



ASSORTMENT KITS

CAP PLUG KIT

Part Number: CAP PLUG KIT
List Price: \$ 210.17



Our new and improved cap plug kit contains 22% more cap plugs in an environmentally friendly corrugated box. Separated areas hold 625 cap plugs in 24 of the most popular sizes.

Cap Plug Number	QTY	Cap Plug Number	QTY	Cap Plug Number	QTY
CAP-2-X	50	CAP-PD-100	25	CAP-G-22	20
CAP-4	50	CAP-PD-120	25	CAP-G-25	20
CAP-6-X	50	CAP-PD-140	20	CAP-G-27	20
CAP-9	50	CAP-PD-160	20	CAP-P-28	25
CAP-12-X	25	CAP-G-2	20	CAP-P-38	25
CAP-14	20	CAP-G-8	20	CAP-P-48	25
CAP-PD-60	25	CAP-G-14	20	CAP-P-68-H	25
CAP-PD-80	25	CAP-G-18	20	CAP-P-88-H	20

CAP PLUG CASE

Part Number: CAP PLUG CASE
List Price: \$ 107.85

This rugged case has 24 empty to hold a limited variety of cap plugs from the master kit (shown left).

Case only - cap plugs sold separately.



NYLON PLUG KIT

Part Number: NYLON PLUG KIT
List Price: \$ 108.55

	Nyplug-125-125 1/8" x 1/8" 20 pcs.	Nyplug-187-109 3/16" x 7/64" 20 pcs.	Nyplug-250-125 1/4" x 1/8" 20 pcs.	
	Nyplug-125-156 1/8" x 5/32" 20 pcs.	Nyplug-187-187 3/16" x 3/16" 20 pcs.	Nyplug-250-187 1/4" x 3/16" 20 pcs.	Nyplug-312-125 5/16" x 1/8" 20 pcs.
	Nyplug-125-875 1/8" x 7/8" 20 pcs.	Nyplug-187-250 3/16" x 1/4" 20 pcs.	Nyplug-250-250 1/4" x 1/4" 20 pcs.	Nyplug-375-250 3/8" x 1/4" 20 pcs.
220 Pieces 11 Sizes				

SEAL TOOL KIT

Part Number: SEAL TOOL KIT
List Price: \$ 831.87



- Kit contains:
- Piston seal
 - Pick set
 - Pi Tape
 - Seal installation tool set
 - Wear strip cutter
 - O-ring adhesive
 - Precision cord cutter
 - Seal install and remove tool
 - O-ring detector



INSTALLATION TOOLS

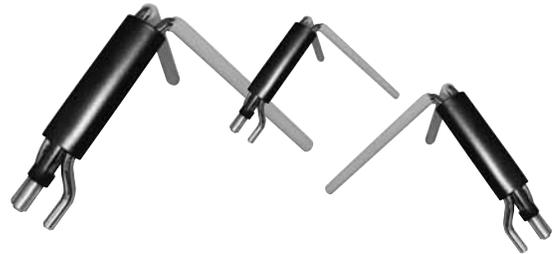
QUALITY ROD U-SEAL INSTALLATION TOOLS



Part Number	Seal ID Range		List Price
IT 100	3/4" to 1-1/4"	19 - 31 mm	\$ 68.04
IT 150	1-3/8" to 1-7/8"	35 - 47 mm	68.04
IT 200	2" to 3"	51 - 76 mm	68.04
IT 100-NN	3/4" to 1-1/4"	19 - 31 mm	68.04
IT 150-NN	1-3/8" to 1-7/8"	35 - 47 mm	68.04
IT 200-NN	2" to 3"	51 - 76 mm	68.04

These tools aid U-seal installation, eliminating the risk of damaging the seal lip. NN = Without [®] logo.

VALUE ROD U-SEAL INSTALLATION TOOLS



Part Number	Seal ID Range		List Price
SEAL TWISTOR M	1-3/16" to 2"	30 - 50 mm	\$ 27.80
SEAL TWISTOR L	2" to 2-3/4"	50 - 70 mm	31.27
SEAL TWISTOR XL	2-3/4" to 6-1/2"	70 - 165 mm	34.74

These tools aid Rod U-seal installation, eliminating the risk of damaging the seal lip.

INSTALLATION TOOL SET

Part Number: IT TOOL SET-A
List Price: \$ 130.19



This handy tool set has 4 different size installation tools, along with a holder.

- S (22 - 30 mm)
- M (30 - 50 mm)
- L (50 - 70 mm)
- XL (70 - 165 mm)



SPLICING TOOLS

SPLICE IRON

Part Number: SEAL HEATER
List Price: \$ 121.61



100 to 400°C

O-RING SPLICE TOOL

Part Number: OR SPLICER
List Price: \$ 86.53



- Splicing tool for o-rings
- For cross section diameter from 2.5 to 20 mm
- Clamping plates for locking
- Aluminium stands for use with glue or heat

O-RING SPLICE KIT

Part Number: OR SPLICE KIT
List Price: \$ 392.66



- Kit contains:
- Splice iron
 - Pi tape
 - Grinding tool
 - O-ring adhesive
 - Precision cord cutter
 - Splice tool



CUTTING AND CHOPPING TOOLS

WEAR STRIP CUTTER

Part Number: WS CUTTER
List Price: \$ 71.40



Cut your own wear rings to exact dimensions.

CUTTER BLADES

Part Number: WS CUTTER BLADE
List Price: \$ 25.94



Quantity of 10 Wear Strip Cutter Blades.

O-RING CORD CHOPPER

Part Number: ORC CHOPPER
List Price: \$ 93.82



- Cuts o-ring cord to prepare it for splicing
- Suitable for cross section from 0.103 to 0.551 inches (2.62 to 14 mm)

CHOPPER BLADES

Part Number: ORC CHOPPER BLADE
List Price: \$ 17.37



Quantity of 20 Chopper Blades.



REMOVAL TOOLS

**We have the packing removal tools to fit your needs.
Try out these high quality tools in your shop.**

Proper tools make the job of servicing cylinders easier and faster and reduce the possibility of damaging the finely machined surfaces. The handy tools listed on this page aid in the repair of telescopic cylinders and make it easier to do a quality job.

OIL SEAL REMOVAL & INSTALLATION TOOL

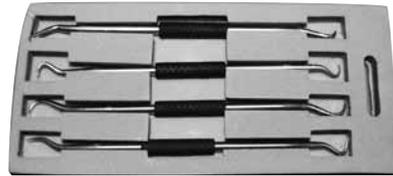
**Part Number: SR TOOL
List Price: \$ 185.21**



O-RING PICK SET

**Part Number: OR HOOK
List Price: \$ 19.46**

This Value package of O-ring Picks in plastic carrying case, aid in the installation and extraction of O-rings.



11 PIECE PACKING TOOL KIT

**Part Number: PACK TOOL SET-11
List Price: \$ 279.13**



PART NUMBER	QTY	PART NUMBER	QTY
FPH-312R	2	FPH-RTC312	1
FPH-437R	2	FPH-RTC437	1
SSP-125	1	WRENCH	1
SSP-187	1	BOX	1
SSP-312	1		

17 PIECE PACKING TOOL KIT

**Part Number: PACK TOOL SET-17
List Price: \$ 479.61**



PART NUMBER	QTY	PART NUMBER	QTY
FPH-312R	2	FPH-RTC437	1
FPH-437R	2	FPH-RTC500	1
FPH-500R	2	FPH-RTW312	1
SSP-125	1	FPH-RTW437	1
SSP-187	1	FPH-RTW500	1
SSP-312	1	WRENCH	1
FPH-RTC312	1	BOX	1



REMOVAL TOOLS

O-RING PICK SET 1

Part Number: O-RING PICK
List Price: \$ 16.89

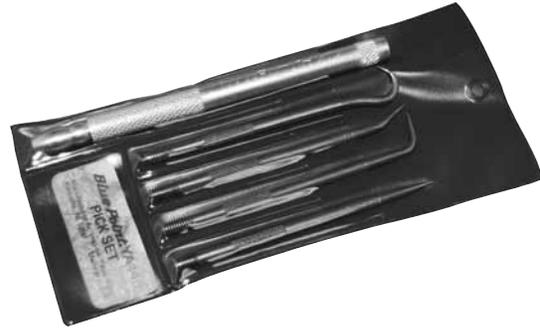
These Bronze O-ring Picks, w/ black vinyl case, aid in the installation and extraction of O-rings.



O-RING PICK SET 2

Part Number: O PICK SET
List Price: \$ 69.64

Designed for heavy duty use and packaged in a clear vinyl pouch, this kit contains a knurled handle and four screw-in picks with different hook configurations. Set includes straight tip, o-ring 90° tip, hook tip, and angle tip. Made in the USA.



SNAP-ON O-RING PICK SET 4

Part Number: MAXI PICK SET
List Price: \$ 142.94

Designed for heavy duty use and packaged in a plastic pouch, these highly visible picks feature screwdriver-type colored handles. Set includes awl, hook tip, 45° bent tip tool, and 90° bent tip tool. Made in the USA.





REMOVAL TOOLS

5 PIECE TOOL KIT SET

Part Number: CH-TK-1
List Price: \$ 236.32



8 PIECE O-RING PICK SET

Part Number: O PICK SET-A
List Price: \$ 51.00

This economical seal pick tool set lowers your chance of surface damage. It contains 8 different hard metal hooks with sturdy plastic handles. The kit also comes with a twist lid for easy carrying.

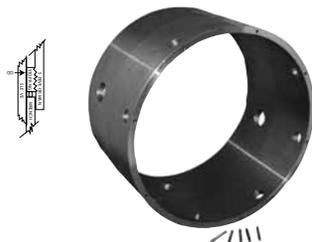


STOP RING WRENCH

Part Number	Sleeve or Plunger O.D.	Pins	List Price
CM-376-6067-047	2-3/4"	5 Pins	\$ 574.16
CM-376-6067-048	3-3/4"	5 Pins	651.45
CM-376-6067-049	4-3/4"	7 Pins	701.28
CM-376-6067-050	5-3/4"	7 Pins	770.91
CM-376-6067-051	6-3/4"	7 Pins	813.91
CM-376-6067-052	7-7/8"	8 Pins	935.63
CM-376-6067-053	9-3/8"	8 Pins	1201.84
CM-391-2086-007	Replacement Stop Wrench Pin		8.65

CHEVRON ASSEMBLY TOOL

Part Number: CM-376-9067-001
List Price: \$ 198.09





REMOVAL TOOLS

REPLACEABLE WOODSCREW TIPS

Part Number	Packing Space	List Price
FPH-RTW312	5/16"-up	\$ 18.34
FPH-RTW437	7/16"-up	23.62



REPLACEABLE CORKSCREW TIPS

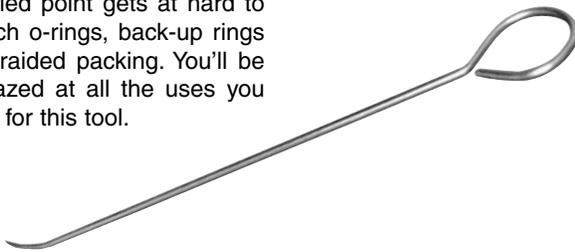
Part Number	Packing Space	List Price
FPH-RTC312	5/16"-up	\$ 14.72
FPH-RTC437	7/16"-up	17.82
FPH-RTC500	1/2"-up	23.88



SOLID SHAFT PICKS

Part Number	Packing Space	Length	List Price
SSP-125		9-1/2"	\$ 21.18
SSP-312	5/16"-up	10"	42.03

Formed from hardened steel, this tool's length and sharp angled point gets at hard to reach o-rings, back-up rings & braided packing. You'll be amazed at all the uses you find for this tool.



FLEXIBLE PACKING HOOKS

Part Number	Packing Space	Length	List Price
FPH-187	3/16"-up	6-1/2"	\$ 40.62
FPH-312R	5/16"-up	7-1/2"	35.09
FPH-437R	7/16"-up	10-1/2"	44.98
FPH-500R	1/2"-up	14-1/2"	54.39

With a tempered tool steel corkscrew tip and a woven strand steel flexible shaft, this tool makes hard to reach packing easy to pull out. Works best by using two hooks at diametrically opposed points (180°).





DISMANTLING TOOLS

SPANNER WRENCHES

(1) ADJUSTABLE HEAD — PIN STYLE

PART NUMBER	PART OD RANGE	PIN DIA.	PIN LGTH.	LIST PRICE
SPAP-2.00X0.13	3/4" to 2" (19mm to 50mm)	1/8"	1/8"	\$ 102.37
SPAP-2.00X0.19	3/4" to 2" (19mm to 50mm)	3/16"	5/32"	117.56
SPAP-3.00X0.19	1-1/4" to 3" (32mm to 76mm)	3/16"	3/16"	117.50
SPAP-3.00X0.25	1-1/4" to 3" (32mm to 76mm)	1/4"	7/32"	118.97
SPAP-4.75X0.25	2" to 4-3/4" (51mm to 120mm)	1/4"	1/4"	161.11
SPAP-6.25X0.38	4-1/2" to 6-1/4" (115mm to 159mm)	3/8"	1/4"	172.57



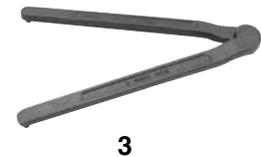
(2) ADJUSTABLE HEAD — HOOK STYLE

PART NUMBER	PART OD RANGE	HOOK WD.	HOOK DP.	LIST PRICE
SPAH-2.00	3/4" to 2" (19mm to 50mm)	11/32"	1/8"	\$ 96.52
SPAH-3.00	1-1/4" to 3" (32mm to 76mm)	13/32"	5/32"	109.09
SPAH-4.75	2" to 4-3/4" (51mm to 120mm)	15/32"	3/16"	151.20
SPAH-6.25	4-1/2" to 6-1/4" (115mm to 159mm)	15/32"	1/4"	161.60
SPAH-8.75	6-1/8" to 8-3/4" (155mm to 222mm)	15/32"	5/16"	197.11

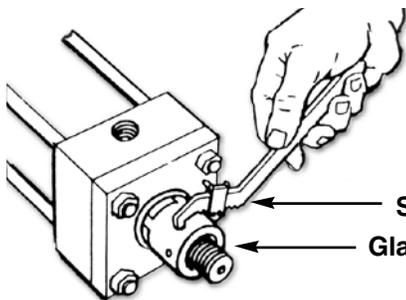


(3) ADJUSTABLE FACE — PIN STYLE

PART NUMBER	DIA. RANGE (CENTER TO CENTER)	PIN DIA.	PIN LGTH.	LIST PRICE
SPAPF-2.00X0.19	5/8" to 2" (16mm to 50mm)	3/16"	1/8"	\$ 87.75
SPAPF-3.00X0.25	5/8" to 3" (16mm to 76mm)	1/4"	3/16"	125.42
SPAPF-4.00X0.31	5/8" to 4" (16mm to 101mm)	5/16"	1/4"	164.01



PARKER GLAND WRENCHES



Spanner Wrench (Sold Separately Above)
Gland Wrench



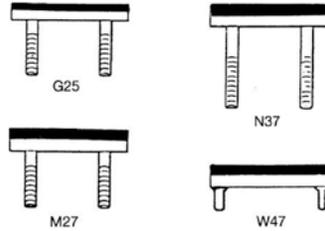
Rod Dia.	Kit #	ID X OD X HT	List Price	Spanner (Sold Separately Above)
1/2", 5/8", 12mm & 14mm	PKH-069590	11/16" X 1-1/8" X 1-3/8"	\$ 104.10	SPAP-2.00X0.19
18mm	PKH-084765	13/16" X 1-1/4" X 1-7/16"	96.56	SPAP-2.00X0.19 or SPAP-3.00X0.19
1" & 22mm	PKH-069591	1-1/16" X 1-5/8" X 1-1/2"	105.86	SPAP-2.00X0.19 or SPAP-3.00X0.19
28mm	PKH-084766	1-1/4" X 1-11/16" X 1-9/16"	111.62	SPAP-2.00X0.19 or SPAP-3.00X0.19
1-3/8" & 36mm	PKH-069592	1-7/16" X 1-7/8" X 1-5/8"	109.32	SPAP-2.00X0.19 or SPAP-3.00X0.19
1-3/4" & 45mm	PKH-069593	1-13/16" X 2-1/4" X 1-5/8"	111.04	SPAP-3.00X0.25 or SPAP-4.75X0.25
2"	PKH-069594	2-1/16" X 2-1/2" X 2"	124.93	SPAP-3.00X0.25 or SPAP-4.75X0.25
2-1/2" & 56mm	PKH-069595	2-9/16" X 3" X 2-1/8"	119.71	SPAP-3.00X0.25 or SPAP-4.75X0.25
70mm	PKH-069596	2-15/16" X 3-1/2" X 2-3/8"	145.85	SPAP-4.75X0.25

ASSORTMENT KITS AND TOOLS

REMANUFACTURING TOOLS

HONE STONE SETS

Stone sets for 2.5" to 60" diameter, portable tools (two stones and two guides per set). For Industrial applications. From fast stock removal in deburred, bored, ground, or reamed holes to fine finishing in previously honed holes, these hone stone sets are in stock and ready for next day delivery.



Stone Number	Diameter
G25	2.5 - 2.7
M27	2.7 - 4.1
N37	3.5 - 5.5
W47	4.1 - 60.0*

* Requires Master Holder Set - Limited to 21" with H-AN-815

ALUMINUM OXIDE STONES

MODEL	G25		M27		N37		W47		
GRIT SIZE	64 TO 69 mm 2.5" - 2.7"	NET PRICE	69 TO 104 mm 2.7" - 4.1"	NET PRICE	89 TO 140 mm 3.5" - 5.5"	NET PRICE	104 TO 1524 mm 4.1" - 60"***	NET PRICE	
80	HARD - SOFT	H-G25-A23	\$ 19.40	H-M27-A23	\$ 19.70	H-N37-A23	\$ 20.30	H-W47-A23	\$ 22.30
		H-G25-A25	20.02	H-M27-A25	20.34	H-N37-A25	20.94	H-W47-A25	23.02
		H-G25-R25X	20.02	H-M27-R25X	20.37	H-N37-R25X	20.95	H-W47-R25X	23.01
		H-G25-A27	19.40	H-M27-A27	19.70	H-N37-A27	20.30	H-W47-A27	22.30
150	H - S	H-G25-A43	\$ 20.02	H-M27-A43	\$ 20.33	H-N37-A43	\$ 20.95	H-W47-A43	\$ 23.01
		H-G25-A45	20.02	H-M27-A45	20.34	H-N37-A45	20.95	H-W47-A45	23.01
		H-G25-A47	19.40	H-M27-A47	19.70	H-N37-A47	20.30	H-W47-A47	22.30
				H-M27-A49	19.70	H-N37-A49	20.30	H-W47-A49	22.30
220	H-S				H-N37-A55	\$ 20.30	H-W47-A55	\$ 22.30	
280	H - S	H-G25-A65	\$ 20.02	H-M27-A65	\$ 20.33	H-N37-A65	\$ 20.30	H-W47-A63	\$ 22.30
				H-M27-A67	19.70			H-W47-A65	23.02
							H-W47-A67	22.30	
MODEL	GY25		MY33		NY40		WY51		
MAX KEYWAY WIDTH	20.3 mm 0.8"		22.86 mm 0.9"		30.48 mm 1.2"		35.56 mm 1.4"		
GRIT SIZE	64 TO 84 mm 2.5" - 3.3"	NET PRICE	84 TO 107 mm 3.3" - 4.2"	NET PRICE	102 TO 142 mm 4.0" - 5.6"	NET PRICE	114 TO 1524 mm 4.5" - 60"	NET PRICE	
150	M	H-GY25-A47	\$ 40.50	H-MY33-A47	\$ 41.10	H-NY40-A47	\$ 41.70	H-WY51-A47	\$ 42.20

SILICON CARBIDE STONES

MODEL	G25		M27		N37		W47		
GRIT SIZE	64 TO 69 mm 2.5" - 2.7"	NET PRICE	69 TO 104 mm 2.7" - 4.1"	NET PRICE	89 TO 140 mm 3.5" - 5.5"	NET PRICE	104 TO 1524 mm 4.1" - 60"***	NET PRICE	
70	HARD - SOFT					H-N37-J11	\$ 20.30	H-W47-J11	\$ 22.30
						H-N37-J13	20.30	H-W47-J13	22.30
		H-G25-J15	\$ 19.40					H-W47-J15	22.30
		H-G25-J17	19.40	H-M27-J17	\$ 19.70	H-N37-J17	20.30	H-W47-J17	22.30
150	H - S					H-N37-J43	\$ 20.30	H-W47-J43	\$ 22.30
		H-G25-J45	\$ 20.02	H-M27-J45	\$ 20.34	H-N37-J45	20.94	H-W47-J45	23.02
		H-G25-J47	19.40	H-M27-J47	19.70	H-N37-J47	20.30	H-W47-J47	22.30
220	H - S	H-G25-J55	\$ 19.40	H-M27-J55	\$ 20.34	H-N37-J55	\$ 20.30	H-W47-J55	\$ 22.30
				H-M27-J57	19.70	H-N37-J57	20.30		
280	H - S	H-G25-J63	\$ 19.40	H-M27-J63	\$ 19.70			H-W47-J63	\$ 22.30
		H-G25-J65	20.02	H-M27-J65	20.33	H-N37-J65	\$ 20.94	H-W47-J65	23.01
		H-G25-J67	19.40	H-M27-A67	19.70	H-N37-J67	20.30	H-W47-J67	22.30
400	S - I	H-G25-J85	\$ 20.02	H-M27-J85	\$ 20.34	H-N37-J85	\$ 20.95	H-W47-J85	\$ 23.01
		H-G25-J87	20.02	H-M27-J87	20.34	H-N37-J87	20.95	H-W47-J87	23.01

* R25X - Red aluminum oxide / sulfur Impregnated

** Requires Master Holder Set - Limited to 21" with H-AN-815



REMANUFACTURING TOOLS

PORTABLE HONES

Part Number: H-AN-815
Net Price: \$ 614.04



Additional sizes and accessories shown below

Illustration shows standard AN-815 Portable Hone assembled with single length master holder set and stone set. Requires 16 mm (5/8") chuck capacity for 63.5-127 mm (2.5"-5") diameter. Requires 19mm (3/4") chuck capacity for 127-381 mm (5"-15") diameter. Requires 25.4 mm (1") chuck capacity for larger than 381 mm (15") diameter

Weight 2.3 kg (5 lbs).

HONING OIL - 5 GALLON PAIL

Part Number: H-MB-30-5
Net Price: \$ 102.68



Honing oil is specially formulated for ferrous and non ferrous honing to

- Dissipate heat from the workpiece
- Lubricate tool contact surfaces (guides)
- Flush bore free of honing swarf
- And maintain clean, free cutting abrasive conditions

for continuous honing of most materials, including: steel, cast iron, carbide, aluminum, bronze and ceramics. Use with any make honing equipment or tooling.

FOR A PORTABLE HONE ORDER A + B + C + D + E				A - BASIC HONE		B - MASTER HOLDER SETS				C - STONE SUPPORT		D - STONE SET	E - SHAFT EXTENSION
Diameter Range						Single Length		Double Length					
General Purpose Stone Sets		Guideless and Keyway Stone Sets		Part Number	Net Price	Part Number	Net Price	Part Number	Net Price	Part Number	Net Price		
mm	Inches	mm	Inches										
64-140	2.5-5.5	64-142	2.5-5.6	H-AN-815	\$ 614.04	None		None	-	None	-	See Table on the previous page for portable hone stone sets	For holes longer than 508 mm (20") see table below for Shaft Extensions.
104-160	4.1-6.3	114-165	4.5-6.5	H-AN-815	614.04	H-AN-345	\$ 108.36	None	-	None	-		
119-178	4.7-7.0	130-183	5.1-7.2	H-AN-815	614.04	H-AN-355	110.42	H-AN-855	\$ 154.80	None	-		
152-229	6.0-9.0	163-234	6.4-9.2	H-AN-815	614.04	H-AN-365	112.49	H-AN-865	162.02	H-AN-260	\$ 66.05		
206-305	8.1-12.0	213-310**	8.4-12.2**	H-AN-815	614.04	H-AN-375	114.55	H-AN-875	163.06	H-AN-280	84.11		
279-381	11.0-15.0	284-386**	1.2-15.2**	H-AN-815	614.04	H-AN-385	118.8	H-AN-885	168.22	H-AN-290	99.85		
356-457	14.0-18.0	363-465**	14.3-18.3**	H-AN-815*	614.04	H-AN-395	121.78	H-AN-895	169.25	H-AN-340	117.65		
432-533	17.0-21.0	437-538**	17.2-21.2**	H-AN-815*	614.04	H-AN-415	127.97	H-AN-915	173.38	H-AN-450	138.29		

* For light work only in this diameter range
 ** Do not use WW (Guideless) Stone Sets in this range due to lack of stability

Length		Drive Shanks		Shaft Extensions		Master Holder Sets and Stone Supports	
mm	Inches	Part Number	Net Price	Part Number	Net Price		
76	3	H-AN-608A	\$ 23.74	None	-		
152	6	H-AN-618A***	32.80	H-AN-840	\$ 36.84		
305	12	None	-	H-AN-841***	47.47		
610	24	None	-	H-AN-842	165.12		
1220	48	None	-	H-AN-844	199.18		
Furnished with 152 mm (6") Drive Shank and 305 mm (12") Shaft Extension. Other shanks or extensions may be selected from the table above to make up any practical length (either drive shank can be used with any of extensions).							

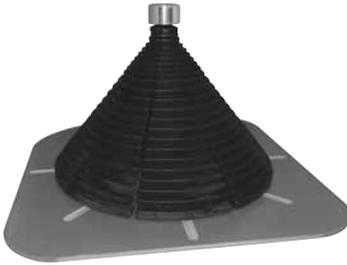
*** Supplied with hone.



REMANUFACTURING TOOLS

PISTON SEAL STRETCHER

Part Number: SEAL STRETCHER
List Price: \$ 177.21



- The Seal Stretcher Includes the following:
- 8 stepped segments
 - 1 top nut/handle
 - 1 o-ring
 - 1 flat base
 - 4 screws
 - 1 threaded rod with a piston pre-installed
 - 1 stop nut
 - 1 aluminum support base
 - 1 spring

PISTON SEAL REFORMING TOOL

Part Number: PS CONSTRICTOR
List Price: \$ 35.67



PTFE Piston seal resizing tool.

MINI GRINDER

Part Number: OR GRINDER
List Price: \$ 196.90



The Mini Grinder has a no load speed of 5000-18,000 rpm adjustable, and includes the following:

- Copper collet: 2.4 & 3.2 (mm)
- 2 Diamonds bits
- 2 Grinding Stones
- 1 Nylon Brush
- 1 Connective posts for sanding bands
- 2 sanding bands
- 1 engraving bit
- 1 collet (2.4 mm)

SEAL CLASPER

Part Number: SEAL CLASPER
List Price: \$ 207.45

- Can be adjusted to fit multiple diameters.
- Tighten PTFE seals quickly and safely.





LEAK DETECTION

LEAK DETECTION KIT

Part Number: LDU-OPK-341

Net Price: \$ 373.69

HOW IT WORKS

A small amount of liquid fluorescent dye is added to a circulating fluid system that is being inspected for leaks. The system is then run for a short time to allow the dye to mix and circulate with the host fluid. The dye/fluid mixture escapes with the host fluid wherever there is a leak and glows a bright yellow/green when inspected with a high-intensity ultraviolet or UV/black light lamp. This method is extremely effective in locating even the smallest, most elusive leaks, as well as multiple leaks.



INDIVIDUAL LEAK DETECTION PRODUCTS

Part Number	Description	Net Price
LDU-CR-800	CLEANER, 8 OZ SPRAY	\$ 11.58
LDU-OIL-GLO-44-P	DYE, ALL-IN-ONE, 16 OZ	105.26
LDU-OPX-3000	LAMP, LED, 115V CHARGER	184.21
LDU-UVS-40	SPECTACLES, UV ENHANCING	18.95



TESTING TOOLS

FasTest® WEH 17 SERIES



Your Ergonomic Solution to Eliminate Wrenches and Bottle-Necks

FasTest® WEH 17 connectors provide leak tight connections for filling, charging, evacuation and pressure testing. The WEH 17 automatically seals when pressurized. Available in lever or pneumatically activated versions to grip and seal to female threads. Test pressures to 3500 psi.

How to Operate

To Connect: Collapse split collets in accordance with the operating method you have selected. Insert collets into female thread of the _____ to be tested. Expand collet to grip and seal. Activate test media through connector side port.

To Disconnect: Deactivate test pressure. Collapse split collets in accordance with the operating method you have selected. Remove connector from test piece.
Caution: WEH Series 17 connectors are not internally valved. Disconnecting while pressurized will cause leakage of test media.

Technical Data

Seals: Nitrile
Materials: Stainless steel
Temperature: -40° to +250°F
Pressure Ranges: 0 to 5000 psi. (static)
Pneumatic Operation: Requires a minimum air supply of 75 psi.
Rated Pressure: Based on test results using threaded ports manufactured to the referenced specifications and steel material. Other materials or deviations from those specifications may reduce the safe working pressure and should be verified by test. For dynamic pressure cycles or heavy side-load applications please see **FasMate®** Series.

ASSORTMENT KITS AND TOOLS

NPTF Pipe Thread



PART NUMBER	CONNECTS TO FEMALE THREAD	RATED PRESSURE	NET PRICE
HH17H-40204041-1BB1	1/4" NPTF	5000	\$ 662.39
HH17H-40206061-1BB1*	3/8" NPTF	5000	674.86
HH17H-40208081-1BB1	1/2" NPTF	5000	714.56
HH17H-40212121-1BB1	3/4" NPTF	3500	1019.66

MAIN SEAL SET 5/PKG	NET PRICE
S17-041B	\$ 14.89
S17-061B	14.89
S17-081B	19.64
S17-121B	19.64

SAE O-Ring



PART NUMBER	CONNECTS TO FEMALE THREAD	RATED PRESSURE	NET PRICE
HH17H-044021-1BB1	-4 (7/16-20)	5000	\$ 662.39
HH17H-064041-1BB1	-6 (9/16-18)	5000	662.39
HH17H-084061-1BB1*	-8 (3/4-16)	5000	674.86
HH17H-104081-1BB1	-10 (7/8-14)	5000	714.56
HH17H-124121-1BB1	-12 (1 1/16-12)	3500	1019.66

MAIN SEAL SET 5/PKG	NET PRICE
S17-042B	\$ 14.89
S17-062B	14.89
S17-082B	19.64
S17-102B	19.64
S17-122B	19.64

* In-stock. Additional sizes available for order.



TESTING TOOLS

TwistMate® MIT SERIES

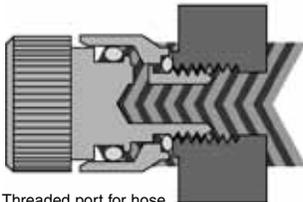


No Wrenches Needed • Hand Tighten Your Port Adapters • Shortens Testing Time

Twistmate® MIT mechanical internal thread connectors and plugs provide fast leak tight threaded connections for testing, filling, flushing, plugging, calibrating or venting applications. The patented pressure assisted sealing eliminates wrench tightening and thread sealants for safe secure connections up to 10,000 psi. With sizes up to 4" NPTF, and high flow design, the MIT is ideal for large unit run testing. Fast and reliable sealing reduces test time and production losses from scrap, rework, and re-testing. Full-flow design for shortest filling and test times.

Spin Twistmate® finger-tight onto thread until face seal contacts test piece. They seal automatically when the system is pressurized. Air, gas or hydraulic pressure in the system provides a sealing force that presses the urethane main seal against the face of the threads. This automatic internal piston action maintains the seal with minimum pressure.

Piston Action



Threaded port for hose quick disconnect.

Operation

- Step 1. Spin **Twistmate®** into the threaded port until the seal makes contact.
- Step 2. Introduce the media and pressure. The external sleeve automatically moves toward the test port enhancing the seal squeeze. Vacuum applications will require finger-tightening.

Technical Data

Seals: Urethane and Nitrile
 Materials: Steel with QPQ or Stainless Steel
 Temperature: -40° to +200°F
 Pressure: Vacuum to 10,000 psi
 Rated Pressure: Based on test results using threaded ports manufactured to the referenced specifications and steel material. Other materials or deviations from those specifications may reduce the safe working pressure and should be verified by test.

NPTF Pipe Thread



PART NUMBER	CONNECTS TO FEMALE THREAD	RATED PRESSURE	CONNECTOR TYPE	NET PRICE
HHMIT-022021	1/8" NPTF	5000	SWIVEL	\$ 65.37
HHMIT-042041	1/4" NPTF	5000	SWIVEL	66.95
HHMIT-062061	3/8" NPTF	5000	SWIVEL	76.27
HHMIT-082081	1/2" NPTF	5000	SWIVEL	82.74
HHMIT-122121X	3/4" NPTF	5000	CONNECTOR	116.06
HHMIT-162161X	1" NPTF	5000	CONNECTOR	129.53
HHMIT-202201X	1-1/2" NPTF	5000	CONNECTOR	178.00
HHMIT-242241X	2" NPTF	5000	CONNECTOR	433.63

MAIN SEAL SET 5/PKG	NET PRICE
S1109-U70	\$ 15.32
S1111-U70	16.47
S1113-U70	17.69
S1209-U70	18.95
S1213-U70	20.37
S1216-U70	21.90
S1222-U70	22.68
S1327-U70	54.63

SAE O-Ring



PART NUMBER	CONNECTS TO FEMALE THREAD	RATED PRESSURE	CONNECTOR TYPE	NET PRICE
HHMIT-044021X	-04 (7/16-20)	5000	CONNECTOR	\$ 60.84
HHMIT-064041X	-06 (9/16-18)	5000	CONNECTOR	69.84
HHMIT-084081X	-08 (3/4-16)	4000	CONNECTOR	84.48
HHMIT-104081X	-10 (7/8-14)	4000	CONNECTOR	84.48
HHMIT-124121X	-12 (1 1/16-12)	4000	CONNECTOR	174.58
HHMIT-164161X	-16 (1 5/16-12)	4000	CONNECTOR	194.89
HHMIT-204201X	-20 (1 5/8-12)	4000	CONNECTOR	266.95

MAIN SEAL SET 5/PKG	NET PRICE
S1109-U70	\$ 15.32
S1111-U70	16.47
S1209-U70	18.95
S1209-U70	18.95
S1213-U70	20.37
S1217-U70	21.90
S1222-U70	22.68

ASSORTMENT KITS AND TOOLS



MEASURING TOOLS

HIGH QUALITY DIGITAL CALIPER

Part Number: HH-CALIPER-6-FR
List Price: \$ 117.00

This high quality instrument measures to 6" (150 mm). A push of a button changes from fractions, mm and inches. Functions also include: On/Off function, zero key, data input capabilities, test for low voltage, and "Auto Off" function when unit sits dormant for more than 4 minutes.



DIGITAL CALIPERS

Part Number	List Price
HH-CALIPER-6	\$ 105.84
HH-CALIPER-6-P	105.84
HH-CALIPER-12	228.62
HH-CALIPER-12-P	228.62

Quality calipers able to measure up to 6" (150mm) or 12" (300mm). A push of a button changes from inches to metric. A clear LCD display shows a reading with a resolution of 0.0005" (0.01mm) that is accurate to ±0.001" (±0.03mm). These calipers in a sturdy, padded plastic case with instructions and a spare battery.



P = No logo.

INNER GROOVE CALIPER

Part Number: INNER CALIPER
List Price: \$ 257.34



Inner Goove Caliper - 200 mm.

INNER DEPTH CALIPER

Part Number: INNER-DEPTH CALIPER
List Price: \$ 338.92



This inner depth caliper is with five modes of measurement (OD, ID, General Depth, Groove Width, and Groove Depth). It has a digital display capable of displaying mm, inches, and fractions and can take measurements of up to 8" (205 mm). The four groove depth pins located on the back of the calipers measure 10mm, 20mm, 3/8", and 3/4".



MEASURING TOOLS

O-RING COMPOUND IDENTIFIER

Part Number: OR RECOGNISER
List Price: \$ 33.14

Identify a variety of o-ring with this handy O-Ring Recongizer kit. Testing for EPDM70, NBR, FFKM (KALREZ®) and FKM o-rings. Three sample seals included.



O-RING GAUGE

Part Number: OR-GAUGE
List Price: \$ 60.88

Slide gauge for measuring standard cross-section o-rings with an inside diameter up to 13".



BORE TAPE

Part Number: BORE TAPE 300
List Price: \$ 215.37

50 mm Wide by 300 mm.





MEASURING TOOLS

O-RING MEASURING CONE

Part Number: O RING CONE-INCH
List Price: \$ 198.13

Handy cone provides o-ring dash numbers instantly. Measures 184 of the most widely used sizes in 5 standard widths, 1/4" ID to 5-5/8" ID. Made of high density polyurethane, the cone stands 17-1/2" high.



POWER PUNCH MAXI SET

Part Number: MAXI PUNCH SET
List Price: \$ 613.45

PART NUMBER	PUNCH RANGE
Punch Set	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1

This extremely high quality punch set includes 13 punches, power punch, centering pin, punch pad and carrying case. Durable cutting heads cut washers and bolt holes effortlessly.

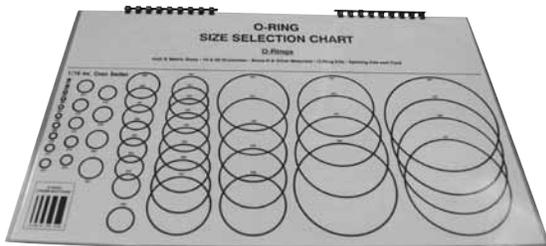


O-RING CHART

Part Number: O-RING CHART
List Price: \$ 47.36
Part Number: O-RING CHART NN
List Price: \$ 47.36

Durable, Accurate, and Fast, these charts allow for easy Standard O-ring size identification. No shop should be without one!

NN = Without  logo.



SEAL REFERENCE CHART

Part Number: SEAL REFERENCE CHART
List Price: \$ 36.75

The seal identification chart will assist you when visually identifying seals at the sales counter or back in the shop. Many seal profile pictures with detailed descriptions and technical data are listed on the multi-color laminated flip-chart.

