.243*	7F9F75 \$ 12.99
#669-243-020AQ	20	.243	7F36L50 \$ 42.99
#367-000-009AQ	5	.243 WSSM	7F10P75 \$ 12.99
#669-251-005AQ	5	.250 Sav.*	7F11D52 \$ 14.99
#669-256-005AQ	5	.25-06*	7F11K00 \$ 13.99
#367-000-011AQ	5	.25 WSSM †	7F9G10 \$ 10.99
#669-257-005AQ	5	.257 Roberts*	7F19B75 \$ 23.99
#367-000-021AQ	5	6.5x55 Mauser	7F8P75 \$ 10.99
#367-260-005AQ	5	.260 Rem.*	7F16D75 \$ 19.99
#669-264-005AQ	5	.264 Mag.*	7F13N53 \$ 16.99
#669-270-005AQ	5	.270*	7F14D00 \$ 16.99
#669-270-020AQ	20	.270	7F42A00 \$ 48.99
#367-000-007AQ	5	.270 WSM †	7F14G00 \$ 15.99
#367-280-005AQ	5	.280 Rem.*	7F8P50 \$ 10.99
#669-284-005AQ	5	.284 Win.*	7F10K25 \$ 12.99
#669-757-005AQ	5	7x57*	7F11H29 \$ 14.99
#367-762-005AQ	5	7.62x39*	7F9K75 \$ 11.99
#367-762-020AQ	20	7.62x39	7F35I10 \$ 45.99
#367-708-005AQ	5	7mm-08*	7F16D75 \$ 19.99
#669-700-005AQ	5	7mm Mag.*	7F14M60 \$ 19.99
#367-000-017AQ	5	7mm WSM* †	7F9G75 \$ 11.99
#367-284-005AQ	5	7mm RUM* †	7F15H68 \$ 20.99
#367-300-005AQ	5	300 Win. Mag.*	7F15L98 \$ 19.99

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.

STOCK #	PER	CALIBER	PRICE
#367-300-020AQ	20	.300 Win. Mag.	7F53K75 \$ 68.99
#367-301-020AQ	20	.300 WSM	7F46J00 \$ 54.99
#669-301-005AQ	5	300 H&H*	7F16P75 \$ 20.99
#367-302-005AQ	5	300 RUM* †	7F13A50 \$ 16.99
#669-302-005AQ	5	300 Sav.*	7F12K40 \$ 15.99
#669-306-005AQ	5	30-06*	7F10L69 \$ 14.99
#669-306-020AQ	20	30-06	7F42H00 \$ 49.99
#669-303-005AQ	5	303 British*	7F9M00 \$ 11.99
#669-304-005AQ	5	30-30*	7F11L00 \$ 13.99
#669-304-020AQ	20	30-30	7F42D00 \$ 49.99
#669-308-005AQ	5	308 Win.*	7F10B48 \$ 13.99
#669-308-020AQ	20	308 Win.	7F39F70 \$ 46.99
#367-030-010AQ	5	30 MI*	7F6L75 \$ 7.99
#669-320-005AQ	5	.32 Win.*	7F10H63 \$ 14.99
#669-857-005AQ	5	8 x 57*	7F11M65 \$ 14.99
#669-338-005AQ	5	338 Win.*	7F14I77 \$ 18.99
#367-339-005AQ	5	338 RUM* †	7F15L69 \$ 20.99
#669-358-005AQ	5	358 Win.*	7F11L00 \$ 13.99
#669-375-005AQ	5	375 H&H*	7F15B00 \$ 17.99
#669-457-005AQ	5	45-70*	7F15F83 \$ 21.99
#367-450-005AQ	5	450 Martin*	7F20L08 \$ 26.99
#669-458-005AQ	5	458 Win.*	7F18L00 \$ 22.99
#367-000-025AQ	4	50 BMG	7F27A00 \$ 32.99
CENTERFIRE HANDGUN DUMMIES			
#367-025-010AQ	5	.25 Auto**	7F9N05 \$ 12.99
#367-020-015AQ	5	.32 H&R Mag	7F7E10 \$ 8.99
#669-765-010AQ	10	.32 Auto**	7F14M12 \$ 19.99
#367-900-010AQ	10	9mm Luger**	7F11C75 \$ 14.99
#367-900-050AQ	50	9mm Luger	7F48N75 \$ 63.99
#367-918-010AQ	10	9mm Makarov**	7F13A00 \$ 17.99
#367-038-010AQ	10	38 Super**	7F11E00 \$ 14.99

BROWNELLS 45° TWELVE-FLUTE MUZZLE CHAMFER CUTTER



Smooth, Chatter-Free Cutter & Interchangeable Brass Pilots

A ready-to-use combination of twelve-flute cutter and brass pilot for touching up minor rifle muzzle imperfections that can destroy fine accuracy. Twelve flutes cut smooth and chatter-free so no stoning, lapping or touch-up is required. Hardened brass pilots won't scar or damage delicate rifling. A very handy tool to take along to the range or keep in your tool box, "just in case." **SPECS:** Cutter - tool steel, 3/4" (8.2cm) long. Handle - aluminum 3/4" (8.8cm) long 1/4"-20 threads. Pilot - brass, 1 1/4" (3cm) long. One Caliber Set includes cutter, pilot and handle.

- #080-588-625AQ** 3/4" Diameter, 45° Chamfer Cutter, only, 8K43A83 \$ 59.99
- #080-589-000AQ** Facing & Chamfering Tool Handle, only, 1/4"-20 thread, 8K10P91 14.99

STK#	STK#	FITS
ONE CAL. SET	BRASS PILOT ONLY	
#080-930-223AQ	#080-943-023AQ	.22 Centerfire Muzzle
#080-930-243AQ	#080-943-243AQ	6mm/.243 Muzzle
#080-930-284AQ	#080-943-007AQ	7mm Muzzle
#080-930-308AQ	#080-943-308AQ	.30 Muzzle

- Advise # — One Cal. Muzzle Chamfer Set, 8K63K60 \$ 95.99
- Advise # — Brass Muzzle Pilot, only, 8K21Q81 26.99

BROWNELLS

79° MUZZLE CROWNING CUTTER

Cuts Popular "11" Target Crown



Hardened steel, muzzle crowning tool cuts a slight (11° less than square) target chamfer on barrels. Gives good rifling protection without going too deep. 90° - 11° = 79°, hence the name. Eight, precision-machined flutes give smooth, chatter-free cuts to help eliminate extra lapping or stoning. 1/4"-20 thread fits Brownells muzzle chamfering handles. Use with our muzzle pilots to ensure precise alignment with your bore. Available in 1/2" and 3/4" diameters to accommodate most rifle/handgun barrel diameters. **SPECS:** Tool Steel, 2 1/2" (6cm) overall length, 1/2" (1.3cm) or 3/4" (1.9cm) O.D. 1/4"-20 tpi.

- #080-586-500AQ** 1/2" 79° Crown Cutter, 7A41H95 ... \$ 52.99
- #080-586-750AQ** 3/4" 79° Crown Cutter, 8K45N50 ... 52.99
- .17 CAL. 11° MUZZLE CROWNING 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.
- #080-000-184AQ** .17 Cal., 1/4" Crown Cutter, 8K38P07 \$ 49.97

SHOPPING FOR THE GUN GUY OR GAL THAT HAS EVERYTHING?

GIVE THEM SOMETHING THEY CAN ENJOY ANY TIME - A MUG, PEN, CD, T-SHIRT, CAP OR GIFT CARD!

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 With 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 3/16" 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 - 2 1/2" (6cm) long), 1/2" (12.7mm) or 3/8" (15.8mm) diameter. **Handle** - 3/4" (8.9cm), 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 pilots, aluminum handle. Packaged in a polypropylene box.

- #080-588-454AQ 1/2" Diameter, 45° Chamfer Cutter, only, 8K38A98..... \$ 58.99
- #080-588-625AQ 3/16" Diameter, 45° Chamfer Cutter, only, 8K43A83..... 59.99
- #080-588-453AQ 1/2" Diameter, 45° Chamfer Cutter, for .17 Cal., 8K41K58..... 62.99
- #080-589-000AQ Facing & Chamfering Tool Handle, only, 1/4"-20 thread, 8K10P91..... 14.99

- Advise # - 45° Muzzle/Cylr Chmfr Cutter & Steel Pilot for 1 cal., 8K67J26... \$ 99.99
- Advise # - 45° Muzzle/Cylr Chmfr Cutter & Brass Pilot for 1 cal., 8K72J06... 100.99
- Advise # - Cylinder Pilot, Steel, only, 8K18K58..... 25.99
- Advise # - Cylinder Pilot, Brass, only, 8K21N81..... 26.99

STK# STEEL ONE CAL. SET	STK# BRASS ONE CAL. SET	STK# 45° CUTTER & STEEL PILOT	STK# 45° CUTTER & BRASS PILOT	STK# 90° CUTTER & STEEL PILOT	STK# 90° CUTTER & BRASS PILOT	STK# STEEL PILOT ONLY	STK# BRASS PILOT ONLY	FITS
#080-591-208AQ	NA	#080-587-208AQ	NA	#080-586-208AQ	NA	#080-686-208AQ	NA	.17 Centerfire Muzzle (.165")
#080-591-209AQ	NA	#080-587-209AQ	NA	#080-586-209AQ	NA	#080-686-209AQ	NA	.17 HMR Muzzle (.166")
#080-591-210AQ	NA	#080-587-210AQ	NA	#080-586-210AQ	NA	#080-686-210AQ	NA	.17 High Std./HM2 Muzzle (.167")
#080-591-207AQ	NA	#080-587-207AQ	NA	#080-586-207AQ	NA	#080-686-207AQ	NA	.177 Airgun Muzzle (.173")
#080-591-214AQ	#080-946-210AQ	#080-587-211AQ	#080-948-210AQ	#080-586-214AQ	#080-947-210AQ	#080-686-220AQ	#080-943-220AQ	20 Muzzle
#080-591-211AQ	#080-946-211AQ	#080-587-212AQ	#080-948-211AQ	#080-586-211AQ	#080-947-211AQ	#080-686-211AQ	#080-943-211AQ	22 RF Muzzle (.211")
#080-591-213AQ	#080-946-213AQ	#080-587-213AQ	#080-948-213AQ	#080-586-213AQ	#080-947-213AQ	#080-686-213AQ	#080-943-213AQ	22 RF Muzzle (.213")
#080-591-022AQ	#080-946-022AQ	#080-587-224AQ	#080-948-224AQ	#080-586-229AQ	#080-947-229AQ	#080-686-022AQ	#080-943-022AQ	22 RF Muzzle (.215")
#080-591-023AQ	#080-946-023AQ	#080-587-234AQ	#080-948-234AQ	#080-586-239AQ	#080-947-239AQ	#080-686-023AQ	#080-943-023AQ	22 Centerfire Muzzle
#080-591-243AQ	#080-946-243AQ	#080-587-645AQ	#080-948-645AQ	#080-586-690AQ	#080-947-690AQ	#080-686-243AQ	#080-943-243AQ	6mm/1.243 Muzzle
#080-591-257AQ	#080-946-257AQ	#080-587-254AQ	#080-948-254AQ	#080-586-259AQ	#080-947-259AQ	#080-686-257AQ	#080-943-257AQ	257 Muzzle
#080-591-264AQ	#080-946-264AQ	#080-587-264AQ	#080-948-264AQ	#080-586-269AQ	#080-947-269AQ	#080-686-264AQ	#080-943-264AQ	6.5mm/264 Muzzle
#080-591-270AQ	#080-946-270AQ	#080-587-274AQ	#080-948-274AQ	#080-586-279AQ	#080-947-279AQ	#080-686-270AQ	#080-943-270AQ	270 Muzzle
#080-591-007AQ	#080-946-007AQ	#080-587-745AQ	#080-948-745AQ	#080-586-790AQ	#080-947-790AQ	#080-686-007AQ	#080-943-007AQ	7mm Muzzle
#080-591-308AQ	#080-946-308AQ	#080-587-304AQ	#080-948-304AQ	#080-586-309AQ	#080-947-309AQ	#080-686-308AQ	#080-943-308AQ	30 Muzzle
#080-591-311AQ	#080-946-311AQ	#080-587-311AQ	#080-948-311AQ	#080-586-311AQ	#080-947-311AQ	#080-686-311AQ	#080-943-311AQ	.311 Muzzle
#080-591-320AQ	#080-946-320AQ	#080-587-320AQ	#080-948-320AQ	#080-586-320AQ	#080-947-320AQ	#080-686-320AQ	#080-944-320AQ	32 Muzzle
NA	NA	#080-587-321AQ	#080-948-321AQ	NA	NA	#080-686-321AQ	NA	32 Cylinder
#080-591-322AQ	#080-946-322AQ	#080-587-322AQ	#080-948-322AQ	#080-586-322AQ	#080-947-322AQ	#080-686-322AQ	#080-943-322AQ	32-20 Muzzle
#080-591-323AQ	#080-946-323AQ	#080-587-323AQ	#080-948-323AQ	#080-586-323AQ	#080-947-323AQ	#080-686-323AQ	#080-943-323AQ	8mm Muzzle
#080-591-338AQ	#080-946-338AQ	#080-587-338AQ	#080-948-338AQ	#080-586-338AQ	#080-947-338AQ	#080-686-338AQ	#080-943-338AQ	338 Muzzle
#080-591-380AQ	#080-946-380AQ	#080-587-380AQ	#080-948-380AQ	#080-586-357AQ	#080-947-357AQ	#080-686-380AQ	#080-944-380AQ	.38/.357 Muzzle
NA	NA	#080-587-381AQ	#080-948-381AQ	NA	NA	#080-686-381AQ	#080-943-381AQ	.38/.357 Cylinder
#080-591-350AQ	#080-946-350AQ	#080-587-350AQ	#080-948-350AQ	#080-586-350AQ	#080-947-350AQ	#080-686-350AQ	#080-943-350AQ	35 Muzzle
#080-591-384AQ	#080-946-384AQ	#080-587-384AQ	#080-948-384AQ	#080-586-384AQ	#080-947-384AQ	#080-686-384AQ	#080-943-384AQ	38-40 Muzzle
#080-591-375AQ	#080-946-375AQ	#080-587-375AQ	#080-948-375AQ	#080-586-375AQ	#080-947-375AQ	#080-686-375AQ	#080-943-375AQ	375 Muzzle
#080-591-400AQ	#080-946-400AQ	#080-587-400AQ	#080-948-400AQ	#080-586-400AQ	#080-947-400AQ	#080-686-400AQ	#080-944-400AQ	40/10mm Muzzle
NA	NA	#080-587-401AQ	NA	NA	NA	#080-686-401AQ	NA	40/10mm Cylinder
#080-591-410AQ	#080-946-410AQ	#080-587-410AQ	#080-948-410AQ	#080-586-410AQ	#080-947-410AQ	#080-686-410AQ	#080-944-410AQ	41 Muzzle*
#080-591-440AQ	#080-946-440AQ	#080-587-440AQ	#080-948-440AQ	#080-586-440AQ	#080-947-440AQ	#080-686-440AQ	#080-946-440AQ	44 Muzzle*
#080-591-450AQ	#080-946-450AQ	#080-587-450AQ	#080-948-450AQ	#080-586-450AQ	#080-947-450AQ	#080-686-450AQ	#080-944-450AQ	45 Muzzle*
#080-591-430AQ	#080-946-430AQ	#080-587-459AQ	#080-948-418AQ	#080-586-451AQ	#080-947-459AQ	#080-686-459AQ	#080-943-450AQ	45 BP Muzzle*
#080-591-480AQ	#080-946-480AQ	#080-587-480AQ	#080-948-480AQ	#080-586-480AQ	#080-947-480AQ	#080-686-480AQ	#080-944-480AQ	480 Ruger Muzzle*
#080-591-503AQ	#080-946-502AQ	#080-587-501AQ	#080-948-501AQ	#080-586-501AQ	#080-947-501AQ	#080-686-501AQ	#080-944-501AQ	.50 S&W Muzzle*
#080-591-501AQ	#080-946-501AQ	#080-587-503AQ	#080-948-503AQ	#080-586-502AQ	#080-947-503AQ	#080-686-503AQ	#080-943-501AQ	.50 BMG/BP Muzzle*
#080-591-458AQ	#080-946-458AQ	#080-587-458AQ	#080-948-458AQ	#080-586-458AQ	#080-947-458AQ	#080-686-458AQ	#080-943-458AQ	458/.45-70 Muzzle*
NA	#080-946-417AQ	#080-587-416AQ	#080-948-417AQ	#080-586-417AQ	#080-947-416AQ	#080-686-416AQ	#080-943-417AQ	416 Muzzle*
NA	NA	#080-587-411AQ	#080-948-411AQ	NA	NA	#080-686-411AQ	#080-942-411AQ	41 Cylinder*
NA	NA	#080-587-441AQ	#080-948-441AQ	NA	NA	#080-686-441AQ	#080-942-441AQ	44 Cylinder*
NA	NA	#080-587-448AQ	#080-948-448AQ	NA	NA	#080-686-448AQ	#080-942-448AQ	45 ACP-1 Cylinder*
NA	NA	#080-587-456AQ	#080-948-456AQ	NA	NA	#080-686-456AQ	#080-942-456AQ	45 ACP-2 Cylinder*
NA	NA	#080-587-451AQ	#080-948-451AQ	NA	NA	#080-686-451AQ	#080-942-451AQ	45 Cylinder*
NA	NA	#080-587-481AQ	#080-948-481AQ	NA	NA	#080-686-481AQ	#080-942-480AQ	480 Ruger Cylinder*
NA	NA	#080-587-502AQ	#080-948-502AQ	NA	NA	#080-686-502AQ	NA	.50 S&W Cylinder*

90° MUZZLE FACING CUTTER - Uses interchangeable, 1 1/4" 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 - 3/4" (8.2cm) long (except .17 caliber cutter - 2 1/2" (6cm) long, Diameter - 1" (2.5cm) or .750" (19mm). **Handle** - 3/4" (8.9cm) long, 3 oz. (85 g). Hardened steel cutter and pilots, aluminum handle. Packaged in a polypropylene box.

- #080-586-909AQ .750" Diameter, 90° Muzzle Facing Cutter, only, 8K44K90..... \$ 57.99
- #080-586-910AQ 1" Diameter, 90° Muzzle Facing Cutter, only, 8K58C60..... 74.99
- #080-586-911AQ 1" Diameter, 90° Muzzle Facing Cutter, for .17 Cal., 8K50M65..... 74.99
- #080-589-000AQ Facing & Chamfering Tool Handle, only, 1/4"-20 thread, 8K10P91..... 14.99

- Advise # - .750" Dia., 90° Muzzle Facing Cutter & Steel Pilot for 1 cal., 8K70J56..... \$ 100.99
- Advise # - .750" Dia., 90° Muzzle Facing Cutter & Brass Pilot for 1 cal., 8K73J09..... 100.99
- Advise # - Muzzle Pilot, Steel, only, 8K18K59..... 29.99
- Advise # - Muzzle Pilot, Brass, only, 8K21M81..... 26.99



BROWNELLS MUZZLE RADIUS CUTTER

The Finishing Touch On Barrel Crowning Jobs

Easily removes the sharp outside edge that remains after shortening or crowning a barrel. Easy-to-use cutter requires only a hand drill to quickly cut a smooth radius for a nicely finished look. Three cutter sizes to fit most barrels.



SPECS: Hardened Steel - .615" (15.6mm), .715" (18.1mm), .815" (20.7mm), .920" (23.4mm) cutter diameters.

- #080-908-615AQ .615" Muzzle Radius Cutter, 8K23Q19..... \$ 28.99
- #080-908-715AQ .715" Muzzle Radius Cutter, 8K21G49..... 30.99
- #080-908-815AQ .815" Muzzle Radius Cutter, 8K25Q19..... 31.99
- #080-908-920AQ .920" Muzzle Radius Cutter, 8K22F79..... 28.99

BROWNELLS MUZZLE FACING/CROWNING CUTTER DRILL CHUCK ADAPTER

Face, Crown & Chamfer With Any 3/8" Drill

Adapts Brownells 1/4"-20 threaded, Facing, Crowning and Chamfering Cutters to your 3/8" drill press or drill to get a chatter-free, finish cut.

SPECS: Steel - 2" (5cm) long, .360" (9mm) dia. shaft, 1/4"-20 thread.

- #080-962-000AQ Drill Chuck Adapter, 8K9N49..... \$ 12.99

BROWNELLS RIFLED SHOTGUN MUZZLE FACING PILOTS

Safe Muzzle Touch-Up For Rifled Slug Barrels

Polished brass pilots turned to uniform concentricity make it easy to clean up and square-off dinged or re-cut muzzles on 12 and 20 gauge, rifled slug barrels without damaging the lands and grooves. Use with Brownells 1" Diameter, 90°, Muzzle Facing Cutter for best results. Measure bore I.D. between tops of lands to determine closest pilot listed for your barrel. If your barrel's diameter isn't listed, select the closest, smaller size. Available in three diameters for 12 and 20 gauge, rifled slug barrels.

SPECS: Brass - 2" (5.1cm) long, 12 Ga. - Pilots available to fit .718" bore diameter, 20 Ga. - Pilot fits .609" bore diameter. 1/8" shank fits Brownells Muzzle Facing Cutter.

- #080-943-207AQ 12 Ga. .718" Rfld a Plt, 9K18Q11..... \$ 24.99
- #080-943-209AQ 20 Ga. .609" Rfld Bbl Plt, 9K18K11..... 24.99
- #080-586-910AQ 1" Diameter, 90° Muzzle Facing Cutter, only, 8K58C60..... 74.99
- #080-589-000AQ Facing & Chamfering Tool Handle, only, 1/4"-20 thread, 8K10P91..... 14.99

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BROWNELLS PAGE 497

GENERAL GUNSMITH TOOLS

CHAMFERING TOOLS

BROWNELLS 45° BRASS MUZZLE LAP



Polish Chamfers; Lap Edges; Improve Accuracy

Use to polish after using 45° Chamfer Cutters or for lapping out dings, sharp edges, etc. Mount in a variable speed drill and use our

Silicon Carbide grits. Made of half-hard brass to dull polishing grit well.

SPECS: 1/4" (3cm) lg. 5/16" (16mm) dia. body. 1/4" (6.3mm) dia. shank.
#080-624-045AQ 45° Brass Muzzle Lap, 2K11B22 \$ 14.99

BROWNELLS POWER CUSTOM BRASS MUZZLE CROWNING LAP

Genevra Brass Laps For All Rifle & Handgun Barrels

Four different sizes of brass laps produce a beautiful, finished



crowns 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.
#080-764-000AQ Muzzle Lap Set, 8K33Q94 \$ 45.99

STOCK #	FIT BORE SIZE	TIP RADIUS	PRICE
#080-764-243AQ	.17-6.5mm	3/16" (3.96mm)	8K8M99 \$ 13.45
#080-764-350AQ	.270-.35	3/16" (4.76mm)	8K9J06 \$ 13.99
#080-764-410AQ	.38/.357- .41	1/4" (6.35mm)	8K9K16 \$ 13.99
#080-764-500AQ	.44-50	5/16" (7.93mm)	8K10C92 \$ 16.99

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, chatter-free 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 1/8" pilot wrench, 3/16" 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, 8 1/4" (22.2cm) overall length. Kits include power driver or manual handle, 0° facing cutter, 11° facing cutter, outside chamfer cutter, (2 or 5) pilots, 1/8" pilot wrench, 3/16" allen wrench, setup gauge, power driver, adapter, instructions, and storage case.

#513-000-038AQ 2-Pilot Manual Crown Kit, 3A360L00 \$ 360.00
#513-000-039AQ 5-Pilot Manual Crown Kit, 3A460E00 460.00



BROWNELLS SCOPE RING ALIGNMENT LAP



Trues & Aligns Scope Rings; Prevents Damage

Helps prevent dinged and damaged scope tubes by removing high spots to quickly true misaligned or out-of-round scope rings so they're perfectly in line. Also works to turn-in and rough align rotary dovetail rings. Dual-handles with multiple, transverse, lapping compound grooves give complete control and fast results. Includes lapping compound.

SPECS: Mild steel, in-the-white. 12" (30cm) long, 1" (2.5cm) or 30mm (1.8") dia. Includes (2) plastic handles and instructions.

#080-903-100AQ 1" Alignment Lap, 8K51M98 \$ 67.99
#080-903-130AQ 30mm Alignment Lap, 8K54K90 80.99

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, predetermined 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

#319-400-000AQ Forster Sight Fixture with 6-48 bushing, 9A399C99 \$ 459.99
#319-400-936AQ Drill Bushing #36, 9A7D09 8.99
#319-400-945AQ Drill Bushing #45, 9A7E09 8.99
#319-400-700AQ Round Pad, pair, 9A1Q45 1.99
#319-400-900AQ Forster Locating Pin, 9A10Q50 10.99
#319-400-901AQ Forster C-Clamp, 9A9Q32 11.99
#319-400-902AQ C-Clamp Set Screw, 9A1H45 1.99

STOCK #	BUSHING	STOCK #	BUSHING
BUSHING SET			
#319-400-132AQ	10-32	#319-400-921AQ	#21
#319-400-356AQ	3-56	#319-400-928AQ	#28
#319-400-648AQ	6-48	#319-400-930AQ	#30
#319-400-840AQ	8-40	#319-400-931AQ	#31
		#319-400-964AQ	#7/64

— Advise # — Bushing Set, each, 9A19H25 \$ 22.99
— Advise # — Drill Bushing, each, 9A6P94 6.99

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, clearly-threaded scope base holes without all the extra setup

time and hassle. Based on the principle of sliding parallels, this jig places locking, hardened drill bushings in one of three different hole spacing patterns. Gives the versatility to drill and tap for almost any scope mount base.

SPECS: Steel & aluminum, black finish. Approximately 5 1/2" (14cm) long, 2 1/4" (7cm) wide. Fits receivers between .630" and 1.440" in diameter. Includes #31 (6-48) and #28 (8-40) drill and tap bushings.

#962-368-980AQ Scope Mount Drill Fixture, 2F106Q00 \$ 126.99

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 petroleum 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.

#083-041-600AQ #600 Lapping Compound, 5L20B96 \$ 29.95
#083-041-800AQ #800 Lapping Compound, 5L20C96 29.95
#083-041-002AQ Twin Pak Lapping Compound, 3H36C22 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 cast iron, 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.

#083-047-005AQ GK-5 Lapping Compound, 3H11J00 \$ 14.99
#083-047-007AQ GK-7 Lapping Compound, 3H11K00 14.99
#083-047-010AQ GK-10 Lapping Compound, 3H11I00 14.99

LEUPOLD RING WRENCH



No-Damage Installation

Non-marring synthetic tool turns rotary

dovetail rings without damage. Lets you quickly adjust rings for correct alignment. Fits all brands of rotary dovetail rings.

SPECS: Synthetic, black. 8 1/2" (21.5cm) long.
#526-000-042AQ Leupold Rotary Dovetail Ring Wrench, 9Z10P66 \$ 16.99

BROWNELLS SILICON CARBIDE ABRASIVE COMPOUND



Sharp-Edged Silicon Carbide Self-Lubricating Petroleum Base

The very best abrasive compound for "hard fitting" two pieces of steel. Stands up to continued fitting even on hardened and heat-treated steel. Silicon carbide grit combined with a thick, long lasting lubricant breaks

down into smaller and smaller sharp-edged particles to keep cutting longer than aluminum oxide compounds. For use on steel only. Remove with solvent.

SPECS: 4 fl. oz. (118 ml).

STOCK #	GRIT SIZE	PRICE
#083-045-120AQ	120	5L11F91 \$ 16.99
#083-045-180AQ	180	5L11C91 \$ 16.99
#083-045-240AQ	240	5L11B91 \$ 16.99
#083-045-320AQ	320	5L12J84 \$ 17.99
#083-045-400AQ	400	5L12B84 \$ 17.99
#083-045-600AQ	600	5L19L31 \$ 29.99
#083-045-800AQ	800	5L19K30 \$ 29.99

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 listed above.

SPECS: 2 fl. oz. (59 ml). Kit contains 120, 180, 240, 320, 400, 600 and 800 grit.

#080-905-000AQ Silicon Carbide Abrasive Kit, 8K45N21 \$ 61.99

SILICON CARBIDE ABRASIVE GRIT - Very fine abrasive powders you can use to "rub in" parts.

Make an abrasive/cutting-oil paste for metal work or use dry on a soft pad to bring a cured stock finish to a gloss. Follow with Brownells Stock Rubbing Compound.

SPECS: 120 grit (coarse); 600 grit (fine). 1 lb. net wt. in plastic jar.

#080-537-120AQ 120 Grit Silicon Carbide, 5L14I94 \$ 24.99
#080-537-600AQ 600 Grit Silicon Carbide, 5L18J73 24.99



BROWNELLS SLEEVED SCOPE ALIGNMENT RODS



Perfect Scope Ring Alignment For Both 1" & 30mm Rings

Aligns scope rings quickly; puts an end to kinked or "dinged" scope bodies. When the two points touch, your rings are perfectly aligned. Versatile, adjustable length design works for all ring spacings, from close to wide. Outer sleeves fit both 1" and 30mm scope rings. Sliding, inner rods clearly show if bases need shimming or if receiver holes are correctly aligned.

SPECS: Machined steel, blued. Kit includes (1) 8 1/2" (21cm) long rod, (1) 5 1/2" (14cm) long rod, (2) 1 1/30mm diameter outer ring sleeves, and complete instructions in a hard-shell storage box.

#080-918-000AQ Steeved Alignment Rods, 8K51F20 \$ 64.95

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BROWNELLS SCOPE ALIGNMENT RODS

Instantly Aligns; Prevents "Kinked", Marred Scopes

Easily and quickly align scope and rings with perfect accuracy before mounting and "dinging" the scope. Clamp one rod in each ring; if the points don't touch, they're out of alignment. The cause could be mismatched rings, the wrong bases, bases that need shimming or a "tweaked" action. Well worth the small cost and time required to prevent damaging a scope. **■**
SPECS: 4 1/2" (10.7mm) long each. 1" (25.4mm) or 30mm (1.18") diameter. Machined aluminum.

#080-730-000AQ 1" Alignment Rods, 8K28C05 \$ 37.99
 #080-730-030AQ 30mm Alignment Rods, 8K30N70... 38.99



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 1/30mm diameter cylinders. Includes complete instructions.

#749-006-613AQ Sinclair Scope Ring Alignment Tool, 8H59E99 \$ 69.99

EXD ENGINEERING VERTICAL RETICLE INSTRUMENT

Accurate Check For Perfectly Aligned Crosshairs

Adjustable, self-aligning V-blocks with integral spirit level makes zeroing your scope faster and far more accurate. Enhances final scope accuracy by squaring the crosshairs to the bore. Even a slight cant of the crosshairs can reduce overall accuracy, change point of impact and increase the likelihood of missed "bulls" or wounded game. **■**

SPECS: Aluminum, natural finish. 5 1/2" (14cm) long, 2" (5cm) wide. Includes complete instructions.

#289-100-000AQ Vertical Reticle Inst., 9H40K00 \$ 46.00



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 3/16". Two TORX wrenches, T-15 and T-25. Plus, 1/4" flat blade. **■**

SPECS: Drivers: Chrome vanadium steel, blue, matte finish. Handles: reinforced resin, Black.

#526-522-960AQ Scopesmith Mounting Tool, 9Z1A120 \$ 17.99



BROWNELLS

HOLE CENTER PUNCHES

Use Sights, Ribs Or Bases As Their Own Drill Guide

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

#080-732-006AQ #6 Hole Center Punch, 8K6194 \$ 8.99
 #080-732-008AQ #8 Hole Center Punch, 8K6D94 8.99
 #080-732-010AQ #10 Hole Center Punch, 8K6G94 8.99
 #080-732-000AQ Hole Center Punch Set, 8K17N98..... 21.99



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: 1 1/2" (4.7cm) long overall, 1/4" (3.1cm) long shank.

#080-146-006AQ #6 Slotted See Thru Bit, 8K3Q19 \$ 3.99
 #080-146-008AQ #8 Slotted See Thru Bit, 8K3A49 4.49
 #080-146-093AQ 3/32" Hex See Thru Bit, 8K3L88 4.99
 #080-146-109AQ 7/64" Hex See Thru Bit, 8K4N20 4.99
 #080-000-077AQ T-10 Torx See Thru Bit, 8K4P05 4.99
 #080-000-078AQ T-15 Torx See Thru Bit, 8K3K88 4.99
 #080-146-000AQ See-Thru Bit Set, 8K18F65 21.99



WARNE

SCOPE RING TORQUE WRENCH

Helps Prevent Dented & Damaged Scopes

Puts an end to the "How tight do I make it" question. Helps prevent over-torque damage to your favorite scope. Break away torque wrench is pre-set and will not tighten T15 Torx screws tighter than 25 in. lbs., which is the maximum recommended by most scope and scope ring manufacturers. 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. 3 1/2" (8.8cm) long, 3/4" wide. Fits T15 Torx screws only.

#947-000-152AQ Scope Ring Torque Wrench, 7D19E03 \$ 24.99



BROWNELLS MAGNA-TIP® ADJUSTABLE TORQUE HANDLE

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

Precision-adjustable torque driver ensures that you apply the exact amount of leverage needed to accurately tighten a wide variety of gun screws, including action screws and screws for scope rings and mounts. Adjustable from 10 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. Rugged, 3/8" square drive bit locks positively to the included socket adapter to let you use any Magna-Tip bit. The adapter's clip-style chuck grasps the bit securely to prevent slipping or falling out. Streamlined, teardrop-shaped handle provides a secure grip for maximum leverage and even transfer of tightening force. To change torque setting, lift the handle, turn it to the desired setting indicated through the easy-to-read window scale, and push back in until it snaps firmly into place. A self-limiting clutch "clicks" free when the specified amount of torque is reached, preventing further tightening and possible damage to components. Rubber-coated aluminum body provides additional gripping surface and protects your gun from scratches. Sturdy, hard-side carrying case included.

SPECS: Steel, aluminum housing with synthetic rubber cover, and high-impact plastic handle. 7 1/2" (18cm) length overall. Hand Grip - 6 1/2" (15.6cm) long, 2" (5cm) wide. Adjustable 10 - 70 in.-lb., 1 in.-lb. increments. Socket adapter and injection-molded carry case included.

#080-000-515AQ Adj. Torque Handle, only, 8K119J99 \$ 149.99



BROWNELLS

MAGNA-TIP® PRESET TORQUE DRIVER

Protects Screw Heads From Damage Caused By Over-Tightening

Every time you reach for one of these drivers, you'll be able to apply the exact amount of tightening force you need consistently and repeatedly—no adjustments, no settings to change. Available in 15, 25, and 45 in.-lb. settings, this driver features a self-limiting clutch that stops tightening when the preset torque level is reached. Prevents over-tightening that causes stripped threads, broken-off screw heads, and other damage that comes from applying too much force. Perfect for high-volume, frequently performed tasks where you need to apply the same torque force over and over again. The hardened stainless steel shank transmits all the energy evenly to the screw, while the magnetic bit socket accepts any Magna-Tip bit we sell. Tear-drop shaped polymer handle with rubberized gripping surface ensures a comfortable, consistent grasp.

SPECS: Shank - Hardened stainless steel, natural silver finish. Handle - Reinforced molded polymer, blue, and synthetic rubber, black. 4 1/2" (11.4cm) OAL, 3 1/2" (8.9cm) wide handle.

#080-000-640AQ Magna-Tip Torque Driver, 15 in.-lb., 8K24L78 \$ 29.99
 #080-000-641AQ Magna-Tip Torque Driver, 25 in.-lb., 2B24F78 29.99
 #080-000-643AQ Magna-Tip Torque Driver, 45 in.-lb., 2B24E78 29.99



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 accommodate different vision preferences. Tactical fits Picatinny rails, has black and green stripes, and is taller to match taller rings typically found on Tactical Rifles. **■**



#100-011-731AQ Segway Reticle Leveler MK-III, 8F18B50 \$ 21.99

#100-013-054AQ Segway Tactical Reticle Leveler, 8F18N50 21.99

AIMSHOT

LASER BORESIGHTER

Easy, Fast, Accurate Way To Hit Where You Aim



Advanced boresighting system projects a bright red laser dot precisely aligned with the centerline of the bore for sighting in scopes, red dots, and "iron" sights, quickly and easily.

Just insert the boresighter into the chamber, close the action, and aim at a target 25 yards away. Adjust windage and elevation of scope or sights to align with the laser dot on the target. Permanently calibrated at the factory to project a 1.5" diameter dot at 100 yards. Separate, interchangeable "arbors" slide over the basic laser unit for sighting in other calibers without buying a whole new boresighter—a substantial cost savings. .223 boresighter accepts arbors for a variety of rifle calibers and 12 gauge shotgun; .30 Carbine boresighter accepts arbors for .38 Special/.357 Magnum and .45 Long Colt. Precision machined brass housing won't mar the chamber and helps ensure a tight fit. Boresighter includes instructions and nylon storage case with room for 9 arbors; arbors sold separately.

SPECS: Machined brass. Boresighters - Red laser, 645 nm, 5mW. 15-100 yards sighting range. 1.5" dot size at 100 yards. Includes (3) LR-41 batteries for .17 HMR, .223, 9mm; (4) 1626 batteries for .30 Carbine. Battery life: 20 minutes continuous on. 9mm Boresighter fits 9mm Luger only. .223 Boresighter fits .223 Rem/5.56mm NATO; required for .243, .30-06, .50 BMG, 12 gauge arbors. .30 Carbine Boresighter fits .30 Carbine; required for .38 Special/.357 Magnum and .45 Long Colt arbors. .243 Win Arbor also fits .308/7.62mm NATO, 8mm Mauser, 7mm-08, .260 Rem, 7.62 x 54mm, 7mm STE, .358 Win., .444 Marlin. .30-06 Arbor also fits .25-06, .270 Win., .280 Rem, 8mm-06, .338-06, and .35 Whelen.

#100-004-790AQ .223 Rem Boresighter, 9C24M00 \$ 29.99
 #100-004-789AQ 9mm Boresighter, 9C24Q00 29.99
 #100-004-791AQ .30 Carbine Boresighter, 9C30J51 39.99
 #100-004-792AQ .243 Arbor, 9C7P50 8.99
 #100-004-793AQ .30-06 Arbor, 9C7F50 8.99
 #100-004-794AQ .38/.357 Arbor, 9C7L50 8.99
 #100-004-795AQ .45 Long Colt Arbor, 9C7I50 8.99
 #100-004-796AQ .50 BMG Arbor, 9C12L60 14.99
 #100-004-797AQ 12 Gauge Arbor, 9C10N30 11.99

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brownells.com

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**BUSHNELL
BORESIGHTERS**



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 yards. 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. **Standard** model features 15 steel arbors that fit bores ranging from .177 to .50 caliber, including popular metric calibers, to provide precise alignment with the collimator for extremely accurate sight adjustment. Roll-up storage case easily fits in your range bag or tool box. **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. 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 - 4 3/4" (12cm) long. Inserts - Steel, 3 3/4" (9.5cm) long. Case - Vinyl, black, 3 1/4" (8.2cm) diameter x 5 1/2" (14cm) wide, rolled up. **Professional** contains 3 adjustable inserts: .22 to .270, 7mm to .35, and .35 to .45 calibers. Inserts - Steel, expandable, 4 1/2" (11cm) long. Collimator - 4 3/4" long. Case - Vinyl covered, hard sided, black, 5-3/8" (13.6cm) long x 2-1/8" (5.4cm) wide, 3 1/2" (9cm) high. Magnetic - Collimator - 3 1/4" long. Case - Cloth, black.

#593-000-053AQ Standard Boresighter, 2B71Q56 \$ 81.99
#593-000-052AQ Professional Boresighter, 2B94E00 105.99
#593-000-051AQ Magnetic Boresighter, 2B37Q30 42.99

NEW!

**SIGHTMARK
LASER BORESIGHTER**



Chamber-Mounted Laser Helps You Sight In Rifle Or Pistol Without Firing A Shot

Easy-to use bore sighting system fits in the chamber of your rifle or pistol and projects a powerful red laser beam aligned with the bore axis for sighting to the point of aim without firing a shot. Works with scopes, holographic red dot sights, and "iron" sights. 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. Bore sighter 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.

#100-004-011AQ .223 Rem Laser Bore Sighter, 8A25P99 \$ 30.00
#100-004-014AQ 7mm Rem/.264 Win. Laser Bore Sighter, 8A25C99 30.00
#100-004-013AQ .30-06 Laser Bore Sighter, 8A25P99 30.00
#100-004-015AQ .308 Laser Bore Sighter, 8A25I99 30.00
#100-014-688AQ .300 AAC Blackout Bore Sighter, 8A30Q51 39.99
#100-004-012AQ 7.62x39 Laser Bore Sighter, 8A25H99 30.00
#100-004-016AQ 9mm Luger Laser Bore Sighter, 8A25D99 30.00
#100-004-017AQ .40 S&W Laser Bore Sighter, 8A25L99 30.00
#100-004-018AQ .45 ACP Laser Bore Sighter, 8A25C99 30.00

**SWEANY
SITE-A-LINE BORESIGHTER**



Instant, Accurate Bore Sighting For Iron & Optical Sights

Pays for itself in sight-in time and ammunition saved. Diagonal, crosshair reticle and parallel-adjusted optics provide a simple, accurate method to set the sighting plane on any firearm parallel to the bore axis. Chrome-plated, precision-ground spuds with bronze springs. **SPECS:** 4 1/4" (10.8cm). Tapers from 1.7" (4.3cm) to 1" (2.5cm) dia. Kit includes Bore Sighter and 16 spuds in a fitted styrene box. Bore spuds for calibers not listed available on special order basis. *Indicates Bore Spuds included in Site-A-Line Kit. H indicates handgun, R indicates rifle, A/G indicates airgun.

#034-100-000AQ Site-A-Line Kit, 4C240I00 \$ 345.00

STOCK #	DIAMETER	FITS
#034-100-167AQ	.167"	.17 Rem
#034-100-173AQ	.173"	.1775 A/G
#034-100-001AQ	.199"	204S
#034-100-215AQ	.215"	22 H/R
#034-100-217AQ	.217"	22 R
#034-100-235AQ	.235"	243 R
#034-100-255AQ	.255"	264 R
#034-100-269AQ	.269"	270 R
#034-100-275AQ	.275"	7mm R
#034-100-299AQ	.299"	30 R
#034-100-329AQ	.329"	338 R

— Advise # — Sweany Bore Spud, 4C10Q99 **\$ 15.99**

SWEANY M16/AR-15 BORE SPUD - Extra length and height. 5" (12.7cm) long, 1 1/8" (9cm) high. Aluminum block, steel spud.

#034-100-016AQ M16/AR-15 Spud, 4C28F99 \$ 39.99

LONG BORE SPUD - For .22 caliber rifles equipped with muzzle brakes or flash suppressors. 5 1/2" (14cm) long, .217" diameter.

#034-103-217AQ Long Bore Spud, 4C14L49 \$ 20.99

EXTRA-LONG BORE SPUD - 8" (20cm) long to clear flash suppressor on M14/M1A and other .30 caliber rifles.

#034-103-298AQ .298" Extra Long Bore Spud, 4C15M49 \$ 20.99

**ALLEY SUPPLY
COLLIMATOR EXTENSION**



Bore Sight "Tall" Scopes Easily

Gets the boresighter up high to align the scope on guns with see-through rings or integral mounts (like the AR-15) that sit high above the bore. "V"s give a range of 1" to 2 1/2" between the bore and collimator spuds. Accepts Sweany, Redfield or Tasco spuds. **SPECS:** Aluminum body, brass and steel screws. 3 1/2" (9.7cm) long, 1" (2.5cm) wide, 1/8" (22.2mm) thick. Weighs 4 oz. "V" spacings of 1", 1 1/8" (3.5cm) and 2 1/8" (6cm). Does not accept Bushnell spuds.

#034-101-000AQ Collimator Extension, 4C24C99 \$ 34.99

**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 collimator 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. **SPECS:** Elevator Block - Aluminum. 1 1/4" (4.5cm) long, 3/4" (1.9cm) wide, 1 1/4" high. Elevation Shaft - Stainless steel. 1/4" (6.3mm) diameter. Elevation Arm - Aluminum. 3/4" (9.5mm) diameter. Includes instructions.

#100-002-512AQ Collimator Elevator, 5A89Q99 \$ 89.99

BROWNELLS

MILITARY WEAPON TAKEDOWN TOOL



Dozens Of Uses In Field Stripping A Variety Of Military Firearms

Handy steel tool eases the task of field stripping a variety of military weapons, including the AR-15/M16/M4, M14, and L1A1 rifles, as well as the M2 and M240 machine guns. Use the pointed end to remove pins, retainers, clips, and other subassemblies—much easier than using the tip of a cartridge. The other end can serve as a slot-tip screwdriver or pry bar. Deeply knurled handle won't slip and has a solid feel in the hand; adjust handle position by loosening the two hex head screws. Dozens of uses on the workbench and in a field tool kit. **SPECS:** Steel, black oxide finish. 7 1/4" (18.4 cm) long.

#080-000-580AQ Military Weapon Takedown Tool, 8K21100 \$ 29.95

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 guides on the rear of the boresighter to center it on the muzzle, and switch on. Aim at a target 20-30 yards away, and adjust windage and elevation of the scope or sights so point-of-aim 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.

#100-004-010AQ Universal Laser Bore Sighter, 8A33A99 \$ 40.00

SITE-LITE

LASER BORESIGHTER



Gets You Close To Point-Of-Aim Without Firing A Shot



Saves range time and ammo; highly accurate laser system lets you zero your scope to point-of-aim at 100 yards, before you go to the range. Quick and easy to use, just place the special laser target 25 feet away and aim the laser at it, then adjust the scope till the crosshairs align with the target. 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 Bore Sighter'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 635nm laser for better visibility in bright, ambient light conditions. **SL-500 Ultra-Mag**

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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** - 6 1/2" (15.6cm) OAL without adapter, 4 1/8" (10.5cm) long spud. Uses (2) #357 LR-44 batteries, included. **SL-150** - 6 1/8" (16.8cm) OAL, 4 1/4" (10.8cm) long spud. Uses (1) CR2 lithium battery, included. **SL-500** - 7 1/2" (19.1cm) OAL, 4 1/4" long spud. Projects a green sighting dot. Uses (1) CR123 lithium battery, included. **SRL-100** - Includes calibrated laser target, bubble level, and instructions.

#100-000-843AQ SL-100 Laser Bore Sighter, 8K93B27 \$ 116.60
#100-002-429AQ SL-150 Ultra-Mag Laser Bore Sighter, 8K134N16 166.99
#100-004-085AQ SL-500 Ultra-Mag Laser Bore Sighter, 8K202I63 249.99
#100-002-430AQ SRL-100 Reticle Leveler, 8K20N27 25.95

NEW!

TAPCO AK-47 AK VISE BLOCK

Holds Rifle Securely For Work Or Repair



Hard polymer composite block locks into Kalashnikov magazine well, so you can mount the rifle into a bench vise for work, repair or upgrades. Upper geometry replicates AK-47 magazine dimensions for secure, no-wobble fit. Lower part is beefy to give vise jaws good purchase. Hang hole lets you store the block on a shop peg board. **#100-013-725AQ AK Magazine Vise Block, 5A11K49 \$ 12.99**