

O-RING KITS

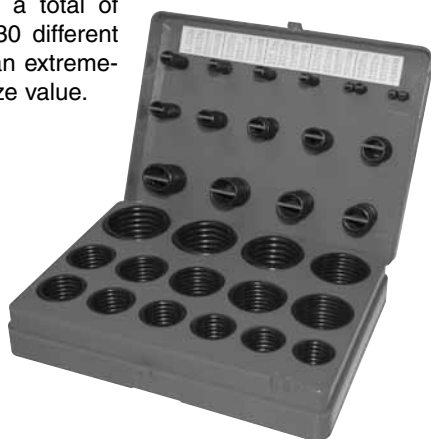
O-RING KIT

Part Number: 568 KIT-A

List Price: \$ 34.23

PART NUMBER	QTY	PART NUMBER	QTY
006-012	20	210-222	10
110-116	13	325-327	7

This kit contains a total of 382 O-Rings in 30 different sizes, providing an extremely low cost per size value.



O-RING METRIC KIT

Part Number: METRIC O KIT-J-A

List Price: \$ 51.28

I.D X C.S. (mm)	QTY	I.D X C.S. (mm)	QTY
3 X 2.0	16	20 X 3.0	12
4 X 2.0	16	22 X 3.0	12
5 X 2.0	16	24 X 3.0	12
6 X 2.0	16	25 X 3.0	12
7 X 2.0	16	27 X 3.0	12
8 X 2.0	16	28 X 3.0	12
10 X 2.0	16	30 X 3.0	12
10 X 2.5	16	32 X 3.0	12
11 X 2.5	13	33 X 3.0	12
12 X 2.5	13	35 X 3.0	12
14 X 2.5	13	36 X 3.0	12
16 X 2.5	13	38 X 3.0	12
17 X 2.5	13	38 X 4.0	9
19 X 2.5	13	41 X 4.0	9
19 X 3.0	12	44 X 4.0	9

The Metric O-Kit J-A contains a total of 389 O-Rings in 30 different sizes, another extremely low cost per size value.





O-RING KITS

U.S. INDUSTRIAL O-RING KIT

Part Number: 568 KIT
List Price: \$ 42.31

PART NUMBER	QTY	PART NUMBER	QTY
005-011	25	111-116	10
012	15	117-121	7
013-018	10	210-211	10
110	15	212-219	7

This kit contains a total of 436 70 Durometer O-Rings in 36 different sizes, providing an extremely low cost per size value.



QUAD WAREHOUSE KIT

Part Number: QUAD-RING WH KIT
List Price: \$ 548.45

PART NUMBER	QTY	PART NUMBER	QTY
QR-4004-012	10	QR-4125-135	3
QR-4013-030	5	QR-4136-154	2
QR-4031-038	3	QR-4204-216	5
QR-4039-048	2	QR-4217-229	3
QR-4108-116	10	QR-4230-338	2
QR-4117-124	5		

Similar to the O-Ring Warehouse kit, the Quad Seal Warehouse kit contains a total of 583 four-lobed seals in 145 different sizes. This kit is ideal for the small distributor who wishes to have a on-hand inventory of Quad seals for counter sales.



ASSORTMENT KITS AND TOOLS

O-RING KITS

O-RING WAREHOUSE KIT

Part Number: 568 WH KIT
List Price: \$ 526.24

PART NUMBER	QTY	PART NUMBER	QTY
001-016	20	217-229	5
017-024	10	230-232	3
025-031	7	233-237	2
032-043	5	325-328	5
044-046	2	329-330	4
110-116	15	331-338	2
117-124	10	901-914	5
125-142	5	916, 918	5
143-146	3	920, 924	5
147-151	2	928, 932	5
210-216	10		

Our O-ring Warehouse kit is ideally suited for the repair shop that needs a large on-hand selection of O-rings to ensure quick repair of all machine types. 1,110 O-Rings in 150 different sizes are included in this kit. Each size is individually packaged in heavy duty ziploc bags to protect against environmental exposure and contamination. All packages are then stored in a sturdy styrene cabinet with pull-out drawers for easy access to parts. Included card shows size, dimensions, and drawer location for each ring.



90 DUROMETER O-RING WAREHOUSE KIT

Part Number: 568 WH KIT-90D
List Price: \$ 493.26

PART NUMBER	QTY	PART NUMBER	QTY
001-016-90D	20	217-229-90D	5
017-024-90D	10	230-232-90D	3
025-031-90D	7	233-237-90D	2
032-043-90D	5	325-328-90D	5
044-046-90D	2	329-330-90D	4
110-116-90D	15	331-338-90D	2
117-124-90D	10	901-914-90D	5
125-142-90D	5	916, 918-90D	5
143-146-90D	3	920, 924-90D	5
147-151-90D	2	928, 932-90D	5
210-216-90D	10		

Our 90 Durometer O-ring Warehouse kit is ideally suited for the repair shop that needs a large on-hand selection of O-Rings to insure quick repair of all machine types. 1,110 O-Rings in 150 different sizes are included in this kit.



O-RING KITS

90 DUROMETER O-RING KIT

Part Number: 568 90D KIT

List Price: \$ 60.25

PART NUMBER	QTY	PART NUMBER	QTY
005-011-90D	25	111-116-90D	10
012-90D	15	117-121-90D	7
013-018-90D	10	210-211-90D	10
110-90D	15	212-219-90D	7

This kit contains a total of 436 90 Durometer O-Rings in 36 different sizes, providing an extremely low cost per size value.



SAE 900 O-RING BOSS KIT

Part Number: 900 BOSS KIT

List Price: \$ 35.88

PART NUMBER	QTY	SAE PORT SIZE	PART NUMBER	QTY	SAE PORT SIZE
568-901	10	-1	568-911	10	-11
568-902	10	-2	568-912	10	-12
568-903	10	-3	568-913	10	-13
568-904	10	-4	568-914	10	-14
568-905	12	-5	568-916	10	-16
568-906	12	-6	568-918	10	-18
568-907	12	-7	568-920	10	-20
568-908	12	-8	568-924	10	-24
568-909	12	-9	568-928	10	-28
568-910	12	-10	568-932	10	-32

This 212 piece assortment contains the most popular size 90 Durometer Boss O-rings in 20 different fitting sizes, individually separated, which will supply your shop, service truck, or parts counter with the sizes you need!



FLUOROCARBON O-RING KIT

Part Number: 568 FC KIT

List Price: \$ 268.96

PART NUMBER	QTY	PART NUMBER	QTY
005-011V	25	111-116V	10
012V	15	117-121V	7
013-018V	10	210-211V	10
110V	15	212-219V	7

This kit contains a total of 436 75 Durometer Fluorocarbon O-Rings in 36 different sizes, providing an extremely low cost per size value.



O-RING KITS

MAX O-RING KIT

Part Number:

MAX 1381 KIT

List Price: \$ 360.19

Part Number:

MAX 1381 KIT-90D

List Price: \$ 395.15

These sturdy kits, packaged in a heavy duty box, contain 1415 O-Rings in the most popular sizes. Every service truck should have one of these. Five internal boxes contain 1/16" C/S, 3/32" C/S, 1/8" C/S, Boss, and Flange fitting o-rings. Contents and quantities are listed below.

Flange Seals

FLANGE NUMBER	QTY	FLANGE NUMBER	QTY
8	10	20	5
12	10	24	5
16	10	32	5

Boss O-Rings

BOSS NUMBER	QTY	BOSS NUMBER	QTY
903	15	907	25
904	25	910	25
906	15	912	15
908	25	916	10

1/16" C/S O-Rings

O-RING NUMBER	QTY	O-RING NUMBER	QTY
006 - 118	25	028	15
019 - 021	20	029	10
022 - 026	15	030	10



3/32" C/S O-Rings

O-RING NUMBER	QTY	O-RING NUMBER	QTY
109 - 118	25	129	10
119 - 120	20	131	10
121 - 127	15	133	10
128	10	135	5

1/8" C/S O-Rings

O-RING NUMBER	QTY	O-RING NUMBER	QTY
210 - 214	20	228	10
215 - 222	15	232	10
223 - 224	10	236	10
226	10		

O-RING KITS

SAE 900 O-RING BOSS FLUOROCARBON KIT

Part Number: 900 BOSS FC
List Price: \$ 189.12

PART NUMBER	QTY	SAE PORT SIZE	PART NUMBER	QTY	SAE PORT SIZE
568-901V	10	-1	568-911V	10	-11
568-902V	10	-2	568-912V	10	-12
568-903V	10	-3	568-913V	10	-13
568-904V	10	-4	568-914V	10	-14
568-905V	12	-5	568-916V	10	-16
568-906V	12	-6	568-918V	10	-18
568-907V	12	-7	568-920V	10	-20
568-908V	12	-8	568-924V	10	-24
568-909V	12	-9	568-928V	10	-28
568-910V	12	-10	568-932V	10	-32



This 212 piece assortment contains the most popular size 90 Durometer FKM Boss O-rings in 20 different fitting sizes, individually separated, which will supply your shop, service truck, or parts counter with the sizes you need!

PTFE O-RING KIT

Part Number: 568 PTFE KIT
List Price: \$ 586.70

This kit contains a total of 325 PTFE O-Rings (55 - 58 Shore D) in 36 different sizes. PTFE O-Rings can withstand temperatures up to 500° F and are impervious to a wide range of chemicals.

PART NUMBER	QTY
005-012T	15
013-018T	10
110-116T	10
117-121T	5
210-219T	5



QUAD RING KIT

Part Number: QUAD-RING KIT
List Price: \$ 99.83

PART NUMBER	QTY	PART NUMBER	QTY
4005-4012	10	4110-4116	6
4013-4016	6	4117-4121	4
4017-4018	5	4210-4219	5

This kit contains a total of 226 Quad rings in 36 different sizes, providing an extremely low cost per size value.





O-RING KITS

O-RING FACE KIT

Part Number: 568 FACE KIT

List Price: \$ 32.16

PART NUMBER	QTY	PART NUMBER	QTY
011-90D	25	018-90D	20
012-90D	25	021-90D	15
014-90D	25	025-90D	10
016-90D	25	029-90D	10

This kit contains a total of 155 90 Durometer O-Rings in 8 different sizes, providing an extremely low cost per size value.

O-RING FLANGE KIT

Part Number: 568 FLANGE KIT

List Price: \$ 37.84

PART NUMBER	QTY	PART NUMBER	QTY
210-90D	10	225-90D	10
214-90D	10	228-90D	10
219-90D	10	232-90D	10
222-90D	10		

This kit contains a total of 70, 90 Durometer O-Rings, in 7 different sizes, providing an extremely low cost per size value.





O-RING KITS

SPLIT FLANGE SEAL KIT

Part Number: SFS KIT

List Price: \$ 102.05

PART NUMBER	Flange Size	Replaces O-Ring No.	Outside Diam.	QTY
SFS-8	1/2	-210	1.005	5
SFS-12	3/4	-214	1.255	5
SFS-16	1	-219	1.565	5
SFS-20	1-1/4	-222	1.755	5
SFS-24	1-1/2	-225	2.125	5
SFS-32	2	-228	2.500	5
SFS-40	2-1/2	-232	3.005	5

This kit contains 35 seals in 7 popular sizes for SAE J518 4-Bolt code 61 and code 62 split flanges.





O-RING KITS

HOSE END & ADAPTER KIT

Part Number: O-R FITTING KIT

List Price: \$ 145.50

This handy kit contains 27 sizes and 216 pieces of 90A Durometer O-rings for boss, split flange, and flat face hose end fittings and adapters. Each box has a graphic label identifying the type of application and dash number for the seal. A chart on the back of the box lists popular OEM part number matches for each O-ring. Due to popular demand, these kits are now available individually.



O-RING KITS

The O-Ring kits shown below are replacement kits for the Hose End & Adapter Kit shown on previous page.

SAE FLANGE SEALS

Part Number: SAE FLANGE SEALS
List Price: \$ 35.69

BOX PART NUMBER	PART NUMBER	QTY
-8	568-210-90D	8
-12	568-214-90D	8
-16	568-219-90D	8
-20	568-222-90D	8
-24	568-225-90D	8
-32	568-228-90D	8

Fits SAE J518 code 61/62 split flanges.



FLAT FACE SEALS

Part Number: FLAT FACE O-RINGS
List Price: \$ 37.80

BOX PART NUMBER	PART NUMBER	QTY
-4	568-011-90D	8
-6	568-012-90D	8
-8	568-014-90D	8
-10	568-016-90D	8
-12	568-018-90D	8
-16	568-021-90D	8
-20	568-025-90D	8
-24	568-029-90D	8

Fits SAE O-ring face seal fittings.



BOSS & TUBE SEALS

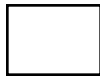
Part Number: BOSS-TUBE FITTINGS-1
List Price: \$ 26.47
Part Number: BOSS-TUBE FITTINGS-2
List Price: \$ 26.47



Fits SAE Boss straight thread tube fittings.

BOX PART NUMBER	PART NUMBER	QTY	KIT NUMBER
-2	568-902	8	FITTINGS-1
-3	568-903	8	FITTINGS-1
-4	568-904	8	FITTINGS-1
-5	568-905	8	FITTINGS-1
-6	568-906	8	FITTINGS-1
-8	568-908	8	FITTINGS-1
-10	568-910	8	FITTINGS-1

BOX PART NUMBER	PART NUMBER	QTY	KIT NUMBER
-12	568-912	8	FITTINGS-1
-14	568-914	8	FITTINGS-1
-16	568-916	8	FITTINGS-2
-20	568-920	8	FITTINGS-2
-24	568-924	8	FITTINGS-2
-32	568-932	8	FITTINGS-2



O-RING KITS

JAPANESE SIZE O-RINGS IN 70 DUROMETER

Part Number: **METRIC O KIT-J**

List Price: **\$ 66.35**



This 380 piece kit contains the most popular Japanese Industrial metric O-ring sizes.

I.D.	C.S	QTY	I.D.	C.S	QTY
2.8	1.9	25	20.8	2.4	8
3.8	1.9	20	21.8	2.4	8
4.8	1.9	20	24.4	3.1	6
5.8	1.9	20	29.4	3.1	7
6.8	1.9	15	21.7	3.5	5
7.8	1.9	15	22.1	3.5	5
8.8	1.9	15	23.7	3.5	7
9.8	1.9	15	24.7	3.5	7
9.8	2.4	15	25.2	3.5	7
10.8	2.4	15	25.7	3.5	7
11.0	2.4	15	27.7	3.5	7
11.8	2.4	12	28.7	3.5	6
12.8	2.4	12	29.2	3.5	6
13.8	2.4	12	29.7	3.5	6
14.8	2.4	12	30.7	3.5	6
15.8	2.4	12	31.2	3.5	6
17.8	2.4	8	14.5	4.0	4
19.8	2.4	8	23.5	4.0	6

JAPANESE SIZE O-RINGS IN 90 DUROMETER

Part Number: **METRIC O KIT-J-90D**

List Price: **\$ 161.46**



This 380 piece kit contains the most popular Japanese Industrial metric O-ring sizes in 90 durometer NBR.

I.D.	C.S	QTY	I.D.	C.S	QTY
2.8	1.9	25	20.8	2.4	8
3.8	1.9	20	21.8	2.4	8
4.8	1.9	20	24.4	3.1	6
5.8	1.9	20	29.4	3.1	7
6.8	1.9	15	21.7	3.5	5
7.8	1.9	15	22.1	3.5	5
8.8	1.9	15	23.7	3.5	7
9.8	1.9	15	24.7	3.5	7
9.8	2.4	15	25.2	3.5	7
10.8	2.4	15	25.7	3.5	7
11.0	2.4	15	27.7	3.5	7
11.8	2.4	12	28.7	3.5	6
12.8	2.4	12	29.2	3.5	6
13.8	2.4	12	29.7	3.5	6
14.8	2.4	12	30.7	3.5	6
15.8	2.4	12	31.2	3.5	6
17.8	2.4	8	14.5	4.0	4
19.8	2.4	8	23.5	4.0	6

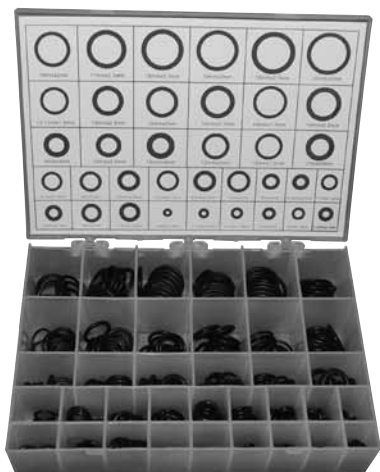


O-RING KITS

EUROPEAN SIZE O-RINGS IN 70 DUROMETER

Part Number: METRIC O KIT-E

List Price: \$ 50.70



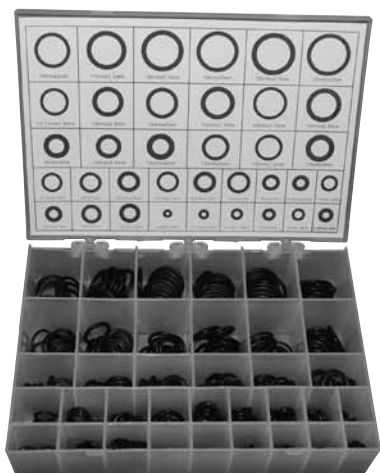
This 500 piece kit contains the most popular European metric O-ring sizes.

I.D.	C.S.	QTY	I.D.	C.S.	QTY
5.0	1.5	20	19.0	2.0	10
13.0	1.5	15	20.0	2.0	10
16.0	1.5	10	4.3	2.4	15
2.2	1.6	20	5.3	2.4	15
3.1	1.6	20	5.6	2.4	15
4.1	1.6	20	7.6	2.4	15
7.1	1.6	20	8.3	2.4	15
9.1	1.6	15	8.6	2.4	15
10.1	1.6	15	10.0	2.5	10
13.1	1.6	15	13.0	2.5	10
4.0	2.0	20	14.0	2.5	10
6.0	2.0	20	15.0	2.5	10
8.0	2.0	15	17.0	2.5	10
9.0	2.0	15	18.0	2.5	10
10.0	2.0	15	19.0	2.5	10
12.0	2.0	15	9.0	3.0	10
14.0	2.0	10	10.0	3.0	10
16.0	2.0	10	11.0	3.0	10

EUROPEAN SIZE O-RINGS IN 90 DUROMETER

Part Number: METRIC O KIT-E-90D

List Price: \$ 172.55



This 500 piece kit contains the most popular European metric O-ring sizes.

I.D.	C.S.	QTY	I.D.	C.S.	QTY
5.0	1.5	20	19.0	2.0	10
13.0	1.5	15	20.0	2.0	10
16.0	1.5	10	4.3	2.4	15
2.2	1.6	20	5.3	2.4	15
3.1	1.6	20	5.6	2.4	15
4.1	1.6	20	7.6	2.4	15
7.1	1.6	20	8.3	2.4	15
9.1	1.6	15	8.6	2.4	15
10.1	1.6	15	10.0	2.5	10
13.1	1.6	15	13.0	2.5	10
4.0	2.0	20	14.0	2.5	10
6.0	2.0	20	15.0	2.5	10
8.0	2.0	15	17.0	2.5	10
9.0	2.0	15	18.0	2.5	10
10.0	2.0	15	19.0	2.5	10
12.0	2.0	15	9.0	3.0	10
14.0	2.0	10	10.0	3.0	10
16.0	2.0	10	11.0	3.0	10

O-RING SPLICE KITS

O-RING SPLICE KIT INCH SIZES

Part Number: 568 SPLICE KIT
List Price: \$ 49.68

Kit Contains:

1. Stock of 70 Durometer Buna O-ring Cord
2. Razor Blade
3. Splicing tool
4. Tube of Adhesive

Replacement Parts

Parts:	List Price
568 SPLICE TOOL	\$10.38 ea
568 ADHESIVE	\$7.44 ea
70 Duro. Cord	

O-RING SPLICE KIT INCH& METRIC SIZES

Part Number: MET/INCH SPLICE KIT
List Price: \$ 88.03

This kit can produce O-Rings of any standard inch size cross-section plus a wide variety of metric sizes. Each kit contains quick drying adhesive, cutting and splicing jig, razor blade, and 14 lengths of 70 Durometer Buna-N cord stock as follows:

Inch cross-sections: (inch)

1/16" (.070), 3/32" (.103), 1/8" (.139),
3/16" (.210), 1/4" (.275)

Metric cross-sections: (mm)

1.6, 2.0, 2.5, 3.0, 3.5, 4.0, 5.0, 5.7, 8.4



These kits can produce O-Rings of any circumference. The 568 kit contains the most popular inch cross sectional sized O-ring cord. The Metric and Inch Kit has both standard inch size cross sectional cord plus a wide variety of metric sized cord. Both kits contain quick drying adhesive, a cutting and splicing jig, a razor blade and 70 Durometer Buna-N cord.

FLUOROCARBON O-RING SPLICE KIT INCH SIZES

Part Number: 568 FC SPLICE KIT
List Price: \$ 192.68

Kit Contains:

1. Stock of 75 Durometer Fluorocarbon Cord
2. Razor Blade
3. Splicing tool
4. Tube of Adhesive

Replacement Parts

Parts:	List Price
568 SPLICE TOOL	\$10.38 ea
568 ADHESIVE	7.44 ea
75 Duro. Fluorocarbon Cord	



BACK-UP RING KITS

574 BACK-UP RING KIT

Part Number: 574 KIT

List Price: \$ 79.22

PART NUMBER	QTY	PART NUMBER	QTY
574-005	10	574-114	10
574-006	10	574-115	10
574-007	10	574-116	10
574-008	10	574-117	5
574-009	10	574-118	5
574-010	10	574-119	5
574-011	10	574-120	5
574-012	10	574-121	5
574-013	10	574-210	7
574-014	10	574-211	7
574-015	10	574-212	7
574-016	10	574-213	7
574-017	10	574-214	5
574-018	10	574-215	5
574-110	10	574-216	5
574-111	10	574-217	5
574-112	10	574-218	5
574-113	10	574-219	5



This 293 piece kit contains 36 of the most popular size "Parback®" Style Dished Cross Section back-up rings. Molded of 90A Durometer Buna-N Rubber, they stretch for installation and return quickly to their original size. SIZES CORRESPOND TO O-RING NUMBERS. Your shop and service truck should not be without this handy kit.

575 BACK-UP RING KIT

Part Number: 575 KIT

List Price: \$ 173.99

PART NUMBER	QTY	PART NUMBER	QTY
575-111	25	575-216	25
575-112	25	575-217	15
575-113	25	575-218	15
575-114	25	575-219	15
575-115	25	575-220	15
575-116	25	575-221	15
575-210	25	575-222	15
575-211	25	575-223	15
575-212	25	575-224	15
575-213	25	575-325	10
575-214	25	575-326	10
575-215	25	575-327	10



This 475 piece kit contains 24 of the most popular size urethane back-up rings. This assortment is essential for parts counters, shop use, and service trucks.



BACK-UP RING KITS

PTFE BACK-UP RING KIT

Part Number: 575 PTFE KIT S
List Price: \$ 180.62

PART NUMBER	QTY	PART NUMBER	QTY
575-005ST	15	575-114ST	10
575-006ST	15	575-115ST	10
575-007ST	15	575-116ST	10
575-008ST	15	575-117ST	5
575-009ST	15	575-118ST	5
575-010ST	15	575-119ST	5
575-011ST	15	575-120ST	5
575-012ST	15	575-121ST	5
575-013ST	10	575-210ST	5
575-014ST	10	575-211ST	5
575-015ST	10	575-212ST	5
575-016ST	10	575-213ST	5
575-017ST	10	575-214ST	5
575-018ST	10	575-215ST	5
575-110ST	10	575-216ST	5
575-111ST	10	575-217ST	5
575-112ST	10	575-218ST	5
575-113ST	10	575-219ST	5



This 325 piece kit contains 36 of the most popular size PTFE Back-up Rings. These rings are compatable with all hydraulic fluids, since they are virtually chemically inert, and can be used in applications involving elevated operating temperatures. These rings are scarf cut to facilitate installation.

RETAINER RING KITS

Each kit has an assortment of retainer rings (Tru-arc, Eaton, or spiral wound style) packed in a reusable plastic box. All rings are made in the USA from carbon spring steel.

Each kit contains: 18 sizes - 9 internal, 9 external • 216 rings per box • 12 rings per size

TRU-ARC

Part Number: 300-310 KIT
List Price: \$ 143.35

PART NUMBER	QTY.	PART NUMBER	QTY.
300-050	12	310-050	12
300-062	12	310-062	12
300-075	12	310-075	12
300-087	12	310-087	12
300-100	12	310-100	12
300-112	12	310-112	12
300-125	12	310-125	12
300-137	12	310-137	12
300-150	12	310-150	12



SPIRAL WOUND

Part Number: SRR KIT
List Price: \$ 241.34

PART NUMBER	QTY.	PART NUMBER	QTY.
WHM-050	12	WSM-050	12
WHM-062	12	WSM-062	12
WHM-075	12	WSM-075	12
WHM-087	12	WSM-087	12
WHM-100	12	WSM-100	12
WHM-112	12	WSM-112	12
WHM-125	12	WSM-125	12
WHM-137	12	WSM-137	12
WHM-150	12	WSM-150	12



EATON

Part Number: ERR KIT
List Price: \$ 308.32

PART NUMBER	QTY.	PART NUMBER	QTY.
NAN-050	12	XAN-050	12
NAN-062	12	XAN-062	12
NAN-075	12	XAN-075	12
NAN-087	12	XAN-087	12
NAN-100	12	XAN-100	12
NAN-112	12	XAN-112	12
NAN-125	12	XAN-125	12
NAN-137	12	XAN-137	12
NAN-150	12	XAN-150	12





RETAINER RING KITS

EXTERNAL RETAINER RINGS

Part Number: 310 KIT
List Price: \$ 84.86

PART NUMBER	SHAFT SIZE	QTY.	PART NUMBER	SHAFT SIZE	QTY.
310-100	1.000	5	310-200	2.000	5
310-125	1.250	5	310-225	2.250	5
310-137	1.375	5	310-250	2.500	5
310-150	1.500	5	310-275	2.750	3
310-175	1.750	5	310-300	3.000	3

INTERNAL RETAINER RINGS

Part Number: 300 KIT
List Price: \$ 160.44

PART NUMBER	BORE SIZE	QTY.	PART NUMBER	BORE SIZE	QTY.
300-075	0.750	10	300-200	2.000	10
300-087	0.875	10	300-225	2.250	5
300-100	1.000	10	300-250	2.500	5
300-112	1.125	10	300-275	2.750	5
300-125	1.250	10	300-300	3.000	5
300-137	1.375	10	300-350	3.500	5
300-150	1.500	10	300-400	4.000	5
300-162	1.625	10	300-450	4.500	2
300-175	1.750	10	300-500	5.000	2

These assortments contain the most popular size retainer rings used in many application such as pumps, motors, and forklift cylinders. Boxed in a handy storage and display case, which will supply your shop, service truck, or parts counter with the sizes you need!





ASSORTMENT KITS

CAT® O-RING KIT

Part Number: CTC-4C4784
List Price: \$ 154.76

This handy kit, in an unbreakable box, contains the 9 most popular sized D-Rings used on Caterpillar® equipment.



CAT® SILICONE O-RING KIT

Part Number: CTC-4C8253
List Price: \$ 416.89

This handy kit, in an unbreakable box, contains 149 silicone o-rings in the 32 most popular sizes used on Caterpillar® equipment.



CAT® FLANGE KIT

Part Number: CTC-2701545
List Price: \$ 40.18

This handy kit contains the 6 most popular sized flange seals O-Rings used on Caterpillar® equipment.



CAT® NITRILE O-RING KIT

Part Number: CTC-4C4782
List Price: \$ 261.49

This handy kit, in an unbreakable box, contains 570 nitrile o-rings in the 32 most popular sizes used on Caterpillar® equipment.



NOTE: Caterpillar® part numbers are used as a reference only. We do not imply that these parts are original equipment parts.



ASSORTMENT KITS

JOHN DEERE O-RING KIT

Part Number: JD-32X451
List Price: \$ 59.61

This John Deere O-Ring kit contains a total of 451
70 Shore A and 90 Shore A O-rings. OEM parts numbered for
easy reference.

- CONTENTS OF KIT
- 160 flat-face fittings
 - 291 low pressure fittings



PART NUMBER	QTY.	PART NUMBER	QTY.	PART NUMBER	QTY.	PART NUMBER	QTY.
R26976	20	R394R	13	T76938*	20	U12037	10
R27490	20	R459R	13	R495R	10	T78784*	20
A4365R	20	T77932*	20	R27149	10	R30319	10
T77814*	20	R34404	13	A4730R*	10	U10289	10
T77613*	20	T77858*	20	T78612*	20	T11220	10
T77857*	20	P47889	13	A3606R	10	R31378	10
F3353R	13	32240	13	R1225R	10	B3690R	10
P46051	13	B2762R	10	R29463	10	P50631	10

* Used for ORS fittings.



ASSORTMENT KITS

KOMATSU® O-RING KIT

Part Number: KOM-30-KU-90

List Price: \$ 293.11

This handy kit, in an unbreakable box, contains 74 21T series o-rings & 165 07000-1 series o-rings in the most popular sizes used on Komatsu® equipment.



PART NUMBER	QTY.	PART NUMBER	QTY.	PART NUMBER	QTY.
21T-09-11410	10	07000-12010	10	07000-13025	7
21T-09-11420	8	07000-12011	10	07000-13028	7
21T-09-11430	7	07000-12012	10	07000-13030	7
21T-09-11440	7	07000-12014	10	07000-13032	7
21T-09-11450	7	07000-12015	10	07000-13035	7
21T-09-11460	7	07000-12016	10	07000-13038	5
21T-09-11470	7	07000-12018	10	07000-13040	9
21T-09-11480	7	07000-12020	10	07000-13042	7
21T-09-11490	7	07000-12055	8	07000-13045	7
21T-09-11510	7	07000-13022	7	07000-13048	7

ASSORTMENT KITS

THE ULTIMATE NITRILE O-RING ASSORTMENT

Part Number: 568 KIT-ULTIMATE

List Price: \$ 3853.71



Includes: 12 drawers and 3 slide racks, plus base. Total weight 232 lbs.

214 Items, 1324 Pieces.

Sizes Include:

-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039, -040, -041, -042, -043, -044, -045, -046, -047, -048, -049, -050

-106, -107, -108, -109, -110, -111, -112, -113, -114, -115, -116, -117, -118, -119, -120, -121, -122, -123, -124, -125, -126, -127, -128, -129, -130, -131, -132, -133, -134, -135, -136, -137, -138, -139, -140, -141, -142, -143, -144, -145, -146, -147, -148, -149, -150, -151, -152, -153, -154, -155, -156, -157, -158, -159, -160, -161, -162, -163

-204, -205, -206, -207, -208, -209, -210, -211, -212, -213, -214, -215, -216, -217, -218, -219, -220, -221, -222, -223, -224, -225, -226, -227, -228, -229, -230, -231, -232, -233, -234, -235, -236, -237, -238, -239, -240, -241, -242, -243, -244, -245, -246, -247, -248, -249, -250, -251, -252, -253, -254, -255, -256, -257, -258, -259, -260, -261, -262

-314, -315, -316, -317, -318, -319, -320, -321, -322, -323, -324, -325, -326, -327, -328, -329, -330, -331, -332, -333, -334, -335, -336, -337, -338, -339, -340, -341, -342, -343, -344, -345, -346, -347, -348, -349, -350, -351, -352, -353, -354, -355

-425, -426, -427, -428, -429

3 racks - each one is: 20" wide x 15-3/4" deep x 15" high
1 base - 20-3/8" wide x 16" deep x 15-1/8" high
Approximately 61" from top to bottom

ASSORTMENT KITS

THE ULTIMATE FLUOROCARBON O-RING ASSORTMENT

Part Number: 568 FC KIT-ULTIMATE

List Price: \$ 8291.94



Includes: 12 drawers and 3 slide racks, plus base. Total weight 232 lbs.

214 Items, 1324 Pieces.

Sizes Include:

-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039, -040, -041, -042, -043, -044, -045, -046, -047, -048, -049, -050

-106, -107, -108, -109, -110, -111, -112, -113, -114, -115, -116, -117, -118, -119, -120, -121, -122, -123, -124, -125, -126, -127, -128, -129, -130, -131, -132, -133, -134, -135, -136, -137, -138, -139, -140, -141, -142, -143, -144, -145, -146, -147, -148, -149, -150, -151, -152, -153, -154, -155, -156, -157, -158, -159, -160, -161, -162, -163

-204, -205, -206, -207, -208, -209, -210, -211, -212, -213, -214, -215, -216, -217, -218, -219, -220, -221, -222, -223, -224, -225, -226, -227, -228, -229, -230, -231, -232, -233, -234, -235, -236, -237, -238, -239, -240, -241, -242, -243, -244, -245, -246, -247, -248, -249, -250, -251, -252, -253, -254, -255, -256, -257, -258, -259, -260, -261, -262

-314, -315, -316, -317, -318, -319, -320, -321, -322, -323, -324, -325, -326, -327, -328, -329, -330, -331, -332, -333, -334, -335, -336, -337, -338, -339, -340, -341, -342, -343, -344, -345, -346, -347, -348, -349, -350, -351, -352, -353, -354, -355

-425, -426, -427, -428, -429

3 racks - each one is: 20" wide x 15-3/4" deep x 15" high

1 base - 20-3/8" wide x 16" deep x 15-1/8" high
Approximately 61" from top to bottom



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

 220 Pieces 11 Sizes	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.

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

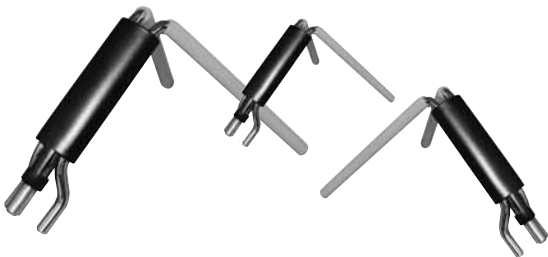
QUALITY ROD U-SEAL INSTALLATION TOOLS



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



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

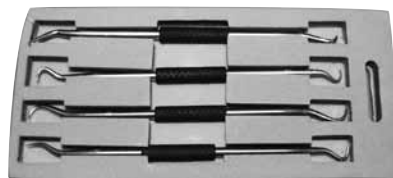
Part Number: SR TOOL
List Price: \$ 185.21



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

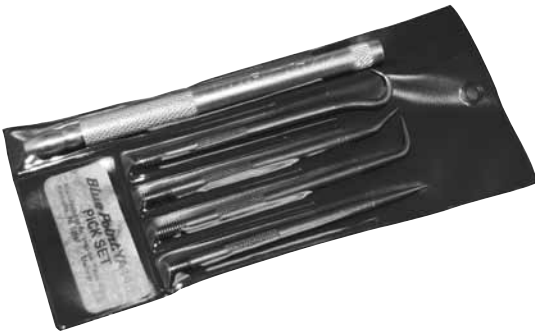
These Bronze O-ring Picks, w/ black vinyl case, aid in the installation and extraction of O-rings.



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 with a twist lid for easy carrying.

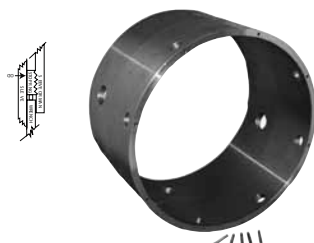


STOP RING WRENCH

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

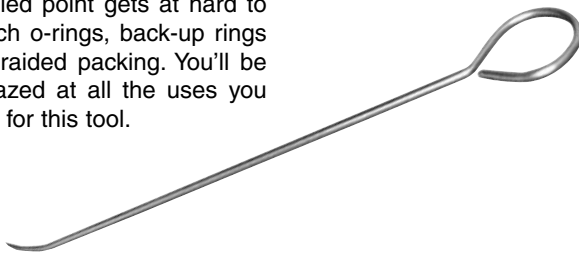
Part Number	Packing Space	List Price
FPH-RTC312	5/16"-up	\$ 14.72
FPH-RTC437	7/16"-up	17.82
FPH-RTC500	1/2"-up	23.88



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



1

(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



2

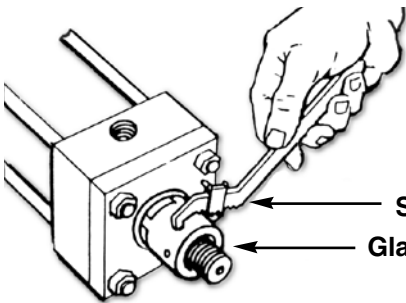
(3) ADJUSTABLE FACE — PIN STYLE

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



3

PARKER GLAND WRENCHES



Spanner Wrench (Sold Separately Above)

Gland Wrench

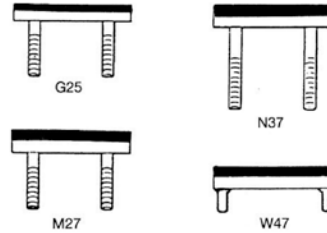


Rod Dia.	Kit #	ID X OD X HT	List Price	Spanner (Sold Separately Above)
1/2", 5/8", 12mm & 14mm	PKH-069590	11/16" X 1-1/8" X 1-3/8"	\$ 104.10	SPAP-2.00X0.19
18mm	PKH-084765	13/16" X 1-1/4" X 1-7/16"	96.56	SPAP-2.00X0.19 or SPAP-3.00X0.19
1" & 22mm	PKH-069591	1-1/16" X 1-5/8" X 1-1/2"	105.86	SPAP-2.00X0.19 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

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-W47-A65	23.02
								H-M27-A67	19.70
MODEL		GY25		MY33		NY40		WY51	
MAX KEYWAY WIDTH		20.3 mm 0.8"	NET PRICE	22.86 mm 0.9"	NET PRICE	30.48 mm 1.2"	NET PRICE	35.56 mm 1.4"	NET PRICE
GRIT SIZE		64 TO 84 mm 2.5" - 3.3"		84 TO 107 mm 3.3" - 4.2"		102 TO 142 mm 4.0" - 5.6"		114 TO 1524 mm 4.5" - 60"	
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-G25-J45	\$ 20.02	H-M27-J45	\$ 20.34	H-N37-J43	\$ 20.30	H-W47-J43	\$ 22.30
		H-G25-J47	19.40	H-M27-J47	19.70	H-N37-J45	20.94	H-W47-J45	23.02
						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	H - S	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											
mm	Inches	mm	Inches	Part Number	Net Price	Part Number	Net Price	Part Number	Net Price	Part Number	Net Price		
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	<p>Master Holder Sets, listed in the table above, are used with Type W47,WW51 and WY51 Stone Sets. Double Length Master Holders require two stone sets—use when it is necessary to bridge interruptions in the bore. Each Master Holder Set consists of two holders for stones and two holders for guides.</p> <p>Stone Supports are required to give rigidity to the hone assembly when honing bores larger than 178 mm (7") diameter.</p>	
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).							

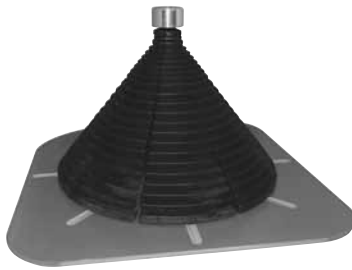
*** Supplied with hone.



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.

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

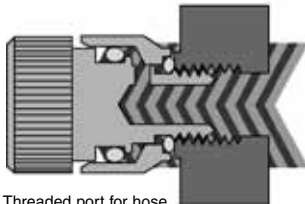


No Wrenches Needed • Hand Tighten Your Port Adapters • Shortens Testing Time

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



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.

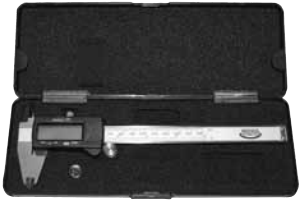


DIGITAL CALIPERS

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.

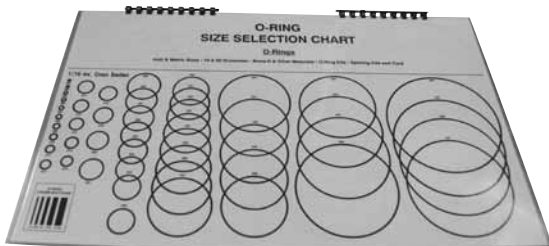


O-RING CHART

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.

