# BROWNELLS TOOLS FOR REMINGTON 870, 1100 & 11-87 -



With the help of the fine folks at Remington, the armorer and gunsmith can now have a kit with tools we have adapted from factory designs for repairing and maintaining what has probably become the world's most popular pump shotgun-the Remington 870. Special thanks has to go to the entire Remington organization for recognizing the importance of proper tools to the gunsmith. This tool kit makes it easier for the armorer or gunsmith to repair the 870 at the bench or in the field. Even though some of the tools may seem like overkill, keep in mind that the designs are based on the factory's years of experience and are intended to stand up to constant use. Whether you're a department armorer or a civilian gunsmith who sees only sporting 870s, you''ll have the right, factory-type tools to take apart an 870, make the repairs, and put it back together. Your satisfaction is guaranteed.

	Brownells 870 Service Kit, Complete	#080-870-010AT
\$ 359.99	With Tool Box, 8K326I31	
	Brownells 870 Servce Kit, Tools only	#080-870-001AT
339.99	(no box), 8K310D75	

(1) **<u>870 FOREND WRENCH</u>** - Pilot keeps "teeth" square to the forend nut, virtually eliminating damage to wrench, forend or forend nut. 12 gauge only.

#080-870-202AS 870 Forend Wrench, 8K39D61 ......\$ 50.99

(2)870 DETENT STAKING PUNCH - Stakes the magazine cap retainer without forcing metal into the I.D. of the magazine ring. #080-870-205AS 870 Detent Punch, 8K16Q08......\$ 20.99

(3) 870/1100 MAGAZINE SPRING RETAINER TOOL - Guides springs into position without damage.

#080-187-203AS Spring Retainer Tool. 8K35B88..... \$ 43.99

(4) 870/1100 PIN PUSHER - Fitted punch removes trigger group pins with no chance of slipping off and gouging the frame. #080-870-110AS Pin Pusher, 8K16G07..... \$ 19.99

REMINGTON 870 RIVET STAKING TOOL SET - Makes fitting the 870 ejector spring and housing onto Remington's 2-step rivet easy! Fastens the ejector housing to the lower portion of the rivet, then fits the upper part of the rivet to hold the ejector spring in the eiector housing.

#080-612-000AS Rivet Stake Tool Set, 8K23J23......\$ 29.99

(6)6(7) 870/1100 SHELL LATCH STAKER - Our tool has the correct, factory designed, rectangular swaging point to displace plenty of metal and a built-in handle, plus lots of heft to take years of use. Includes clamp to hold ejector spring and housing secure when restaking.

#080-870-203AS 870/1100 Shell Latch Staker. 8K59A31.....\$75.99

BROWNELLS. PAGE 470

Factory-Type Tools For Armorers & Gunsmiths; The Right Tools For 870 Work - Add-Ons Available For The 1100 & 11-87

(8) STARRETT PIN PUNCH - Correct size for removing the Firing Pin Retaining Pin from the bolt assembly. #827-525-800AS Starrett Pin Punch, 8K5K99......\$ 5.99

(9) 870/1100 BUTTSTOCK BOLT WRENCH - Special sleeved, self- centering bit can't slip off or jam between stock and bolt head.

#080-870-200AS 870/1100 Buttstock Wrch. 8K88G86.....\$101.99

(10) 870/1100 SCREWDRIVER SET - Our special Law Enforcement, MAGNA® Clip-Tip handle with 5 bits specific to 870 work. #080-088-870AS 870/1100 Screwdriver, 8K16E97.....\$ 19.99

(1)REMINGTON 870 OWNER'S MANUAL - Not Shown here. Factory 22 page manual has full instructions on safety, parts identification and assembly, loading/unloading, cleaning, plus an exploded view drawing and full parts list. Available as a download from Brownells.com.

(12) <u>1" NYLON/BRASS HAMMER</u> - The Brass head and 6 oz. weight is perfect for driving the various punches supplied in the rer's Kit. Nylon head provides a non-marring "tan "

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follows the Slave Pin through and into place. #080-870-204AS Carrier Pivot Slave Pin, 8K10E69.....\$ 12.99

(18) 870 SERVICE KIT BOX - Roomy, Field Tool Box with the distinctive 870 Service Kit label. Holds all the Kit tools easily, with room left over for personal favorites. Oil and solvent-proof.

#080-870-303AS 870 Armorers Kit Box, 8K12M49.....\$ 16.99

#### 1100/11-87 TOOLS (MUST BE PURCHASED SEPARATELY)



INTERCEPTOR LATCH SPRING REMOVER - Use to push back the swaged metal holding the Interceptor Latch Spring in place. SPECS: 63/4" (17.1cm) long. 3/8" (9.5mm) wide. Steel.

#080-187-202AT Interceptor Latch Spring Remover, 8K21K35.....\$24.99

# **BROWNELLS** TACTICAL SHOTGUN FIELD MAINTENANCE PACK

anywhere kit contains all the essential tools needed to disassemble,

maintain, and repair today's common tactical and law enforcement

shotguns. Not a run-of-the-mill cleaning kit with generic tools,

but a set of carefully selected, high-quality armorer tools designed

to perform specific tasks on Benelli, Mossberg 500/590/835, and

Remington 870/1100/11-87 shotguns. You'll have the exact tool you

need at your fingertips, without scrounging through a case full of

drive, T-handle, and extension with 1/2" socket, drag link, Rem 870 butt-

stock bolt socket, and 11/16" socket for current-production Rem 1100/11-87

action spring tube nut; nylon/brass hammer; nylon bench block; 6" chain

nose pliers: 1/16" and 3/32" starter punches and pin punches: packing hook:

12-gauge shotgun Bore Snake®; 1/4 oz. (7.4ml) Friction Defense® gun oil;

and double-ended parts cleaning brush. Case - 1000 denier Cordura®

nylon, O.D. green. 11142" (29.2cm) long, 81/2" (21.6cm) high, 3" (7.6cm) thick.

6" CHAIN NOSE PLIERS - Just the right size to reach in and squeeze

the Link connecting the Action Spring Follower and Action Bar As-

#191-103-360AT 6" Chain Nose Pliers, 1A14J47......\$ 15.99

.060 X 21/2" BROWNELLS REPLACEABLE TIP PIN PUNCH - Fits

Carrier Latch Pin to push it all the way through, plus works as align-

1100/11-87 GAS RING BRUSH - Heavy, stainless steel, bristled

brush gets fouling out of gas ring steps. Solvent-proof handle.

Maintenance Pack, 8K295K39..... \$ 312.99

#080-000-583AT Brownells Tactical Shotgun

sembly together for removal.

ment pin for reassembly.



Complete, Dedicated **Tool Kit For** Maintenance & Repair Of Law Enforcement Shotauns

Compact, go

# BROWNELLS STUCK CHOKE REMOVAL TOOL

#### No-Nonsense Tool Removes **Frozen Chokes**

Originally designed for metal workers and mechanics to re-

move stuck bolts, these heavy-duty extractors bite into the metal for extra traction so you can apply the force needed to remove a choke that refuses to budge with ordinary tools. Available for 12 and 20 gauge. Complete instructions included. Caution: muzzle damage can result if used incorrectly.

SPECS: Tool steel, black oxide finish, 12 Ga. – 4 <sup>7</sup>/<sub>8</sub>" length, gripping surface tapers from  $\frac{9}{16}$  to  $\frac{27}{32}$ . 20 Ga. –  $4\frac{1}{2}$  length, gripping surface tapers from 1/2" to %16"

#587-036-968AT Stuck Choke Removal Tool, 12 ga., 8K8K22 .....\$8.99 #587-036-967AT Stuck Choke Removal Tool, 20 ga.

8K6H34 ..... 6.99

# BROWNELLS ALL DIAMETER SHOTGUN SIGHT INSTALLER

Screwdriver Handle Gives You Added Control; Spring Steel Collet Is Gentle On The Softest Aluminum



Headache-saving tool includes an adjustable, spring steel collet that positively and delicately holds the globe of the sight for easy, damage-free installation. The spring steel is gentle on the sight beads, plus stands up to repeated use for a long service life. A Brownells screwdriver handle improves your control to tightly screw in the sights without damage to them or the barrel. Available in Small and Large to accommodate practically any sized sight bead.

SPECS: Plastic handle, spring steel collet. Small - 1" (2.54cm) diameter handle. Installs sight beads with diameters between .050" (1.3mm) to .125" (3.2mm). Large - 17/64" (2.82cm) diameter handle. Installs sight beads with diameters between .115" (2.9mm) to .188" (4.8mm).

	Small All Dia. Sight Installer, 8K17N67\$1	9.99
#080-000-094AT	Large All Dia. Sight Installer, 8K21F56	4.99

# BROWNELLS SHOTGUN BEAD FACING CUTTER



**Trims Away That Last** "Whisker" For A Squared-Up Sight Installation

Faces-off the base of "Brad-

ley"- style (Bev-L-Blok, Raybar, Sunspot, etc.) beads so they end up straight and square to the center of the rib or barrel when tightened. Turning the handle trims base of the bead at a true 90° angle to the shank 💻

SPECS: Six blade cutter, high speed steel, 31/2" (8.8cm) long, 11/8" (2.8cm) diameter handle.

STOCK #	HOLE DIAMETER	FITS SHANK
#080-517-003AT	.099"	#3
#080-517-006AT	.140"	#6 STD.
#080-517-106AT	.149"	#6 Oversize
#080-517-008AT	.166"	#8



# Office/Tech: 641-623-5401



**No-Mar Installation With** A Minimum Of Breakage

The "clean" installation of aluminum or brass shotgun sights has always been one of the bug-aboos of the gunsmithing profession. The Shotgun Sight Installer exactly fills the need for a truly precision instrument with which to install a shotgun bead without a mark - satisfying even the most particular gun man. The holding jaws are internally ground and lapped to give maximum holding surface on Lg Alum. Sight the globe of the sight without marring or damaging the metal. Priced at a level any gunsmith can afford, yet will give a lifetime of service.

SPECS: Available in aluminum or steel. Set contains one of each size. Three sizes: Lg. .175"; Med. .130"; or Sm. .067".

#080-790-175AT	Lg Alum. Sight Installer, 8K7M44	\$ 9.99
#080-790-130AT	Med Alum Sight Installer, 8K7B25	9.99
#080-790-067AT	Sml Alum Sight Installer, 8K7M56	9.99
#080-791-175AT	Lg Steel Sight Installer, 8K6C49	7.99
#080-791-130AT	Med. Steel Sight Installer, 8K6F26	7.49
#080-791-067AT	Small Steel Sight Installer, 8K6J49	7.99
#080-790-000AT	Set Aluminum Installers, 8K19I45	24.99
#080-791-000AT	Set Steel Installers, 8K16E71	19.97

# **BROWNELLS** REMINGTON 870/1100 4-IN-1 SCREWDRIVER



The Right Bits For These Popular Guns

Handle with 4 bits to fit magazine extension bracket,

Installer

buttplate screws, recoil pads, factory folding stocks, pistol grips. SPECS: 51/2" (14cm) overall. 1" (2.5cm) diameter handle.

#080-088-870AT 870/1100 Screwdriver, 8K17L28.....\$ 19.99

# BROWNELLS **STOCK TAKEDOWN SET**

All The Tools Needed **To Prevent Split Stocks** 

The very best possible tools for removing most styles of buttstock bolts and action spring tube nuts. The thin-walled sockets are correct to prevent slipping and burring. The drag-link bit is round at the drive end, which automatically centers the blade in the stock bolt hole and makes fitting it into the slot about 1,000

times easier!! Plus, they work for other shop jobs, too. SPECS: Set - Includes T-handle, 9" (22.9cm) drive extension, (5) 3/8" (9.5mm) drive sockets, and drag link bit. Sockets & Drag Link - Includes all (5) drive sockets and drag link bit. 

#080-809-000AT	Stock Takedown Set, 8K95K82	\$ 107.99
#080-027-000AT	T-Handle, 8K38N29	39.99
#080-212-010AT	9" Extension, only, 8K21C72	24.99
#080-212-006AT	6" Drive Extension, 8K16Q62	17.99
#080-809-001AT	Sockets & Drag Link, only,	
	8K55N26	72.39

#### **BROWNELLS** REMINGTON $\bigcirc$ 870/1100 PIN PUSHER

#### Pocket-Sized; Prevents Scarring Action

Fitted punch removes trigger group pins guickly and easily with no chance of slipping off and gouging the receiver as with ordinary flat punches. Tough, black plastic handle won't mark or mar either. Convenient, pocket-size. SPECS: 63/8" (16.2cm) overall. 25/8" (6.7cm) punch.

#080-870-110AT Pin Pusher, 8K16C07..... \$ 19.99

# VANG COMP SYSTEMS REM 870/1100/11-87 SILVER BULLET

#### Easily Remove Trigger Pins Without Receiver Damage

Convenient, pocket-sized tool easily removes trigger pins without marring or scraping the receiver. CNC machined from stainless steel with a pointed end for pushing out dimpled pins, plus a 3/16" diameter step on the opposite end for removing the larger pins. SPECS: Stainless steel, natural finish. 3" (7.6cm) long. Fits Rem 870/1100/11-87

#100-003-626AT Silver Bullet, 6K10H84.....\$11.95

## WILLIAMS SHOTGUN BEAD DRILL FIXTURE

Automatically Centers On The Rib For Straight, Great-Looking Beads, Every Time

long-wearing, hardened drill bushing in the exact center of the rib every time. Puts an end to off-

(22.2mm) diameter x 15/8" (4.1cm) long.

Includes #45 (3-56) and #31 (6-48) drill bushings

#962-368-990AT S/G Bead Drilling Fix., 2F68E80 ..... \$ 74.99

BROWNELLS

SHOTGUN BUTTSTOCK BOLT BITS

SPECS: 870 is 3/4" (19.0mm) diameter x 11/2" (3.8cm) long. 1100 is 7/8"

#080-870-201AT 870 Buttstock Bit. 8K20L81..... \$ 22.99

#080-187-201AT 1100 Buttstock Bit, 8K20F81...... 23.99

#080-212-006AT 6" Drive Extension, 8K16Q62...... 17.99

www.brownells.com

No-Wedge Bits For 3/8" Drive Tools;

For Remington 870 & 1100

ington 870 and 1100 buttstocks per-

fectly; can't wedge between stock bolt

and wood. Use with 6" long, 3/8" drive ex-

tension and T-handle listed below.

Self-auidina, sleeved bits fit Rem-

# **BROWNELLS** WINCHESTER MODEL 12 **FOREND WRENCH**

## Loosens Without Damage

Machined and hardened tips provide excellent grip and prevent damage to rusted or stubborn end caps. Can be used by hand or clamped in smooth-jawed vise for extra leverage. Fits all Winchester Model 12's in 12, 16 and 20 gauge, including the Browning Reproduction in 20 gauge. SPECS: Machined from carbon steel, blued finish. 7" (17.8cm) long, 11/4" (3.2cm) wide. Tips are hardened to Rc 45-50.

#080-548-212AT Model 12 Double-Ended Forend Wrench, 8K29I88 ..... \$ 35.99

**ROBERT LOUIS CO.** SHOTGUN COMBO GAUGE Gun and rest not included

#### **Gives You Precise Measurements For A Perfect Fit**

Lightweight, aluminum gauge measures length of pull, drop at comb and heel, and angle of pitch to give a precise fit. Units of measurement are in bold, easy-to-read numbers in both inches and metric for world-wide use. Measures length of pull to 24" and has an overall length of 29.5". With a length of 28", you can accurately measure drop. Optional 23" Magnetic Extension "glues" the Shotgun Combo Gauge to the rib or barrel using a magnet for handsfree operation. Extension adds 20" to steady the tool for easy drop measurement. Plastic protractor measures 180 degrees of pitch. 트 SPECS: Shotgun Combo Gauge - Aluminum. Overall length 28" (71cm) Magnetic Extension - Aluminum. Overall length 23" (58.5cm).

#100-002-154AT Shotgun Combo Gauge, 9A139K31 ... \$ 150.00 #100-002-155AT Magnetic Extension, 9A72Q87 ..... 79.00

# BROWNELLS REMINGTON/MOSSBERG **FOREND WRENCH**

Piloted To Prevent Stock Or Nut Damage

Wrench adapted from Remington factory design, with pilot that keeps "teeth" square to the forend nut, virtu-

ally eliminating damage to wrench, forend or forend nut. But, if one of the wrench teeth should ever break, turn the "sleeve" around, there's another set. Models for Remington 870 or Mossberg 500. SPECS: Steel. 12 Gauge - 63/4" (17.1cm) long overall. 5" (12.7cm) long handle. **20 Gauge -** 7% (20cm) long overall. 5" (12.7cm) long handle. Replacement Sleeve - 20 gauge only: sold 1 each

neplacement sieev	e - 20 gauge only, solu i each.	
#080-870-202AT	870 Forend Wrench, 8K25P80	31.74
#080-777-004AT	<b>12 Ga. 500 Forend Wrench,</b> <i>8K40B69</i>	50.99
#080-870-002AT	<b>20 Ga. 870 Forend Wrench</b> , 8K31G93	39.99
#080-777-008AT	<b>20 Ga. 500 Forend Wrench</b> , <i>8K30E05</i>	34.99
#080-777-009AT	<b>20 Ga. 500 Replacement Sleeve,</b> <i>8K14G76</i>	16.99

# **BROWNELLS** WINCHESTER MODEL 12/1897 FOREND WRENCH

Modernized Tool For A Grand **Old Shotaun** 

Re-designed and beefed up through the tips for greater strength to remove even the

most stubborn Model 12/1897 Forend Caps. Tips are extra wide to give solid contact the full width of the slot, and have enough thickness to retain strength even after being reground to fit any extra narrow slots that you may come across. Designed by working gunsmiths for working gunsmiths, and shop-proven over a lot of years. Flat enough to go into your pocket for emergency field repairs. Fits 12 ga. only. 💻

SPECS: 2" (5.10cm.) wide x 5" (12.7cm) long overall. #080-548-012AT Model 12/1897 Forend Wrench,

\$ 26.99 8K22G96.....

# **GUN RUNNERS** SHOTGUN FOREND WRENCH

**Takes The Forend Nut Off** Without Removing The Forend

Steel handle on a double-ended steel socket that lets you take the

forend-retaining nut off without damaging, or taking the forend off the gun. Separate 12, and 20 gauge wrenches fit Remington 870. Browning BPS, Ithaca 37 made since 1981, Mossberg 500, Winchester 1200/1300. 🎫

SPECS: Steel, black oxide finish. 12 ga. - 6" (15.2cm) long. Large End -1.32" (3.3cm) outside diameter. Small End-1.2" (3cm) outside diameter. 20 ga. - 6" (15.2cm) long. Large End - 1.3" (3.2 cm) outside diameter. Small End – 1.1" (2.7cm) outside diameter.

#634-000-023AT 12 Ga. Forend Wrench, 4C26Q12.... \$ 28.99 #634-000-024AT 20 Ga. Forend Wrench, 4C25J30.... 28.99



Internal taper on the sleeve guides spring into position with-

out damaging spring, gun or yourself. (Especially critical with new-production heavier springs.) Fits all Rem. 870 and Pre-'87 1100s. SPECS: 7" (17.8cm) long overall, 11/4" (3.7cm) diameter plastic handle. Retainer sleeve has 1.08" (2.7cm) I.D.

#080-187-203AT Spring Retainer Tool, 8K35Q88 ..... \$ 43.99

# **BROWNELLS** REMINGTON 870 DETENT STAKING PUNCH

Hardened Steel For Long Service Life

Cut-away punch restakes the magazine cap retainer (detent ball) in place without forcing metal into the I.D. of the magazine ring. SPECS: Hardened tool steel. 31/4" (8.2cm) long. 1/4" (6.35mm) dia. #080-870-205AT 870 Detent Punch, 8K16A63 ...... \$ 20.99



# **NEW PRODUCTS ADDED DAILY**

order on the web

brownells.com

Orders/Tech: 800-741-0015

# On The Bench Or In The Field:



center, crooked sight beads.

SPECS: Steel, blued. Approximately 3" (7.6cm) long, 21/2" (6.3cm) wide

SPECIALTY SHOTGUN TOO 5

# BROWNELLS SHOTGUN MAINSPRING TOOL

**Stop Fighting With** Stubborn Mainsprings

Specially designed tool shortens the time and eliminates the frustration that goes along with changing mainsprings in double barrel shotguns. Notched, blade tip captures the plunger head so you can compress the spring and lift both parts free from the receiver. No more scratching and gouging the plunger or inner receiver surfaces with an ordinary screwdriver. Tool works equally well for installation - simply seat the end of the mainspring in the receiver, hook the blade notch around the plunger head, compress the spring, and engage the plunger in the hammer. Stout, hardened steel shank provides plenty of leverage and keeps you close to your work for maximum control.

SPECS: Shank - Steel, hardened to Rc 58-60. 11/2" (6.3cm) x 5/16" (7.9mm) dia. Handle - Plastic. 33/4" (9.5cm) x 1" (2.5cm) dia.

#080-000-114AT Shotgun Mainspring Tool, 8K12D68 .. \$ 14.99

# **TRACK OF THE WOLF** MAINSPRING VISE

THE OWNER WATCHING THE OWNER

Compresses "V" Springs Effortlessly

New improved design makes it much easier to compress tough mainsprings with two rotating, adjustable jaws that screw down securely. Adapts to angle of

spring, spreads compression evenly over the entire spring area and is perfect for installing "V" springs in shotguns and muzzleloaders. Wide turnkey allows you to use your thumb and index finger to really squeeze tough springs down without the need for makeshift tools. SPECS: Steel, in-the-white

#870-000-001AT Mainspring Vise, 7H21H01 ...... \$ 21.99

#### BROWNELLS D MAGAZINE TUBE DENT RAISER Fits 12 & 20 Gauge

Slides into 12 or 20 gauge magazine tubes to quickly remove dents. Grooved to clear "tabs" on 1100 Special Field and 11-87 with new-style magazine spring retainer. Will not work on Mossberg magazine tubes. SPECS: Steel. 8<sup>3</sup>/<sub>4</sub>" (22.2cm) long tool. Handle adds 11" (27.9cm).

#080-870-206AT 12 Ga. Mag Tube Dent Raiser, 8K66A05 ..... \$82.99 #080-870-207AT 20 Ga. Mag Tube Dent Raiser, 8K43C43 ..... 49.07

# XS SIGHTS 870/1100/11-87 REMINGTON MAGAZINE TUBE DETENT SWAGE

Quickly Remove Shotgun Magazine Tube Dimples Without Drilling

Steel tool fits into magazine tubes on Remignton 870/1100/11-87 shotguns and helps remove the dimples or detents to allow addition of magazine extension. Eliminates need to drill out dimples, and prevents unsightly holes that allow entry of dirt and debris. Swage is specially-shaped to prevent it from slipping all the way down into the magazine tube. Comes with instructions and requires use of mallet, not included. 💻

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**#006-000-119AT** Remington Magazine Tube Detent Swage, 6K31/01..... \$ 35.99

#### MAGAZINE TUBE/CAP PLIERS 0



Puts an end to gouged, scratched and ruined magazine tubes and caps. These slip-joint pliers adjust to fit them all and the curved, cushioned jaws grip tight without marring. Extra long for good turning leverage. Pads are replaceable.

SPECS: 91/4" (24.3cm) long. Steel. 101/2 oz. (297.6q). Adjust from 1/2" (12.7mm) to 21/2" (6.3cm).

#915-529-100AT Mag Tube/Cap Pliers, 1A39Q99 ..... \$ 39.99 #915-529-305AT Mag Tube/Cap Plier Pads, pair w/pins, 9.99

#### BROWNELLS REMINGTON 870/1100 **SHELL LATCH STAKER** Based On The Factory's Preferred Design

Staking is required when installing a new latch or replacing one after rebluing the gun. Our tool has the correct, factory designed, rectangular swaging point to displace plenty of metal, a built-in handle, plus lots of heft to take years of use. SPECS: 9<sup>3</sup>/4" (24.7cm) x 1<sup>3</sup>/4" (4.4cm) x <sup>3</sup>/4" (19mm). Steel, hardened point.

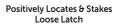
11/2 lb. (680 g). Replacement Swage Point sold 1 each. #080-870-203AT 870/1100 Shell Latch Staker

#000-070-203A1	8K62J38	5 75.99
#080-870-213AT	Replacement Swage Point, 8K12Q47	15.99

#### STROBEL REMINGTON 870/1100 0 **SHELL LATCH STAKING TOOL**

Loose Latch





Eliminates the need for a third hand while you restake a loose shell latch, or one replaced after refinish-

ing, without using a hammer. Tool holds the latch in place; an adjusting bolt precisely locates the latch; then just a partial turn of a wrench tightens the staking point for a nice, clean, stake. Works with the receiver upside down so you can see what is going on.

SPECS: Steel, parkerized finish. 3" (7.5cm) long. #634-100-870AT 870 Shell Latch Tool, 4C29H76..... \$ 34.99 #674 100 971AT Damis 

#634-100-871AT	Replacement Point,	4C4M99	4.99

0	MURRAY'S	VENT RIB TOOL
	Straightens Dented Vent Ribs	

Pulls out dented shot-

gun vent ribs in only minutes. Easy to attach, and guick to use. Brass bridge won't mark top of rib; steel jaws self-adjust.

SPECS: Bridge - Machined brass 3" (7.6cm) long, 1/4" (6.3mm) thick. Jaws Machined, hardened steel 1<sup>1</sup>/2" (3.8cm) long, <sup>1</sup>/2" (12.7mm) wide at widest noint

**#563-100-000AT** Vent Rib Tool, 3F49P99..... \$ 49.99

# **BROWNELLS** REMINGTON 870 **RIVET STAKING TOOL SET**



Two specially ground punches make fitting the

Takes The Pain Out Of

Fitting The 2-Step Rivet

870 ejector spring and housing onto Remingtons' unique 2-step rivet a snap! The hole in the face of the #1 tool allows you to fasten the elector housing to the receiver with the lower portion of the rivet. The #2 tool is then used to secure the ejector spring within the ejector housing with the upper portion of the rivet. Deluxe Kit combines the above two punches with an elector spring rivet cutter that lets you take off just the peened area of the front rivet. Often lets you re-peen the existing rivet.

SPECS: Punches - Hardened steel, blue finish, 2 punches, each 31/2 (8.8cm) long. Rivet Cutter - Steel shaft and hardened steel cutter. 21/2" (6.3cm) long, .31" (7.8mm) shaft diameter, .143" (3.6mm) cutter diameter. #080-612-000AT Rivet Stake Tool Set, 8K23F82.....\$ 29.99

#080-612-001AT Deluxe Staking Kit, 8K45F24 ...... 53.99

# **BROWNELLS** REMINGTON 870 **EJECTOR SPRING RIVET CUTTER**

Trims The Rivet Tip To Make Broken Ejector Spring Removal Simple

Hollow-end mill fits in drill press, spot faces the front rivet to take off just the peened area. Often lets you re-peen the existing rivet and eliminate rebluing the receiver.

SPECS: Steel shaft, hardened steel cutter. 21/2" (6.3cm) long, .31" (7.8mm) shaft diameter. .143" (3.6mm) cutter diameter

#080-000-040AT Ejector Rivet Cutter, 8K32K64..... \$40.99

# U-PORT-IT BARREL PORTING JIG

Quickly & Easily Drill Recoil-**Reducing Ports In Any Shotgun** 

Accurately drill recoil reducing barrel parts in the shop or on the range with only a hand drill. Universal clamping fixture adjusts to fit any barrel style, for accurate barrel porting. Two jigs allow drilling different size ports depending upon the user's preferences. Larger ports give more effective recoil reduction, however, smaller ports are aesthetically more pleasing. Each jig uses a removable bushing: Jig #1 has 35 bushing holes per side and uses a #40 drill bit; Jig #2 has 23 bushing holes per side and uses a #31 drill bit. The versatility of the jig permits you to lay out a variety of porting patterns. SPECS: Aluminum base blocks, black, anodized finish. Tool and base 51/4" (13.3cm) long. Jigs include Allen wrench, one bushing, two drill bits and detailed instructions.

#942-100-001AT Shotgun Porting Jig #1, 2D286A67...\$ 286.67 #942-100-002AT Shotaun Porting Jig #2, 2D286K99... 286.99



barrels of shallow ribbed doubles, locating pins can be driven back for extra high ribs. Built-in, hardened marking punch moves freely,



#### The Finest Professional Gunsmith Dent Raiser Made

We are pleased to be able to provide these beautiful, original pattern, British-made Hydraulic Dent Raisers. For the gunsmith, these Dent Raisers have proven to be one of the most sought after tools in our line. Few jobs are a greater challenge - or cause more customer concern - than removing a dent from a prize shotgun. To be able to remove such a damaging blemish with the ease, precision and perfection that this tool provides is gratifying beyond words. A tool you want to own ... A tool to cherish and care for. Not only will it make your customers happy, but it will also prove to be profitable for you at the same time! Actually, the dent raiser is a hydraulic jack of tremendous force with pressure controlled by the Allen screw in the handle. Because of the pressures involved, the best of steels and heat-treating procedures have been used in its production to ensure ease of maintenance and years of trouble-free use.

#### EASE OF OPERATION

Simple and easy to operate. Hold the tool along the outside of the barrel, lining up the small anvil in the head even with the center of the dent. Slide the collar flush against the barrel breech or muzzle (whichever end is closer to the dent) and lock the collar tightly into place. Now, insert the Dent Raiser into the barrel, bringing the collar flat against the end of the barrel and centering the anvil in the head directly under the dent. Gently turn the Allen screw in and watch the dent come up. When the dent is completely up (you must be careful not to bulge the barrel because the tool is so powerful), relieve the hydraulic pressure against the anvil by loosening the Allen screw. Re-apply pressure until resistance is just felt and you can turn the tool handle back and forth without too much pressure. Turn in the Allen screw and twist and burnish. Repeat until the dent is completely removed. No outside hammering or peening is required, so no hammer marks to polish out and no need to reblue the barrel. Just a fast, Professional job that will bring joy to your customer and fame and fortune to you! (NOTE: The Hydraulic Dent Raiser will not remove nicks/gouges in the steel that may have been caused along with the dent. Careful drawfiling and polishing can take care of most of these, and rebluing will be required - which your customer should understand.) Detailed operating instructions included. SPECS: 223/8" (56.8cm) long. 1" (2.5cm) dia. hardwood handle

#080-083-012AT	12 Ga. Dent Raiser,	8K385G89	\$ 467.99
#080-083-016AT	16 Ga. Dent Raiser,	8K385C89	467.70
#080-083-020AT	20 Ga. Dent Raiser,	8K385P89	467.70

DENT RAISER REPAIR KIT - Stop pressure loss and hydraulic leaks by replacing the critical seals and bleed screw in your English Hydraulic Dent Raiser. Kit includes one each, anvil and inner rod Óring seals, spiral anti-extrusion washer, and bleed screw. SPECS: 12, 16, and 20 gauge kits only.

#080-000-249AT	12 Ga. Dent Raiser Repair Kit,
	6A14H56 \$ 17.99

#080-000-250AT	<b>16 Ga. Dent Raiser Repair Kit,</b> 6A14L56.	17.99
#080-000-251AT	<b>20 Ga. Dent Raiser Repair Kit,</b> 6A14A56	17.99



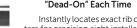
one end into barrel and open to maximum, measure other end with a mike or caliper. Made to extremely tight tolerances. SPECS: 61/2" (16.5cm) long #080-005-000AT Barrel Calipers, 8K52E36 ..... \$ 59.99

Office/Tech: 641-623-5401

SATISFACTION GUARANTEED **SINCE 1939** 

Instantly locates exact rib centers for precision sight installation on most shotguns. Bar rides across

D





#080-545-000AT Rib Center Finder, 9A12J83...... \$14.99



#### A Critical Measurement You Simply Can't Estimate

Reworking an improper chamber will reduce recoil, shot deformation, target or game-missing "free holes" and improve patterns. This is a service you should be offering. It is profitable . . . the guns need it ... and the shooters want it! The trapshooting customer will love you, the skeet shooter will offer to beat up your enemies and the hunter will swear you have performed a miracle on his old Bess! And, all you need are the Walker Gauges, the proper reamers, and the Instructions we furnish, to give guns the right chamber dimensions for modern, star crimped, plastic shells.

#### NOT JUST CHOKE ALONE

Most folks think the "right choke" has everything to do with pattern, recoil and performance. Choke is important, but the configuration of the chamber and forcing cone (the taper from chamber diameter to bore diameter) are of equal or more importance. All three must work together.

#### MILLIONS OF SHOTGUNS JUST WAITING

There are millions (!) of shotguns in use today with the obsolete "short" chambers and short, abruptly-angled forcing cones incapable of delivering a passable pattern without "free holes" when shooting modern, star-crimped shells.

#### **OBSOLETE CHAMBER**

Over the years, there have been a great variety of "correct depths" used, many of them shorter than  $2^{3}/4^{"}$  or 3" overall length of the fired cases of today's plastic shell. That crimp must have room to unfold completely flat when the shot and wad go from case to bore. Any little bit of case forced into their path because of a short chamber spells trouble with a capital "T". Couple this with a short Forcing Cone and the results are deformed shot, distorted patterns, torn hulls, excessive kicking and pressure.

#### GAUGE TELLS IT ALL

Use the Walker Chamber Gauge for three things: One, to check your work when doing a chamber job; Two, to identify obsolete, too-short chambers; and Three, to demonstrate to customers why their guns are not performing to full capabilities.

#### PROVEN ON THOUSANDS OF GUNS

The system was developed and proven by the late Ralph Walker, Selma, Alabama, gunsmith, writer and author, who had used it in his shop. The Instructions were written and illustrated by Ralph based on his successful techniques.

#### BONUS PROFITS FOR YOU

Before adjusting the fixed choke or installing screw-in chokes on a customer's gun, check the chamber with the Chamber Gauge. Do this while the customer is present. Explain what you are doing and why it is of great value. Also point out the advantages of the long forcing cone.

If your customer understands (and most will) and orders the chamber/long forcing cone job along with the choke adjustment, correct the chamber first and pattern the gun before doing the choke adjustment. The results you will get by following this technique can best be described as phenomenal.

The Gauges are machined and blued steel. Depth lines are readily seen. Each gauge is drilled and tapped 1/4" x 20" so you can use the optional handle listed, if desired. Sold individually or in Set of 6 (10, 12, 16, 20, 28 and .410 gauge) with the Handle.

# GALAZAN **KEY RING CHOKE GAUGE**

Reads Choke On Both 12 & 20 Gauge Gives a fast visual check of choke without using a caliper. Measures Cylinder through full choke. SPECS: Machined brass 23/4" (6.9cm) long.

#344-120-250AT Key Ring Choke Gauge, 4D19K57.... \$ 20.00

BRASS CHOKE GAUGE - Stepped, onepiece, brass gauge measures the choke of 12, 16, 20, 28 gauge and .410 shotguns. Easy-to-read markings clearly indicate Cylinder, Improved Cylinder, Modified, Improved Modified, or Full choke for fast, painless measurement. 📒 SPECS: Brass. 5" (12.7cm) long.

## #344-000-001AT Brass Choke Gauge, 4D38A24 ..... \$ 40.45

CHAMBER/CHOKE GAUGE - Compact gauges allow quick and easy identification of shotgun choke sizes and chamber lengths. Built from soft brass to help prevent scratching or marring the barrel and chamber. Stepped, one-piece, brass choke gauge with easy-to-read markings clearly indicates cylinder,

modified, and full choke on all 28, 20, 16,

12, 10 gauge and .410 bore shotguns. Includes a separate chamber length gauge that measures:  $1^{"}$ ,  $2^{"}$ ,  $2^{1}/2^{"}$ ,  $2^{3}/4^{"}$ ,  $3^{"}$ , and  $3^{1}/2^{"}$  length chambers. Folds together for compact storage.

SPECS: Machined brass. 4<sup>1</sup>/<sub>2</sub>" (11.4cm) long x <sup>13</sup>/<sub>16</sub>" (2.1cm) wide. Identifies cylinder, modified, and full choke. Measures 1<sup>\*</sup>, 2<sup>\*</sup>, 2<sup>\*</sup>/<sub>2</sub>" 2<sup>3</sup>/<sub>4</sub>", 3<sup>\*</sup>, and 3<sup>\*</sup>/<sub>2</sub>" length chambers. Fits .410bore/28/20/16/12/10 gauge.

#344-000-009AT Chamber/Choke Gauge, 4D44H74 .. \$ 49.99

# SHOTGUN CHOKE ALTERATIONS

One job that practically every gunsmith and hobbyist is asked to do is, "Can you open up the choke on my gun just a bit to adjust the pattern"? In most instances, the job had to be passed up, or the gun sent to an "expert", because tool costs were too high, and/or fully-illustrated, well-written instructions were not available. The impression left with your customer does not tend to build confidence in your abilities! Or make any money for you! Thanks to the clever ingenuity of the late Ralph Walker, an easy, simplified method of choke adjustment using Angle Blade Reamers, our Calipers and Barrel Hones is now available to the gunsmith. Costs are well within reach of anyone interested in doing the work. Instruction booklet has all the information with complete illustrations and data needed to do the job correctly and to your customer's most demanding satisfaction. Combine with a Long Forcing Cone job (listed elsewhere) and watch your customers really smile.

SPECS: 10, 12, 16, 20, 28 and .410 ga. Overall lengths vary from 3.75" (9.5cm) to 4.5" (11.4cm). Blued steel.

STOCK # GA/CHAMBER	STOCK # GA/CHAMBER		
#080-546-010AT 10 / 2 <sup>7</sup> /8", 3 <sup>1</sup> /2"	#080-546-020AT 20 / 23/4", 3"		
#080-546-012AT 12 / 23/4", 3" / 31/2"	#080-546-028AT 28 / 23/4"		
#080-546-016AT 16 / 2º/16", 23/4"	#080-546-410AT .410 / 21/2", 3"		
- Advise # - Brownell/Walker Chamber Gauge, each, 8K16G89 \$20.99			
#077-200-100AT Measuring & Rechambering Shotguns			

	Instructions, 6G00KRC	\$ .00
#080-546-000AT	Brownell/Walker Chamber Gauges, set of 6 w/handle. 8K82P99	92.00
#080-546-501AT	Chamber Gauge Handle, 8K12J93	15.99

# MANSON PRECISION REAMERS WALL THICKNESS GAUGE



#### Find Barrel Thickness & Concentricity Before You Try To Thread

Know exactly whether a customer's barrel has adequate wall thickness before accepting and machining it for screw-in chokes. Unique design allows the gunsmith to mount the instrument (not the barrel) in a bench-top vise for ease of use and fast, accurate measurements. Aluminum block with steel probe and gauge arm provide excellent stability and consistency. High-grade, Procheck brand, dial indicator measures to .001". Helps check barrel concentricity, too.

SPECS: Åluminum and steel, natural finish. 183/4" (47.6cm) long x 5 (12.7cm) high

#513-000-066AT Wall Thickness Gauge, 3A115D56... \$ 119.99

# **CSP PROFESSIONAL** SHOTGUN BORE MICROMETER SET



#### Gives You The Inside Story To .001" or .0001"

Measures bore diameter, choke constriction, chamber (except 10 ga. chambers) and forcing cone dimensions. Shows dents, bends and other imperfections. Very accurate, .001", direct-reading analog dial indicator, or .0001" digital readout indicator is mounted on 161/2" long shaft on which the appropriate gauge head is installed. Includes well-written instructions.

SPECS: Tool steel heads and gauging rings. Maximum measuring depth. 153/8" (39.0cm). Complete Sets include 4 heads (12, 20, 28, .410 - NOT 16 ga.), 4 gauging rings, dial or digital indicator, shaft, fitted wood case, and instructions. 16 Gauge Bore Micrometer Head includes 1 head and

#365-001-000AT	Complete Dial Bore Micrometer Set, 5F576F80 \$589.99	)
#365-099-000AT	Complete Digital Bore Micrometer Set, 5F788G03	)
#365-200-016AT	16 Gauge Bore Micrometer Head,	

## CLYMER "BACK-BORE" REAMER

order on the web

brownells.com

Constrictions

Many possible uses. Shortened barrels can be back-bored to within 2" to 3" of muzzle to provide a degree of constriction or "choke" in what would otherwise be a cylinder bore barrel. A choked barrel can be back-bored to provide "extra" constriction. Rough pitted bores can be reamed to remove pits. Faster and more effective than grinding or polishing. 12 gauge, 34" extension Handle available.

speed steel, hardened and drawn.

#184-030-735AT .735" Back-Bore Reamer, 4H90N00. 90.00 #184-030-740AT .740" Back-Bore Reamer, 4H90M00 ... 90.00 #184-030-012AT 12 Ga. Back-Bore Handle, 4H45L00 ... 45.00

# CHADWICK & TREFETHEN GILCHRIST PRECISION CHOKE REAMER



#### Aligns Reamer Concentric To The Bore For Accurate Choke Adjusting Or Removal

Enters through the breech and pilots off the bore for precise cutter-to-bore alignment. Expandable, angle blade reamer fine tunes choke size to improve patterns or removes choke prior to screw-in choke tube installation. Requires two, Clymer or Manson Choke Bushings to center the cutter in the bore.

SPECS: Steel. Handle 251/20" (65cm) long. Reamers 130" (33cm) long. Expansion range: 20 ga.-"C". 5930" - .6560". 12 ga.- "D".6560" - .7180" . "E".7180" - .781". Select correct diameter bushing from chart. Tight choked 12 ga. barrels may require the use of the "D" reamer before using the "E" reamer

#170-100-103AT	20/16 Ga. "C" Reamer, 7A99F99	\$ 99.99
#170-100-104AT	16/12 Ga. "D" Reamer, 7A93N99	93.99
#170-100-105AT	<b>10 Ga. "E" Reamer</b> , 7A99B99	99.99
#170-100-000AT	Gilchrist Handle, 7A33199	33.99

REAMER/TAP BUSHINGS - Precision ground bushings center the Gilchrist reamer in the bore. Oversize, .750" diameter, blank bushings can be turned down to fit 12 gauge bores with odd diameters. SPECS: 12 gauge only. Standard bushing is .725" dia. Blank bushing is 750" dia

#513-040-725AT Reamer/Tap .725" Bushing, 3A15E45. . \$ 15.99 #513-040-750AT Reamer/Tap Blank Bshq, 3A11G00.... 15.99

# **CHADWICK & TREFETHEN** EXPANDING CHOKE REAMER



#### Smooth Cutting - Fully Adjustable -**Gives Professional Choke Alteration**

For 10, 12, 16, 20 and 28 gauge choke reaming. Blade angle eliminates chatter; each cut is clean and controlled. Tightly choked 12 gauge barrels may require use of the "D" reamer before using the 10/12 gauge "E" reamer. "A" and "B" reamers also useful in fitting 1911 Auto barrel bushings. Barrel hone and caliper are integral parts of the process and should be included in your equipment.

SPECS: Overall dimensions and expansion range as follows: A - 55/8" (14.2mm) long, 218° (5.5mm) square shank, 468° - .531°. **B** - 5',4° long, .282° sq. shank. .531°-.593°. **C** - 6%<sup>a</sup> long, .282° sq. shank. .593° -.656°. **D** - 6<sup>7</sup>/<sub>8</sub><sup>\*</sup> long, .282<sup>\*</sup> sq. shank. .656<sup>\*</sup> -.718<sup>\*</sup>. **E** - 7<sup>\*</sup>/<sub>8</sub><sup>\*</sup> long, .332<sup>\*</sup> sq. shank. 718<sup>\*</sup> - 781<sup>\*</sup> 1<sup>\*</sup> = 25 4mm

#170-531-001AT	"A" Adjustable Reamer, 7A88H99	\$ 88.99
#170-531-002AT	"B" Adjustable Reamer, 7A56H99	56.99
#170-531-102AT	<b>"B" Replacement Reamer Blade Set</b> , 7A52G99	52.99
#170-531-202AT	"B" Replacement Reamer Nut, 7A7H99	7.99

STOCK #	DESCRIPTION	FITS	PRI	CE
#170-593-003AT	C Reamer (complete)	20/16	7A93L99	\$ 93.99
#170-656-004AT	D Reamer (complete)	16/12	7A94P99	\$ 94.99
#170-718-005AT	E Reamer (complete)	12/10	7A103J99	\$ 103.99
#170-656-104AT	D Blade Set		7A56I99	\$ 56.99

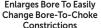


Orders/Tech: 800-741-0015

TOOLS

1 gauging ring

**Enlarges Bore To Easily** 



SPECS: Reamers 5" (12.7cm) long with 8 spiral flutes. Made of M-7 high

#184-030-730AT .730" Back-Bore Reamer, 4H90F00... \$ 90.00

# MANSON PRECISION REAMERS **SCREW-IN CHOKE TAP & REAMER**



Fast, Accurate Choke Tube Installations Using Reamers From Dave Manson

A guick and easy method to install choke tubes using a lathe (can be done by hand however, a lathe gives superior results). Tap and reamer are precision ground from high speed steel and use the same interchangeable pilot bushings. Pilot bushings are available in diameter increments of .001", and are 2" long for accurate bore alignment. Instructions are included. Note: Read and understand the installation requirements on page 62 before proceeding. For best results, remove any existing choke with the Angle Blade Expanding Choke Reamer (listed elsewhere) prior to using the Manson Precision Choke reamer.

SPECS: M-7 High Speed Steel tap and reamer. Reamer - 8-flute, right-hand cut with left-hand spiral; integral cutting stop prevents feeding too far. Tap: 6-flute with ground threads.

TRU-CHOKE™-STYLE TOOLING - Use to thread barrels that are too thin to accept Win-Choke®-style tubes. The O.D. is .020" smaller than that required for Win-Choke tubes so they may be installed in proportionally thinner barrels.

SPECS: 12 Gauge has .795"-44 tpi. Accepts standard (not thinwall) Tru-Choke™ tubes. 20 Gauge has .675"-44 tpi.

#513-142-000AQ	12 Ga Tru-Choke Reamer,	
	3A140H00	\$ 140.00
#513-144-000AQ	12 Ga Tru-Choke Tap, 3A190K00	190.00
#513-000-057AQ	20 Ga Tru-Choke Reamer,	
	3A140A00	140.00
#513-000-058AQ	20 Ga Tru-Choke Tap, 3A190D00	190.00

by-side, and lightweight singles with thin barrels can have the benefits of interchangeable choke tubes. Approximately .020" thinner than standard Tru-Choke tubes.

#513-146-012AQ 12 Ga. Thinwall Tap, 3A190B00..... \$ 190.00

equipment and aftermarket replacement tubes from Win-Choke. Browning Invector®, Mossberg Accu-Choke®, Weatherby and Co-Ionial Arms.

#513-042-000AQ 12 Ga Win-Choke Reamer,

	3A140B00	\$ 140.00
#513-044-012AQ	12 Ga. Win-Choke/Rem-Choke Tap,	
	3A150M00	150.00
#513-000-059AQ	20 Ga Win-Choke Rmr, 3A140N00	140.00
#513-000-060AQ	20 Ga Win-Choke Tap, 3A150N00.	150.00

REMTMCHOKE-STYLE TOOLING - Uses the same tap and bushings as Win-Choke, requires a different reamer to position threads in a different location. Barrels threaded to this system accept Rem-Choke-style and Remington factory tubes. SPECS: 12 gauge only. .814"-32 tpi.

#513-046-012AQ	12 Ga Rem-Chke Reamer, 3A160K00	160.00
#513-044-012AQ	12 Gauge Win-Choke/Rem-Choke	
	Tap, 3A150M00	150.00

**REAMER/TAP BUSHINGS** - Precision ground, same bushing fits reamer and tap. Turn blank bushing to fit odd diameters. SPECS: Bronze, 2" (5cm) lona.

#513-040-725AT	Reamer/Tap .725" Bushing, 3A15E45\$	15.99
#513-040-726AT	Reamer/Tap .726" Bushing, 3A15K45	15.99
#513-040-727AT	Reamer/Tap .727" Bushing,	
	3A15Q45	15.99
#513-040-728AT	Reamer/Tap .728" Bshg, 3A15K45	15.99
#513-040-729AT	Reamer/Tap .729" Bshg, 3A15C45	15.99
#513-040-750AT	Reamer/Tap Blank Bshg, 3A11G00	15.99
#513-000-063AT	20 Ga .612" Pilot Bshg, 3A15M45	15.99
#513-000-065AT	20 Ga .614" Pilot Bshg, 3A15K45	15.99

# BROWNELLS **STRAIGHT FLUTE LONG FORCING CONE REAMER**

Lengthen Forcing Cones To Improve Patterns, **Reduce Recoil** 

Double-duty reamers lengthen short chambers to modern standard or magnum lengths and cut the new long forcing cone at the same time - OR - will cut a long forcing cone without lengthening the chamber for the gunsmith seeking improved shooting performance for his customer. Flute placement, relief and angle are designed to give the best possible results on all types of barrel steel (except on chrome lined barrels, of course!). The 11/2" long (approximately) forcing cone created is performance proven to give optimum results in any length chamber. (For complete instructions see our detailed, illustrated booklet, Measuring and Rechambering Shotgun Chambers.) Reamers are ground exclusively for us from special, select tool steel by one of the oldest and most respected manufacturers of reamers in the United States. Quality and performance is 100% guaranteed. Plus, the hex-drive permits use of a socket and T-handle when tap handles will not operate. Lathe setup not required. 🌉

SPECS: 53/4" (14.6cm) long overall. 1" (2.5cm) long hex section: 1/2" (12.7mm) across on 10, 12, and 16 ga.; 7/16" (11.1mm) across on 20 ga.; 3/8" (9.5mm) across on .410 (10.4mm). 11/2" (3.8cm) long forcing cone cutting section. 7 flutes, straight cut. 10 ga.: use on 10 Gauge Magnum Shotgun Chambers ONLY. Do Not Use in 2<sup>7</sup>/<sup>s</sup>" (7.3cm) or other 10 Gauge chambers 

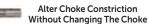
#080-661-010AT	<b>10 Ga.,</b> 3 <sup>1</sup> / <sub>2</sub> " Mag L.F.C. Reamer,	
	2K96G22	5 121.99
#080-661-012AT	<b>12 Ga. L.F.C. Reamer,</b> 2K101A69	126.99
#080-661-016AT	16 Ga. L.F.C. Reamer, 2K96K91	128.99
#080-661-020AT	20 Ga. L.F.C. Reamer, 2K98B63	129.99
#080-661-410AT	.410 Bore. L.F.C. Reamer, 2K76L99	92.99
#077-200-100AT	Measuring & Rechambering	
	Shotguns, Instructions, 6G00KRC	.00

# ROYAL QUICK CHECK CHOKE GAUGE

At-A-Glance "Checker" 時間に、たいたいたいたいま Fits In Your Shirt Pocket

Thin, lightweight, stainless steel gauge fits easily in your pocket									
and measures choke constriction on all .410, 28, 20, 16, 12, and 10									
gauge shotgun barrels. Great for collectors, dealers and shooters									
that need a fast, visual verification of choke constriction. 🔜									
SPECS: Stainless steel, bright polish. 51/8" (13cm) long.									
#774-100-104AT Quick Check Gauge, 4G6M90 \$ 7.99									
- 3 or More - Check Gauge, 4G6P45 \$7.95									

# MANSON PRECISION REAMERS **"BACK-BORE" REAMER**



Add choke constriction to a barrel without altering the actual choke. Plus, full-length back boring can restore the interior surface of rusted and pitted barrels to "like new".

SPECS: M7 high speed steel. 5" (12.7cm) long with eight flutes.								
#513-030-735AT	.735" 12 Ga. Back-Bore Reamer,							
	3A80D00	\$ 80.00						
#513-030-740AT	.740" 12 Ga. Back-Bore Reamer,							
	3A80E00	80.00						

# BROWNELLS **SPIRAL FLUTE LONG FORCING CONE REAMER**

#### Smooth Cutting Reamers Improve Pattern Density

Lengthening the forcing cone area decreases pellet deformation and felt recoil for a dramatic improvement in pattern density, shooting comfort and overall shotgun performance. Custom-made reamers with five, spiral flutes increase the cutting surface area for a smooth, chatter-free cut on all types of barrel steel. Do not use on chrome lined bores. Hex-drive shank allows the use of a standard square drive socket and T-handle.

SPECS: Tool steel, five flute, spiral cut, 6" (15cm) long, 1" (2.5cm) long hex section. Hex-drive size listed in chart.

STOCK #	HEX SIZE	GAUGE	PRICE
#080-961-410AT	3/8"	.410	2K79C42 \$ 92.99
#080-961-020AT	7/16"	20	2K102F01 \$ 127.99
#080-961-016AT	1/2"	16	2K103M91 \$ 129.99
#080-961-012AT	1/2"	12	2K107H41 \$ 128.99
#080-961-010AT	1/2"	10	2K105L76 \$ 122.99

# CLYMER LONG FORCING CONE REAMER

# Features 8 Flutes For Smooth, Uniform Cutting

Clymer's version of the long forcing cone reamer for shotguns extends shorter factory forcing cones to a full 13/8" length, gently tapered for improved patterns and less recoil. These cutters have eight 8° flutes which make them very smooth cutting reamers. 12 Gauge cutter has straight flutes and can be used to lengthen the chamber and cut the new forcing cone in one operation, or cut the forcing cone only, if desired. 20 Gauge cutter has left-hand spiral flutes. The long, non-cutting shank makes it possible to alter many barrels using only a large tap handle (shank is 7/16" square) to turn the reamer. An extension may be required on some barrels. SPECS: HS steel. 87/8" (22.5cm) long. 31/2" (8.9cm) long shank. 121/2 oz. (35.4g).

#184-010-012AT Long Forcing Cone Reamer, 12 Ga., 4H120G00..... \$ 120.00 #184-010-020AT Long Forcing Cone Reamer, 20 Ga.,

120.00 4H120D00....

# **CLYMER** SHOTGUN BARREL FACER

Accurately Squares Barrel; No Lathe!

Face-off shotgun barrels exactly square to the bore. Ideal when repairing dings, or before installing screw-in chokes. Smooth cutting, five-flute cutter. Turn with hand drill or drill press. SPECS: H.S. steel. 33/4" (9.5cm) long. 15/16" (24mm) dia. 3/8" (9.5) dia. shank. Pilot NOT included, order below.

#### CHAMBER REAMER/BARREL FACER PILOTS, ONLY

#184-352-000AT Shotgun Facer, no pilot, 4H85B00... \$ 85.00

STOCK #	SIZE	GAUGE	SIZE	GAUGE	
#184-252-725AT	.725	12	#184-252-612AT	.612	20
#184-252-729AT	.729	12	#184-252-614AT	.614	20
#184-252-610AT	.610	20			

- Advise # - Chamber Reamer Pilot, 4H12A00 ..... \$12.00

# MANSON PRECISION SPIRAL FLUTE LONG FORCING CONE REAMER

#### 8 Flutes Give Smooth, Efficient Cutting

Gives the forcing cone a gentle taper that reduces recoil and improves shot patterns. Spiral flutes give a chatter-free cut on all types of barrel steel. The long shank lets you alter most barrels using only a large tap handle to turn the reamer. SPECS: M-7 High Speed Steel. 8-flute, right-hand cut with left-hand spiral.

9" (22.9) long, 31/2" (8.9cm) shank, 7/16" square.

#513-010-012AT 12 Ga. Forcing Cone Reamer, 3A92J95.....\$92.95

# BROWNELLS 12, 16, 20 GAUGE **BARREL HONE EXTENSION SHAFT**



The extra reach you need for full-length bore polishing with Brownells Barrel Hones and your electric hand drill. Piloted to keep the hone centered for faster, better results. Abrasive paper holder helps remove tight spots before honing;  $\frac{5}{16}$  - 27 tpi shotgun bore brush adapter lets you do heavy duty cleaning.

SPECS: Kit includes: Shaft - steel, 28" (71cm) long, 1/4" (6.3mm) dia. Pilots - Nylon, .12 ga. .715" (18mm) dia., 16 ga. .652" (16.6mm) dia., 20 ga. .605" (15.3mm) dia. Abrasive Holder - Steel, 2" (5cm) long, 1/2" (12.7mm) dia. Brush Adapter - Steel, 3/4" (19mm) long. Shaft coupling will accept .250" (6.3) dia. accessories.

#### #080-915-000AT Barrel Hone Extension Shaft,

8K67E74.....\$78.99

#### **SCREW-IN CHOKE** INSTALLATION REQUIREMENTS

Before accepting a barrel for machining to accept screw-in chokes, you must measure the outside diameter (O.D.) to determine if there will be sufficient wall thickness after machining. "Mike" the O.D. of the barrel and the O.D. of the tap for the particular gauge. Subtract the O.D. of the tap from that of the barrel, divide by 2, and this will give the wall thickness after machining, providing the O.D. of the barrel is concentric with the inside diameter (I.D.). A sample calculation appears below.

Barrel O.D. (12 Ga) .850" Tap O.D. (12 Ga) Win-Choke™ - .814"  $.036" \div 2 = .018"$  WallThickness

We DO NOT recommend installations in barrels where the resultant wall thickness will be less than .015", providing the I.D. of the barrel is concentric with the O.D. If the I.D. is not concentric with the O.D., you will have to make your own decision as to whether the installation will be safe. In addition, you CANNOT install screw-in chokes in barrels whose inside diameters (I.D.) exceed the following dimensions: 10 ga. - .780"; 12 ga. - .735"; 12 ga. Thinwall - .728"; 16 ga. - .666"; 20 ga. - .624". Exceeding these dimensions WILL CAUSE DAMAGED CHOKETUBES and there is a **GREAT POSSIBILITY OF CAUSING A BARREL** BLOW-OUT! Check EVERY installation before firing to make sure the tube does not protrude into the bore. Back-bored or jug-choked barrels are usually **NOT** suitable for screw-in choke installation.

# Office/Tech: 641-623-5401

SHOTGUN TOOLS SPECIALTY

TRU-CHOKETM THINWALL-STYLE TOOLING - Over-unders, side-

# SPECS: 12 ga. only. .775"-44 tpi accepts thinwall-style tubes only. #513-145-012AQ 12 Ga. Thinwall Rmr, 3A140F00 .... 140.00

WIN-CHOKE® STYLE TOOLING - Thread barrels to accept original

SPECS: 12 Gauge has .814"-32 tpi, 20 Gauge has "/16"-32 tpi,

	3A140B00		Ş 140.00	
13-044-012AQ	12 Ga. Win-Choke/Rem	-Choke Tap,		
	3A150M00		150.00	
13-000-059AQ	20 Ga Win-Choke Rmr,	3A140N00	140.00	į
13-000-06040	20 Ga Win-Choke Tan	3A150N00	150.00	,

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# **CLYMER SHOTGUN RIM CUTTER & HEADSPACE RING**

**Restore Headspace To** Shotgun Chambers

# Cutter removes metal

from damaged rim-recess areas. Solder ring in place, recut rim. 💻

SPECS: 55° Cutter - M-7 H/Speed Steel. 51/4" (13.3cm) long. Bronze pilot bushing. Rings - 1031 steel. Approx. 1/4" (6.3mm) long. #184-115-012AT 12 Ga. Rim Cutter, 4H115100. . . . . . \$ 115.00 **#184-115-020AT** 20 Ga. Rim Cutter, 4H115D00..... 115.00

**#184-116-012AT 12 Ga. Headspace Ring**, 4H12A00 ... **12.00** 

# **BROWNELLS** SHOTGUN BARREL **POLISHING FLEX HONE®**



Puts Finish Polish On Shotgun Bores That Is Truly Outstanding

Hundreds of abrasive "balls" mounted on a flex-

ible shaft - the fastest, easiest way we've come across to clean and polish older barrels or put a mirror polish in new ones. For used barrels, the Medium-Coarse hone, followed by the Fine, removes rough and tight spots and brings the bore to a bright finish that you can see and feel ... just run a patch through it before and after; the difference is amazing! We found too, that we could feel tight spots during honing and spend extra time on them until they were evened out. On new barrels, the Fine hone by itself will bring the factory finish up to a beautiful, mirror-bright finish that's a real customer pleaser. Easy to use: chuck in a variable speed electric drill; wet the hone with Flex Hone® oil; start the drill and insert the hone into the barrel from the breech end (if possible). As it cuts, a slurry of abrasive and oil develops to help speed the cutting action. Flex Hone® available in sets and individual hones for 10, 12, 16 and 20 gauge barrels as well as .410 bore. Also, special-sized hones for 10, 12, 16, 20 gauge chambers and .410 bore. Instructions walk you through the steps for a perfect job. (You MUST use Flex Hone® oil - all other oils will destroy the abrasive "balls" and void our guarantee!) 750 RPM MAX. Avoid excess pressure.

SPECS: Flex Hone® for Barrels; 10, 12, 16, 20 ga., .410 bore. 33" (83.8cm long in Med.-Coarse grit (red tip) or Fine grit (light blue tip). Flex Hone® for Chambers; 10, 12, 16, 20 ga., .410 bore 12" (6.5cm) long, fine grit (light blue only). Set includes Med.-Coarse & Fine barrel hones, Chamber hone & 1 gt. Flex Hone® oil, for 1 ga.

FLEX-HONE	FINE BORE	MED. BORE	CHAMBER	ONE GA. SET
SIZE	\$63.99	\$52.99	\$52.99	\$169.99
10 ga	#080-607-210AT	#080-606-110AT	#080-608-510AT	NA
12 ga	#080-607-212AT	#080-606-112AT	#080-608-512AT	#080-605-012AT
16 ga	#080-607-216AT	#080-606-116AT	#080-608-516AT	#080-605-016AT
20 ga	#080-607-220AT	#080-606-120AT	#080-608-520AT	#080-605-020AT
.410	#080-607-241AT	#080-606-141AT	#080-608-541AT	#080-605-041AT

#076-200-156AT	Flex Hone <sup>®</sup> Inst. please request,
	6G00BKD\$.00

FLEX HONE OIL - Specially formulated for use with Flex Hones. Contains both honing and lapping oils in a petroleum base that will not harm aluminum, brass or steel. (Use of other oils destroys abrasive ball and voids guarantee.)

#080-609-008AT	1/2 Pint Flex Hone Oil,	1B11A50	\$ 13.49
#080-609-000AT	Quart Flex Hone Oil,	1B18N22	21.98

# BROWNELLS **FORCING CONE FLEX HONE®**

#### Tapered Design Polishes Quickly & Efficiently

The finishing touch for forcing cones cut with Long Forcing Cone Reamers. Taper matches perfectly so the maximum amount of abrasive media contacts the barrel's surface for faster, more effective polishing action, with less elbow

grease and work. Must be used with Flex Hone Oil: use of other oils will destroy the abrasive balls and void the guarantee. SPECS: Medium or Fine grit. 10" (25cm) overall length. Abrasive head,

1.625" (4.1cm) long. 12 ga. tapers from .710" to .798" in diameter. 16 ga. tapers from .665" to .745" diameter. 20 ga. tapers from .615" to .699" diameter #090 606 F12AT 12 Ca Madium Crit Flow

#080-606-512AT	<b>12 Ga. Medium Grit Flex Hone</b> , 1838893	\$ 44.99
#080-607-512AT	<b>12 Ga. Fine Grit Flex Hone,</b> 1855H67	65.99
#080-607-516AT	<b>16 Ga. Fine Grit Flex Hone,</b> 1855B67	65.99
#080-606-520AT	<b>20 Ga. Medium Grit Flex Hone</b> , 1B36G74	43.99
#080-607-520AT	<b>20 Ga. Fine Grit Flex Hone,</b> 1B55Q67	65.99
#080-609-008AT	<sup>1</sup> /₂ <b>Pint Flex Hone Oil,</b> 1B11A50	13.49
#080-609-000AT	Quart Flex Hone Oil, 1B18N22	21.98

# BROWNELLS PROFESSIONAL SERIES **BARREL HONING STONES**

#### **Gives Shotgun Bore A** Good-As-New Polish

Quickly brings your shotgun bore to a like new or better polish. Five grits provide fast, smooth polishing for chrome lined and carbon steel barels; 500 grit, 400 grit, 150 grit, 150 grit for chrome bores and a 2-S Lisle stone. Steel carrier

#### riveted to arm, fits Lisle No. 2 Barrel Hone.

SPECS: Aluminum oxide stones, steel carrier. Pak of 2 stones and arms. Kit contains 2 stones of each grit. Plastic storage box. 

500 Grit Profess. Stones, 8K11D31	\$ 13.99
	13.99
	13.99
	15.99
Professional Honing Stone Kit, 8K44K43	52.99
	500 Grit Profess. Stones,   8K11D31.   400 Grit Professional Stones,   8K11A31.   150 Grit Professional Stones,   8K11H35.   150 Grit Chrome Bore Stones,   8K12A30.   Professional Honing Stone Kit,   8K44K43.

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# YOUR 100% SATISFACTION IS OUR GUARANTEE!!

# LISLE SHOTGUN BARREL HONE



Ample range for 28 ga, to 12 ga, Flex-drive eliminates chatter. gouging. For 1/4" or larger electric drill. Included in choke set. 💻 ŠPEČS: ¼/4" (6.3mm) shaft, 8¼/2" (21.6cm) long.

#531-108-002AT No. 2 Barrel Hone, 1C14J99...... \$ 14.99 #531-107-602AT No. 2-S Stones, only, 1C3A99...... 3.99

BARREL HONE EXTENSION SHAFT - Piloted shaft attaches to your electric hand drill motor and accepts Brownells Barrel Hones. Keeps the hone in the center of the bore; prevents expensive damage: lets the hone do all the work for faster, better looking results. Includes abrasive paper holder and a threaded adapter that accepts all 5/16"-27 tpi shotgun brushes and mops.

#### #080-915-000AT Barrel Hone Extension Shaft,

8K67E74.										 			\$	78	3.9	9



equip you to handle a wide variety of any pistol disassembly and reassembly jobs. Nontapered, with a flat tip for removing solid pins-excellent for drifting sight pins in and out. Kit includes four, steel punches through-hardened for maximum 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 and protect your gun's finish from scratches and scuffs.

SPECS: Pin punches - 4140 chrome-moly steel. 1/16", 3/32", 1/8", 5/32" diameters. 31/2" to 41/2" OAL. Drift punch - Brass. 31/4" (8.3cm) long x 3/16" (4.8cm)

#539-000-019AT Pistol Punch Set, 5K15C39..... \$ 16.99

# BROWNELLS **GRIP SCREW BITS**

Allen®, TORX® & Slotted **Bits Fit Right** 

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: 3/32" hex, Slotted: 240-5, TORX: T-15, Fit Brownells 1911 Auto and Ruger MkI/MkII grip screws. #080-185-100AT 3/32" Allen Bit. 8K2,166 \$ 2.99

		+
#080-240-540AT	#240-5 Slotted Bit, 8K2C66	2.99
#080-435-015AT	<b>T15 Torx Bit</b> , <i>8K2I66</i>	2.99

# BROWNELLS **MAGNA-TIP® MILLET REAR SIGHT BIT**

Fits Perfectly; Won't Blemish The Sight Cross-slotted tip fits the elevation and

windage screws on Millet pistol sights. Help eliminate gouging and marring of the screws. SPECS: 11/2" (3.8cm) long.

#080-147-000AT Millet Rear Sight Bit, 8K3L95..... \$ 4.99

order on the web brownells.com

# APEX TACTICAL POLYMER **ARMORER'S BLOCK & TRAY**

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#### Supports Polymer-Framed Pistols For Armory Work & Disassembly

High-density polymer block supports S&W M&P and Glock polymer-framed pistols without marring and helps with armory work and disassembly. Special design relieves pressure from critical function surfaces and gives easy access to all pins. Moveable bosses quickly adjust to hold different size frames. Holes and slots accommodate thumb safety and magazine disconnect. Fixed bosses - one for .45 and the other for 9mm/.40/.357 - hold striker to ease striker spring removal and installation. Special trigger bar block makes it easy to swap triggers. Armorer's Tray attaches to the underside of the block, elevating the work surface nearly an inch, while the interior and embedded magnet keep pins and small steel parts from rolling away. Raised edges in the center support the muzzle when taking off slide back plates. Comes with a  $\frac{1}{16}$  Allen wrench for the rear sight screw and a 1/8" roll pin punch that seats into coil roll pins in M&P frames and drives the pins far enough to be out of the way but not ejected. Storage slots in the tray for punch and wrench. SPECS: Polymer, red. Block - 7" (17.7cm) long, 4" (10cm) wide, 11/2" (3.8cm) high. Tray - 7" long, 4" wide, .9" (2.3cm) high.

#100-011-660AT Polymer Armorer's Block, 7F27E00 ... \$ 29.99 #100-014-075AT Polymer Armorer's Tray, 7F22M37 .... 24.99

# C.B. GIORNESTO BERETTA/SIG/TAURUS **VISE BLOCK**



Secure, Hands-Free Support Of Pistol For Cleaning & Maintenance

High-strength polymer magazine well insert fits double-stack Beretta, SIG, and Taurus pistols. Slides into the mag well and locks tight using the factory latch, so the other end of the block can be clamped in a vise. Supports the pistol for cleaning, maintenance, and other servicing, while it keeps both hands free to do the work. Durable, injection-molded polymer composite construction won't mar or scratch gun and resists most common cleaning solvents. To ensure a snug fit in your pistol, the ridge on the back of the stem may need to be filed down. SPECS: Polymer, black. Stem – 45/16" (11cm) long. Fits Beretta 92/96, SIG P226/228/229, and Taurus PT-99/-101.

#100-005-890AT Beretta/SIG/Taurus Vise Block, 6B34E58 ..... \$ 39.99

# BROWNELLS **MAGAZINE TOOL FOR GLOCK®**

Removes Base Pads Fast, Without Damage Specialized pliers allow Glock



owners to remove the base pad from factory magazines without gouging or cracking the plastic. Small crimping tips contact the magazine precisely above the locking tabs. Hardened, steel handles feature the correct geometric cur-

vature to prevent over-compression of the magazine sidewalls. SPECS: Steel. black finish. 6" (15.2cm) long. #080-000-191AT Magazine Tool For Glock, 8K20A06...\$ 22.99

Orders/Tech: 800-741-0015

# SPECIALTY SHOTGUN TOO

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SPECIALTY

HANDGUN

TOOL

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diamete