

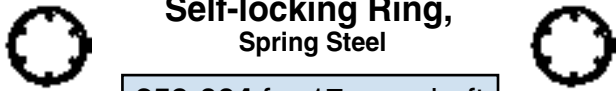
Retaining Rings / Tools

Inch and Metric

Bagues de retenue / Outils


Pouce et Métrique

Self-locking Ring, Spring Steel



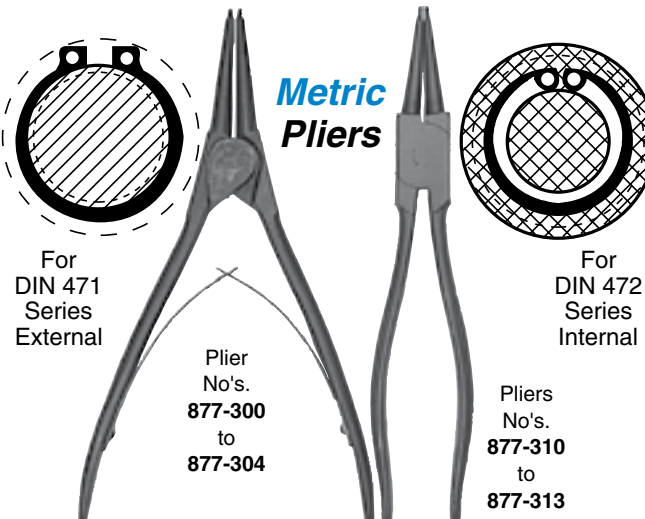
259-004 for 17 mm shaft
PKG QTY. 100

Internal Circlips Spring Steel



Spaenaur No.	Bore	Thick	PKG QTY.
277-054	60 mm	1.5 mm	50
277-051	125 mm	2.5 mm	10
277-052	170 mm	2.5 mm	1
277-053	225 mm	3.0 mm	1

Metric Pliers



For DIN 471 Series External

For DIN 472 Series Internal

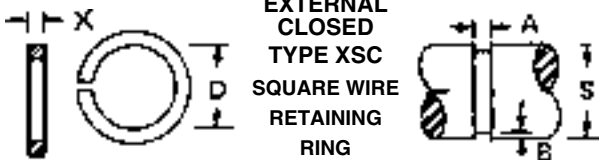
Plier No's. 877-300 to 877-304

Pliers No's. 877-310 to 877-313

RETAINING RING PLIERS

For External Rings		For Internal Rings	
SPAENAUR No.	Ring Size Range	SPAENAUR No.	Ring Size Range
877-300	8 mm to 17 mm	115842	3 mm to 10 mm
877-301	10 mm to 22 mm	877-310	6 mm to 12 mm
877-302	23 mm to 35 mm	877-311	18 mm to 62 mm
877-303	36 mm to 102 mm	877-312	63 mm to 85 mm
877-304	105 mm to 140 mm	877-313	88 mm to 102 mm
PKG QTY. 1		PKG QTY. 1	

EXTERNAL CLOSED TYPE XSC SQUARE WIRE RETAINING RING



Carbon Spring Steel, Phosphate Coated or plain, our option.

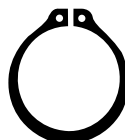
SPAENAUR No.	SHAFT DIAMETER		RING DIMENSIONS		GROOVE DIMENSIONS	
	Dec.	Inch	In. Dia.	Sq. Section	Width	Depth
RXSC-127	.625	5/8"	.579	.078	.085	.020

For more tools and accessories, see pages E141 to E143.

ASSORTMENT 805-441A

DIN 471

Metric EXTERNAL RETAINING RINGS
Carbon Spring Steel Plain Finish
28 SIZES - 300 PIECES



Regular size grey enamelled STEEL drawer, 13-5/16" x 9-1/4" x 2". Shipping Weight: **2.35 kg** (5-1/5 lbs.)



ASSORTMENT 805-443

DIN 6799

Metric EXTERNAL RETAINING RINGS
17 SIZES - 450 PIECES



Regular size grey enamelled STEEL drawer, 13-5/16" x 9-1/4" x 2"
Shipping Weight: **2.35 kg** (5-1/5 lbs.)



For the complete assortment contents turn to A99

Inch

Pouce

Retaining Ring Tools

Outils pour bagues de retenue



**PLIERS
for INTERNAL-
TYPE RINGS**



**PLIERS
for EXTERNAL-
TYPE RINGS**

One plier for internal snap rings; another for external. Using different types and sizes of interchangeable points, a wide range of application is provided. Hexagonal points are automatically aligned and secured in hexagonal shaped jaws, secured by a round head screw in each tempered jaw plate...they cannot twist. Points are highest quality tool steel, accurately machined and tempered.

REGULAR SIZE - FOR MOST POPULAR RING SIZES

SPAENAUR No.

T-445 . Internal Snap Ring Pliers



For INTERNAL Rings up to approx. 2" housing diameter

Pliers 6-5/8" long.

Complete with one T-447 Point range
5 pairs.

PKG QTY. 1

SPAENAUR No.

T-446 . External Snap Ring Pliers



For EXTERNAL Rings up to approx. 1-1/2" shaft dia.

Pliers 6-5/8" long

Complete with one T-447 Point range
5 pairs.

PKG QTY. 1

INTERCHANGEABLE POINTS

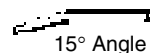
Order by COMPLETE type number as listed below.

SERIES T-449P

For use in either T-445, T-446, or T-446X. Hex shapes automatically aligned and locked in hex jaws of pliers. Can't turn! Tips ground with slight reverse taper for more secure grip in ring hole.

TYPE NO. .039 point identified by plain shank.
.047 point identified by one notch on shank.
.074 point identified by two notches on shank.
.090 point identified by three notches on shank.

SPAENAUR No. **T-449P-039-15**
(Point diameter .039", angle 15°)



15° Angle

SPAENAUR No. **T-449P-074-15**
(Point diameter .074", angle 15°)

INTERCHANGEABLE POINTS RANGES

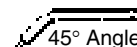
SPAENAUR No. **T-447** - for use in pliers T-445 and T-446



PKG QTY. 5 PAIRS

5 pairs points in plastic box.
One pair each of the following:
Point dia. - .039", angle 15°
Point dia. - .047", angle 15°
Point dia. - .074", angle 15°
Point dia. - .039", angle 45°
Point dia. - .047", angle 90°

SPAENAUR No. **T-449P-039-45**
(Point diameter .039", angle 45°)



45° Angle

SPAENAUR No. **T-449P-074-45**
(Point diameter .074", angle 45°)

SPAENAUR No. **T-449P-090-45**
(Point diameter .090", angle 45°)

MAJOR and SUPER MAJOR Sizes - For the REALLY BIG ONES



Internal Retaining Ring Pliers

SPAENAUR No. **T-3000**

for Ring Sizes 3.50"-9.50"

PKG QTY. 1



External Retaining Ring Pliers

SPAENAUR No. **876-757**

for Ring Sizes 6.75"-10.00"

PKG QTY. 1

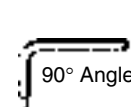
Effortless Single-Handed Assembly

SPAENAUR No.

876-523 TIPS ONLY for use with Pliers T-3000

876-767 TIPS ONLY for use with Pliers 876-757

PKG QTY. 1 1 Set - 2 Tips



90° Angle

SPAENAUR No. **T-449P-039-90**
(Point diameter .039", angle 90°)

SPAENAUR No. **T-449P-047-90**
(Point diameter .047", angle 90°)

SPAENAUR No. **T-449P-074-90**
(Point diameter .074", angle 90°)

PKG QTY. 1 1 pair of one type.

SERIES T-459P

Hex shaped - cannot twist because they are automatically aligned and secured in hex jaws of the pliers. A round head screw on each tempered jaw plate locks points in place. Point tips are ground with slight reverse taper for more secure grip

SPAENAUR No. in ring holes.

T-459P-108-15 (Point diameter .108", angle 15°)

T-459P-108-45 (Point diameter .108", angle 45°)

T-459P-123-45 (Point diameter .123", angle 45°)

.108" Point identified by plain shank
.123" Point identified by one notch on shank

PKG QTY. 1 1 pair of one type.

Retaining Ring Tools

Inch

Outils pour bagues de retenue



Pouce

Pliers are precision stamped from high grade steel, bright Zinc plate finish, fitted with springs and plastic non-slip grips. Tips are heat-treated for maximum toughness and wear.



Retaining Ring MASTER PLIER KIT

Kit consists of two pliers, and a full set of tips (straight, 45 degree and 90 degree) — all in an attractive case.

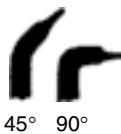
Master Plier Kit No.	For INTERNAL Rings	For EXTERNAL Rings
876-561	Sizes:  X25 to X137	Sizes:  25 to 143

PKG QTY. 1

Tips:

SPAENAUR No. 876-564

Straight or Angle

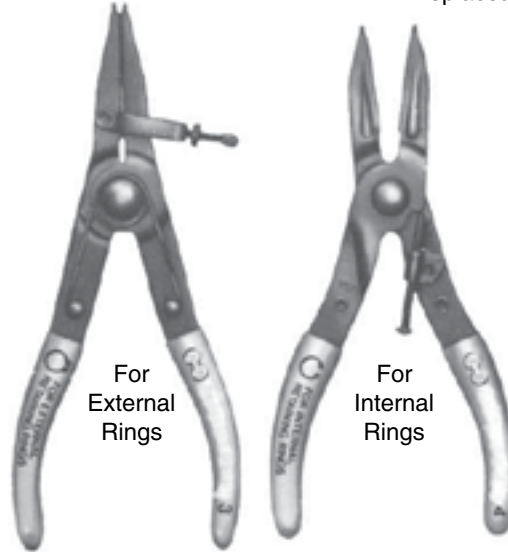


Tip Set (16 tips)
Includes straight, 45 degree and 90 degree tips.
For use with Ring Styles:
Internal: sizes X25 to X175
External: sizes 25 to 143

Tip Unit Package: 1 Set (16 tips)
(Tips not sold individually or in pairs)

Standard Type Retaining Ring Pliers

Note: Tips not replaceable



Standard pliers have plastic non-slip, grips — easy on the hands and oil resistant. — plus stop screws for positive location, and springs for ease of operation. The plier for mass-production assembly.

3 Nose Styles

4 Plier Sizes

For INTERNAL Rings

Ring Size Range	Straight Nose PLIER No.	45° Angle Nose PLIER No.	90° Angle Nose PLIER No.	PKG QTY.
37 to 102	876-565	876-568	876-571	1
106 to 175	876-566	876-569	876-572	1
181 to 347	876-567	876-570	876-573	1

NOTE: For larger Rings, use T-3000 "Major" Pliers - see page E141.

For EXTERNAL Rings

Ring Size Range	Straight Nose PLIER No.	45° Angle Nose PLIER No.	90° Angle Nose PLIER No.	PKG QTY.
25 to 87	876-574	876-577	876-580	1
93 to 143	876-575	876-578	876-581	1
150 to 350	876-576	876-579	876-582	1

For Larger rings, use T-3000 and 876-757 see page E141

Inch

Retaining Ring Tools / Retaining Ring Assortment

Pouce

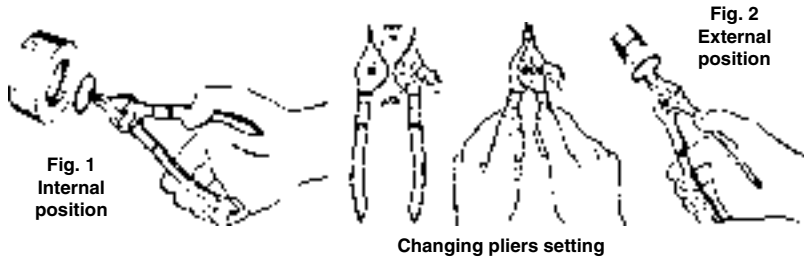
Outils de bague de retenue / Assortiment de bagues de retenue

RETAINING RING PLIERS

(Convertible Style) For Axial Assembly

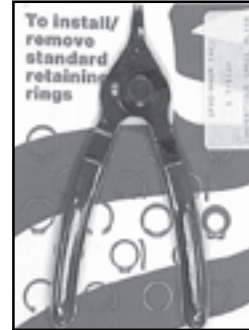
- **To compress internal-type rings** for insertion into a bore or housing, as shown in Fig. 1 below.
- **To expand external-type rings** for assembly over a shaft, as shown in Fig. 2.

Pliers will also set metric equivalent sizes.



T-1120 Plier for small sizes. Will set R3000-37 to -102, and R3100-25 to -87.

T-1340 Plier for large sizes. Will set R3000-106 to -175, and R3100-93 to -143.



PKG QTY. 1

Also see **KNIPEX Professional Retaining Ring Pliers** pages P127-P128.
Hazet Special Lockring Pliers page N36.

SPAENAUR
Fasteners Right Now®

See our wide range of Retaining Ring Assortments
 on Pages A96-A99

ASSORTMENT
ASSORTIMENT **805-443**

DIN 6799

METRIC
RETAINING
RINGS
 External

17 SIZES
450 PIECES

Regular size grey
 enamelled STEEL drawer
 13-5/16" x 9-1/4" x 2"
 Shipping Weight:
2.35 kg (5-1/5 lbs.)



Spaenaur No.	Compatible Shaft Diameter	Groove Diameter	Qty.	Page
250-517	1.0mm - 1.4mm	0.8mm	40	E139
250-501	1.4mm - 2.0mm	1.2mm	35	
250-502	2.0mm - 2.5mm	1.5mm		
250-503	2.5mm - 3.0mm	1.9mm		
250-F07-1Y	3.0mm - 4.0mm	2.3mm	30	
250-F09-1W	4.0mm - 5.0mm	3.2mm	25	
250-F06-1P	5.0mm - 7.0mm	4.0mm		
250-F05-1A	6.0mm - 8.0mm	5.0mm		
250-508	7.0mm - 9.0mm	6.0mm		
250-509	8.0mm - 11.0mm	7.0mm	20	
250-510	9.0mm - 12.0mm	8.0mm		
250-511	10.0mm - 14.0mm	9.0mm		
250-512	11.0mm - 15.0mm	10.0mm		
250-F12-1T	13.0mm - 18.0mm	12.0mm		
250-514	16.0mm - 24.0mm	15.0mm		
250-515	20.0mm - 31.0mm	19.0mm		
250-516	25.0mm - 38.0mm	24.0mm		