

CATALOG  
**14**

Section P



**SPAENNAUR**

*Fasteners Right Now<sup>®</sup>*

# Hand Tools



# Outils manuels

<b>Allen®</b> Hex Keys & Key Sets	Inch & Metric	<b>P2</b>	Pouce et métrique	<b>Allen®</b> Clés et jeux de clés
<b>Hex &amp; Specialty Keys, Key Sets, Drivers &amp; T-Handles</b>	Inch & Metric	<b>P7</b>	Pouce et métrique	<b>Clés hexagonales et spécialisées, jeux de clés, manches et poignées en «T»</b>
<b>BONDHUS®</b> Hex Key Sets	Inch & Metric	<b>P11</b>	Pouce et métrique	<b>BONDHUS<sup>MD</sup></b> Jeux de clés hexagonales
<b>Torx®</b> Specialty Key Wrenches, Wrench Sets	Inch	<b>P12</b>	Pouce	<b>Torx<sup>MD</sup></b> Clés spécialisées, jeux de clés
<b>Insert/Drive Bits, Screwdrivers, Nut Drivers &amp; T-Handles</b> Phillips, Slot, Torx®, Pozidriv®, Tri-Wing®, Square Socket, Hex Socket, Hex Drive, Spanner, Security	Inch & Metric	<b>P13</b>	Pouce et métrique	<b>Insérer/bits d'entraînement, tournevis, tourne-écrous &amp; poignées en «T»</b> Phillips, fendue, Torx <sup>MD</sup> , Pozidriv <sup>MD</sup> , Tri-Wing <sup>MD</sup> , prise carrée, prise hexagonale, 6 pans, spanner, sécurité
<b>Wera®</b> Screwdrivers, Nut Drivers, T-Handles; Phillips, Slot, Torx®, Square Socket, Hex Socket	Inch & Metric	<b>P19</b>	Pouce et métrique	<b>Wera<sup>MD</sup></b> Tournevis, tourne-écrous, poignées en «T»; Phillips, fendue, Torx <sup>MD</sup> , prise carrée, prise hexagonale
<b>Drill Bits, Countersinks, Counterbores, End Mills &amp; Reamers</b> High Speed, Extra Long, Reduced Shank, Masonry, Spade, Twist & Sets	Inch & Metric	<b>P25</b>	Pouce et métrique	<b>Forets, fraises, contre-alésages, fraises &amp; alésoirs</b> Haute vitesse, extra long, queue réduite, maçonnerie, pelle, torsion et ensembles
<b>Weldon®</b> Countersinks; End Mills – 2 & 4 Flutes	Inch	<b>P31</b>	Pouce	<b>Weldon<sup>MD</sup></b> Fraises; Fraises en bout – 2 et 4 goujures
<b>Reamers</b>	Metric	<b>P45</b>	Métrique	<b>Alésoirs</b>
<b>Hand &amp; Machine Taps, Dies &amp; Tools; Tap &amp; Die Sets</b>	Inch & Metric	<b>P50</b>	Pouce et métrique	<b>Tarands, filières et outils machine et manuels; jeux de tarands et filières</b>
<b>Screw Extractor Sets; The Drill-Out® Bolt Extractor Kits &amp; Sets; Pipe Extractors &amp; Sets</b>	Inch & Metric	<b>P73</b>	Pouce et métrique	<b>Jeux d'extracteurs de vis; kits et jeux d'extracteurs de boulons The Drill-Out<sup>MD</sup>; extracteurs de tuyaux et jeux</b>
<b>Feeler Gauges; Calipers; Thread Size, Length &amp; Pitch Gauges; Tape Measures</b>	Inch & Metric	<b>P77</b>	Pouce et métrique	<b>Jauges d'épaisseur; pieds à coulisse; jauges de taille, de longueur et de pas de filets; rubans à mesurer</b>
<b>Shim Stock Punch &amp; Die Set</b>	Inch & Metric	<b>P77</b>	Pouce et métrique	<b>Jeu de poinçons et de filières pour fournitures pour rondelles d'ajustage</b>
<b>Paint Striping Kits &amp; Applicator Wheel Heads</b>	Inch & Metric	<b>P83</b>	Pouce et métrique	<b>Kits pour bandes décoratives et roulettes d'application</b>

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# Hand Tools



# Outils manuels

<b>Wrenches &amp; Nut Drivers</b> Spanner Wrenches; Socket Wrenches; T-Handle Wrenches (Square); Hex Nut Drivers; Single & Double Open-End Wrenches	Metric	<b>P84</b>	Métrique	<b>Clés et tourne-écrous</b> Clés tricoises; clés à douilles; clés à poignée en «T» (carrées); tourne-écrous; clés à fourche simples et doubles
<b>Straight Punches &amp; Chisels</b>	Inch & Metric	<b>P90</b>	Pouce et métrique	<b>Poinçons droits et ciseaux</b>
<b>Blank Tags &amp; Stamping Punch Sets</b>	Inch	<b>P92</b>	Pouce	<b>Étiquettes vierges et jeux de poinçons</b>
<b>Vise-Grip®</b> Pliers & Locking 'C' Clamps	Inch	<b>P94</b>	Pouce	<b>Vise-Grip<sup>MD</sup></b> Pincés et serre-joints blocables
<b>Channel Lock®</b> Pliers, Cutters & Wrenches	Inch	<b>P97</b>	Pouce	<b>Channel Lock<sup>MD</sup></b> Pincés, pincés coupantes et clés
<b>Toggle Action &amp; Locking Clamps; C-Clamps</b>	Inch	<b>P99</b>	Pouce	<b>Serre-joints à bascule et pincés bloquantes; serre-joints</b>
<b>Hacksaws; Files &amp; File Handles</b>	Inch & Metric	<b>P104</b>	Pouce et métrique	<b>Scies à métaux; limes et manches de limes</b>
<b>Flexovit®</b> Abrasive Grinding Wheels; Cutoff Wheels; Bench Grinder Wheels; Wheel Brushes; Sanding Discs; Wire Wheel & Wire Cup Brushes; Carbide Burs	Inch	<b>P107</b>	Pouce	<b>Flexovit<sup>MD</sup></b> Roues de meulage abrasives; roues de coupe; roues de meuleuse d'établi; brosses pour roues; disques de ponçage; roues de broissage métallique droites et en coupe; fraises au carbure
<b>British Thread Fasteners Tools</b>	Inch & Metric	<b>P112</b>	Pouce et métrique	<b>Outils de fixation pour filets anglais</b>
<b>Hammers, Mallets &amp; Body Shop Tools</b>	Inch & Metric	<b>P113</b>	Pouce et métrique	<b>Marteaux, maillets et outils d'atelier de carrosserie</b>
<b>Snips; Crimpers; Wire Stripper &amp; Cutter; Scissors</b>	Inch	<b>P119</b>	Pouce	<b>Cisailles; sertisseuses; pincés coupantes et dénudeuses; ciseaux</b>
<b>Knipex® Pliers</b> Table of Contents & Symbols Legend	Inch & Metric	<b>P120</b>	Pouce et métrique	<b>Pincés Knipex<sup>MD</sup></b> Table des matières et légende des symboles
<b>Ullman</b> Inspection Tools, Pick Sets, Scribes, Magnetizer/Demagnetizer, Screw/Nut Starters, Tool Organizers	Inch	<b>P140</b>	Pouce	<b>Ullman</b> Outils d'inspection, jeux de pics, traçoirs, magnétiseur-démagnétiseur, pose-vis/pose-écrous, rangements pour outils
<b>NEW</b> <b>Continental® Abrasives</b> Grinding Wheels, Cut-off Wheels, Chopsaw Wheels	Inch	<b>P146</b>	Pouce	<b>Abrasifs Continental<sup>MD</sup></b> Roues de meulage, roues de coupe, roues de scies à métaux <b>NOUVEAU</b>
<b>Extractors, Pullers &amp; Separators</b>	Inch & Metric	<b>P147.1</b>	Pouce et métrique	<b>Extracteurs, décolleurs et séparateurs</b>
<b>Section Index</b>		<b>P148</b> <b>P149</b>		<b>Index de section</b>

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## Hex Key Sets - Short Arm

Precision tolerances, heat treated alloy steel, black finish.

### AW56030 In pouch.

11 keys, short arm series, inch sizes: .050, 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8.

### AW56032 In pouch.

15 keys, short arm series, inch sizes: .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8.

### AW56011 In pouch.

20 keys, short arm series, inch sizes: .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4.

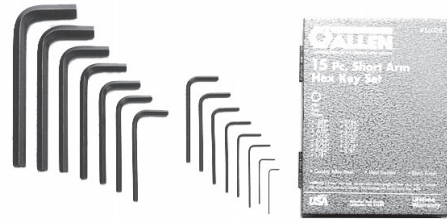


### AW56026 In sturdy metal box.

18 keys, short arm series, inch sizes: .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2, 9/16, 5/8.

### AW56028 In sturdy metal box.

15 keys, short arm series, inch sizes: .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8.



### AW56080 In plastic holder.

13 hex keys, short arm series, inch sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8.



## Hex Key Sets - Long Arm

### AW56034 In pouch.

9 keys, 6" long arm series, inch sizes: 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8.

### AW56150 In pouch.

11 keys, long arm series, inch sizes: .050, 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8.

### AW56014 In pouch.

15 keys, long arm series, inch sizes: 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2, 9/16, 5/8, 3/4.

### AW56110 In pouch.

7 keys, 12" extra long arm series, inch sizes: 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4.



## Hex Key Sets - Long Arm

### AW56152 In plastic holder.

12 keys, long arm series, inch sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16.

### AW56009 In plastic holder.

22 keys, long arm series, inch and metric sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, and **1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm.**



Precision tolerances, heat treated alloy steel, black finish.

## Hex Key Set - Long Arm

**AW56128** In sturdy metal box.

13 keys, long arm series, inch sizes: 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2.



**AW56190** In caddy.

13 keys, Ball Plus™ sets, inch sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8.

**AW56195** In pouch.

8 keys, Ball Plus™, inch sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32.

**AW56196** In caddy.

12 keys, Ball Plus™, inch sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16.

**AW56192** In caddy.

22 keys, Ball Plus™, inch and metric sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8 and **1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm.**

## Ball Plus™ Long Arm Sets



## BALL PLUS™ Cushion Grip T-Handle Key Sets

**AW56130** In pouch.

10 keys, Ball Plus™, inch sizes: 3/32\*, 7/64\*, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8. (\*Hex End Only)

**AW56134** In pouch.

11 keys, Ball Plus™, inch and metric sizes: 5/32, 3/16, 7/32, 1/4, 5/16, 3/8 and **4, 5, 6, 8, 10 mm.**



## BALL PLUS™ Screwdriver Handle - Sets

**AW56182** In pouch.

13 keys, Ball Plus™, screwdriver handle, inch sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8.

**AW56183** In pouch.

7 keys, Ball Plus™, screwdriver handle, inch sizes: 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16.

**AW56184** In pouch.

11 keys, Ball Plus™, **long** screwdriver handle, inch sizes: 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8.



## Plas-T-Key® Handle

Plas-T-Key® Drivers are molded of red butyrate for comfort and toughness. Size-marked handles show bit size.

NOMINAL BIT		SPAENAUR No.	NOMINAL BIT		SPAENAUR No.
SIZE IN.	LENGTH, IN.		SIZE IN.	LENGTH, IN.	
3/32	1-7/8	AW57500	9/64	2-1/2	AW57506
7/64	2-1/8	AW57502	5/32	2-11/16	AW57508
1/8	2-5/16	AW57504	3/16	3-3/32	AW57510



### AW56112 In metal stand.

Wrenchmate contains ten 6" long Allen Plas-T-keys® in a metal stand. Inch sizes: 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8. Each Plas-T-Key has a size-marked molded plastic handle. Just right for workbench.

### Components of AW56112

NOMINAL BIT SIZE INCHES	EXPOSED BIT LENGTH, IN.	SPAENAUR No.
3/32	4.5	AW58400
7/64	4.5	AW58402
1/8	4.5	AW58404
9/64	4.5	AW58406
5/32	4.5	AW58408
3/16	4.5	AW58410
7/32	4.5	AW58412
1/4	4.5	AW58414
5/16	4.5	AW58416
3/8	4.5	AW58418



### AW56064 In metal stand.

Cushion-Grip T-Handle Set includes 10 drivers with Allen Bits in inch sizes: 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8. Bit lengths 6". Large cushioned handles provide more torque and comfort. Modern metal stand with individual recesses, perfect for workbench.

### AW56161 In vinyl wrap pouch.

Cushion-Grip T-Handle Set includes 8 drivers with Allen Bits in inch sizes: 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4. Overall lengths 6".

### Cushion-Grip T-Handle Individual Components

NOMINAL BIT OVERALL LENGTH, IN.		SPAENAUR No.	NOMINAL BIT OVERALL LENGTH, IN.		SPAENAUR No.
SIZE IN.	LENGTH, IN.		SIZE IN.	LENGTH, IN.	
3/32	6	AW57300	3/16	6	AW57310
7/64	6	AW57302	7/32	6	AW57312
1/8	6	AW57304	1/4	6	AW57314
9/64	6	AW57306	5/16	6	AW57316
5/32	6	AW57308	3/8	6	AW57318

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**AW56163** In metal stand.

Cushion-Grip T-handle Set includes 10 drivers with Allen Bits in inch sizes: 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8. Bit lengths 9". Large cushioned handles provide more torque and comfort. Modern metal stand with individual recesses, perfect for workbench.

**AW56164** In vinyl wrap pouch.

Cushion-Grip T-handle Set includes 8 drivers with Allen Bits in inch sizes: 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4. Bit lengths 9".

**Cushion-Grip T-Handle Individual Components**

NOMINAL BIT		SPAENAUR No.	NOMINAL BIT		SPAENAUR No.
SIZE IN.	LENGTH, IN.		SIZE IN.	LENGTH, IN.	
3/32	9	AW58250	3/16	9	AW58260
7/64	9	AW58252	7/32	9	AW58262
1/8	9	AW58254	1/4	9	AW58264
9/64	9	AW58256	5/16	9	AW58266
5/32	9	AW58258	3/8	9	AW58268



**Fold-Up Hex Key Sets**

Precision tolerances, heat treated alloy steel, black finish.

**AW56347**

Contains 9 bits in inch sizes: 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4.

**AW56349**

Contains 7 bits in metric sizes: 1.5, 2, 2.5, 3, 4, 5, 6 mm.

Wrenches open from the top and bottom, for easy access and use.

Rotates 270° to firm stop for better torquing and safety.



Rounded edges never cut hands or catch clothing.

Handle is specially contoured for better feel and control

**AW56301**

**3 Pc. Fold-Up Key Sets** Include: 9 Bit Inch Size Wrench Set, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16;  
**7 Bit Metric Size Wrench Set 1.5, 2, 2.5, 3, 4, 5, 6 mm;**  
7 Bit Torx® Size Wrench Set T-10, T-15, T-20, T-25, T-27, T-30, T-40.

**AW56073**

9 Bits Inch Size Wrench Set  
.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16.  
Bit Lengths 1-5/8 - 2-1/4". Colour: Flame Orange.

**AW56076**

7 Bits Metric Size Wrench Set  
1.5, 2, 2.5, 3, 4, 5, 6 mm.  
Bit Lengths 64-70 mm. Colour: Electric Blue.



AW56301 set includes all three fold-ups at left.

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### Short Arm Series Sets

Precision tolerances, heat treated alloy steel, black finish.

**AW56038** In sturdy metal box.  
12 metric keys, short arm series, mm sizes: .0.7, 0.9, 1.3, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm.

**AW56036** In sturdy metal box.  
15 metric keys, short arm series, mm sizes: 0.7, 0.9, 1.3, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12, 14, 17 mm.

**AW56008** In plastic holder.  
9 metric keys, short arm series, mm sizes: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm.



### Long Arm Series Set

**AW56085**  
In sturdy metal box.  
10 genuine Allen long arm series hex keys, mm sizes: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12 mm.



### Cushion-Grip T-Handle Series Set

**AW56093** In vinyl wrap pouch.  
Set contains five drivers with Bits in mm sizes: 2.5, 3, 4, 5, 6 mm.



### Ball Plus™ Long Arm Set

**AW56194**  
9 keys, Ball Plus™, metric sizes: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm.



### Ball Plus™ Cushion Grip T-Handle Key Set

**AW56132** In pouch.  
7 keys, Ball Plus™, metric sizes: 2.5\*, 3, 4, 5, 6, 8, 10 mm. (\*Hex End Only)





Inch

# Hex & Specialty Keys / Hex & Specialty Key Sets

Pouce

# Clés Hexagonales / Clés spécialisées / Jeux de clés spécialisées et hexagonales

## HEX KEYS

**For INCH SIZES**  
Contact Sales Desk For Package Quantities

KEY FIT TABLE - FITS NOMINAL THREAD SIZE								KEY SIZE (Width Across Flats)	ALLOY STEEL Plain		CHROME VANADIUM			
SET	SOCKET HEAD CAP (1936 SERIES)	SOCKET HEAD CAP (1960 SERIES)	SOCKET LOW HEAD CAP	FLAT HEAD CAP	BUTTON HEAD CAP	SHOULDER	PIPE PLUG		Regular SHORT ARM Series	Special LONG ARM Series	SPAENAUR No.		SPAENAUR No.	
											SHORT ARM Plain	SHORT ARM Nickel Pltd.	LONG ARM Plain	LONG ARM Nickel Pltd.
0								.028"	SS-303K	—	—	—	—	—
								3/64"	—	—	130-294	130-294NP	—	—
1, 2				0	0			.035"	SS-304K	—	—	—	—	—
3, 4	0, 1	0	4	1, 2	1, 2			.050"	SS-61K	—	130-326	130-326NP	—	—
5, 6	2	1	5,6	3, 4	3, 4			1/16"	SS-62K	—	130-327	130-327NP	130-345	130-345NP
8	3, 4	2, 3	8	5, 6	5, 6			5/64"	SS-63K	SS-63KL	130-328	130-328NP	130-346	130-346NP
10	5, 6	4, 5	10	8	8			3/32"	SS-64K		130-329	130-329NP	130-347	130-347NP
		6						7/64"	SS-105K	130-051	—	—	—	—
1/4	8		1/4	10	10	1/4		1/8"	SS-65K	SS-65KL	130-330	130-330NP	130-348	130-348NP
		8						9/64"	SS-106K	130-T07-1W	—	130-331NP	—	—
5/16	10	10	5/16	1/4	1/4	5/16	1/16	5/32"	SS-66K	SS-66KL	130-332	130-332NP	130-349	130-349NP
3/8	1/4	1/4	3/8	5/16	5/16	3/8	1/8	3/16"	SS-67K	SS-67KL	130-333	130-333NP	130-350	130-350NP
7/16	5/16		7/16	3/8	3/8			7/32"	SS-103K	SS103KL	130-334	130-334NP	130-351	130-351NP
1/2		5/16	1/2	7/16		1/2	1/4	1/4"	SS-68K	SS-68KL	130-335	130-335NP	130-352	130-352NP
								9/32"	—	—	130-295	130-295NP	—	—
5/8	3/8, 7/16	3/8	5/8	1/2	1/2	5/8	3/8	5/16"	SS-69K	SS-69KL	130-336	130-336NP	130-353	130-353NP
								11/32"	—	—	130-296	130-296NP	—	—
3/4	1/2	7/16, 1/2		5/8, 3/4	5/8	3/4	1/2	3/8"	SS-104K	130-050	130-337	130-337NP	130-354	130-354NP
								7/16"	—	SS-310KL	130-338	130-338NP	130-355	130-355NP
7/8	5/8	5/8				1		1/2"	—	SS-300KL	130-339	130-339NP	130-356	130-356NP
1, 1 1/8	3/4, 7/8						3/4	9/16"	—	SS-301KL	130-340	130-340NP	—	—
1 1/4, 1 3/8	1	3/4				1 1/4	1	5/8"	—	SS-302KL	130-341	130-341NP	—	—
1 1/2	1 1/8, 1 1/4, 1 3/8	7/8, 1					1 1/4	3/4"	—		130-342	130-342NP	130-357	130-357NP
		1 1/8, 1 1/4						7/8"	—	SS-306KL	130-343	130-343NP	—	—
1 3/4, 2	1 1/2	1 3/8, 1 1/2					1 1/2, 2	1"	—	SS-307KL	130-344	130-344NP	—	—

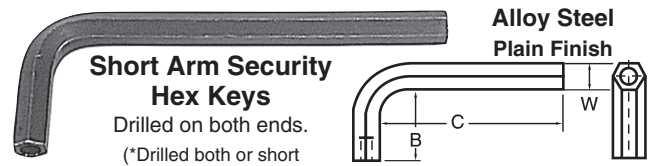
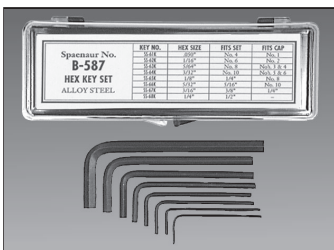
### HEX KEY SETS INCH SIZES

**SPAENAUR HEXAGON KEYS** are made to fine tolerances from special alloy steel. All ends are chamfered for easy insertion. A snug fit is certain when you use these keys with **SPAENAUR** Hex-socket Screws.

**PKG QTY. 1**  
**SPAENAUR No. B-587**

#### REGULAR SHORT ARM KEYS

- Contains 8 sizes Hex Keys
- Handy transparent plastic case
- Hex Key sizes: .050" to 1/4"
- Fit Set Screws from #3 to 9/16" diameter
- Chart on lid shows complete size data



### Short Arm Security Hex Keys

Drilled on both ends.  
(\*Drilled both or short end only - our option.)

SPAENAUR No.	NOMINAL KEY OR BIT AND SOCKET SIZE	W WIDTH ACROSS FLATS Max.	B LENGTH OF SHORT ARM Max.	C LENGTH OF LONG ARM Max.	HOLE SIZE +.005
130-100	3/32"(0.094)"	0.0937"	0.750"	2.094"	.050"
130-093	1/8" (0.125)"	0.1250"	0.844"	2.344"	.075"
130-094	9/64"(0.141)"	0.1406"	0.891"	2.469"	.084"
130-T03-1C	5/32"(0.156)"	0.1562"	0.938"	2.594"	.097"
130-096	3/16"(0.188)"	0.1875"	1.031"	2.844"	.102"
130-097	7/32"(0.219)"	0.2187"	1.125"	3.094"	.123"
*130-098	1/4" (0.250)"	0.2500"	1.219"	3.344"	.123"
*130-099	5/16"(0.312)"	0.3125"	1.344"	3.844"	.201"

**PKG QTY. 10**

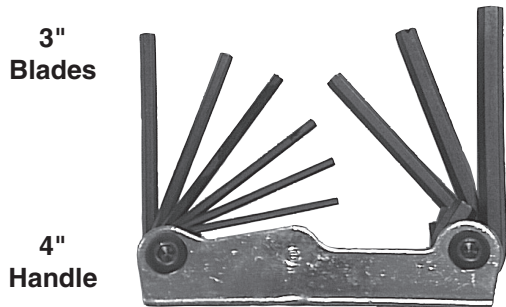
CATALOG 14

SPAENAUR

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

**EASY TO USE - HARD TO LOSE...**

Holder handles are designed to fit the hand and are deburred and chrome plated for comfort and durability. The most popular folding hex key set. Often copied, but never equalled in quality or performance.



**Medium Handle Folding Deluxe Hex Key Set**

The ideal size group by popular demand. The perfect set for tradesman or technician, do-it-yourselfer, or mechanic.

**SPAENAU No. 130-322 9-Blade Set – Inch Sizes**

Set contains sizes 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" & 1/4" across flat blades.

PKG QTY. - 1 SET

**HEX DRIVERS with Ball End**

All dimensions in Inches

SPAENAU No.	KEY SIZE Width A/F	Blade Lgth.	O/A Lgth.
876-1673	5/64"	3-1/2"	5-5/16"
876-F05-1Y	7/64"	2-29/32"	5-3/32"
876-1676	1/8"	3-3/32"	5-5/16"
876-1677	9/64"	3-5/16"	6-3/32"
876-1678	5/32"	3-1/2"	6-13/32"
876-1679	3/16"	3-13/16"	7-5/16"
876-1680	7/32"	4-3/16"	7-11/16"
876-1681	1/4"	4-11/16"	8-13/16"
876-1682	5/16"	5-19/32"	9-13/32"
876-1683	3/8"	6-1/2"	10-13/32"
876-1684	7/16"	7-19/32"	11-1/2"
876-1685	1/2"	8-1/2"	12-1/2"

All Hex Drivers - PKG QTY. 1

**HEX KEYS with Ball End**

SPAENAU No.	KEY SIZE Width A/F	Blade Length Inch
876-1686	.050"	2-13/16"
876-1687	1/16"	3
876-1688	5/64"	3-3/16"
876-1689	3/32"	3-13/32"
876-1690	7/64"	3-19/32"
876-1691	1/8"	3-13/16"
876-1692	9/64"	3-29/32"
876-1693	5/32"	4-3/32"
876-1694	3/16"	4-1/2"
876-1695	7/32"	4-29/32"
876-1696	1/4"	5-3/16"
876-1697	5/16"	6
876-1698	3/8"	6-13/16"
876-1699	7/16"	7-1/2"
876-1700	1/2"	8-5/16"
876-1701	9/16"	9
876-1702	5/8"	9-13/16"
876-1703	3/4"	11-5/16"

P



See Socket Head Cap Screws in Section B of our Catalog

SPAENAU CATALOG 14




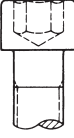
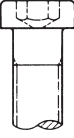
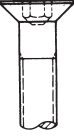

# HEX KEYS

## Metric

### ISO 2936

Fits Screw Styles &amp; Sizes

Contact Sales Desk For Package Quantities

Fits Screw Styles & Sizes				KEY SIZE  (Width Across Flats) mm	ALLOY STEEL Plain SPAENAUR No.		CHROME VANADIUM SPAENAUR No.			
DIN 912 	DIN 7984 	DIN 7991 	DIN 913-916 		SHORT ARM Series	LONG ARM Series	SHORT ARM		LONG ARM	
Screw Diameters in mm						Plain	Nickel Pltd.	Plain	Nickel Pltd.	
—	—	—	M1.4, M1.7	0.71	130-201	—	—	—	—	
—	—	—	M2, M2.3	0.89	130-202	—	—	—	—	
—	—	—	M2.5	1.3	130-273	—	—	—	—	
M1.7, M2	—	—	M3	1.5	130-203	130-286	130-358	130-358NP	130-404NP	
M2.3, M2.6	M3	M3	M4	2	130-204	130-221	130-359	130-359NP	130-376	130-376NP
M3	M4	M4	M5	2.5	130-205	—	130-360	130-360NP	130-377	130-377NP
M4	M5	M5	M6	3	130-206	130-223	130-361	130-361NP	130-378	130-378NP
—	—	—	—	3.5	—	—	130-232	130-232NP	—	—
M5	M6	M6	M8	4	130-207	130-224	130-362	130-362NP	130-379	130-379NP
M6	M8	M8	M10	5	130-208	130-225	130-363	130-363NP	130-380	130-380NP
M8	—	M10	M12	6	130-209	130-226	130-364	130-364NP	130-381	130-381NP
—	M10	—	—	7	130-210	—	130-365	130-365NP	130-382	130-382NP
M10	M12	M12	M16	8	130-211	130-227	130-366	130-366NP	130-383	130-383NP
—	—	—	—	9	130-212	—	130-367	130-367NP	130-384	130-384NP
M12	M14	M14, M16	M20	10	130-213	130-228	130-368	130-368NP	130-385	130-385NP
—	—	—	—	11	—	—	130-263	130-263NP	130-287	130-287NP
M14	M16, M18	M18, M20	M24	12	130-214	130-233	130-369	130-369NP	130-386	130-386NP
—	—	—	—	13	—	—	130-276	130-276NP	130-264	130-264NP
M16, M18	M20, M22	M22, M24	—	14	130-215	—	130-370	130-370NP	130-388	130-388NP
—	—	—	—	15	—	—	130-277	130-277NP	130-389	130-389NP
—	—	—	—	16	—	—	130-278	130-278NP	130-390	130-390NP
M20, M22	M24	—	—	17	130-216	—	130-371	130-371NP	130-391	130-391NP
—	—	—	—	18	—	130-238	130-279	130-279NP	130-392	130-392NP
M24, M27	—	—	—	19	130-217	130-239	130-372	130-372NP	130-393	130-393NP
—	—	—	—	20	—	—	130-280	130-280NP	—	—
—	—	—	—	21	—	—	130-262	130-262NP	—	—
M30	—	—	—	22	130-218	—	130-373	130-373NP	130-288	130-288NP
M33	—	—	—	24	130-219	—	130-374	130-374NP	130-265	130-265NP
M36	—	—	—	27	130-231	—	130-375	130-375NP	130-269	130-269NP
—	—	—	—	30	—	—	130-266	130-266NP	130-270	130-270NP
M42	—	—	—	32	—	—	130-267	130-267NP	130-271	130-271NP
M48	—	—	—	36	—	—	130-268	130-268NP	—	—

## METRIC SHORT ARM HEX KEY SETS



Alloy Steel,  
Plain Finish  
Supplied in a clear, rigid  
plastic case.

SPAENAUR No.	Contents of Key Set 1 each of following Key No's.
130-250	130-201, 130-202, 130-203 130-204, 130-205, 130-206

### 130-405NP


Set of 10 Hex Keys  
Chrome Vanadium  
Nickel Plated

Contents of set - one of each of  
1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm,  
5 mm, 6 mm, 8 mm, 10 mm and  
12 mm, width across flats.




PKG QTY. 1 SET

Supplied in a plastic pouch.



**AMF HEX KEY WITH PLASTIC "T" HANDLE**  
For Socket Head Hex Screws  
CHROME VANADIUM

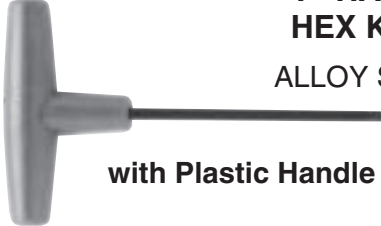


NICKEL PLATED

SPAENAUR No.	KEY SIZE (Width A/F)	BLADE LENGTH	TOTAL LENGTH
130-022	2 mm	100 mm	12 mm
130-023	2.5 mm	100 mm	121 mm
130-024	3 mm	150 mm	171 mm
130-025	4 mm	150 mm	171 mm
130-026	5 mm	150 mm	176 mm
130-027	6 mm	150 mm	176 mm
130-028	8 mm	150 mm	176 mm
130-029	10 mm	200 mm	230 mm
130-030	12 mm	200 mm	230 mm

PKG QTY. 1

**"T" HANDLE HEX KEYS**  
ALLOY STEEL

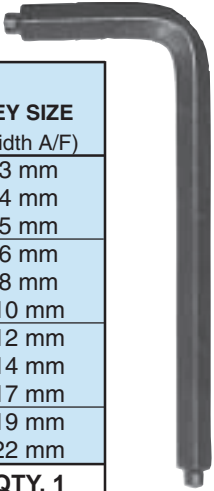


with Plastic Handle

SPAENAUR No.	KEY SIZE (Width A/F)	BLADE LENGTH	TOTAL LENGTH
130-254	2 mm	85 mm	128 mm


PKG QTY. 1

**SHORT HEX KEY WITH PILOT POINT** DIN 6911

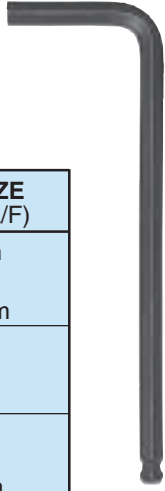


GRADE 10.9 STEEL	SPAENAUR No. CHROME VANADIUM		KEY SIZE (Width A/F)
	PLAIN	Nickel Plated	
130-036	130-118	130-118NP	3 mm
130-037	—	130-119NP	4 mm
130-038	130-120	130-120NP	5 mm
130-039	—	130-121NP	6 mm
130-040	130-122	130-122NP	8 mm
130-041	130-123	130-123NP	10 mm
130-042	130-124	130-124NP	12 mm
130-043	130-125	130-125NP	14 mm
130-044	130-126	130-126NP	17 mm
130-045	130-127	130-127NP	19 mm
130-046	130-128	130-128NP	22 mm

PKG QTY. 5      Over 14mm, PKG QTY. 1



Similar to DIN 911 Long  
**AMF LONG HEX KEY WITH BALL END**  
CHROME VANADIUM



SPAENAUR No.	KEY SIZE (Width A/F)
130-109	1.5 mm
130-110	2 mm
130-111	2.5 mm
130-112	3 mm
130-113	4 mm
130-114	5 mm
130-115	6 mm
130-116	8 mm
130-117	10 mm

PKG QTY. 5



See More Hex Wrenches and Drivers  
in Section N of our Catalog



**DIN 911**

This Standard has been replaced. Please see Catalog Page R21 for more information.

**METRIC HEX KEY SETS**

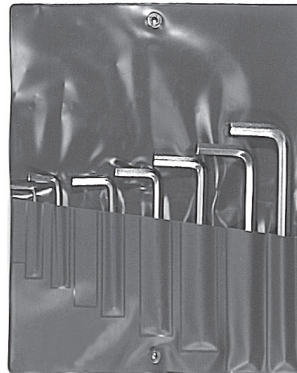
**CHROME VANADIUM**

All Sizes in millimetres.



Each of the following hex keys are put up in a vinyl pouch with individual pockets for each key.

PKG QTY. 1 Set



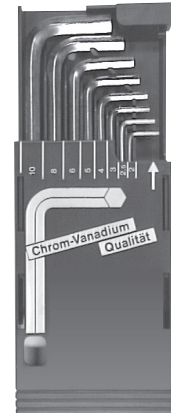
**Contents of Key Set:**

SPAENAUR No.	1 Each of the following Key Sizes. (Width Across Flats)
<b>130-248</b>	Short arm, black finish *0.7, *0.9, *1.3, 1.5, 2, 2.5, 3 mm (*Alloy Steel)
<b>130-249</b>	Long arm, black finish 2, 2.5, 3, 4, 5, 6, 7, 8, 10 mm



Each of the following AMF hex keys are put up in a hard plastic case with size marked slots for each key.

PKG QTY. 1 Set



**Contents of Key Set:**

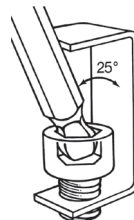
SPAENAUR No.	1 Each of the following Key Sizes. (Width Across Flats)
<b>130-104</b>	Short arm, nickel plated 2, 2.5, 3, 4, 5, 6, 8 mm
<b>130-105</b>	Short arm, nickel plated 2, 2.5, 3, 4, 5, 6, 8, 10 mm
<b>130-107</b>	Long arm, nickel plated 2, 2.5, 3, 4, 5, 6, 8, 10 mm
<b>130-108</b>	Long arm with ball end, black finish 2, 2.5, 3, 4, 5, 6, 8, 10 mm



**Straight / Chamfered Foldup Key set**

*Features:*

- Industrial quality hardened blades
- Ergonomic handle case lightweight yet sturdy



SPAENAUR No.	Style	Number of Blades	Blade Sizes
<b>130-398</b>	Torx® (Green Handle)	8	T6, T7, T8, T9, T10, T15, T20, and T25

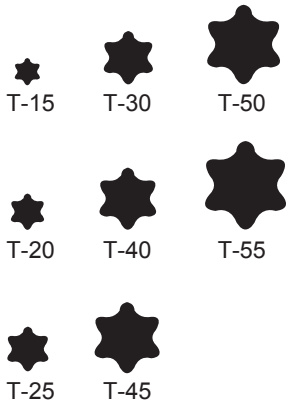
PKG QTY. 1

CATALOG 14.04  
2019/08/08

SPAENAUR

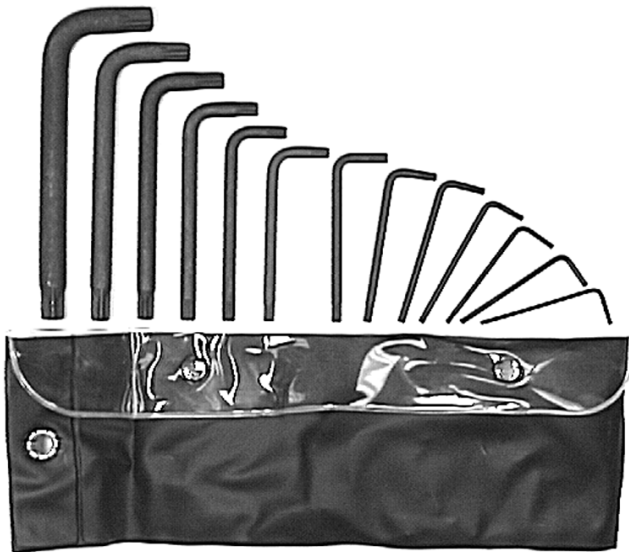
Key Wrenches  
of **ALLOY STEEL**

(Short arm series)



SPAENAUR No.	TORX Size	Socket Head Cap Screw	Button Head Cap Screw	Flat Head Cap Screw	Pressure Plug	Socket Set Screw	PKG QTY
130-300	T-7	—	#4	—	—	#6	1
130-301	T-8	—	—	—	—	#8	1
130-302	T-9	—	—	#4	—	—	1
130-303	T-10	#4, #5	#6	#5	—	#10	1
130-304	T-15	#6	#8	#6	—	—	1
130-305	T-20	—	—	#8	—	1/4"	1
130-306	T-25	#8	#10	#10	—	—	1
130-307	T-27	#10	1/4"	—	1/16"	5/16"	1
130-308	T-30	1/4"	—	1/4"	1/8"	3/8"	1
130-309	T-40	—	5/16"	5/16"	—	—	1
130-310	T-45	5/16"	3/8"	3/8"	1/4"	1/2"	1
130-311	T-50	3/8"	—	7/16", 1/2"	—	—	1
130-312	T-55	7/16", 1/2"	1/2"	5/8"	3/8"	—	1

**TORX**<sup>®</sup> key wrench sets  
(with plastic pouch)



See pages P15 & P16  
for more Torx<sup>®</sup> drives and bits

**SPAENAUR No. 130-319**  
**13 Piece Allen<sup>®</sup> Set**  
T-7, T-8, T-9, T-10, T-15, T-20, T-25, T-27, T-30  
T-40, T-45, T-50, T-55  
Short arm series TORX keys

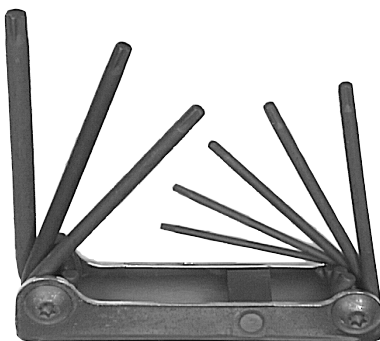
PKG QTY. 1

**TORX**<sup>®</sup> Jack Key Set

**SPAENAUR No. 130-T01-1P**

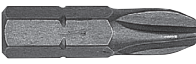





Set contains 8 short arm TORX keys.

T-9, T-10, T-15, T-20, T-25, T-27, T-30 and T-40.



PKG QTY. 1

P

Insert Bits Alloy Steel		PKG QTY. 1														
		SPAENAUR No.														
Top Quality, extra hard (Grey) <i>Not for use with power drivers.</i>		Bit Point Size	1" L x 1/4" H	1-1/4" L x 5/16" H												
1/4" hex shanks, 1" long, available in no's. 0 through 3 points; 5/16" hex shanks are 1-1/4" long, in sizes 1 through 4.		0	876-140	—												
 <table border="1"> <tr> <th>Point</th> <th>Screws</th> </tr> <tr> <td>No. 1</td> <td>No. 1 to 4</td> </tr> <tr> <td>No. 2</td> <td>No. 5 to 10</td> </tr> <tr> <td>No. 3</td> <td>No. 12 to 16</td> </tr> <tr> <td>No. 4</td> <td>3/8"</td> </tr> </table>		Point	Screws	No. 1	No. 1 to 4	No. 2	No. 5 to 10	No. 3	No. 12 to 16	No. 4	3/8"	1	876-141	876-144		
		Point	Screws													
		No. 1	No. 1 to 4													
		No. 2	No. 5 to 10													
No. 3	No. 12 to 16															
No. 4	3/8"															
2	876-142	876-145														
3	876-143	876-146														
4	—	876-147														
1/4" and 5/16" hex shank models for slotted screw sizes 0 through 14. Lengths 1" and 1-1/2".		4-6	876-148	1-1/2" x 5/16"												
		6-8	876-149	—												
		10	876-150	876-154												
		12	876-151	876-155												
		14	876-888 (1-1/2" long)	—												
		1/4" and 5/16" hex shanks, 1" to 1-1/4" long. Point sizes: 1PZD through 4PZD.		1	876-156	1-1/4" x 5/16"										
 <table border="1"> <tr> <th>Point</th> <th>Screws</th> </tr> <tr> <td>No. 1</td> <td>No. 1 to 4</td> </tr> <tr> <td>No. 2</td> <td>No. 5 to 10</td> </tr> <tr> <td>No. 3</td> <td>No. 12 to 16</td> </tr> <tr> <td>No. 4</td> <td>3/8"</td> </tr> </table>		Point	Screws	No. 1	No. 1 to 4	No. 2	No. 5 to 10	No. 3	No. 12 to 16	No. 4	3/8"	2	876-157	876-160		
		Point	Screws													
		No. 1	No. 1 to 4													
		No. 2	No. 5 to 10													
No. 3	No. 12 to 16															
No. 4	3/8"															
3	876-158	876-161														
4	—	876-162														
1/4" hex shanks, 1" long. Point sizes: 0, 1, 2, 3, 4, 5, & 6.		0	876-1631	—												
		1	876-218	—												
		2	876-1634	—												
		3	876-1635	—												
		4	876-1636	—												
		5	876-1637	—												
		6	876-1638	—												
1/4" hex shanks only, in 1" length. Point sizes: 0, 1, 2, 3 & 4.		0	876-821	—												
 <table border="1"> <tr> <th>Point</th> <th>Screws</th> </tr> <tr> <td>No. 0</td> <td>No. 4</td> </tr> <tr> <td>No. 1</td> <td>No. 6</td> </tr> <tr> <td>No. 2</td> <td>No. 8, 10</td> </tr> <tr> <td>No. 3</td> <td>No. 12, 1/4"</td> </tr> <tr> <td>No. 4</td> <td>5/16"</td> </tr> </table>		Point	Screws	No. 0	No. 4	No. 1	No. 6	No. 2	No. 8, 10	No. 3	No. 12, 1/4"	No. 4	5/16"	1	876-163	—
		Point	Screws													
		No. 0	No. 4													
		No. 1	No. 6													
		No. 2	No. 8, 10													
No. 3	No. 12, 1/4"															
No. 4	5/16"															
2	876-164	—														
3	876-165	—														
4	876-1048	—														
1/4" and 5/16" hex shanks, 1" and 1-1/8" long. Socket sizes: 1/16" to 5/16".		Hex Size	1-1/8" x 5/16"													
		1/16"	876-178	—												
		5/64"	876-179	—												
		3/32"	876-180	—												
		<b>METRIC Hex Socket Driver Bits</b>		7/64"	876-181	—										
		Extra Hard Alloy Steel - Grey		1/8"	876-889	—										
		All bits 25 mm x 6.3 mm (1" x 1/4") hex shank.		9/64"	876-182	—										
		Hex Size	SPAENAUR No.	Hex Size	SPAENAUR No.	876-183										
		1.5 mm	876-1576	4 mm	876-815	876-184										
		2 mm	876-812	5 mm	876-816	876-185										
		2.5 mm	876-813	6 mm	876-817	—										
3 mm	876-814	8 mm	876-818	—												
1/4"	876-752	5/16"	876-753	—												

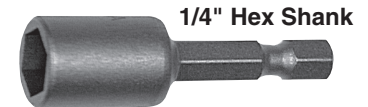


**LOW PROFILE  
HEX RECESSED  
SOCKET BITS**  
Fit 1/4" Hex Shanks  
**Overall Length  
1-1/4" All Sizes**

- Specially designed for hard-to-reach hex heads
- Perfect for use with the angle or inline driver
- Transfers magnetic pickup for holding fasteners
- 7 standard hex sizes combination SAE/Metric

SPAENAUR No.	Across Flats Inch	Metric
876-785	3/16"	5 mm
876-784	7/32"	5.5 mm
876-783	1/4"	—
876-781	5/16"	8 mm
876-780	3/8"	—
876-779	—	10 mm

**HEX RECESSED  
MAGNETIC DRIVER**



1/4" Hex Shank  
Generally used on Self-drilling Construction Fastener Screws.

SPAENAUR No.	Across Flat Size	O/A Lgth.
T-208A	1/4"	1-11/16"
876-876	1/4"	2-9/16"
T-208B	5/16"	1-11/16"
876-877	5/16"	2-9/16"
876-198	3/8"	1-3/4"
876-878	3/8"	2-9/16"
876-875	7/16"	1-3/4"
876-199	7/16"	2-9/16"

All Bits on this page are **NOT** for use with power tools.

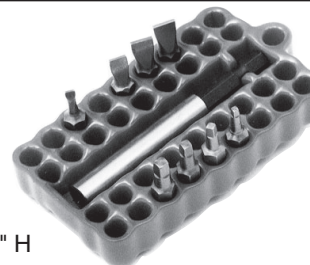
All Bits - PKG QTY. 1

**INSERT BIT ORGANIZER**

SPAENAUR No. 876-819


Moulded of strong, flexible plastic that won't let your bits fall out even if you toss the organizer on your work bench or in your tool box.

Approximate O/A Dimensions: 3-9/16" L x 1-15/16" W x 13/16" H






Holds up to 36 Bits - 1/4" or 5/16" Hex Shank  
Centre divider will hold adapters or extensions up to 3" in length.

PKG QTY. 1  
(Bits not included)

INSERT BITS FOR "SPANNER" (drilled head) SCREWS	SPAENAUR No.	For Screw Size	C to C Across Tips	Bit Size	PKG QTY. 1
 See pages B105 and B106 for Spanner Screws. For 1/4" Hex, use Driver <b>876-129</b> (Pg.17) <b>876-131</b> For 5/16" Hex, use Driver <b>876-130</b> (Pg.17) Do NOT use Bit with Power Driver	<b>876-991</b>	No. 4 size	3/32"	5/16" Hex x 1-1/2" Lgth.	
	<b>876-190</b>	No. 6 size	1/8"	1/4" Hex x 1" Lgth.	
	<b>876-191</b>	No. 8 size	5/32"	1/4" Hex x 1" Lgth.	
	<b>876-999</b>	No. 8 size	5/32"	5/16" Hex x 1-1/2" Lgth.	
	<b>876-F56-1T</b>	No. 10 size	3/16"	1/4" Hex x 1" Lgth.	
	<b>876-992</b>	No. 12 size	7/32"	5/16" Hex x 1-1/2" Lgth.	
	<b>876-193</b>	1/4", 5/16", 3/8"	1/4"	5/16" Hex x 1-1/2" Lgth.	


**WARNING:** "Spanner" Insert Bits are **NOT GUARANTEED** against breakage or wear because of their extremely hard points.

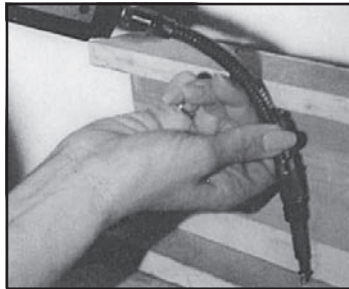
 <b>HEX SOCKET SECURITY BITS</b>  1/4" Hex PKG QTY. 1	SPAENAUR No.	ACROSS FLATS	FITS BUTTON HEAD	FITS FLAT HEAD	PKG QTY. 1 <b>"SPANNER" BITS</b> <b>METRIC - Heat Treated</b> <b>5/16" Hex. (*1/4" Hex.)</b>  * <b>877-692</b> for <b>M3</b> screws <b>877-689</b> for <b>M3</b> screws <b>877-691</b> for <b>M5</b> screws <b>876-193</b> for <b>M6</b> screws
	<b>876-835</b>	3/32"	#4	#4	
	<b>876-769</b>	1/8"	#6	#6	
	<b>876-770</b>	5/32"	#8, #10, #14, and 1/4"	#8, #10, #14, and 1/4"	
	<b>876-771</b>	3/16"	5/16"	5/16"	
	<b>876-772</b>	7/32"	3/8"	3/8"	

<b>PHILLIPS SECURITY BITS</b>  PKG QTY. 1	SPAENAUR No. <b>876-773</b> Phillips #2 Pin-Head Bits fit sizes #6 to #10 screws.	SPAENAUR No. <b>876-1573</b> Phillips #3 Pin-Head Bits fit sizes #12 to 1/4" screws.	 1/4" Hex
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All Bits shown above are **NOT** for use with power tools.


**POWER BITS**
  
 to fit most popular makes of air and electric drivers.  
 Extra hard Steel - Grey Finish      1/4" Hex Shank      PKG QTY. 1

Phillips	Sq. Recess	Point	Overall Length	Slotted	Screw Size	Blade Thickness	Body Diameter
SPAENAUR No.	SPAENAUR No.	Size	Length	SPAENAUR No.			
<b>876-1137</b>	<b>876-1428</b>	1	2"	<b>876-844</b>	4 - 5	.034"	.187"
<b>876-838</b>	<b>876-841</b>	1	2-3/4" - 3"	<b>876-845</b>	6 - 7	.038"	.250"
<b>876-1139</b>	<b>876-1429</b>	1	6"	<b>876-846</b>	8 - 10	.042"	.275"
<b>876-1140</b>	<b>876-1652</b>	2	2"	<b>876-847</b>	10 - 12	.046"	.312"
<b>876-839</b>	<b>876-842</b>	2	2-3/4" - 3"	<b>876-848</b>	12 - 14	.050"	.360"
<b>876-1155</b>	<b>876-1135</b>	2	6"	 All slotted power bits are 3" overall length. See page P15 for Torx® Power Bits.			
<b>876-1185</b>	<b>876-1653</b>	3	2"				
<b>876-840</b>	<b>876-843</b>	3	3"				
<b>876-1186</b>	<b>876-1136</b>	3	6"				

FLEX-A-BIT™				PKG QTY. 1
Flexible Extension Shaft				
Flexes to approximately 90 degrees! Safe at any speed! Outer sleeve does not rotate. Use with all cordless screwdrivers, drills, air tools, electric drills or hand drivers. For greater lengths, connect 2, 3 or 4 FLEX-A-BITS™ together!				
SPAENAUR No.	Torque Rating	Length	Description	
<b>876-879</b>	3.5 ft/lb.	7-1/2"	1/4" Male x 1/4" Female Hex Drive	
<b>876-880</b>	3.5 ft/lb.	11"	1/4" Male x 1/4" Female Hex Drive	
<b>876-881</b>	13 ft/lb.	11"	1/4" Male x 1/4" Female Hex Drive - Heavy Duty	
<b>876-882</b>	13 ft/lb.	11"	1/4" Male x 1/4" Female Square Drive - Heavy Duty	
<b>876-883</b>	13 ft/lb.	11"	3/8" Male x 3/8" Female Square Drive - Heavy Duty	

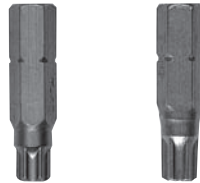


Not for use with power drivers.

**TORX®**  
Sq. Socket  
**Drive**  
**Bits**



**TORX®**  
**Insert Bits**  
Extra hard



# TORX® Power Bits



Bit Size	1/4" & 3/8" Sq. Drive		Overall Length					
			1" 1/4"	1-1/4" 5/16"	2" 1/4"	2-3/4" 1/4"	3-1/2" 1/4"	6" 1/4"
	Sq. Dr.	SPAENAUR No.	Hex Shank SPAENAUR No.	Hex Shank SPAENAUR No.	Hex Shank SPAENAUR No.	Hex Shank SPAENAUR No.	Hex Shank SPAENAUR No.	Hex Shank SPAENAUR No.
T-7	—	—	876-620	—	—	—	—	—
T-8	—	—	876-166	—	876-627	876-635	876-643	876-299
T-9	1/4"	876-321	876-167	—	—	—	—	—
T-10	1/4"	876-322	876-168	—	876-628	876-636	876-644	876-310
T-15	1/4"	876-323	876-169	—	876-629	876-637	876-645	876-301
T-20	1/4"	876-324	876-170	—	876-630	876-638	876-646	876-302
T-25	1/4"	876-325	876-171	—	876-631	876-639	876-647	876-303
T-27	1/4"	876-326	876-172	—	876-632	876-640	876-648	—
T-30	1/4"	876-327	876-173	876-175	876-633	876-641	876-649	876-305
T-40	3/8"	876-328	876-174	876-176	876-634	876-642	876-298	876-306
T-45	3/8"	876-329	—	876-621	—	—	—	—
T-50	3/8"	876-330	—	876-177	—	—	—	—
T-55	3/8"	876-331	—	876-622	—	—	—	—

PKG QTY. 1 - All Items This Page

## TORX® INTERCHANGEABILITY TABLE

TORX Sizes	TORX Socket		TORX Socket			TORX Socket Pan and Oval Heads			
	Set Screw	Head Cap Screw	Button Head Cap Screw	Flat Head Cap Screw	Pressure Plug	Machine Screw		Tapping Screw	
						INCH Sizes	METRIC Sizes	INCH Sizes	METRIC Sizes
T-7	#6					#2			
T-8	#8		#4			#3	2.5		
T-9				#4		#4		#4	
T-10	#10	#4, #5	#6	#5		#5		#4, #5	2.9
T-15		#6	#8	#6		#6, #8	3.5, 3.9	#6, #8	3.5, 3.9
T-20	1/4"			#8		#8	4.2, 4.8	#8, #10	4.2, 4.8
T-25		#8	#10	#10		#10	5.	#10	
T-27	5/16"	#10	1/4"		1/16"	#12		#12	
T-30	3/8"	1/4"		1/4"	1/8"	1/4"	5.5, 6.3	1/4"	5.5, 6.3
T-40			5/16"	5/16"		5/16"	7., 8.	5/16"	7., 8.
T-45	1/2"	5/16"	3/8"	3/8"	1/4"	3/8"		3/8"	
T-50		3/8"		7/16", 1/2"		7/16"	10.	7/16"	10.
T-55		7/16", 1/2"	1/2"	5/8"	3/8"				
T-60			5/8"	3/4"					
T-70		5/8"							
T-90		3/4"							

CATALOG 14

SPAENAUR



# TORX® DRIVE SYSTEM



**TORX SCREWDRIVERS**  
with Plastic Handle  
Sizes available individually or in a set.

The Torx Drive System is a 6-point fastening system which maximizes the driving surface for longer drive life, while maximizing torque, reducing slippage, and minimizing worker fatigue. Sometimes called the "Star" fastener, because of its likeness to the shape of a star, this fastening system is used on most late-model cars. Several often-replaced vehicle parts, such as headlights, tail-lights, turning signal lights, and exterior trim areas, will utilize the Torx System.

Appliances, television sets, washers, dryers, toasters, and vacuum cleaners will also utilize the Torx System.

SPAENAUR No.	Torx Bit Size	PKG QTY.
876-607	T8	1
876-619	T9	1
876-609	T15	1
876-610	T20	1
876-611	T25	1
876-612	T27	1
876-613	T30	1
876-614	T40	1
876-615	T45	1
876-616	T50	1

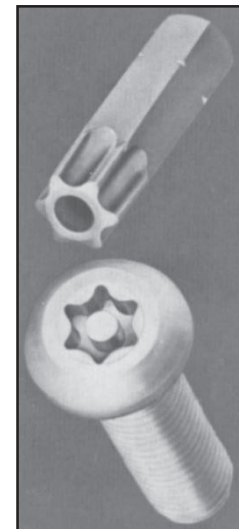
TORX DRIVE BITS - Page P15.

## TORX® TAMPER-RESISTANT BITS and DRIVERS for Recessed Tamper-Resistant Screws

The tamper-resistant TORX drive has a post in the centre of its recess which requires a specially mated driver to remove the fastener. Unauthorized removal is prevented.

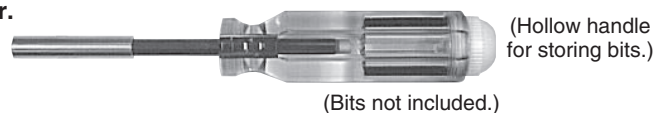
PKG QTY. 1

Torx Recess Size	SPAENAUR NUMBERS LISTED BELOW		*INSERT BIT 1/4" Hex - 1" long ▲5/16" Hex - 1-1/4" long	KEY WRENCH Short Arm drilled both ends Alloy Steel
	Approx. O/A Lgth.	HAND DRIVER with integral Bit and plastic handle		
TR7	5-7/8"	876-1704	—	—
TR8	5-7/8"	876-1705	876-890	—
TR9	4-1/2"	876-F53-1Y	876-891	—
TR10	5-7/8"	876-1707	876-348	876-1785
TR15	6-7/8"	876-345	876-349	876-1786
TR20	6-7/8"	876-1708	876-823	876-1787
TR25	7-3/4"	876-346	876-350	876-1788
TR27	8"	876-347	876-351	876-1789
TR30	7-1/2"	876-1709	876-892	876-1790
TR40	8-1/2"	876-1710	876-893	876-1791
TR45	8-1/2"	876-1711	▲876-1792	—
TR50	8-1/2"	—	▲876-1793	—



See pages B111 to B115 for screws.

\*Insert Bit not for use with Power Driver.



NOTE: SPANNER and TORX "Tamper Resistant" tools, are NOT guaranteed against overtorque, misuse, breakage or wear.

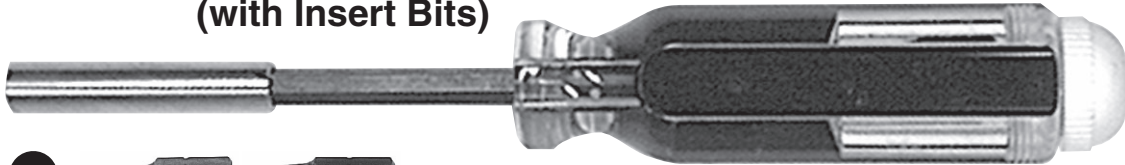
All Bits and Tools  
PKG QTY. 1

Spaenaur No.	Magnetic Driver Handles
876-129	for 1/4" hex bits shown in chart.
876-131	for 5/16" hex bits shown in chart.
876-130	for 5/16" hex bits shown in chart.

CATALOG 14.03  
2019/04/18  
SPAENAUR

### Magnetic Screwdrivers - Hollow Handle

(with Insert Bits)



Bits are stored in hollow handle

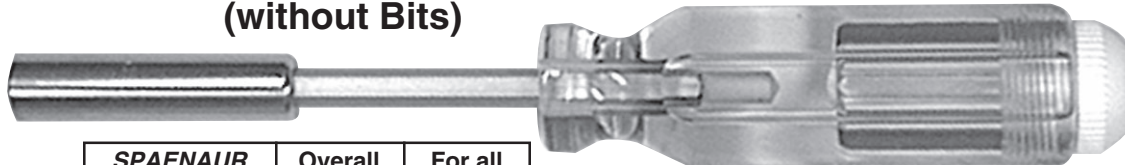
Each driver has size 1 & 2 Phillips, 4-6 & 6-8 Slot, (1"-long bits with 1/4" Hex) in storage handle.

Magnet in driver-shank holds choice of 4 interchangeable bits, and passes magnetism through bit to securely hold screw.

SPAENAUR No.	Overall Length	Description
876-121	8"	Magna Driver
876-122	11"	Magna Driver

### Magnetic Screwdrivers - Hollow Handle

(without Bits)

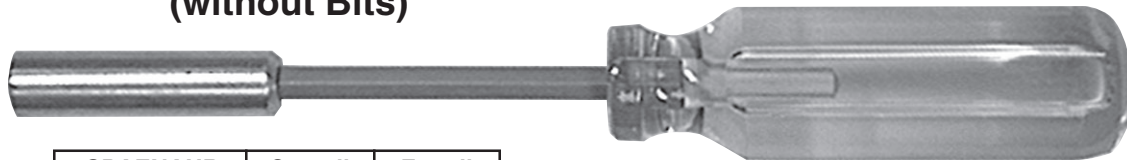


Bits can be stored in hollow handle

SPAENAUR No.	Overall Length	For all Hex Bits
876-129	8"	1/4"
876-131	11"	1/4"
876-130	8-3/4"	5/16"

### Magnetic Screwdrivers - Solid Handle

(without Bits)



SPAENAUR No.	Overall Length	For all Hex Bits
876-124	8"	1/4"
876-126	11"	1/4"
876-125	8-3/4"	5/16"

### Magnetic Bit Holder Extender



SPAENAUR No.	Overall Length	For all Hex Bits
876-887	3"	1/4"
876-127	4"	1/4"

### DRIVER HANDLE (Spinner)

1/4" Square Drive



Overall length 7"

SPAENAUR No. 876-536

## Non-Magnetic Hand Drivers



Overall assembled length approximately 7-1/4" including selected bits.

### 4 in 1 Quick Change Screwdriver

Hand driver will hold 1 double-ended bit in each end of reversible shaft. By flipping shaft or double-ended bits, 4 driver choices are instantly available in a sturdy driver handle.

Handle and bits must be ordered separately.



**SPAENAU No. 876-1595**  
Plastic handle with steel shaft, non-magnetic. (Two Parts)



**SPAENAU No. 876-1597**  
3/16" & 5/16" Slotted Drive



**SPAENAU No. 876-1596**  
#1 & #2 Phillips Drive

Plain Steel  
Double End Bits,  
5/16" Hex Shank;  
Overall Length 3".



**SPAENAU No. 876-1599**  
#1 & #2 Square Drive

All SPAENAU No's.  
PKG QTY. 1

## Wiha Precision Series Screwdrivers

Blade of high alloy chrome-vanadium-molybdenum steel.



**Slotted Screwdriver with Slender Handle** meets the rigorous demands of today's technology for control, accuracy and durability.

### Applications:

- Electronics Service and Assembly
- Medical, Optical
- Hobby, Model Making
- All Detail Precision Work

PKG QTY. 1

SPAENAU No.	Ø		↔		⊘		↔	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm
877-1405	1/32"	0.8	1.6"	40	—	—	—	—
877-1406	0.39"	1.0	1.6"	40	—	—	—	—
877-1407	3/64"	1.2	1.6"	40	—	—	—	—
877-109	1/16"	1.5	1.6"	40	.010"	0.25	4.72"	120
877-110	.070"	1.8	1.6"	40	.012"	0.30	4.72"	120
877-102	5/64"	2.0	1.6"	40	.016"	0.40	4.72"	120
877-103	5/64"	2.0	2.0"	50	.016"	0.40	5.71"	145
877-104	3/32"	2.5	2.0"	50	.016"	0.40	5.71"	145
877-105	1/8"	3.0	2.0"	50	.020"	0.50	5.71"	145
877-106	1/8"	3.0	2.4"	60	.020"	0.50	6.69"	170
877-1411	1/8"	3.0	6.0"	150	.020"	0.50	10.24"	260
877-107	9/64"	3.5	2.4"	60	.024"	0.60	6.69"	170
877-108	5/32"	4.0	2.4"	60	.031"	0.80	6.69"	170
877-1413	5/32"	4.0	3.9"	100	.031"	0.80	8.27"	210
877-1414	5/32"	4.0	6.0"	150	.031"	0.80	10.24"	260



**300 Series with Wera slipSTOP® Blade Screwdriver Set**

Screwdriver Sets with **SlipSTOP®** blades and Kraftform® handle with ergonomic design for anti-roll protection. **SlipSTOP®** blades are laser treated giving them an extremely rough drive end which literally "bites" into the screw head.

**876-1843**

Contents:

- ⊖ 6.5 x 150 mm, 4.0 x 100 mm
- ⊕ PH1/80, PH2/100
- ⊙ #1/80, #2/100

**Series 100 VDE Safety Screwdriver Set with Wera slipSTOP® Blade**



**876-1841**

Contents:

- ⊖ 3.5 x 100 mm, 5.5 x 125 mm
- ⊕ PH1/80, PH2/100
- ⊙ #1/80, #2/100

**Mini-Check CDN Version**

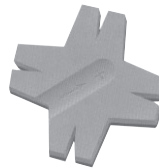
A compact bit set that includes Square, Slotted and Phillips bits, for light hand use around the house, or with the included adaptor in your drill for faster work.



**876-1847**

Contents:

- ⊖ 1.0 x 5.5 mm, 1.2 x 6.5 mm
- ⊕ PH 1/25, PH 2/25
- ⊙ #1/25, #2/25



**876-1855**

The **Wera Star** is a practical and space-saving magnetizing and demagnetizing device for various screwdriver profiles.

To magnetize, the tool is pulled along the positive surface side of the **Wera Star** and to demagnetize the tool it is passed along one of the four negative sides.

**Bit-Safe® Allround**

This 32 piece set has a range of tools for all common applications in trade and industry. The set contains a Kraftform® handle, magnetic quick-release chuck and a power tool adaptor.



**876-1868**

Contents:

- 3 bits each of: ⊕ PH 1/25, PH 2/25, PH3/25
- ⊕ PZ 1/25, PZ 2/25, PZ3/25
- 1 bit each of: ⊕ TX10, TX15, TX20, TX25, TX30, TX40
- ⊖ SW4, SW5, SW6 ⊖ 0.6 x 4.5, 1.0 x 5.5, 1.2x 6.5



**Bit-Safe® BiTorsion®**

This 31 piece set has a range of tools for users who place the greatest emphasis on long life-span, high load capacity and versatility, with many different drive profiles. The set contains a BiTorsion® bit holder with quick-release chuck to suit most popular power tools or for use in electronic drills.

**876-1869**

Contents:

- ⊕ 2 bits: PH 1/25, 6 bits: PH 2/25, 2 bits: PH3/25
- ⊕ 2 bits: PZ 1/25, PZ3/25, 6 bits: PZ 2/25
- ⊕ 1 bit: TX10, 2 bits: TX15, TX20, TX25, TX30, 1 bit: TX40

**876-1860**

**Kraftform Kompakt 11** - This is a unique, compact 10 piece bit set that contains a range of Torx, Pozidriv, Phillips and Slot bits ideal for either household or electronics applications.



**876-1862**

**Kraftform Kompakt 30** - This 11 piece bit set contains an ergonomic bit-holding screwdriver, as well as an adaptor that allows the included Slotted, Phillips and Pozidriv bits to be used in power tools as well.



**876-1863**

**Kraftform Kompakt 50** - This 14 piece bit set features the exciting new Wera "**Bayonet**" handle, which extends to convert from a short to a longer screwdriver and the bit holder can also be removed to convert to a power tool adaptor. Set includes Torx Security, Pozidriv, Phillips and Slotted bits.

**Bayonet blade**

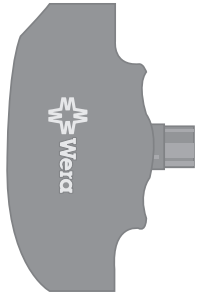


By pushing the clamping sleeve, the bayonet blade can be extended out of the handle and the compact tool becomes a full-sized screwdriver.

A wide range of accessories are available in the Vario® program.

PKG QTY. 1

Wera screwdriver handles are manufactured almost exclusively from a sensational new material, "Weralit® II". A modern multi-component material with outstanding qualities: Stronger, more comfortable grip; Higher impact resistance; Excellent hot or cold temperature resistance; High oil, gas and acid resistance; Weight savings up to 25% over other materials add to the work comfort in tool handling; All cadmium-free colors.

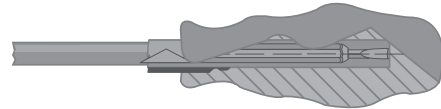


Vario® T-Handle  
SPAENAUR No.  
**876-920**  
for **6 mm**  
Vario  
Accessories

Vario® with Kraftform-plus®  
"soft cushions" Handle  
SPAENAUR No.  
**876-919**  
with **10 mm** hex.  
and **6 mm** opening  
to fit all Vario  
Accessories.



Size **95 mm x 35 mm**  
(3-3/4" x 1-3/8")



## The Vario Blade Selection

(All blades listed below are usable either end and will fit both handles shown above. **6 mm Hex Driver is essential**)



Slotted

SPAENAUR No.		Hex drive mm	O/L
876-921	5/32" and 1/4"	6	7"
876-922	3/16" and 9/32"	6	7"



Phillips/Pozidrive®

SPAENAUR No.	Point size	Hex. drive mm	O/L
876-926	#1	6	7"
876-927	#2	6	7"



Slotted/Phillips

SPAENAUR No.	Point size		Hex drive mm	O/L
876-923	#1	5/32"	6	7"
876-924	#2	1/4"	6	7"
876-925	#3	9/32"	6	7"



Phillips

876-941	#1	#2	6	7"
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Pozidrive®

876-942	#1	#2	6	7"
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Hex Head/Ball-Head

SPAENAUR No.	Hex Size	Hex drive mm	O/L
876-930	2.5 mm	6	7"
876-931	3 mm	6	7"
876-932	4 mm	6	7"
876-933	5 mm	6	7"
876-934	6 mm	6	7"



Square Socket Head

876-943	#1	#2	6	7"
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Torx® Size

876-945	T6	T8	6	7"
876-946	T7	T9	6	7"
876-947	T10	T15	6	7"
876-948	T20	T25	6	7"
876-949	T30	T40	6	7"

# Wera-VDE 1000 Volt Professional



**Insulated Screwdrivers for work on live circuits.**



Tough ergonomically designed handle for ultimate torque transfer and operator comfort.

A 10,000 volt water immersion test guarantees the safe performance of every single insulated tool manufactured by Wera.

**+** VDE - screwdriver for Phillips - recess screws, Red Insulation

SPAENAUR No.	Point Size		mm	mm		
876-950	0		80	75/22	135	2-3/8"
876-951	1		80	90/30	170	3-1/8"
876-952	2		100	100/38	200	4"
876-953	3		150	110/42	260	6"
876-954	4		200	110/42	310	8"

**●** VDE - screwdriver for slotted screws. Conical tips DIN 7437. Red Insulation.

SPAENAUR No.	mm	mm	mm	mm	mm	
876-956	0.4	2.5	75	75/22	150	3/32" x 3"
876-957	0.5	3	100	75/22	175	1/8" x 4"
876-958	0.6	3.5	100	80/27	180	1/8" x 4"
876-959	0.8	4	100	90/30	190	5/32" x 4"
876-960	1.0	5.5	125	100/38	225	7/32" x 5"
876-961	1.2	6.5	150	100/38	250	1/4" x 6"
876-962	1.2	8	175	110/42	285	5/16" x 7"
876-963	1.6	8	200	110/42	310	5/16" x 8"
876-964	1.6	10	200	110/42	310	3/8" x 8"



VDE nut driver for hex head bolts, red insulation

SPAENAUR No.	Hex. Size		mm	mm	mm	
876-973	3/16"		125	90/30	215	5"
876-504	1/4"		125	90/30	215	5"
876-974	5/16"		125	100/38	225	5"
876-505	3/8"		125	110/42	236	5"
876-501	7/16"		125	110/42	236	5"
876-503	1/2"		125	110/42	236	5"
876-502	9/16"		125	110/42	235	5"
876-506	5/8"		125	110/42	235	5"

**■** VDE - Screwdriver for Square Socket Screws.

SPAENAUR No.	Point Size	Colour		mm	mm	mm	Inch
876-1771	1	Green/Yellow		80	98/26	178	3-1/8"
876-262	2	Red/Yellow		100	105/22	205	4"

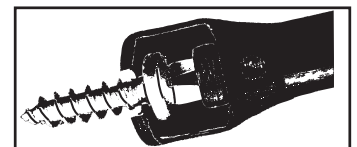
PKG QTY. 1

## Screw-holding Drivers - Ideal for tight spots

(Not for use on live circuits)



PKG QTY. 1



Screwdriver for Slot-Head Screws

SPAENAUR No.	mm	mm	mm	mm	mm	
876-965	0.4	2.5	75	75/22	150	3/32" x 3"
876-966	0.5	3	100	80/27	180	1/8" x 4"
876-967	0.6	4	125	90/30	215	5/32" x 5"
876-968	0.8	5	150	105/40	255	3/16" x 6"
876-969	1.2	6	175	105/40	280	1/4" x 7"



Screwdriver for Phillips - Recess Screws

SPAENAUR No.	Point Size		mm	mm	mm	
876-971	1		150	105/40	255	6"
876-972	2		175	105/40	280	7"

## Screwdriver for Square Socket Head Screws



**Blade:** Round, mat nickel.

**Tip:** Square-Plus, Black Point except for 876-1760 & 1761.

**Handle:** Kraftform®, with anti-roll protection, three components. 876-1760 & 876-1761 handles are Weralit® II one component.

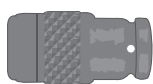
SPAENAUR No.	Colour	Point	A		B	Use with Screw Dia.	
			mm	inch	mm	Mach. & Tap	Wood
876-1752	orange/grey	#00	60	2-3/8"	81	2	2
876-1753	yellow/grey	# 0	60	2-3/8"	81	3, 4	3, 4
876-1760 (Stubby)	green	#01	25	31/32"	54	5, 6, 7	5, 6, 7
876-1754	green/grey	# 1	80	3-1/8"	98	—	—
876-1755	green/grey	# 1	200	8"	98	—	—
876-1761 (Stubby)	red	#02	25	31/32"	54	8, 10	8, 9, 10
876-1756	red/grey	# 2	100	4"	105	—	—
876-1757	red/grey	# 2	200	8"	105	—	—
876-1758	black/grey	# 3	150	6"	112	12, 1/4"	12, 14
876-1759	black/grey	# 4	200	8"	112	5/16", 3/8"	16, 18, 20, 24

PKG QTY. 1

## Square Socket Drive Adapters for Hex Bits

Hand or Powertool use.

(Length 30 mm)



**SPAENAUR No. 876-895**

Adapter, 1/4" Square Drive with Wera Quickrelease® for 1/4" Hex Bits.

PKG QTY. 1

(Length 43 mm)



**SPAENAUR No. 876-896**

Adapter, 3/8" Square Drive with Wera Quickrelease® for 1/4" Hex Bits.

**SPAENAUR No. 876-898**

Adapter, 3/8" Square Drive with Wera Quickrelease® for 5/16" Hex Bits.

(Length 50 mm)



**SPAENAUR No. 876-897**

Adapter, 1/2" Square Drive with Wera Quickrelease® for 1/4" Hex Bits.

**SPAENAUR No. 876-899**

Adapter, 1/2" Square Drive with Wera Quickrelease® for 5/16" Hex Bits.

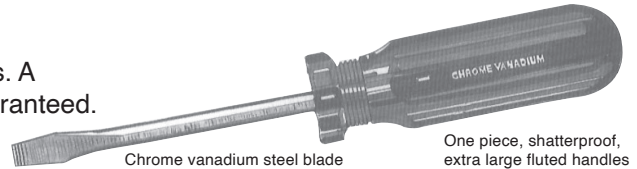
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CATALOG 14  
SPAENAUR



## FULLER "PRO 300" SCREWDRIVERS

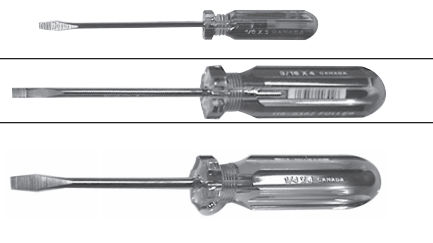
Industrial quality and strength. Preferred by professionals. A perfect combination of rugged durability and comfort-guaranteed. Available in Slotted, Phillips or Robertson Drive.



Chrome vanadium steel blade for strength and durability. Chrome Plated to resist rust.

One piece, shatterproof, extra large fluted handles for maximum comfort and torque.

Spaenaur No.	Tip Width	Blade Length	For Screw Sizes
<b>POCKET SCREWDRIVER with clip</b>			
876-1870	1/8"	3"	#1, 2, 3
<b>ELECTRICIAN'S SCREWDRIVER</b>			
876-1871	3/16"	4"	#4, 5, 6
<b>MECHANIC'S SCREWDRIVER</b>			
876-1872	1/4"	4"	#7, 8, 9
876-1873	5/16"	6"	#10
876-1874	3/8"	8"	#12, 14, 16



### Genuine PHILLIPS TIP SCREWDRIVERS

Spaenaur No.	Tip #	Blade Length	For Screw Sizes
876-1875	0	3"	#0, 1
876-1876	1	3"	#2, 3, 4
876-1877	2	4"	#5, 6, 7, 8, 9, 10
876-1878	3	6"	#12, 14, 16



### Genuine ROBERTSON TIP SCREWDRIVERS

Spaenaur No.	Tip #	Blade Length	For Screw Sizes
876-1879	0	4"	#3, 4
876-1880	1	4"	#5, 6, 7
876-1881	2	5"	#8, 9, 10
876-1882	3	5"	#12, 14

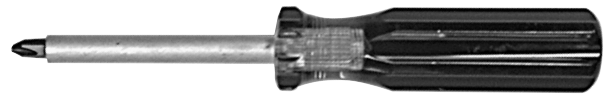


## PHILLIPS SECURITY SCREW DRIVER

Spaenaur No. **876-851**

O/A Length 8" Plastic Handle

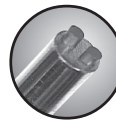
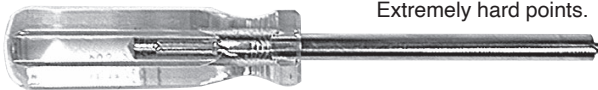
Screw Driver fits #6 to #10 Dia. Phillips Drive Security Screws.



## UN-DO-IT SCREW TOOL

Needed for removing "ONE-WAY SLOT" Machine Screws, Barrel Nuts and Shoulder Screws.

Extremely hard points.



Un-Do-It Screw Tool also shown on B104 with One-Way Slot Drive Screws. See page C66 for One-Way Slot Drive Barrel Nuts and Shoulder Screws.

Spaenaur Driver No.	For Machine Screw Sizes	For Tapping Screw Sizes
876-804	#6-32 #8-32	#6 #8
876-807	#10-32 1/4-20	#10 #12
876-810	5/16 and up	#14

**WARNING:** "Spanner" and "Un-Do-It" Screw Drivers are **NOT GUARANTEED** against breakage or wear because of their extremely hard points.

## DRIVERS FOR SPANNER (drilled head) SCREWS



O/A Lgth. 10"



SPAENAUR No.	For Screw Sizes	Points C.to C.
876-F46-1W	No. 4	3/32"
876-186	No. 6	1/8"
876-187	No. 8	5/32"
▲ 876-F01-2A	No. 10	3/16"
876-994	No. 12	7/32"
876-189	1/4", 5/16" & 3/8"	1/4"

▲ 8-1/2" O/A Lgth.

All items this page  
PKG QTY. 1

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

**Pozidriv® Screwdrivers** with blue ring

Chrome-Vanadium For Pozidriv® screws

Blades **Chrome-Plated**, Tips **Burnished**

From size PZ 3 on, blade with hex bolster



SPAENAUR No.	HAZET No.		L <sub>1</sub> mm		mm
994-035	803-PZ 0	0	53.5	—	—
994-036	803-PZ 1	1	80	—	—
994-037	803-PZ 2	2	100	—	—
994-038	803-PZ 3	3	142	13	13
994-039	803-PZ 4	4	192	16	16

**TORX® Screwdrivers** for inside TORX® screws

with trinamic®-handle (protected by design patent), Black plastic material

Blades **Chrome-Plated** Tips **Burnished**



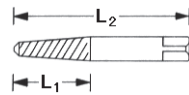
SPAENAUR No.	HAZET No.		mm	L <sub>1</sub> mm
994-025	803-T 6	1.67	48	48
994-026	803-T 7	1.99	48	48
994-027	803-T 8	2.31	55	55
994-028	803-T 9	2.50	55	55
994-029	803-T 10	2.74	70	70
994-030	803-T 15	3.27	70	70
994-031	803-T 20	3.86	84	84
994-032	803-T 25	4.43	84	84
994-033	803-T 27	4.99	99	99
994-034	803-T 30	5.52	99	99

**Screw Extractors**

Chrome-Vanadium

For broken screws and bolts with r.h. threads.

Use drill sizes listed in 5th table column for making holes required.



Polished



SPAENAUR No.	HAZET No.	Ø mm			L <sub>1</sub> mm	L <sub>2</sub> mm
			M	Ø mm		
991-120	840-1	1.4-3.6	3-6	1.8	13.2	50
991-121	840-2	2.1-4.9	6-8	2.6	16.8	57
991-122	840-3	3.1-6.5	8-11	3.7	20.4	64
991-123	840-4	4.8-8.8	11-14	5.5	24.0	71
991-124	840-5	6.2-11.0	14-18	7.0	28.8	78
991-125	840-6	9.4-15.0	18-24	10.3	33.6	85
991-126	840-7	12.7-19.0	24-33	13.7	37.8	92
991-127	840-8	17.5-24.0	33-45	18.6	39.0	100

**Screw Extractor Sets**

In plastic boxes



SPAENAUR No. (HAZET No.)	SPAENAUR No's. in Set	
991-128 (840/5)	991-120 991-123	991-121 991-122 991-124

P



For More Screwdrivers see Section N

HAZET  
SPAENAUR  
CATALOG 14



HIGHEST QUALITY - MADE IN U.S.A.

**HIGH SPEED STEEL 118° POINT  
NITRATED FOR BEST PERFORMANCE**  
PKG QTY. - 10 per size for drill sizes #80 to 21/64"  
PKG QTY. - 5 per size for drill sizes 0 to 1/2" \*PKG QTY. 1

SPAENAUR No.	Drill Size	Dia-meter	Overall Length Inches	Flute Length Inches	SPAENAUR No.	Drill Size	Dia-meter	Overall Length Inches	Flute Length Inches	SPAENAUR No.	Drill Size	Dia-meter	Overall Length Inches	Flute Length Inches
HSD-80	80	.0135	3/4	3/16	HSD-38	38	.1015	2-1/2	1-7/16	HSD-2	2	.221	3-7/8	2-5/8
HSD-79	79	.0145	3/4	3/16	HSD-37	37	.104	2-1/2	1-7/16	HSD-1	1	.228	3-7/8	2-5/8
HSD-1/64	1/64	.0156	3/4	3/16	HSD-36	36	.1065	2-1/2	1-7/16	875-172	A	.234	3-7/8	2-5/8
HSD-78	78	.016	7/8	3/16	HSD-7/64	7/64	.1094	2-5/8	1-1/2	HSD-15/64	15/64	.2344	3-7/8	2-5/8
HSD-77	77	.018	7/8	3/16	HSD-35	35	.110	2-5/8	1-1/2	875-173	B	.238	4	2-3/4
HSD-76	76	.020	7/8	3/16	HSD-34	34	.111	2-5/8	1-1/2	875-174	C	.242	4	2-3/4
HSD-75	75	.021	1	1/4	HSD-33	33	.113	2-5/8	1-1/2	875-175	D	.246	4	2-3/4
HSD-74	74	.0225	1	1/4	HSD-32	32	.116	2-3/4	1-5/8	HSD-1/4	1/4	.250	4	2-3/4
HSD-73	73	.024	1-1/8	5/16	HSD-31	31	.120	2-3/4	1-5/8	875-176	E	.250	4	2-3/4
HSD-72	72	.025	1-1/8	5/16	HSD-1/8S	1/8	.1250	1-7/8	1	875-177	F	.257	4-1/8	2-7/8
HSD-71	71	.026	1-1/4	3/8	HSD-1/8	1/8	.1250	2-3/4	1-5/8	875-178	G	.261	4-1/8	2-7/8
HSD-70	70	.028	1-1/4	3/8	HSD-30	30	.1285	2-3/4	1-5/8	*HSD-17/64	17/64	.2656	4-1/8	2-7/8
HSD-69	69	.0292	1-3/8	1/2	HSD-29	29	.136	2-7/8	1-3/4	875-181	H	.266	4-1/8	2-7/8
HSD-68	68	.031	1-3/8	1/2	HSD-28	28	.1405	2-7/8	1-3/4	875-180	I	.272	4-1/8	2-7/8
HSD-1/32	1/32	.0312	1-3/8	1/2	HSD-9/64	9/64	.1406	2-7/8	1-3/4	875-037	J	.277	4-1/8	2-7/8
HSD-67	67	.032	1-3/8	1/2	HSD-27	27	.144	3	1-7/8	875-038	K	.281	4-1/4	2-15/16
HSD-66	66	.033	1-3/8	1/2	HSD-26	26	.147	3	1-7/8	HSD-9/32	9/32	.2812	4-1/4	2-15/16
HSD-65	65	.035	1-1/2	5/8	HSD-25	25	.1495	3	1-7/8	875-039	L	.290	4-1/4	2-15/16
HSD-64	64	.036	1-1/2	5/8	HSD-24	24	.152	3-1/8	2	875-040	M	.295	4-3/8	3-1/16
HSD-63	63	.037	1-1/2	5/8	HSD-23	23	.154	3-1/8	2	HSD-19/64	19/64	.2969	4-3/8	3-1/16
HSD-62	62	.038	1-1/2	5/8	HSD-5/32	5/32	.1562	3-1/8	2	875-041	N	.302	4-3/8	3-1/16
HSD-61	61	.039	1-5/8	11/16	HSD-22	22	.157	3-1/8	2	HSD-5/16	5/16	.3125	4-1/2	3-3/16
HSD-60	60	.040	1-5/8	11/16	HSD-21	21	.159	3-1/4	2-1/8	875-170	O	.316	4-1/2	3-3/16
HSD-59	59	.041	1-5/8	11/16	HSD-20	20	.161	3-1/4	2-1/8	875-171	P	.323	4-5/8	3-5/16
HSD-58	58	.042	1-5/8	11/16	HSD-19	19	.166	3-1/4	2-1/8	HSD-21/64	21/64	.3281	4-5/8	3-5/16
HSD-57	57	.043	1-3/4	3/4	HSD-18	18	.1695	3-1/4	2-1/8	875-179	Q	.332	4-3/4	3-7/16
HSD-56	56	.0465	1-3/4	3/4	HSD-11/64	11/64	.1719	3-1/4	2-1/8	875-042	R	.339	4-3/4	3-7/16
HSD-3/64	3/64	.0468	1-3/4	3/4	HSD-17	17	.173	3-3/8	2-3/16	HSD-11/32	11/32	.3437	4-3/4	3-7/16
HSD-55	55	.052	1-7/8	7/8	HSD-16	16	.177	3-3/8	2-3/16	875-043	S	.348	4-7/8	3-1/2
HSD-54	54	.055	1-7/8	7/8	HSD-15	15	.180	3-3/8	2-3/16	875-044	T	.358	4-7/8	3-1/2
HSD-53	53	.0595	1-7/8	7/8	HSD-14	14	.182	3-3/8	2-3/16	HSD-23/64	23/64	.3594	4-7/8	3-1/2
HSD-1/16	1/16	.0625	1-7/8	7/8	HSD-13	13	.185	3-1/2	2-5/16	875-045	U	.368	5	3-5/8
HSD-52	52	.0635	1-7/8	7/8	HSD-3/16	3/16	.1875	3-1/2	2-5/16	HSD-3/8	3/8	.375	5	3-5/8
HSD-51	51	.067	2	1	HSD-12	12	.189	3-1/2	2-5/16	875-046	V	.377	5	3-5/8
HSD-50	50	.070	2	1	HSD-11	11	.191	3-1/2	2-5/16	875-047	W	.386	5-1/8	3-3/4
HSD-49	49	.073	2	1	HSD-10	10	.1935	3-5/8	2-7/16	HSD-25/64	25/64	.3906	5-1/8	3-3/4
HSD-48	48	.076	2	1	HSD-9	9	.196	3-5/8	2-7/16	875-182	X	.397	5-1/8	3-3/4
HSD-5/64	5/64	.0781	2	1	HSD-8	8	.199	3-5/8	2-7/16	875-048	Y	.404	5-1/4	3-7/8
HSD-47	47	.0785	2	1	HSD-7	7	.201	3-5/8	2-7/16	HSD-13/32	13/32	.4062	5-1/4	3-7/8
HSD-46	46	.081	2-1/8	1-1/8	HSD-13/64	13/64	.2031	3-5/8	2-7/16	875-049	Z	.413	5-1/4	3-7/8
HSD-45	45	.082	2-1/8	1-1/8	HSD-6	6	.204	3-3/4	2-1/2	HSD-27/64	27/64	.4219	5-3/8	3-15/16
HSD-44	44	.086	2-1/8	1-1/8	HSD-5	5	.2055	3-3/4	2-1/2	HSD-7/16	7/16	.4375	5-1/2	4-1/16
HSD-43	43	.089	2-1/4	1-1/4	HSD-4	4	.209	3-3/4	2-1/2	*HSD-29/64	29/64	.4531	5-5/8	4-3/16
HSD-42	42	.0935	2-1/4	1-1/4	HSD-3	3	.213	3-3/4	2-1/2	*HSD-15/32	15/32	.4687	5-3/4	4-5/16
HSD-3/32	3/32	.0937	2-1/4	1-1/4	HSD-7/32	7/32	.2187	3-3/4	2-1/2	*HSD-31/64	31/64	.4844	5-7/8	4-3/8
HSD-41	41	.096	2-3/8	1-3/8						*HSD-1/2	1/2	.500	6	4-1/2
HSD-40	40	.098	2-3/8	1-3/8										
HSD-39	39	.0995	2-3/8	1-3/8										

**SPAENAUR DRILLS - MANUFACTURED TO CANADIAN AND AMERICAN SPECIFICATIONS - ARE FULL LENGTH - GIVE FULL VALUE.**

## Heavy Duty – 135° Split Point Cobalt High Speed Steel Gold Finish



**HIGHEST QUALITY - MADE IN U.S.A.**

Heavy Duty Construction. Use to drill hard, tough metals, free machining grades of stainless steels, high temperature alloys, titanium, certain abrasive plastics. High red hardness of cobalt permits speeds 30% over regular H.S.S. drills. Cobalt drills demand rigidly held positive feed drilling equipment.

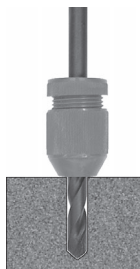
**PKG QTY. 1**

SPAENAUR No.	Drill Size	Dia-meter	Overall Length Inches	Flute Length Inches	SPAENAUR No.	Drill Size	Dia-meter	Overall Length Inches	Flute Length Inches	SPAENAUR No.	Drill Size	Dia-meter	Overall Length Inches	Flute Length Inches
875-100	1/16	.0625	1-7/8	7/8	875-108	3/16	.1875	3-1/2	2-5/16	875-123	U	.368	5	3-5/8
875-101	5/64	.0781	2	1	875-125	11	.191	3-1/2	2-5/16	875-A01-1K	3/8	.375	5	3-5/8
875-102	3/32	.0937	2-1/4	1-1/4	875-124	10	.1935	3-5/8	2-7/16	875-117	13/32	.4062	5-1/4	3-7/8
875-130	40	.098	2-3/8	1-3/8	875-109	13/64	.2031	3-5/8	2-7/16	875-118	7/16	.4375	5-1/2	4-1/16
875-103	7/64	.1094	2-5/8	1-1/2	875-110	7/32	.2187	3-3/4	2-1/2	875-119	15/32	.4687	5-3/4	4-5/16
875-104	1/8	.1250	2-3/4	1-5/8	875-111	15/64	.2344	3-7/8	2-5/8	875-120	1/2	.500	6	4-1/2
875-129	30	.1285	2-3/4	1-5/8	875-112	1/4	.250	4	2-3/4	*Hi-Molybdenum Tool Steel Titanium Nitride Coated				
875-128	29	.136	2-7/8	1-3/4	875-121	F	.257	4-1/8	2-7/8					
875-105	9/64	.1406	2-7/8	1-3/4	875-122	I	.272	4-1/8	2-7/8					
875-106	5/32	.1562	3-1/8	2	875-113	9/32	.2812	4-1/4	2-15/16					
875-127	21	.159	3-1/4	2-1/8	875-114	5/16	.3125	4-1/2	3-3/16					
875-126	19	.166	3-1/4	2-1/8	*875-150	Q	.332	4-3/4"	3-7/16"					
875-107	11/64	.1719	3-1/4	2-1/8	875-115	11/32	.3437	4-3/4	3-7/16					
cont'd.					cont'd.									

### Adjustable Drill Stops



**SPAENAUR No.**  
**876-762**  
Drill Dia. Capacity:  
1/16" to 1/4"  
**(1.6 to 6.35 mm)**



**PKG QTY. 1**



**SPAENAUR No.**  
**876-763**  
Drill Dia. Capacity:  
1/4" to 1/2"  
**(6.35 to 12.7 mm)**

Precision moulded of delrin plastic to rigid specifications for hard, rugged use.

Can be easily adjusted to control exact depth of holes in drilling metal, masonry, formica and wood. Costly and embarrassing mistakes caused by overdrilling from opposite side are eliminated. Holes can be drilled faster and more accurately, saving time and money for mechanics, electricians, plumbers, and automotive repairmen.

Can be effectively used with either high speed drills or carbide-tipped masonry drills.

**General Purpose E-X-T-R-A L-O-N-G 118° Point**

*Recommended for production drilling in a wide range of deep hole drilling applications.*



**12" LENGTHS**

**High Speed Steel**

**18" LENGTHS**

SPAENAU No.	Diameter	Decimal Equivalent	Flute Length
875-001	1/8"	.1250"	9"
875-002	9/64"	.1406"	9"
875-003	5/32"	.1562"	9"
875-004	11/64"	.1719"	9"
875-005	3/16"	.1875"	9"
875-006	13/64"	.2031"	9"
875-007	7/32"	.2188"	9"
875-008	15/64"	.2344"	9"
875-009	1/4"	.2500"	9"
875-010	17/64"	.2656"	9"
875-011	9/32"	.2812"	9"
875-012	19/64"	.2969"	9"
875-013	5/16"	.3125"	9"
875-014	21/64"	.3281"	9"
875-015	11/32"	.3438"	9"
875-016	23/64"	.3594"	9"
875-017	3/8"	.3750"	9"
875-018	25/64"	.3906"	9"
875-019	13/32"	.4062"	9"
875-020	27/64"	.4219"	9"
875-021	7/16"	.4375"	9"
875-022	29/64"	.4531"	9"
875-023	15/32"	.4688"	9"
875-024	31/64"	.4844"	9"
875-025	1/2"	.5000"	9"

SPAENAU No.	Diameter	Decimal Equivalent	Flute Length
875-026	3/16"	.1875"	10"
875-027	7/32"	.2188"	10"
875-028	1/4"	.2500"	12"
875-029	9/32"	.2812"	12"
875-030	5/16"	.3125"	12"
875-031	11/32"	.3438"	12"
875-032	3/8"	.3750"	12"
875-033	13/32"	.4062"	12"
875-034	7/16"	.4375"	12"
875-035	15/32"	.4688"	12"
875-036	1/2"	.5000"	12"



**REDUCED SHANK DRILLS**

**1/2" SHANK**

**HIGH SPEED STEEL**

**GENERAL PURPOSE - 118° POINT**

Recommended for use in portable electric drills and in power applications such as screw machines where a short, rigid drill is required.

SPAENAU No.	Diameter	Decimal Equivalent	Overall Length
875-062	21/32"	.6562"	6"
875-063	11/16"	.6875"	6"
875-064	23/32"	.7188"	6"
875-065	3/4"	.7500"	6"
875-066	25/32"	.7812"	6"
875-067	13/16"	.8125"	6"
875-068	27/32"	.8438"	6"
875-069	7/8"	.8750"	6"
875-070	29/32"	.9062"	6"
875-071	15/16"	.9375"	6"
875-072	31/32"	.9688"	6"
875-073	1"	1.0000"	6"
875-074	1-1/16"	1.0625"	6"
875-075	1-1/8"	1.1250"	6"
875-076	1-5/32"	1.1562"	6"
875-077	1-3/16"	1.1875"	6"
875-078	1-1/4"	1.2500"	6"

**REDUCED SHANK DRILLS**

**3/8" SHANK**

Bright Finish - High Speed Steel



**GENERAL PURPOSE - 118° POINT**

This general purpose drill type is designed for use in portable air and electric drilling equipment with 3/8" chucks.

SPAENAU No.	Diameter	Decimal Equivalent	Overall Length	Flute Length
875-050	25/64"	.3906"	5-1/8"	3-3/4"
875-052	27/64"	.4219"	5-3/8"	3-15/16"
875-053	7/16"	.4375"	5-1/2"	4-1/16"
875-054	29/64"	.4531"	5-5/8"	4-3/16"
875-055	15/32"	.4688"	5-3/4"	4-5/16"
875-056	31/64"	.4844"	5-7/8"	4-3/8"
875-057	1/2"	.5000"	6"	4-1/2"
875-058	17/32"	.5312"	6"	4-1/2"
875-059	9/16"	.5625"	6"	4-1/2"
875-060	19/32"	.5938"	6"	4-1/2"
875-061	5/8"	.6250"	6"	4-1/2"

**ALL HIGHEST QUALITY U.S.A. MADE.**

**Extension Drill – Surface Treated  
Heavy Duty 135° Split Point – High Speed Steel  
SPAENAU No. 875-097**

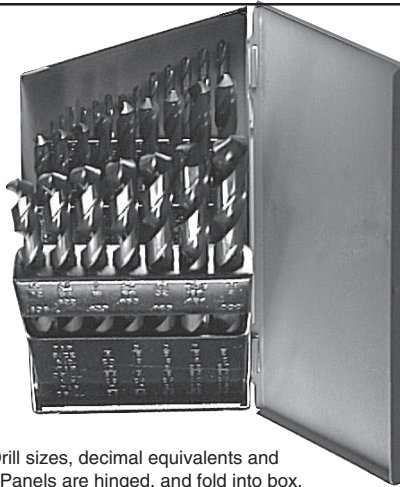
1/4" dia x 2-3/4" flute length, 12" O/A Length.  
Useful for drilling holes in hard-to-reach places!

**HIGHEST QUALITY  
U.S.A. MADE**

**STRAIGHT SHANK  
JOBBER'S DRILLS**

**In First Quality  
Metal Index Boxes**

**COMPACT  
CONVENIENT  
DURABLE**



Holes in panels are individually drilled. Drill sizes, decimal equivalents and tap sizes, are plainly marked on panels. Panels are hinged, and fold into box.

**FRACTIONAL-SIZE DRILL SETS  
WITH INDEX**

SET NO.	CONTENTS	SIZES					
<b>HSDS-13</b>	13 Drills	1/16,	5/64,	3/32,	7/64,	1/8,	
		9/64,	5/32,	11/64,	3/16,	13/64,	
		7/32,	15/64,	1/4			
<b>HSDI-13</b>	Index only for above.						
<b>HSDS-15</b>	15 Drills	1/16,	3/32,	1/8,	5/32,	3/16,	
		7/32,	1/4,	9/32,	5/16,	11/32,	
		3/8,	13/32,	7/16,	15/32,	1/2	
<b>HSDI-15</b>	Index only for above.						
<b>HSDS-29</b>	29 Drills	1/16,	5/64,	3/32,	7/64,	1/8,	
		9/64,	5/32,	11/64,	3/16,	13/64,	
		7/32,	15/64,	1/4,	17/64,	9/32,	
		19/64,	5/16,	21/64,	11/32,	23/64,	
		3/8,	25/64,	13/32,	27/64,	7/16,	
		29/64,	15/32,	31/64,	1/2		
<b>HSDI-29</b>	Index only for above.						

**WIRE GAUGE (Number Size)  
& LETTER SIZE DRILL SETS**

**DRILL SETS INCLUDING INDEX**

SET NO.	CONTENTS	SIZES	INDEX ONLY
<b>HSDS-217</b>	20 Drills	No's. 61 to 80 incl.	<b>HSDI-217</b>
<b>HSDS-219</b>	60 Drills	No's. 1 to 60 incl.	<b>HSDI-219</b>
<b>HSDS-226</b>	26 Drills	Sizes A to Z incl.	<b>HSDI-226</b>

**SPAENAUR No.  
875-167  
4-Flute Core Drill  
(left)**



Straight Shank  
13/16" Diameter  
10-1/8" O/A Length  
High Speed Steel

**SPAENAUR No.  
874-339  
Finishing Tap  
(right)**

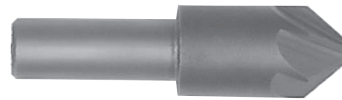


High Speed Steel  
7/8"-14 Thread

Tap shown in protective plastic coating.

**CHATTERLESS  
COUNTERSINKS**

**HIGH SPEED**



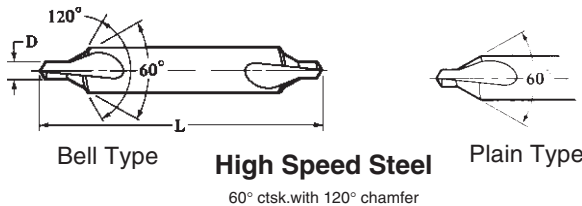
**Six-Flute**

SPAENAUR No.'s			Body Diameter	Shank Diameter
82° CTSK.	90° CTSK.	120° CTSK.		
<b>875-200</b>	<b>875-207</b>	<b>875-214</b>	1/8"	1/8"
<b>875-201</b>	<b>875-208</b>	<b>875-215</b>	3/16"	3/16"
<b>875-202</b>	<b>875-209</b>	<b>875-216</b>	1/4"	3/16"
<b>875-203</b>	<b>875-210</b>	<b>875-217</b>	5/16"	1/4"
<b>875-204</b>	<b>875-211</b>	<b>875-218</b>	3/8"	1/4"
<b>875-205</b>	<b>875-212</b>	—	1/2"	1/4"
<b>875-206</b>	<b>875-213</b>	<b>875-219</b>	1/2"	3/8"
<b>875-881</b>	<b>875-239</b>	—	5/8"	3/8"
<b>875-882</b>	—	—	3/4"	1/2"

When ordering please specify head diameter of screw and degree of countersink.

Please refer page R10 for Head Dimension Charts.

**Combined DRILL and COUNTERSINK- Double Ended**

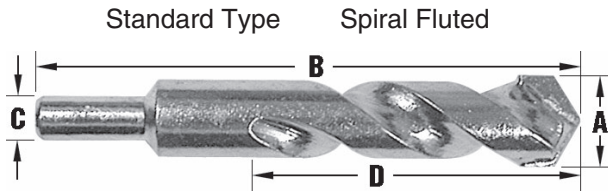


SPAENAUR No.	Drill Dia.	Countersink	Overall Length
<b>875-184</b>	3/32"	Bell Type	2"
<b>875-169</b>	1/8"	Plain Type	2"
<b>875-185</b>	5/32"	Bell Type	2-3/4"
<b>875-186</b>	3/16"	Bell Type	3"

All items on this page - PKG QTY. 1

Not guaranteed against breakage or wear.

**For use in Rotary Electric Drills and Hand Braces.**



**CAUTION:**

Do not use in hammer-type percussion drills.

**SPECIFICATIONS**

**PKG QTY. 1**

SPAENAUR No.	Nominal Dia.	▲ Actual Dia. Inches A	Approx. Length Overall Inches B	Dimensions Inches Shank Diameter C	Spiral Flute Length D
875-A02-1W	1/8"	.130	3	1/8	1-1/2
RT-1408-5	5/32"	.175	3	5/32	1-1/2
RT-1410-5	3/16"	.198	4	3/16	2
RT-1415-5	1/4"	.260	4	1/4	2-1/2
RT-1420-5	5/16"	.328	4	1/4	2-1/2
RT-1425-5	3/8"	.390	4	1/4	2-1/4
*RT-1430-5	7/16"	.458	6-1/2	1/4 or 3/8	4-1/4
*RT-1435-5	1/2"	.525	6	1/4 or 3/8	4-1/4
RT-1440-0	9/16"	.587	6-1/2	3/8	4-1/4
RT-1445-0	5/8"	.650	6-3/8	1/2	4-1/4
RT-1450-0	11/16"	.713	6-1/2	1/2	4-1/4
RT-1455-0	3/4"	.775	6-1/2	1/2	4-1/4
RT-1460-0	7/8"	.905	6	1/2	4-1/4
RT-1465-0	1"	1.030	6-1/2	1/2	4-1/4

- \* 7/16 and 1/2 in. diameters supplied with 3/8" shanks unless 1/4" shanks are specified.
- ▲ Sufficient oversize allowances are provided for proper hole size required for installation of expansion shields, anchors and toggle bolts.

The rotary masonry drill is carbide tipped, and has a spiral fluted body. It penetrates freely and easily, giving clean, accurate holes in the hardest masonry.

For use with all common types of rotary electric drills and hand braces. Do not use in Hammer-type percussion drills. All drills are individually packaged, complete with operating instructions.

**Extra Long Lengths**



**Spiral fluted**

**SPECIFICATIONS**

**PKG QTY. 1**

SPAENAUR No.	Nominal Diameter x Extra Long Length	For use in Drill Chuck Size	Spiral Flute Length
RT-1425-16	3/8" x 18"	3/8"	13"
RT-1425-24	3/8" x 24"	3/8"	21"
RT-1435-24	1/2" x 24"	3/8"	21"
RT-1445-24	5/8" x 24"	1/2"	21"
RT-1455-24	3/4" x 24"	1/2"	21"
RT-1460-24	7/8" x 24"	1/2"	21"
RT-1465-16	1" x 18"	1/2"	13"
RT-1465-24	1" x 24"	1/2"	21"
875-166	1-3/8" x 16"	1/2"	13"

**ROTARY MASONRY DRILLS**

For Use in Rotary and Hammer Drills



PKG QTY. 1

SPAENAUR No.	Drill Bit Dia.	Length
875-159		3-1/2"
875-160	5/32"	4-1/2"
875-161		5-1/2"
875-162		3-1/2"
875-163	3/16"	4-1/2"
875-164		5-1/2"
875-165		6-1/2"
875-240	5/8"	18"
875-092	7/8"	18"

**INSTRUCTIONS FOR USE AND CARE OF CARBIDE-TIPPED ROTARY MASONRY DRILLS**

1. **USE IT WITH** - rotary electric portable drills, drill presses or hand braces. Do not use in hammer-type percussion drills.
2. **SPEED** - For best results use heavy-duty, slow speed electric drills with 400 to 750 RPM. For extremely hard materials, slower speeds, from 100 to 200 RPM, will give better results.
3. **PRESSURE** - For best results use sufficient pressure to keep drill cutting at all times.
4. **LUBRICATION** - Although dry drilling produces excellent results, a lubricant sometimes helps on very hard materials

such as glazed tile, porcelain, marble, etc. Turpentine, kerosene or water may be used as lubricants, and enough should be applied to keep the entire drill point wet.

5. **HOW TO SHARPEN** - These drills can be sharpened on any tool grinder, although silicon wheels are recommended.

When sharpening, use moderate pressure, and keep drill continually moving across the wheel. Use the same angles as for steel drills, and keep the drill dry at all times during sharpening.

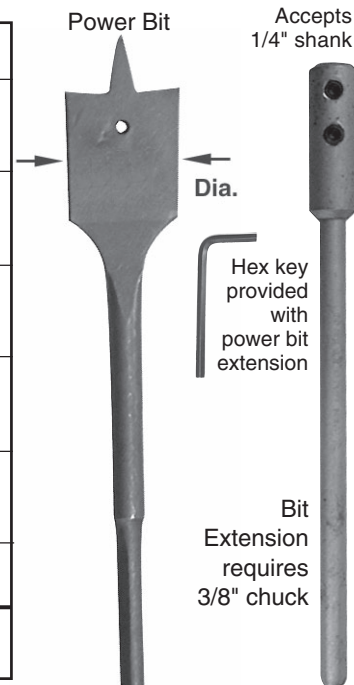
**SPADE  
POWER BITS  
High Carbon STEEL  
1/4" Shank**

Cuts clean accurate holes in all soft and hard woods plus foam core, plastic, many non-metallic building sidings and foam insulation.

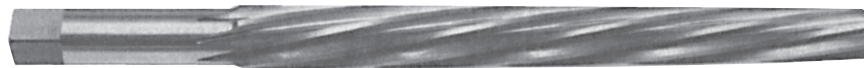
Approx. O/A Length of Bits  
6-1/4"

PKG QTY. 1

Spaenaur No.	Diameter	Description
875-220	1/4"	Power Bit
875-221	5/16"	Power Bit
875-222	3/8"	Power Bit
875-223	7/16"	Power Bit
875-224	1/2"	Power Bit
875-225	9/16"	Power Bit
875-226	5/8"	Power Bit
875-227	11/16"	Power Bit
875-228	3/4"	Power Bit
875-229	13/16"	Power Bit
875-230	7/8"	Power Bit
875-231	15/16"	Power Bit
875-232	1"	Power Bit
875-233	1-1/8"	Power Bit
875-234	1-1/4"	Power Bit
875-235	1-3/8"	Power Bit
875-236	1-1/2"	Power Bit
875-237	12" length	Power Bit Extension
875-238	6" length	Power Bit Extension



**INCH TAPER PIN REAMERS**



LEFT HAND SPIRAL / RIGHT HAND CUT

Straight Shank • High Speed Steel

Taper 1/4" Per Foot

SPAENAUR No.	For Pin Size	Dia. Small End	Dia. Large End	Flute Length	Overall Length
875-131	7/0	.0497"	.0666"	13/16"	1-13/16"
875-132	6/0	.0611"	.0806"	15/16"	1-15/16"
875-133	5/0	.0719"	.0966"	1-3/16"	2-3/16"
875-134	4/0	.0869"	.1142"	1-5/16"	2-5/16"
875-135	3/0	.1029"	.1302"	1-9/16"	2-5/16"
875-136	2/0	.1137"	.1462"	1-9/16"	2-9/16"
875-137	0	.1287"	.1638"	1-11/16"	2-15/16"
875-138	1	.1447"	.1798"	1-11/16"	2-15/16"
875-139	2	.1605"	.2008"	1-15/16"	3-3/16"
875-140	3	.1813"	.2294"	2-5/16"	3-11/16"
875-141	4	.2071"	.2604"	2-9/16"	4-1/16"
875-142	5	.2409"	.2994"	2-13/16"	4-5/16"
875-143	6	.2773"	.3504"	3-11/16"	5-7/16"
875-144	7	.3297"	.4220"	4-7/16"	6-5/16"
875-145	8	.3971"	.5050"	5-3/16"	7-3/16"
875-146	9	.4805"	.6066"	6-1/16"	8-5/16"
875-147	10	.5799"	.7216"	6-13/16"	9-5/16"

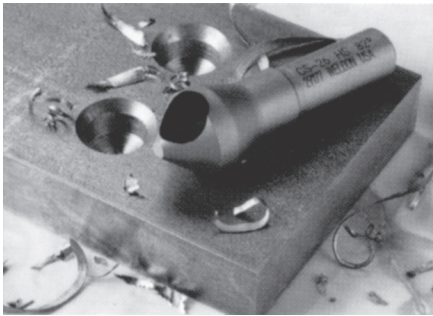
All Reamers - PKG QTY. 1

SPAENAUR CATALOG 14



# Countersinks you can count on - from start to finish.

## Cut Metal



Weldon high-speed steel countersinks and deburring tools are known for their high quality, unique designs and outstanding performance. No matter what material you're cutting or what angle you're cutting it, our tools will give you the chatterless finishes you're looking for. With Weldon, you always get real value in the cutting tools you buy. Superior-quality countersinks and deburring tools at very competitive prices. Choose from our large selection of styles and sizes.

- **Chatterless design**
- **Single cutting edge for fast removal of stock**
- **Free-cutting**
- **Easily sharpened**
- **Available in 60°, 82° and 100° cutting angles**
- **Specials also available**

## Cut Plastic



## Cut Wood



SPAENAUR No.

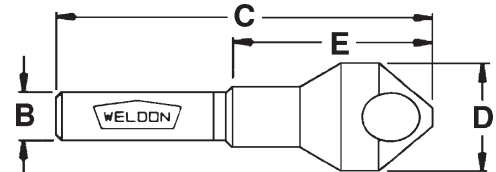
**874-1699**

**5 piece  
82° Countersink Set**



Set consists of 1 each:  
874-1694, 874-1695,  
874-1696, 874-1697  
and 874-1698.

PKG QTY. 1



### 82° Pilotless Countersinks - PKG QTY. 1

SPAENAUR No.	For Screw Size	Dia. of Cut Min.	Dia. of Cut Max.	Shank Dia. B	Overall Length C	D	E
874-1694	Nos. 4, #5	—	—	1/4"	1-1/2"	17/64"	5/8"
874-1695	No. 6	—	—	1/4"	1-1/2"	19/64"	5/8"
874-1696	No. 8	—	—	1/4"	1-5/8"	11/32"	3/4"
874-1697	No. 10	—	—	1/4"	1-5/8"	25/64"	3/4"
874-1698	—	3/16"	17/32"	1/4"	1-7/8"	9/16"	1"

### 100° Pilotless Countersinks - PKG QTY. 1

874-1700	—	3/32"	1/4"	1/4"	1-1/2"	17/64"	5/8"
874-1701	—	1/8"	27/64"	1/4"	1-11/16"	7/16"	13/16"
874-1702	—	3/16"	35/64"	1/4"	1-7/8"	9/16"	1"

## End Mills - 2 Flutes

Two Flute End Mills are designed for milling keyways, slots, pockets and other operations requiring a combination of plunge cutting and milling. Ample chip room in the flutes provides for efficient metal removal. Weldon's new *UniLead*<sup>™</sup> precision manufactured leads are featured on end mills of 1/2" cutting diameter and larger.

### Regular Length Single-End

with WELDON shank  
R.H. Cut, R.H. Helix



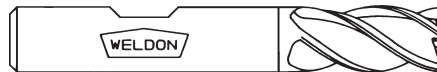
	SPAENAUR No.	Diameter of Mill	Diameter of Shank	Length of Cut	Overall Length
<b>Premium 8% Cobalt Steel</b> • Centre Cutting End Design • Cutting Diameter Tolerance is $\begin{matrix} +.003 \\ -.000 \end{matrix}$	874-1680	1/8"	3/8"	3/8"	2-5/16"
	874-1681	3/16"	3/8"	7/16"	2-5/16"
	874-1682	1/4"	3/8"	1/2"	2-5/16"
	874-1683	5/16"	3/8"	9/16"	2-5/16"
	874-1684	3/8"	3/8"	9/16"	2-5/16"
<b>High Speed Steel</b> • Cutting Diameter Tolerance is $\begin{matrix} +.003 \\ -.000 \end{matrix}$  Two screw drive on 7/8" shanks and larger	874-1676	1/2"	1/2"	1"	3"
	874-1677	5/8"	5/8"	1-5/16"	3-7/16"
	874-1678	3/4"	3/4"	1-5/16"	3-9/16"
	874-1679	1"	1"	1-5/8"	4-1/8"

## End Mills - 4 Flutes

These end mills are designed for general purpose work including cam milling, die sinking and slot milling. End mills 13/32" diameter and larger are regularly furnished with standard square end. Weldon's new *UniLead*<sup>™</sup> precision manufactured leads are featured on end mills of 1/2" cutting diameter and larger.

### Regular Length Single-End

with WELDON Shank  
R.H. Cut, R.H. Helix



	SPAENAUR No.	Diameter of Mill	Diameter of Shank	Length of Cut	Overall Length
<b>Premium 8% Cobalt Steel</b> • Centre Cutting End Design • Cutting Diameter Tolerance is $\begin{matrix} +.003 \\ -.000 \end{matrix}$	874-1689	1/8"	3/8"	3/8"	2-5/16"
	874-1690	3/16"	3/8"	1/2"	2-3/8"
	874-1691	1/4"	3/8"	5/8"	2-7/16"
	874-1692	5/16"	3/8"	3/4"	2-1/2"
	874-1693	3/8"	3/8"	3/4"	2-1/2"
<b>High Speed Steel</b> • Centre Cutting • Cutting Diameter Tolerance is $\begin{matrix} +.003 \\ -.000 \end{matrix}$  Two screw drive on 7/8" shanks and larger	874-1685	1/2"	1/2"	1-1/4"	3-1/4"
	874-1686	5/8"	5/8"	1-5/8"	3-3/4"
	874-1687	3/4"	3/4"	1-5/8"	3-7/8"
	874-1688	1"	1"	2"	4-1/2"

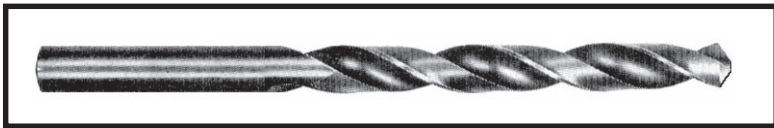
All items this page  
PKG QTY. 1

P

SPAENAUR CATALOG 14

## General Purpose

## METRIC STRAIGHT SHANK TWIST DRILLS

**DIN 338**High Speed Steel  
Right Hand Cutting

SPAENAUR No.	Size mm (dia.)	Flute Length mm	Overall Length mm
875-528	1.00	12	34
875-530	1.10	14	36
875-531	1.15	19	44
875-532	1.20	16	38
875-534	1.30	16	38
875-536	1.40	18	40
875-538	1.50	18	40
875-540	1.60	20	43
875-542	1.70	20	43
875-544	1.80	22	46
875-546	1.90	24	49
875-548	2.00	24	49
875-550	2.10	27	53
875-552	2.20	27	53
875-554	2.30	30	57
875-556	2.40	30	57
875-558	2.50	30	57
875-560	2.60	30	57
875-562	2.70	33	61
875-564	2.80	33	61
875-566	2.90	33	61
875-568	3.00	33	61
875-569	3.10	36	65
875-570	3.20	36	65
875-572	3.30	36	65
875-573	3.40	39	70
875-574	3.50	39	70
875-575	3.60	39	70
875-576	3.70	39	70
875-578	3.80	43	75
875-579	3.90	43	75
875-580	4.00	43	75
875-581	4.10	43	75
875-582	4.20	43	75
875-584	4.30	47	80
875-585	4.40	47	80
875-586	4.50	47	80
875-587	4.60	47	80
875-588	4.70	47	80
875-590	4.80	52	86
875-591	4.90	52	86
875-592	5.00	52	86

SPAENAUR No.	Size mm (dia.)	Flute Length mm	Overall Length mm
875-593	5.10	52	86
875-594	5.20	52	86
875-596	5.30	52	86
875-597	5.40	57	93
875-598	5.50	57	93
875-599	5.60	57	93
875-600	5.70	57	93
875-602	5.80	57	93
875-603	5.90	57	93
875-604	6.00	57	93
875-605	6.10	63	101
875-606	6.20	63	101
875-608	6.30	63	101
875-609	6.40	63	101
875-610	6.50	63	101
875-611	6.60	63	101
875-612	6.70	63	101
875-613	6.75	69	109
875-614	6.80	69	109
875-615	6.90	69	109
875-616	7.00	69	109
875-617	7.10	69	109
875-618	7.20	69	109
875-620	7.30	69	109
875-621	7.40	69	109
875-622	7.50	69	109
875-623	7.60	75	117
875-624	7.70	75	117
875-626	7.80	75	117
875-627	7.90	75	117
875-628	8.00	75	117
875-629	8.10	75	117
875-630	8.20	75	117
875-632	8.30	75	117
875-633	8.40	75	117
875-634	8.50	75	117
875-635	8.60	81	125
875-636	8.70	81	125
875-638	8.80	81	125
875-639	8.90	81	125
875-640	9.00	81	125
875-641	9.10	81	125

PACKAGING: Sizes up to 5.00 mm dia. - PKG QTY. 10 Larger Sizes - PKG QTY. 1

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**DIN 338**

**METRIC STRAIGHT SHANK TWIST DRILLS**

...continued from previous page.

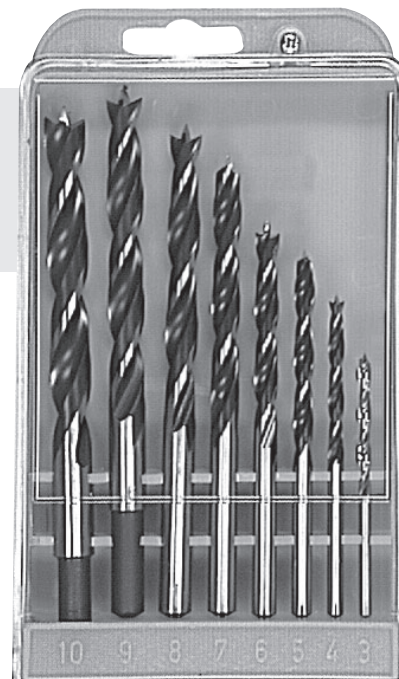
SPAENAU No.	Size mm (dia.)	Flute Length mm	Overall Length mm
875-642	9.20	81	125
875-644	9.30	81	125
875-645	9.40	81	125
875-646	9.50	81	125
875-647	9.60	87	133
875-648	9.70	87	133
875-650	9.80	87	133
875-651	9.90	87	133
875-652	10.00	87	133
875-654	10.20	87	133
875-658	10.50	87	133
875-662	10.80	94	142
875-664	11.00	94	142
875-666	11.20	94	142
875-670	11.50	94	142
875-674	11.80	94	142
875-676	12.00	101	151
875-678	12.20	101	151

SPAENAU No.	Size mm (dia.)	Flute Length mm	Overall Length mm
875-680	12.30	101	151
875-682	12.50	101	151
875-684	12.70	101	151
875-686	12.80	101	151
875-688	13.00	101	151
875-691	13.50	108	160
875-693	14.00	108	160
875-694	14.50	114	169
875-695	15.00	114	169
875-697	15.50	120	178
875-698	16.00	120	178
875-699	16.50	125	184
875-715	17.00	125	184
875-716	17.50	130	191
875-717	18.00	130	191
875-718	18.50	135	198
875-719	19.00	135	198
875-720	19.50	140	205
875-721	20.00	140	205

PKG QTY. 1

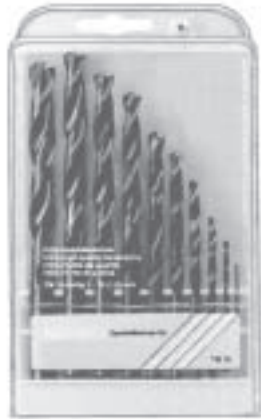
For more DIN 338 drills, see following pages.

See Page P35-P37 for Twist Drill Bits Set



## METRIC STRAIGHT SHANK TWIST DRILLS SETS

**DIN 338**

 High Speed Steel  
 Right Hand Cutting


### All Dimensions in millimetres

SPAENAUR No.	Description - Set Contains 1 each of the Following Sizes (d <sub>1</sub> ):
<i>The following put up in a transparent case:</i>	
<b>875-262</b>	2.0, 3.0, 4.0, 5.0, 6.0, 8.0 mm (6 sizes)
<b>875-264</b>	1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0 mm (10 sizes)
<i>The following put up in a metal box:</i>	
<b>875-266</b>	1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0 mm (10 sizes)
<b>875-268</b>	1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0 mm (19 sizes)
<b>875-260</b>	Contents same as 875-268 above, except superior quality.
<b>875-270</b>	1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 10.0, 11.0, 12.0, 13.0 mm (21 sizes)
<b>875-271</b>	1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0 mm (25 sizes)
<b>875-272</b>	1.0, 1.5, 1.9, 2.0, 2.2, 2.5, 2.6, 2.9, 3.0, 3.2, 3.3, 3.5, 3.7, 4.0, 4.2, 4.5, 5.0, 5.1, 5.5, 6.0, 6.5, 6.7, 7.0, 7.5, 7.9, 8.0, 8.5, 9.0, 9.5, 10.0, 10.2, 10.5 mm (32 sizes)
<b>875-273</b>	6.0, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 9.0, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 10.0 mm (41 sizes)
<b>875-274</b>	1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.0, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9 mm (50 sizes)

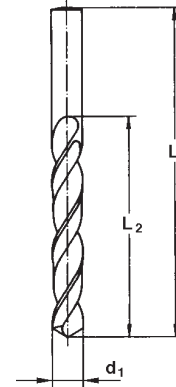
All Drill Sets - PKG QTY. 1

## METRIC STRAIGHT SHANK TWIST DRILLS

High Efficiency

**DIN 338**

High Speed Steel  
Right Hand Cutting



Range of Application:

High efficiency drill for drilling of steel and steel castings, alloy and plain carbon, grey iron castings, copper-alloys, nickel-silver, graphite and similar materials.

SPAENAUR No.	Size DIA. (d1) mm	Overall Length (L1) mm	Flute Length (L2) mm
875-723	0.3	19	3
875-724	0.4	20	5
875-725	0.5	22	6
875-726	0.6	24	7
875-727	0.7	28	9
875-728	0.75	28	9
875-729	0.8	30	10
875-730	0.85	30	10
875-731	0.9	30	11
875-732	0.95	32	11
875-733	1.0	32	12
875-734	1.1	36	14
875-735	1.45	40	18
875-736	1.5	40	18
875-737	1.6	43	20
875-738	2.0	49	24
875-739	2.05	49	24
875-740	2.1	49	24
875-741	2.15	53	27
875-742	2.5	57	30
875-743	2.65	57	30
875-744	2.9	61	33
875-745	3.0	61	33
875-746	3.3	65	36
875-747	3.5	70	39
875-748	3.7	70	39
875-749	4.0	75	43
875-797	4.2	75	43
875-798	4.25	75	43
875-799	4.5	80	47
875-800	5.0	86	52
875-801	5.25	86	52
875-802	5.5	93	57
875-803	5.8	93	57
875-804	5.9	93	57
875-805	6.0	93	57

SPAENAUR No.	Size DIA. (d1) mm	Overall Length (L1) mm	Flute Length (L2) mm
875-806	6.5	101	63
875-807	6.8	109	69
875-808	7.0	109	69
875-809	7.5	109	69
875-810	7.8	117	75
875-811	8.0	117	75
875-812	8.5	117	75
875-813	9.0	125	81
875-814	9.5	125	81
875-815	10.0	133	87
875-816	10.1	133	87
875-817	10.2	133	87
875-818	10.3	133	87
875-819	10.4	133	87
875-820	10.6	142	94
875-821	10.7	142	94
875-822	10.8	142	94
875-823	10.9	142	94
875-824	11.1	142	94
875-825	11.2	142	94
875-826	11.3	142	94
875-827	11.4	142	94
875-828	11.6	142	94
875-829	11.7	142	94
875-830	11.8	142	94
875-831	11.9	151	101
875-832	12.0	151	101
875-833	12.1	151	101
875-834	12.2	151	101
875-836	12.4	151	101
875-837	12.6	151	101
875-838	12.8	151	101
875-839	12.9	151	101
875-840	14.0	160	108
875-855	17.5	191	130
875-856	18.0	191	130

PACKAGING: Sizes up to 5.00 mm dia. - PKG QTY. 10 Larger Sizes - PKG QTY. 1

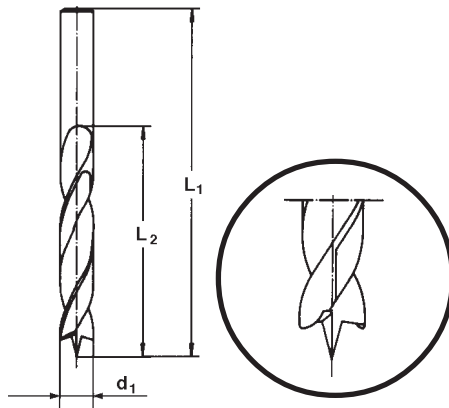
## TWIST DRILLS FOR WOOD WITH CENTRE POINT AND SPUR

### METRIC - SIMILAR TO DIN 338

Chrome Vanadium  
Right Hand Cutting

#### Range of Application:

Twist drill for wood with good cutting efficiency for general use. Suitable for drilling in soft and hard wood, in chipboards, fibreboards etc.



SPAENAUR No.	Size DIA. (d <sub>1</sub> ) mm	Overall Length (L <sub>1</sub> ) mm	Flute Length (L <sub>2</sub> ) mm
875-324	3	61	33
875-325	4	75	43
875-326	5	86	52
875-327	6	93	57
875-328	7	109	69
875-329	8	117	75
875-330	9	125	81
875-331	10	133	87
875-332	11	142	94
875-333	12	151	101
875-334	13	151	101
875-335	14	160	108
875-336	15	169	114
875-337	16	178	120
875-338	18	191	130
875-339	20	191	130

All Drill Bits - PKG QTY. 1

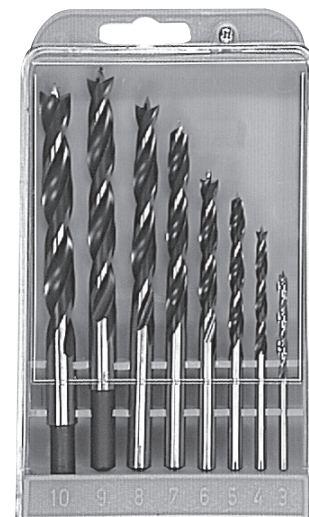
## TWIST DRILL SETS FOR WOOD WITH CENTRE POINT

### METRIC - SIMILAR TO DIN 338

Chrome Vanadium  
Right Hand Cutting  
Put up in a Transparent Case

SPAENAUR No.	Sizes
875-261	4.0, 5.0, 6.0, 8.0, 10.0 mm
875-263	3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0 mm

All Drill Sets - PKG QTY. 1



SPAENAUR No.	Size Dia. (d <sub>1</sub> ) mm	Overall Length (L <sub>1</sub> ) mm	Flute Length (L <sub>2</sub> ) mm	Shank Diameter (d <sub>2</sub> ) mm	Reduced Shank Length (L <sub>3</sub> ) mm
875-841	10.5	133	87	9.5	25
875-842	11	142	94	9.5	25
875-843	11.5	142	94	9.5	25
875-844	12	151	101	9.5	25
875-845	12.5	151	101	9.5	25
875-846	13	151	101	9.5	25
875-847	13.5	160	108	9.5	30
875-848	14	160	108	9.5	30
875-849	14.5	169	114	9.5	30
875-850	15	169	114	9.5	30
875-851	15.5	178	120	9.5	30
875-852	16	178	120	9.5	30
875-096	16.5	184	125	12.5	30
875-859	17	184	125	12.5	30
875-860	17.5	191	130	12.5	30
875-861	18	191	130	12.5	30
875-862	18.5	198	135	12.5	30
875-863	19	198	135	12.5	30
875-864	19.5	205	140	12.5	30
875-865	20	205	140	12.5	30

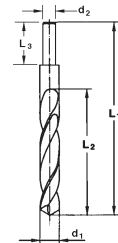
### STRAIGHT SHANK TWIST DRILLS WITH REDUCED SHANKS



#### METRIC - SIMILAR TO DIN 338

High Speed Steel  
Right Hand Cutting

Range of Application:  
Rollforged twist drill; best toughness combined with good cutting efficiency for drilling plain carbon and alloyed steel.



All Reduced  
Shank Twist Drills

PKG QTY. 1

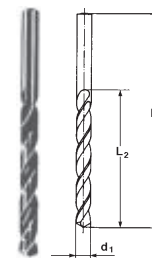
SPAENAUR No.	Size DIA. (d <sub>1</sub> ) mm	Overall Length (L <sub>1</sub> ) mm	Flute Length (L <sub>2</sub> ) mm
875-079	3	100	66
875-080	4	119	78
875-081	5	132	87
875-082	6	139	91
875-083	8	165	109
875-084	10	184	121
875-085	12	205	134

### STRAIGHT LONG SHANK TWIST DRILLS

#### METRIC - SIMILAR TO DIN 340

High Speed Steel Right Hand Cutting

Range of Application: High efficiency drill for deep holes and for drilling with drillbushes. For drilling of steel and steel castings, alloy and plain carbon, grey iron castings, copper alloys, nickel silver, graphite and similar materials.



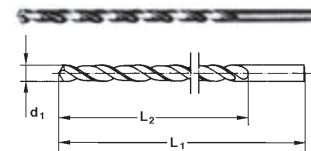
PACKAGING: Sizes up to 5.00 mm dia. - PKG QTY. 10 Larger Sizes - PKG QTY. 1

### METRIC EXTRA LONG STRAIGHT SHANK TWIST DRILLS

#### DIN 1869

High Speed Steel  
Right Hand Cutting

Range of Application:  
High efficiency drill for drilling of extremely deep holes where working conditions (cutting speed, feed, coolant, as well as frequently chip-removal) have to be observed.



SPAENAUR No.	Size DIA. (d <sub>1</sub> ) mm	Overall Length (L <sub>1</sub> ) mm	Flute Length (L <sub>2</sub> ) mm
875-374	2.0	125	85
875-375	2.5	140	95
875-376	3.0	190	130
875-377	3.5	210	145
875-357	4.0	175	120
875-378	4.0	220	150
875-358	4.5	185	125
875-379	4.5	235	160
875-380	5.0	245	170
875-361	5.5	205	140
875-381	5.5	260	180
875-360	6.0	205	140
875-382	6.0	260	180
875-362	6.5	215	150
875-383	6.5	275	190
875-363	7.0	225	155

SPAENAUR No.	Size DIA. (d <sub>1</sub> ) mm	Overall Length (L <sub>1</sub> ) mm	Flute Length (L <sub>2</sub> ) mm
875-384	7.0	290	200
875-364	7.5	225	155
875-385	7.5	290	200
875-386	8.0	305	210
875-366	8.5	240	165
875-387	8.5	305	210
875-367	9.0	250	175
875-388	9.0	320	200
875-368	9.5	250	175
875-389	9.5	320	200
875-369	10.0	265	185
875-390	10.0	340	235
875-370	10.5	265	185
875-371	11.0	280	195
875-372	11.5	280	195
875-373	12.0	295	205

PKG QTY. 1

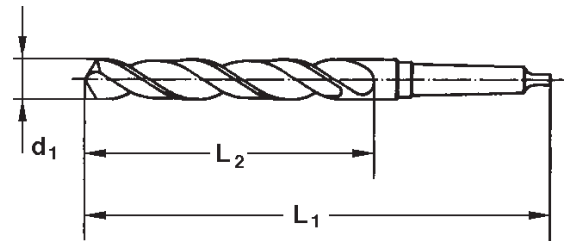


**DIN 345**

High Speed Steel  
Right Hand Cutting

## Range of Application:

High efficiency drill for drilling steel and steel castings, alloy and plain carbon, grey iron castings, malleable cast-iron, copper-alloys, nickel-silver, graphite etc.



SPAENAUR No.	Size DIA. (d <sub>1</sub> ) mm	Overall Length (L <sub>1</sub> ) mm	Flute Length (L <sub>2</sub> ) mm	Taper Shank No.
875-403	8	156	75	1
875-404	12	182	101	1
875-405	12.5	182	101	1
875-406	12.75	182	101	1
875-407	13	182	101	1
875-408	13.5	189	108	1
875-410	14	189	108	1
875-411	14.5	212	114	2
875-412	14.75	212	114	2
875-413	15	212	114	2
875-414	15.5	218	120	2
875-415	16	218	120	2
875-416	16.5	223	125	2
875-417	16.75	223	125	2
875-418	17	223	125	2
875-420	18	228	130	2
875-421	18.5	233	135	2
875-422	18.75	233	135	2
875-423	19	233	135	2
875-424	19.25	238	140	2
875-425	19.5	238	140	2
875-426	20	238	140	2
875-427	20.25	243	145	2
875-428	20.5	243	145	2
875-429	20.75	243	145	2
875-430	21	243	145	2
875-431	21.5	248	150	2
875-432	22	248	150	2
875-433	22.5	253	155	2
875-434	23	253	155	2
875-435	23.5	276	155	3
875-436	23.75	281	160	3
875-437	24	281	160	3
875-438	24.5	281	160	3
875-439	25	281	160	3
875-440	25.5	286	165	3
875-441	26	286	165	3
875-442	26.5	286	165	3
875-443	27	291	170	3
875-444	27.5	291	170	3
875-445	28	291	170	3

SPAENAUR No.	Size DIA. (d <sub>1</sub> ) mm	Overall Length (L <sub>1</sub> ) mm	Flute Length (L <sub>2</sub> ) mm	Taper Shank No.
875-446	28.5	296	175	3
875-447	29	296	175	3
875-448	29.5	296	175	3
875-449	30	296	175	3
875-450	30.5	301	180	3
875-451	31	301	180	3
875-452	31.5	301	180	3
875-453	32	334	185	4
875-454	32.5	334	185	4
875-456	33.5	334	185	4
875-458	34.5	339	190	4
875-459	35	339	190	4
875-460	35.5	339	190	4
875-461	36	344	195	4
875-462	36.5	344	195	4
875-463	37	344	195	4
875-464	37.5	344	195	4
875-465	38	349	200	4
875-466	38.5	349	200	4
875-467	39	349	200	4
875-468	39.5	349	200	4
875-471	41	354	205	4
875-473	42	354	205	4
875-475	43	359	210	4
875-479	45	359	210	4
875-481	46	364	215	4
875-483	47	364	215	4
875-485	48	369	220	4
875-487	49	369	220	4
875-489	50	369	220	4

All Drill Bits This Page - PKG QTY. 1

  
**SPAENAUR**  
Fasteners Right Now®

**PERCUSSION TYPE METRIC MASONRY BITS**

SPAENAUR No.	Drill Bit Diameter mm	For Chuck Size mm	Overall Length mm	Shank Style
875-750	5.0	12.5 mm	85	Straight Shank
875-751	6.5		100	
875-752	6.5		150	
875-753	8.0	or 1/2"	120	Style
875-754	8.0		150	
875-755	10.0		120	

**Carbide Tipped**

**Note:**  
For best results, always use these Percussion Type Masonry Bits with a Rotary Percussion Drill.

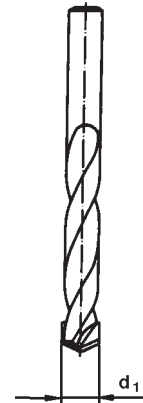


Diameters of the shank and tip are identical, giving increased precision, better support for the carbide tip and less risk of breakage.

**TUNGSTEN CARBIDE TIPPED MASONRY DRILL SETS**

**Metric - Similar to DIN 8039**  
Right Hand Cutting  
Put up in a Transparent Case

Range of Application:  
High efficiency tungsten carbide masonry drill, high stability because of the fully cylindrical form of the shaft. Suitable for drilling concrete, brick, natural stone etc. Primary range of application is for percussion drilling.



SPAENAUR No.	Bit Diameters (d <sub>1</sub> ) in each set.
875-275	4.0, 5.0, 6.0, 8.0, 10.0 mm
875-276	3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0 mm

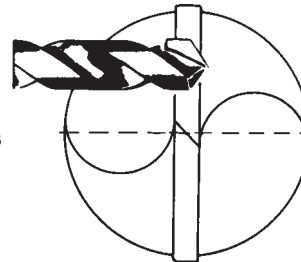
All Masonry Drill Sets - PKG QTY. 1

**METRIC MASONRY DRILLS**

**Carbide Tipped**

Zinc Plated or Plain Finish - our option  
STRAIGHT or REDUCED SHANK - our option  
for  
Non-impact, Rotary Drilling Machines

All Masonry Drills  
PKG QTY. 1



SPAENAUR No.	Bit Diameter	Length
875-761	3 mm	60 mm
875-774	6 mm	150 mm

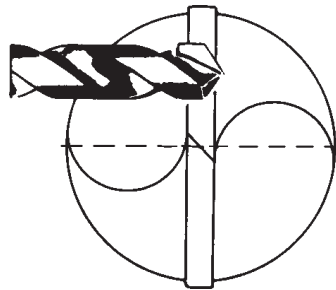
All Drill Bits This Page  
PKG QTY. 1

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## METRIC MASONRY DRILLS

### Carbide Tipped

Zinc Plated or Plain Finish - our option  
STRAIGHT or REDUCED SHANK - our option  
for  
Non-impact, Rotary Drilling Machines



Bit Dia. (in mm)	LENGTH (in millimetres)	
	60	150
M3	875-761	-
M6	-	875-774
M14	-	875-776

Order by SPAENAUR Numbers Listed Below

All Masonry Drill Sets  
PKG QTY. 1

## TUNGSTEN CARBIDE TIPPED MASONRY DRILL SETS

**Metric** - Similar to DIN 8039

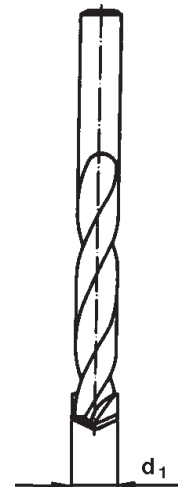
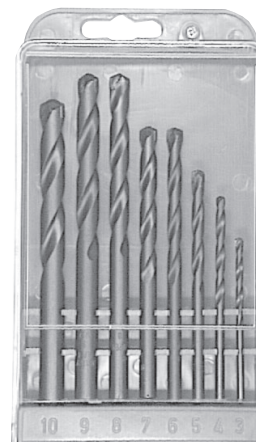
Right Hand Cutting  
Put up in a Transparent Case

Range of Application:

High efficiency tungsten carbide masonry drill, high stability because of the fully cylindrical form of the shaft. Suitable for drilling concrete, brick, natural stone etc. Primary range of application is for percussion drilling.

SPAENAUR No.	Bit Diameters ( $d_1$ ) in each set.
875-275	4.0, 5.0, 6.0, 8.0, 10.0 mm
875-276	3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0 mm

All Masonry Drill Sets - PKG QTY. 1



**PRECISIONS - COUNTERSINKS**

90°, Form "C" with Parallel Shank

PKG QTY. 1

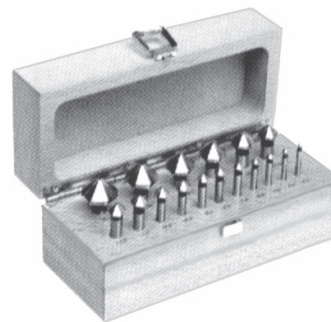
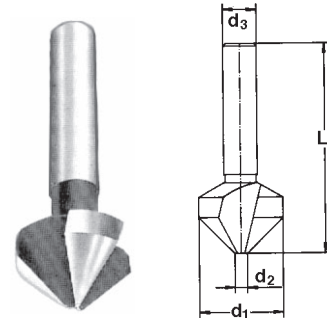
**Metric**

**DIN 335**

High Speed Steel  
Right Hand Cut

Range of Application:

For iron and non-ferrous metals, synthetic material soft and hard. Universal deburring and sink tool for all kinds of borings. High standard cutting features guarantee a smooth surface without burrs; profile relief facilitate an easy regrind.



**DIN 335C COUNTERSINK SET 874-1047**

Taper and deburring countersinkers set 90°. DIN335 CBN-ground with triple cutting lip in wooden case.

SPAENAUR No.	d1 mm	d2 mm	d3 mm	L1 mm
874-1020	4.3	1.3	4	40
874-1021	5.0	1.5	4	40
874-1022	6.0	1.5	5	45
874-1023	6.3	1.5	5	45
874-1024	7.0	1.8	6	50
874-1025	8.0	2.0	6	50
874-1026	8.3	2.0	6	50
874-1139	10.0	2.5	6	50
874-1027	10.4	2.5	6	50
874-1028	11.5	2.8	8	56
874-1029	12.4	2.8	8	56
874-1030	15.0	3.2	10	60
874-1031	16.5	3.2	10	60
874-1032	19.0	3.5	10	63
874-1033	20.5	3.5	10	63
874-1034	23.0	3.8	10	67
874-1035	25.0	3.8	10	67
874-1036	28.0	4.0	12	71
874-1140	31.0	4.2	12	71

SPAENAUR No.	Bit Diameters (d1) in set.
<b>874-1047</b>	4.3, 5.0, 6.0, 6.3, 7.0, 8.0, 8.3, 10.0, 10.4, 11.5, 12.4, 15.0, 16.5, 19.0, 20.5, 23.0, 25.0 mm

**METRIC**

**PRECISIONS - COUNTERSINKS**

90°, Form "D" with Morse Taper Shank

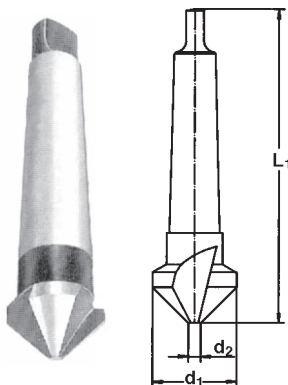
PKG QTY. 1

**DIN 335**

High Speed Steel  
Right Hand Cut

Range of Application:

For iron and non-ferrous metals, synthetic material soft and hard. Universal deburring and sink tool for all kinds of borings. High standard cutting features guarantee a smooth surface without burrs; profile relief facilitate an easy regrind.



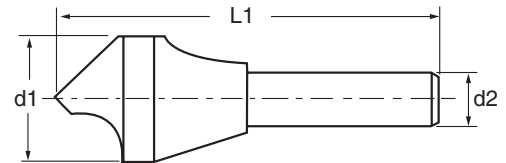
SPAENAUR No.	d1 mm	d2 mm	L1 mm	Morse Taper
874-1038	15.0	3.0	85	1
874-1039	16.5	3.2	85	1
874-1040	19.0	3.2	100	2
874-1041	20.5	3.5	100	2
874-1042	23.0	3.8	106	2
874-1043	25.0	3.8	106	2
874-1044	28.0	4.0	112	2
874-1045	31.0	4.2	112	2
874-1046	37.0	4.8	118	2

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## Slotted Taper and Deburring 90° Countersinks

HSS-E (Co 5)



PKG QTY. 1

- Chatter-free
- Burr-free
- High grade finish
- Suitable for most cuttable materials

SPAENAUR No.	Nominal Dia. (mm)	Countersink Range (mm)	Head Dia. d1 (mm)	Shank Dia. d2 (mm)	Length L1 (mm)
874-001	2/5	2 - 5	10	6	45
874-002	5/10	5 - 10	14	8	48
874-003	10/15	10 - 15	21	10	65
874-004	15/20	15 - 20	28	12	85
874-005	20/25	20 - 25	35	15	102
874-098	25/30	25 - 30	44	15	115
874-285	30/35	30 - 35	48	15	127
874-287	35/40	35 - 40	53	15	136
874-293	40/50	40 - 50	64	18	166

**874-294** Set of Countersinks - Tape and deburring countersink set with cutting paste ranges 2/5 to 15/20 (4 pcs) high speed steel (Co 5) in steel case.

## METRIC SLOT CUTTER, SHORT SERIES With Parallel Shank Centre Cutting

**DIN 327**

High Speed Steel

Range of Application:

ANS-quality

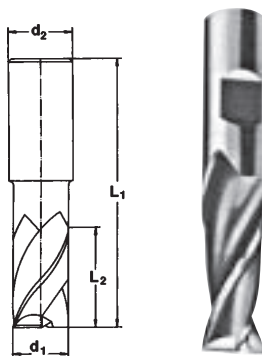
Recommended for milling in material of medium

and high tensile strength up to **1.200 N/mm<sup>2</sup>**

Vertical cutting to full depth and horizontal cutting with exact tolerances.

Right Hand Cutting - Right Hand Spiral - 2 Flute

Form D



SPAENAUR No.	d1 mm	L1 mm	L2 mm	d2 mm	Helix mm	Form
874-1068	2.5	49	5	6	14.0	D
874-1070	4.0	51	7	6	22.4	D
874-1071	6.0	52	8	6	35.5	D
874-1072	8.0	61	11	10	45.0	D
874-1073	10.0	63	13	10	56.0	D
874-1074	12.0	73	16	12	71.0	D
874-1075	14.0	73	16	12	80.0	D
874-1076	15.0	73	16	12	80.0	D
874-1077	16.0	79	19	16	90.0	D

All Slot Drills - PKG QTY. 1

## METRIC FLAT COUNTERBORES WITH MORSE TAPER SHANK AND PILOT PIN

Fine Grade for Through-Hole



SPAENAUR No.	For Thread	Countersink d <sub>1</sub> mm	Pin d <sub>2</sub> mm	Taper Shank No.	Overall Length (L <sub>1</sub> ) mm
874-1658	M10	18	10.5	2	150
874-1017	M14	24	15	2	160
874-1018	M16	26	17	3	190
874-1019	M20	33	21	3	190

PKG QTY. 1

## METRIC COUNTERBORES WITH PARALLEL SHANK AND SOLID PILOT FOR THROUGH-HOLES

High Speed Steel

Fine Grade

Right Hand Cut

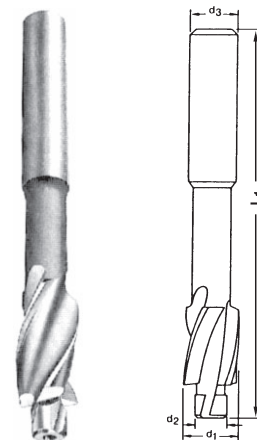
**DIN 373**

Range of Application:

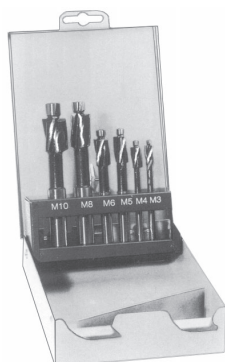
For iron and non-ferrous metals, synthetic material soft and hard. Suitable for working in through holes according to DIN 273. Considerable results in special and serial production.

SPAENAUR No.	For Thread	d <sub>1</sub> mm	d <sub>2</sub> mm	d <sub>3</sub> mm	L <sub>1</sub> mm
874-1012	M3	6.0	3.2	5.0	71
874-1014	M4	8.0	4.3	5.0	71
874-1015	M5	10.0	5.3	8.0	80
874-1000	M6	11.0	6.4	8.0	80
874-1002	M8	15.0	8.4	12.5	100
874-1003	M10	18.0	10.5	12.5	100
874-1016	M12	20.0	13.0	12.5	100

PKG QTY. 1



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**DIN 373**

## METRIC COUNTERBORE SET

Fine Grade

High Speed Steel — Right Hand Cut

**874-1011**

Flat Counterbore set in steel case, 6 sizes.  
For thread M3, M4, M5, M6, M8 and M10.

PKG QTY. 1

**DIN 9****METRIC TAPER PIN REAMERS**

with Parallel Shank and Squared End

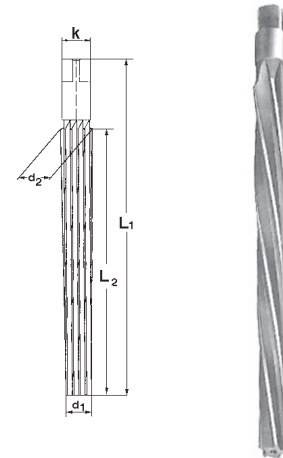
High Speed Steel

Taper 1:50, for Taper Pins DIN 1 and DIN 7978

Right Hand Cut

Range of application: For use in iron and non-ferrous metals, synthetic materials soft and hard.

**DIN 9B** is a **Slow Helix** type suitable for interrupted conical borings. Taper 1:50 fitting to taper pins, slots and crossborings. Reamers demand a higher feed but achieve a better quality of surface. Can be utilized for special and separate production.

**DIN 9B SPIRAL FLUTE**

All dimensions in millimetres

SPAENAUR No.'s. DIN 9B	Nom. Dia.	d <sub>1</sub>	d <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	Square (k) A/F	No. of Flutes
874-1105	4	3.9	5.26	93	68	4.0	5
874-1106	5	4.9	6.36	100	73	5.0	5
874-1107	6	5.9	8.00	135	105	6.3	6
874-1110	8	7.9	10.80	180	145	8.0	6
874-1112	10	9.9	13.4	215	175	10.0	6
874-1113	12	11.8	16.0	255	210	11.2	8

All Reamers - PKG QTY. 1

All dimensions in millimetres

SPAENAUR No.	Nom. Dia.	d <sub>1</sub>	d <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	d <sub>3</sub>	No. of Flutes
874-1053	5	4.90	6.36	122	73	6.30	3
874-1054	6	5.90	8.00	160	105	8.00	3
874-1057	8	7.90	10.80	207	145	10.00	3
874-1059	10	9.90	13.40	245	175	12.50	3

All Reamers - PKG QTY. 1

**DIN 2179****QUICK HELIX TAPER PIN REAMERS**

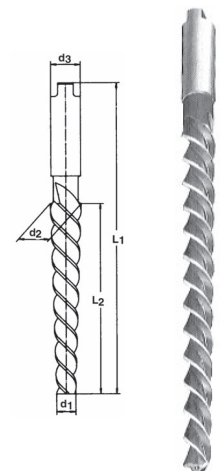
with Parallel Shank

High Speed Steel

Taper 1:50, for Taper Pins DIN 1 and DIN 7978

Right Hand Cut

Range of application: For use in Iron and non-ferrous metals, synthetic materials soft and hard. Quick helix type (45°) suitable for reaming of taper pin borings (1:50). For preprocessing we recommend taper pin drills 1:50. Can be utilized for special and serial production with higher efficiency in chipping.



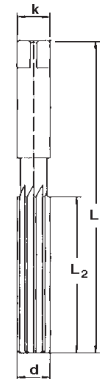
All dimensions in millimetres

DIN 206B SPAENAU No.	No. of Flutes	Nom. Dia. (d)	L <sub>1</sub>	L <sub>2</sub>	Square(k) A/F
874-686	4	2.0	50	25	1.60
874-687	4	2.5	58	29	2.0
874-688	6	3.0	62	31	2.24
874-689	6	3.5	71	35	2.80
874-690	6	4.0	76	38	3.15
874-691	6	5.0	87	44	4.0
874-754	6	5.5	93	47	4.5
874-692	6	6.0	93	47	4.5
874-693	6	7.0	107	54	5.6
874-694	6	8.0	115	58	6.3
874-695	6	9.0	124	62	7.1
874-696	6	10.0	133	66	8.0
874-697	6	11.0	142	71	9.0
874-698	6	12.0	152	76	10.0
874-699	6	13.0	152	76	10.0
874-727	6	14.0	163	81	11.2
874-728	6	15.0	163	81	11.2
874-729	6	16.0	175	87	12.5
874-730	6	17.0	175	87	12.5
874-731	6	18.0	188	93	14.0
874-732	6	19.0	188	93	14.0
874-733	6	20.0	201	100	16.0
874-734	8	22.0	215	107	18.0
874-735	8	24.0	231	115	20.0
874-736	8	25.0	231	115	20.0
874-737	8	26.0	231	115	20.0
874-738	8	28.0	247	124	22.4
874-739	8	30.0	247	124	22.4

**METRIC HAND REAMERS**

with Parallel Shank and Squared End  
High Speed Steel  
Right Hand Cut

**Range of application:** Iron and non-ferrous metals synthetic materials soft and hard.

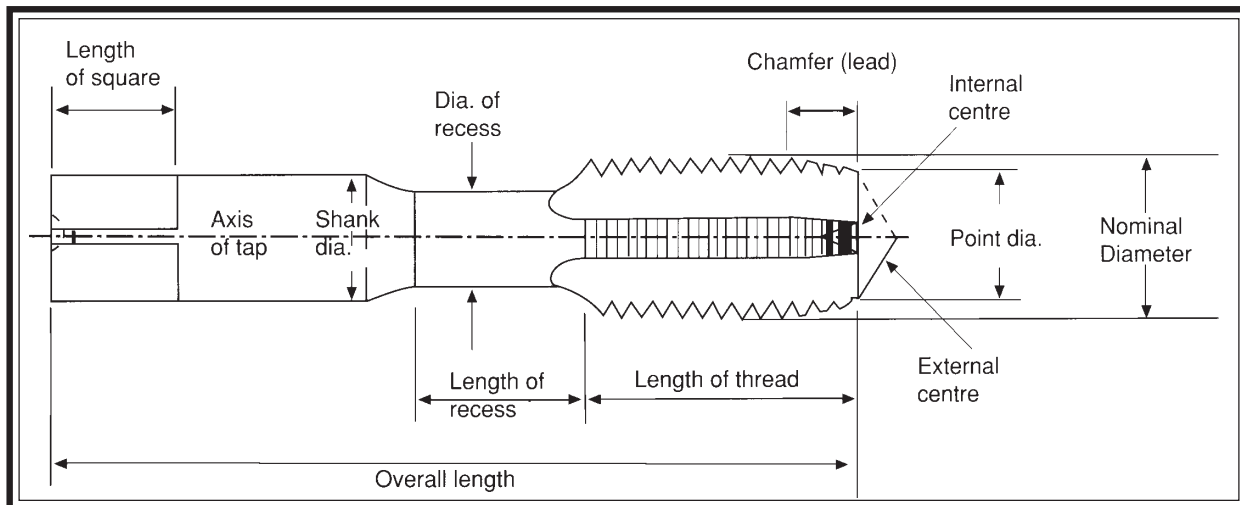


**DIN 206B is a Spiral Flute** slow helix type suitable for interrupted borings slots crossborings etc.

All Reamers - PKG QTY. 1

See Page P53 For Tap Terminology

**Tap Terminology  
Terminologie de taraud**



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## All dimensions in millimetres

SPAENAUR No. DIN 208	Nom. Dia. (d)	L <sub>1</sub>	L <sub>2</sub>	Morse Taper	No. of Flutes
874-841	8	156	33	1	6
874-842	9	162	36	1	6
874-843	10	168	38	1	6
874-844	11	175	41	1	6
874-845	12	182	44	1	6
874-846	13	182	44	1	8
874-847	14	189	47	1	8
874-848	15	204	50	2	8
874-849	16	210	52	2	8
874-850	17	214	54	2	8
874-851	18	219	56	2	8
874-852	19	223	58	2	8
874-853	20	228	60	2	8
874-854	21	232	62	2	8
874-855	22	237	64	2	8
874-856	23	241	66	2	8
874-857	24	268	68	3	8
874-858	25	268	68	3	8
874-859	26	273	70	3	8
874-860	27	277	71	3	8
874-861	28	277	71	3	8
874-862	29	281	73	3	10
874-863	30	281	73	3	10
874-864	31	285	75	3	10
874-865	32	317	77	4	10
874-866	33	317	77	4	10
874-867	34	321	78	4	10
874-868	35	321	78	4	10
874-869	36	325	79	4	10
874-870	38	329	81	4	10
874-871	40	329	81	4	10

## DIN 208

## METRIC MACHINE REAMERS

with Morse Taper  
High Speed Steel  
Right Hand Cut

Range of application: Iron and non-ferrous metals.



DIN 208 is a Spiral Flute,  
slow helix type 8° left hand spiral  
suitable for interrupted borings,  
slots and crossborings etc.

All Reamers - PKG QTY. 1

## SET OF METRIC QUICK ACTION ADJUSTABLE REAMERS

With Parallel Shank and Squared End  
High Speed Steel  
Right Hand Cut

SPAENAUR No.  
**874-1630**

Contains eleven sizes from **8 mm to 31.5 mm.**  
Put up in a wooden box.

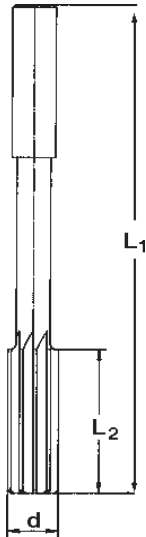
PKG QTY. 1



## METRIC MACHINE REAMERS

## DIN 212

With Parallel Shank High Speed Steel Right Hand Cut  
Range of application: Iron and non-ferrous metals.



**DIN 212**  
are **Straight Flute** types  
suitable for blind and  
through-hole borings. Can  
be utilized for special and  
serial production.



**DIN 212**  
are **Spiral Flute**, slow  
helix types (8° left  
hand) suitable for  
interrupted borings,  
slots, crossborings etc.



## All dimensions in millimetres

SPAENAU No. DIN 212	No. of Flutes	SPAENAU No. DIN 212	No. of Flutes	Nom. Dia. (d)	L <sub>1</sub>	L <sub>2</sub>
874-885	3	874-944	3	1.5	40	8
	6	874-945	4	2.0	49	11
	6	874-946	4	2.5	57	14
874-887	6	874-947	6	3.0	61	15
	6	874-948	6	3.5	70	18
874-889	6	874-949	6	4.0	75	19
	6	874-955	6	4.5	80	21
874-891	6		6	5.0	86	23
874-892	6	874-957	6	6.0	93	26
874-893	6	874-958	6	7.0	109	31
874-894	6	874-959	6	8.0	117	33
874-895	6	874-960	6	9.0	125	36
874-896	6	874-961	6	10.0	133	38
874-897	6	874-962	6	11.0	142	41
874-898	6	874-963	6	12.0	151	44
874-899	8	874-964	6	13.0	151	44
874-927	8	874-965	8	14.0	160	47
874-928	8	874-966	8	15.0	162	50
874-929	8	874-967	8	16.0	170	52
874-930	8	874-968	8	17.0	175	54
	8	874-969	8	18.0	182	56
	8	874-970	8	19.0	189	58
	8	874-971	8	20.0	195	60

All Reamers - PKG QTY. 1

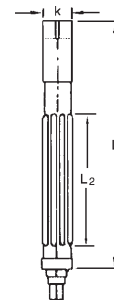
**METRIC QUICK ACTION ADJUSTABLE REAMERS**

with Parallel Shank and Squared End

High Speed Steel

Right Hand Cut

Range of application: Especially suitable for repair work.

(Reamer shown  
in protective  
plastic coating)

All dimensions in millimetres

SPAENAUR No.	ADJUSTING Range	L <sub>1</sub>	L <sub>2</sub>	Square (k) A/F	No. of Flutes	SPAENAUR No. Set of Replacement Blades	No. in Set	SPAENAUR No. Adjusting Nut
874-592	6.4 - 7.2	110	32	3.15	4	874-984	(4)	874-1121
874-593	7.2 - 8	110	32	3.55	4	874-985	(4)	874-1122
874-594	8 - 9	115	34	4.0	5	874-986	(5)	874-1123
874-595	9 - 10	115	34	4.5	5	874-987	(5)	874-1124
874-596	10 - 11	115	34	4.5	5	874-988	(5)	874-1125
874-597	11 - 12	125	35	5	5	874-989	(5)	874-1126
874-598	12 - 13.5	135	41	5.6	5	874-990	(5)	874-1127
874-599	13.5 - 15.5	146	50	6.3	5	874-991	(5)	874-1128
874-628	15.5 - 18	166	60	8	5	874-992	(5)	874-1129
874-629	18 - 21	178	65	10	5	874-993	(5)	874-1130
874-510	21 - 24	195	76	11.2	5	874-994	(5)	874-1131
874-511	24 - 27.5	218	82	12.5	5	874-995	(5)	874-1132
874-512	27.5 - 31.5	245	86	14	5	874-996	(5)	874-1133
874-513	31.5 - 37	280	98	18	6	874-997	(6)	874-1134
874-515	45 - 55	370	118	28	6	874-999	(6)	874-1136

All Reamers - PKG QTY. 1

**SET OF METRIC QUICK ACTION ADJUSTABLE REAMERS**

With Parallel Shank and Squared End

High Speed Steel

Right Hand Cut

SPAENAUR No.  
**874-1630**

Contains eleven sizes  
from **8 mm to 31.5 mm.**

Put up in a wooden box.

PKG QTY. 1





### HISTORY

The FRENCH ENGINEERING WORKS (PTY) LIMITED was established in 1918 to manufacture rock drill spares for the mining industry.

The Swiss origin and technical background of the owner, Herman Moser, instilled a pride in quality and precision which persists to the present day.

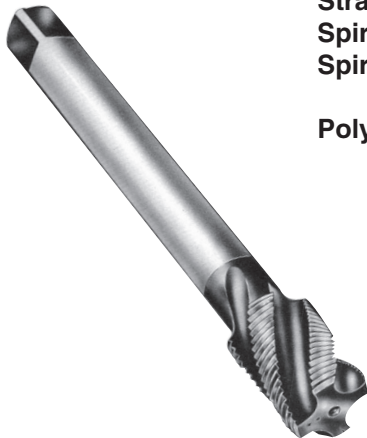
In 1940 taps and threading tools became part of the product range and by 1954, the company was specializing in the manufacture of these tools.

Over eighty years of tap manufacturing experience and development of extensive distribution networks have enabled customers in over 40 countries to benefit from a wide range of tools offered. Modern production facilities and ongoing product development, ensure that the reputation earned over three-quarters of a century will continue to grow.

### STOCK RANGE

\* FEW manufactures a comprehensive range of Threading Tools in various norms laid down by **ISO 529/2284, JIS B4430 and DIN 371/376/374/5156.**

\* Taps are produced in various HIGH SPEED STEELS for both HAND and MACHINE tapping. FEW is one of the first companies in the world to manufacture taps from HSSE-V or M9V.



- Straight Flute** – Standard and Serial sets for Hand Tapping.
- Straight Flute** – Machine Taps for Through or Blind Holes.
- Spiral Point** – Machine Taps for Through Holes.
- Spiral Flute** – Machine Taps for Blind Holes, available in Slow Standard and Fast Helixes.
- Polygon** – A Fluteless Tap for rolling a Threadform in Ductile materials.



FEW also manufactures Long Shank Taps, Pipe Taps, Nut Taps, etc.

Taps in the FEW Standard Range are available in:

- Metric** – M (metric Course) MF (metric Fine).
- American** – UNC, UNF, NC, NF, UNEF, UNS.
- Whitworth** – BSW, BSF, BA, BSC, BSB.
- Pipe** – G (BSP Mechanical), Rp (BSP Leakproof), Rc (Pipe Conical), NPS, NPSF (Dryseal), NPT, NPTF (Dryseal), NGT, API.

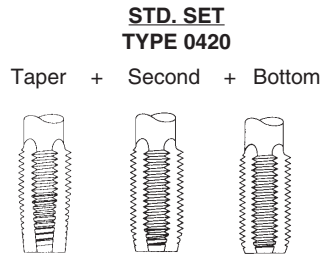
### DISTRIBUTION NETWORK

FEW has set up a distribution network of stocking distributors in selected key areas around the world. These distributors carry a broad range of products and therefore ensure speedy service to all parts of the world.

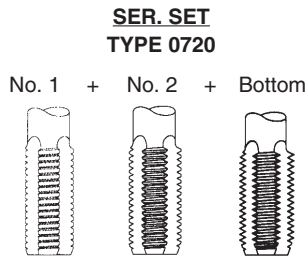


products are distributed in Canada by **SPAENAUR INC.**

### HSS STANDARD STOCK RANGE



The Standard Set generally comprises of taper, second and bottom taps which can also be ordered and used individually. These taps are used for all normal hand and machine tapping. Fine threads - 2 per set (taper + bottom) except where stated. Sets of 3 available by special request.



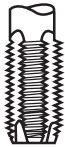
Serial Taps are also known as progressive taps and are recommended for precision hand tapping long through holes and blind holes in tough materials. Serial taps are sold only in sets, and are not suitable for machine use. Fine threads - 2 per set except where stated.

**STD. S.P.  
TYPE 1221**



Spiral Point Taps are also known as Gun Nose and are used for machine tapping of deep and normal through holes. The black "steam temper" surface treatment facilitates the tapping of steels which are prone to cold welding.

**STD. B.F. S.P.  
TYPE 1220**



Bright finish, Spiral Point Taps have no surface treatment and are normally used for the tapping of through holes in non-ferrous materials.

**TiN S.P.  
TYPE 1223**



Titanium Nitride Spiral Point Taps are used for through holes in abrasive materials, or where higher tapping speeds and longer tool life are required.

**NI BOTT  
TYPE 0322**



These Bottom Taps have been nitrided for maximum abrasion resistance. They are mainly used in the tapping of short chipping cast iron and other abrasive materials.

**TiN BOT  
TYPE 0323**



Developed for use in production application where abrasive short chipping materials such as cast iron are being tapped. Higher tapping speeds reduce cycle times whilst abrasion resistance is increased, thus improving production rates.

**STD. S.F.  
TYPE 4221**



Spiral Flute Taps are used in blind holes where chip disposal becomes a problem. The black "steam temper" surface treatment facilitates the tapping of steels which are prone to cold welding.

**STD. B.F. S.F.  
TYPE 4220**



Bright finish, Spiral Flute Taps have no surface treatment and are normally used for the tapping of blind holes in non-ferrous metals.

**TiN S.F.  
TYPE 4223**



Titanium Nitride Spiral Flute Taps are used for blind holes in abrasive materials, or where higher tapping speeds and longer tool life are required.

**STD. P. POLYGON  
TYPE 6220**



These are Fluteless Taps which are primarily used for the chipless threading of through holes in aluminum, brass, copper and other ductile materials. Tapping drill size is very important.

**B + O/G POLYGON  
TYPE 7220**



These Polygon Taps have oil grooves to facilitate lubrication in the forming of threads in deep or blind holes in ductile materials.

**CLOSE  
FIT  
TAPS**

Generally available in straight flute, SP or SF form, these tools are used when tapping to tighter tolerances (e.g. **Metric** 4H UNIFIED 1B or WHITWORTH Close Fit). Because these taps have a reduced effective diameter, they may also be used where oversizing is a problem.

**FREE  
FIT  
TAPS**

Generally available in straight flute, SP or SF form, these taps are used when looser threads are required. (e.g. **Metric** 7H / 6G, UNIFIED 3B or WHITWORTH Free Fit.). Because these taps have a larger wear allowance, they are also occasionally used where maximum tool life is required in abrasive applications.

**L.H.  
TAPS**

Left Hand taps are stocked in most popular sizes and are sold in sets up to **12 mm** or 1/2". Larger diameters are available in single taps.



**SPECIAL GEOMETRY MACHINE TAPS**

**STRAIGHT FLUTE MACHINE TAPS**

**STR. FL. BRASS (Din Form C)**

Straight Flute Tap with a modified rake angle and 15° lead suitable for threading short chipping brass.



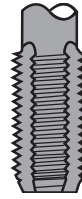
**STR. FL. NITRIDE (Din Form C)**

Straight Flute Tap with modified rake angle 15° lead and nitrided surface treatment for cast iron and other abrasive short chipping materials.



**STR. FL. TIN (Din Form C)**

Straight Flute Tap with modified rake angle, 15° lead and TiN coating suitable for cast iron and other abrasive short chipping materials.



**SPIRAL POINT TAPS (DIN FORM B) - SPECIAL GEOMETRY**

**TYPE 1222 HR HR SP**

The High Resistance Spiral Point has been designed with special geometry to cut threads in normal and deep through holes in high resistance steels of over **1000 N/mm<sup>2</sup>**.



**TYPE 1221 IN STAINLESS STEEL SP**

The Stainless Steel Spiral Point Tap as been designed with special geometry to cut threads in normal and deep through holes in tough stainless steels and high alloyed tool steels which have a tendency to "close" after threading.



**TYPE 1220 AL ALU SP**

The Aluminum Spiral Point has been designed with special geometry and wide flutes for tapping through soft holes in ductile aluminums, light metals and plastics with long chips.



**TYPE 1220 AS AL-SI SP**

The geometry of this Spiral Point is suitable for threading through holes in tough aluminum alloys with silicon content greater than 10%, and non-ferrous metals which have a tendency to "close" after threading.



**SLOW SPIRAL FLUTE TAPS (~15°)**

**TYPE 3220 BF SF 15°**

Bright Finish 15° Spiral Flute Taps are suitable for tapping blind holes in tougher non-ferrous materials with medium to long chips, or steels up to **1000 N/mm<sup>2</sup>** where cold welding does not pose a problem.



**TYPE 5220 AS AL-SI SF**

Steam Tempered 15° Spiral Flute Taps are suitable for tapping blind holes in tough steels up to **1000 N/mm<sup>2</sup>** where cold welding occurs. Supplied as standard where surface treatment is not specified.



**TYPE 3223 TIN SF 15°**

Titanium Nitrided 15° Spiral Flute Taps are suitable for tapping blind holes in tough, abrasive materials where higher tapping speeds or longer tool life are required.



**FAST SPIRAL FLUTE TAPS (~40°) - SPECIAL GEOMETRY**

**TYPE 5220 AL ALU SF**

The Aluminum Spiral Flute has high helix with special geometry and wide flutes adapted for tapping blind holes in soft ductile aluminums and plastics with long chips.



**TYPE 5220 AS AL-SI SF**

The special geometry of this High Helix Special Flute Tap is adapted for threading blind holes in tough aluminum alloys with silicon content greater than 10% and non-ferrous metals which have a tendency to "close" after threading.



**TYPE 5222 HR HR SF**

The High Resistance Spiral Flute Tap has high helix and special geometry adapted to cut threads in blind holes in high resistance steels of over **1000 N/mm<sup>2</sup>**.



**TYPE 5221 IN STAINLESS STEEL SF**

The Stainless Steel Spiral Flute Tap has high helix and special geometry adapted to cut threads in blind holes in tough stainless steels and steels which have a tendency to "close" after threading.

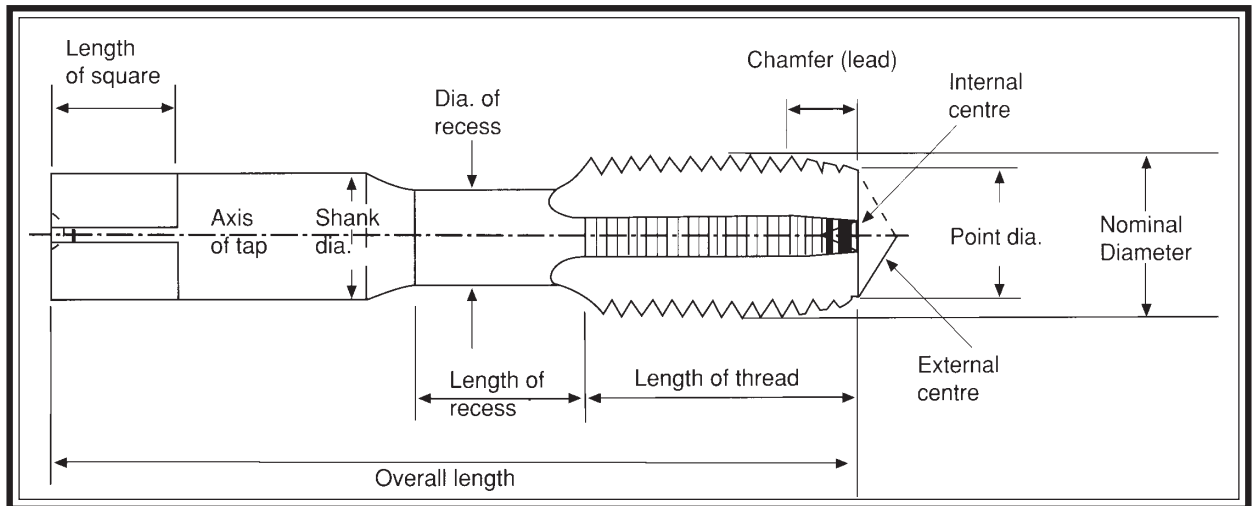


P

CATALOG 14

SPAENAUR

## Tap Terminology Terminologie de taraud



### SURFACE TREATMENT

When choosing lubricant and type of tap to suit a particular application, the life of the tap can be further prolonged by selecting the correct surface treatment.

#### 1. BRIGHT FINISH (BF) - SPAENAUR carries Bright Finish in stock.

This is a ground finish without any further surface treatment. Used mainly for non-ferrous metals or steels which do not cold weld.

#### 2. STEAM TEMPERED (ST)

This is an oxide treatment which is recognizable by its deep blue/black finish. This treatment produces tiny pitmarks on the surface of the tap, too small to be seen with the naked eye. These indentations help to capture and retain the lubricant, thus reducing torque and discouraging cold welding. Used in a wide variety of applications where build-up can cause problems, e.g. mild steel and all highly alloyed ferrous materials, including stainless steels. Machine taps are supplied with a Steam Tempered finish, unless an alternative is specified.

*The following taps are available upon request, price on application:*

#### 3. NITRIDED (NI)

This treatment hardens the surface of the tool and gives it a mottled grey/black finish. This extra skin hardness gives better tool life in the more abrasive shorter-chipping materials such as cast iron and certain types of bronze, high Si aluminum alloys and plastic. This treatment can cause brittleness and should be used with care.

#### 4. DOUBLE TREATMENT (DT)

This combination of Steam Tempering and Nitriding is used mainly for nut taps and taps for special application where the qualities of abrasion resistance and lubrication adherence are most beneficial.

#### 5. TITANIUM CARBIDE NITRIDE (TIN)

A Physical Vapour Deposition (PVD) process imparting a shiny golden finish to the tool surface. Features are high surfaces hardness (equivalent to RC80-85) with good abrasion resistance allowing for prolonged tool life. A low coefficient of friction results in reduced torque, temperature and cold welding, thus allowing for greater tool speeds.

#### 6. TITANIUM CARBIDE NITRIDE (TICN)

Another PVD process imparting a harder surface than TIN. Suitable for abrasive applications and for high tensile materials.

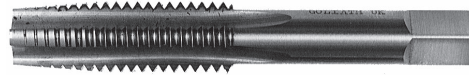
# TAPS

**HIGH SPEED STEEL  
GROUND THREAD  
Right Hand Threads**

**INCH Sizes  
U.N.C. (Coarse)  
and  
U.N.F. (Fine)**

TAPS ARE AVAILABLE SINGLE OR IN SETS:

No. 1  
STARTING TAP



No. 2  
MIDDLE TAP

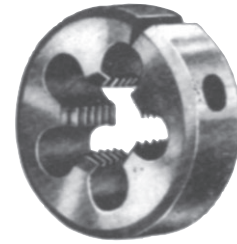


No. 3  
FINISHING TAP



Note: Taps No. 1, No. 2, & No. 3 are commonly referred to as TAPER, PLUG, & BOTTOMING TAPS.

■Shown are ANSI 94.9 dimensions for Square End. May also be supplied to ISO 529 at our option.



# DIES

**HIGH SPEED  
STEEL**

Dies split or solid, our option.

## TAPS and TAP SETS

(Dia.) SIZE	THREADS per inch		DRILL		#1 Starting Tap	#2 Middle Tap	#3 Finishing Tap	Set of 3 Taps	Tap Square End A/F	DIES	Die O.D.
	U.N.C.	U.N.F.	Size	Dec.	SPAENAUR No.	SPAENAUR No.	SPAENAUR No.	SPAENAUR No.		SPAENAUR No.	
0		80	3/64	.047	874-100	874-200	874-300	874-400	.110	878-100	13/16"
1	64		#53	.060	874-101	874-201	874-301	874-401		878-101	
1		72	#53	.060	874-102	874-202	874-302	874-402		878-102	
2	56		#50	.070	874-103	874-203	874-303	874-403		878-103	
2		64	#50	.070	874-104	874-204	874-304	874-404		878-104	
3	48		#47	.079	874-105	874-205	874-305	874-405		878-105	
3		56	#46	.081	874-106	874-206	874-306	874-406		878-106	
4	40		#44	.086	874-107	874-207	874-307	874-407		878-107	
4		48	#43	.089	874-108	874-208	874-308	874-408		878-108	
4	36	(N.S.)			874-109	874-209	874-309	874-409		878-K17-1W	
5	40		#40	.098	874-110	874-210	874-310	874-410		878-110	
5		44	#38	.102	874-111	874-T18-1W	874-311	874-411		878-111	
6	32		#37	.104	874-112	874-212	874-312	874-412	878-112		
6		40	#34	.111	874-113	874-213	874-313	874-413			
8	32		#29	.136	874-114	874-214	874-314	874-414	.131	878-114	1"
8		36	#29	.136	874-115	874-215	874-315	874-415		878-115	
10	24		#25	.150	874-116	874-216	874-316	874-416	.152	878-116	
10		32	#21	.159	874-117	874-217	874-317	874-417		878-117	
12	24		#16	.177	874-T07-1M	874-218	874-318	874-T05-1K	.165	878-118	
12		28	#14	.182	874-119	874-219	874-319	874-419		878-119	
1/4"	20		#7	.201	874-120	874-220	874-320	874-420	.191	878-120	
1/4"		28	#3	.213	874-121	874-T13-1Y	874-321	874-421		878-121	
5/16"	18		F	.257	874-122	874-222	874-322	874-422	.238	878-K03-1T	
5/16"		24	I	.272	874-123	874-223	874-323	874-423		878-123	
3/8"	16		5/16	.313	874-T01-1Y	874-224	874-324	874-424	.286	878-K15-1T	
3/8"		24	Q	.332	874-125	874-225	874-325	874-425		878-125	
7/16"	14		23/64	.359	874-126	874-226	874-326	874-426	.242	878-126	1-5/16"
7/16"		20	25/64	.391	874-127	874-227	874-327	874-427		878-127	
1/2"	13		27/64	.422	874-128	874-228	874-328	874-428	.275	878-K09-2P	
1/2"		20	29/64	.453	874-129	874-229	874-329	874-429		878-K07-2X	
9/16"	12		31/64	.484	874-130	874-230	874-330	874-430	.322	878-130	1-1/2"
9/16"		18	1/2	.500	874-131	874-231	874-331	874-431		878-131	
5/8"	11		17/32	.531	874-132	874-232	874-332	874-432	.360	878-132	
5/8"		18	9/16	.563	874-133	874-233	874-333	874-433		878-K06-1M	
11/16"	11		19/32	.594	874-134	874-234	874-334	874-434	.406		
11/16"		16	5/8	.625	874-135	874-235	874-335	874-435			
Continued on next page...					PKG QTY. 1			PKG QTY. 1 1 Set		PKG QTY. 1	

See page P56 for LEFT HAND THREAD SIZES.  
For British Taps and Dies, see page B255

▲1-1/2" DIE O.D.



# TAPS

**HIGH SPEED STEEL  
GROUND THREAD**

**Right Hand Threads**

**INCH Sizes  
U.N.C. (Coarse)  
and  
U.N.F. (Fine)**

...continued from previous page.

TAPS ARE AVAILABLE SINGLE OR IN SETS:

No. 1  
STARTING TAP



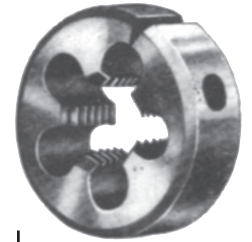
No. 2  
MIDDLE TAP



No. 3  
FINISHING TAP



Note: Taps No. 1, No. 2, & No. 3 are commonly referred to as TAPER, PLUG, & BOTTOMING TAPS.



**DIES**  
**HIGH SPEED  
STEEL**

Dies split or solid, our option.

## TAPS and TAP SETS

(Dia.) SIZE	THREADS per inch		DRILL		#1	#2	#3	Set of 3	Tap	DIES	Die O.D
	U.N.C.	U.N.F.	Size	Dec.	Starting Tap SPAENAU No.	Middle Tap SPAENAU No.	Finishing Tap SPAENAU No.	Taps SPAENAU No.	Square End A/F		
3/4"	10		21/32	.656	874-136	874-236	874-336	874-436	.442	878-136	2"
3/4"		16	11/16	.688	874-137	874-237	874-337	874-437	.523	878-137	
7/8"	9		49/64	.766	874-138	874-238	874-338	874-438		.600	
7/8"		14	13/16	.813	874-139	874-239	874-339	874-439	.766		
1"	8		7/8	.875	874-140	874-240	874-340	874-440		.831	878-140
1"		12	29/32	.906	874-141	874-241	874-341	874-441			.925
1"		14	15/16	.938	874-142	874-242	874-342	874-442	1.072		
1-1/16"		12	—	—	—	—	—	—		—	878-200
1-1/8"	7		63/64	.984	874-143	874-243	874-343	874-443	.672		
1-1/8"		12	1-3/64	1.047	874-144	874-244	874-344	874-444	.766		
1-1/4"	7		1-3/32	1.094	874-145	874-245	874-345	874-445		.831	
1-1/4"		12	1-11/64	1.172	874-146	874-246	874-346	874-446	.925		
1-3/8"	6		1-13/64	1.203	874-147	874-247	874-347	874-447		1.072	
1-3/8"		12	1-19/64	1.297	874-148	874-248	874-348	874-448	1.233		
1-1/2"	6		1-21/64	1.328	874-149	874-249	874-349	874-449			
1-1/2"		12	1-27/64	1.422	874-150	874-250	874-350	874-450			
1-3/4"	5		1-35/64	1.547	874-151	874-251	874-351	874-451			
2"	4-1/2"		1-25/32	1.781	874-152	874-252	874-352	874-452			
					INDIVIDUAL PKG QTY. 1			SETS PKG QTY. 1		PKG QTY 1	



## Inch Size - High Speed TAP SETS (Right Hand)

Strong case protects cutting edges of taps and against dirt and corrosion.  
Keeps the taps together so they are there when you need them!

### U.N.C. - Coarse Thread

Spaenaur No. 874-480 8-32 to 1/2"-13  
Spaenaur No. 874-T08-1X #6 to 1/2"

### U.N.F. - Fine Thread

Spaenaur No. 874-481 8-36 to 1/2"-20  
Spaenaur No. 874-T09-1A #6 to 1/2"

### SETS - PKG QTY. 1

Spaenaur No. 874-480 & 874-481 have wooden cases.  
These sets contain Starting, Middle & Finishing Taps  
for each of 7 sizes in set.

Spaenaur No. 874-T08-1X & 874-T09-1A  
have metal cases. These sets contain  
Starting, Middle & Finishing  
Taps for each of 6 sizes in set.



## MINIATURE TAPS

ASME B18.6.3



PKG QTY. 1

## PRECISION-GROUND TAPS High Speed Steel

Spaenaur No. 875-251 Size 00-90

Spaenaur No. 875-253 Size 000-120

See page B13 for Miniature  
Screw Sizes 00-90 and 000-120.

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

**P55**

# SHORT HAND & MACHINE TAPS LEFT HAND THREADS

HIGH SPEED STEEL  
GROUND THREAD

INCH Sizes  
**U.N.C. (Coarse)**  
and  
**U.N.F. (Fine)**

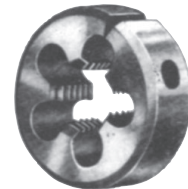
No. 1  
STARTING TAP  
(Taper)



No. 2  
MIDDLE TAP  
(Plug)



No. 3  
FINISHING TAP  
(Bottoming)



**DIES**  
HIGH SPEED  
STEEL

Dies split or solid,  
our option.

Taps are available singly or in sets of 2 or 3.

(Dia.) SIZE	THREADS per inch		DRILL		SPAENAUR No's					Tap Square End A/F (approx.)	DIES Left Hand Threads	
	U.N.C.	U.N.F.	Size or Number	Dec.	#1 Starting Tap (Taper)	#2 Middle Tap (Plug)	#3 Finishing Tap (Bottom)	Set of 2 (Taper and Bottoming)	Set of 3 Taps		SPAENAUR No.	Die O.D
1/4"	20		#7	.201"	-	-	-	-	874-1703	.197"	878-207	1"
1/4"		28	#3	.213"	-	874-1749	-	874-1713	-	.197"	878-202	1"
5/16"	18		F	.257"	-	-	-	-	874-1704	.248"	878-208	1"
5/16"		24	I	.272"	-	874-1750	874-1666	874-1714	-	.248"	878-201	1"
3/8"	16		5/16"	.313"	-	-	-	-	874-1705	.315"	878-209	1"
3/8"		24	Q	.332"	-	-	-	874-1715	-	.315"	878-K16-1K	1"
7/16"	14		23/64"	.359"	-	-	-	-	874-1706	.248"	-	-
7/16"		20	25/64"	.391"	-	-	-	874-1716	-	.248"	-	-
1/2"	13		27/64"	.422"	-	-	-	-	874-1707	.280"	878-210	1-1/2"
1/2"		20	29/64"	.453"	-	-	-	874-1717	-	.280"	878-204	1-1/2"
9/16"	12		31/64"	.484"	874-1723	874-1724	874-1725	-	874-1708	.354"	-	-
9/16"		18	1/2"	.500"	-	874-1738	874-1739	874-1718	-	.354"	-	-
5/8"	11		17/32"	.531"	874-1726	874-1727	874-1728	-	874-1709	.394"	878-211	1-1/2"
5/8"		18	9/16"	.563"	-	874-1740	874-1741	874-1719	-	.394"	878-205	1-1/2"
3/4"	10		21/32"	.656"	874-1729	874-1730	874-1731	-	874-1710	.441"	878-212	2"
3/4"		16	11/16"	.688"	-	874-1742	874-1743	874-1720	-	.441"	878-206	2"
7/8"	9		49/64"	.766"	874-1732	874-1733	874-1734	-	874-1711	.492"	-	-
7/8"		14	13/16"	.813"	-	874-1744	874-1745	874-1721	-	.492"	-	-
1"	8		7/8"	.875"	874-1735	874-1736	874-1737	-	874-1712	.551"	-	-
1"		12	29/32"	.906"	-	874-1746	874-1747	874-1722	-	.551"	-	-
					PKG QTY. 1 Only			PKG QTY. 1 Set		PKG QTY. 1		

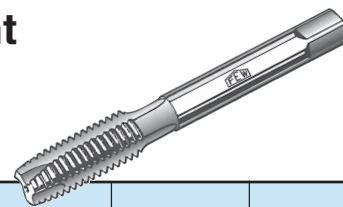
## SHORT MACHINE TAPS - Spiral Point

High Speed Steel - Steam Tempered

U.N.C. (Coarse) and U.N.F. (Fine) INCH THREADS

RIGHT HAND THREADS

(All other dimensions in millimetres.)



(Dia.) SIZE Inch	U.N.C. Coarse		U.N.F. Fine		Normal Dia. mm	Shank Dia. mm	Thread Lgth. (max.) mm	Overall Length mm	Square A/F mm
	Threads Per Inch	SPAENAUR No.	Threads Per Inch	SPAENAUR No.					
4	40	874-465	-	-	2.845	3.15	11	48	2.5
5	40	874-466	-	-	3.175	3.15	11	48	2.5
6	32	874-467	40	874-474	3.505	3.55	13	50	2.8
8	32	874-468	36	874-475	4.166	4.5	13	53	3.55
10	24	874-469	32	874-476	4.826	5.0	16	58	4.0
12	24	874-470	28	874-477	5.486	5.6	17	62	4.5
1/4"	20	874-471	28	874-478	6.350	6.3	19	66	5.0
5/16"	18	874-472	24	874-479	7.938	8.0	22	72	6.3
3/8"	16	874-473	24	874-482	9.525	10.0	24	80	8.0

All Taps - PKG QTY. 1

**DIE STOCKS FOR ROUND SPLIT DIES**

Will fit **Metric** and Inch Dies  
as featured on pages P54 - P56 & P66



PKG QTY. 1

SPAENAUR No.	Approx. LENGTH		O.D. OF DIES
	Inch	mm	
877-022	7-1/8"	180 mm	13/16"
877-023	8-1/2"	216 mm	1"
877-024	10"	254 mm	1-5/16"
877-C11-1Y	12-1/4"	311 mm	1-1/2"
877-026	15"	381 mm	2"

**T-TYPE TAP WRENCHES**

877-C14-1T  
877-065

SPAENAUR No.	Approx. LENGTH		For Thread Dia. CAPACITY (IN INCHES)
	Inch	mm	
877-C14-1T	10"	250 mm	1/8" - 1/4"
877-065	11-3/4"	300 mm	7/32" - 1/2"



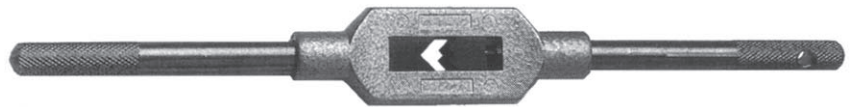
Polished chrome and black finish.

**LONG SHANK RATCHET "T" HANDLE TAP HOLDER**

With 2-jaw knurled chuck & slip handle.  
Long shank permits tapping in difficult places often encountered in machine repair work.

PKG QTY. 1

**STRAIGHT TAP WRENCHES**



SPAENAUR No.	RANGE CAPACITY		
	Inch	Metric	Pipe
877-C16-1W	1/16" - 1/4"	M1 - M8	—
877-C20-1X	5/32" - 1/2"	M4 - M12	1/8" - 1/4"
877-C21-1A	1/4" - 3/4"	M6 - M20	1/8" - 3/8"
877-C22-1P	7/16" - 1"	M11 - M27	1/8" - 1/2"
877-C23-1Y	3/4" - 1-1/2"	M18 - M42	3/8" - 1-1/4"
877-C24-1C	1" - 2-1/8"	M25 - M50	3/4" - 2"
877-C25-1N	1-1/4" - 2-1/2"	M32 - M63	1" - 2-1/2"

PKG QTY. 1

**INCH and METRIC THREADING TOOL KITS**

High Speed Steel supplied in strong wooden cases.

Each set contains: 1 set of 2 taps per size (taper and bottom) and 1 corresponding die and appropriate tap wrench

SPAENAUR No.	Thread Form	Size	Tap Wrenches	Die Stocks
878-193	UNC	1/4, 5/16, 3/8, 7/16, 1/2"	No. 2	1", 1-5/16"
878-194	UNF	1/4, 5/16, 3/8, 7/16, 1/2"	No. 2	1", 1-5/16"
878-K14-1N	UNC	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4"	No. 2, 3	1", 1-5/16", 2"
878-196	UNF	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4"	No. 2, 3	1", 1-5/16", 2"
878-197	UNC	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 9/16, 3/4, 7/8, 1"	No. 2, 4	1-1/2", 2"
878-198	UNF	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1"	No. 2, 4	1", 1-5/16", 2"
878-672	MM Coarse	M2, M2.5, M3, M3.5, M4, M5, M6	No. 1	13/16"
878-673	MM Coarse	M6, M7, M8, M9, M10, M11, M12	No. 2	1", 1-5/16"
878-674	MM Coarse	M6, M8, M10, M12, M14, M16, M18, M20, M22, M24	No. 2, 4	1", 1-5/16", 2"



PKG QTY. 1

CATALOG 14.09 SPAENAUR

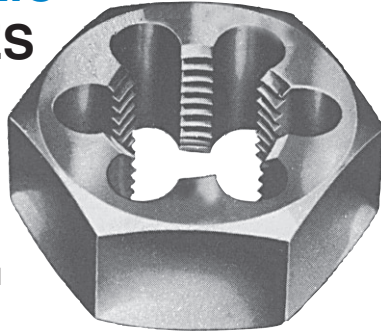
**METRIC  
SIZES**

**HIGH SPEED STEEL ISO METRIC HEXAGON RETHREADING DIES  
STANDARD PITCH - RIGHT HAND**

FOR REPAIRING DAMAGED OR RUSTY THREADS

Metric  
COARSE  
Thread

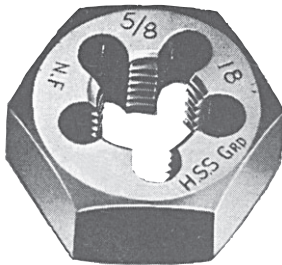
PKG QTY. 1



SPAENAUR No.	METRIC SIZE and PITCH	SPAENAUR No.	METRIC SIZE and PITCH
878-640	M6 x 1.0	878-647	M14 x 2.0
878-641	M7 x 1.0	878-648	M16 x 2.0
878-642	M8 x 1.25	878-649	M18 x 2.5
878-643	M9 x 1.25	878-650	M20 x 2.5
878-K12-1Y	M10 x 1.5	878-651	M22 x 2.5
878-645	M11 x 1.5	878-652	M24 x 3.0
878-646	M12 x 1.75		

**High Speed Steel - HEXAGON RETHREADING DIES  
U.N.C. or U.N.F. - Right Hand**

**INCH  
SIZES**



FOR REPAIRING  
DAMAGED OR  
RUSTY THREADS

PKG QTY. 1

U.N.C. COARSE		U.N.F. FINE	
SPAENAUR No.	SIZE	SPAENAUR No.	SIZE
878-160	1/4"-20	878-175	1/4"-28
878-161	5/16"-18	878-176	5/16"-24
878-162	3/8"-16	878-177	3/8"-24
878-163	7/16"-14	878-178	7/16"-20
878-164	1/2"-13	878-179	1/2"-20
878-165	9/16"-12	878-180	9/16"-18
878-166	5/8"-11	878-181	5/8"-18
878-167	11/16"-11(NS)	878-182	11/16"-16(NS)
878-168	3/4"-10	878-183	3/4"-16
878-169	7/8"-9	878-184	7/8"-14
878-170	1"-8	878-185	1"-12
878-172	1-1/4"-7	878-190	1"-14(NS)
878-174	1-1/2"-6	878-K08-1A	1-1/8"-12
878-199	2"-4-1/2	878-187	1-1/4"-12
		878-188	1-3/8"-12
		878-189	1-1/2"-12

**Inch and Metric  
HEXAGON RETHREADING DIES  
in wooden cased sets**

High Speed Steel  
Rethreading Dies



SPAENAUR No. <b>878-671</b> Metric Coarse Thread 10 Dies	SPAENAUR No. <b>878-191</b> Inch - U.N.C. Coarse Thread 10 Dies	SPAENAUR No. <b>878-192</b> Inch - U.N.F. Fine Thread 11 Dies
M6 x 1 mm	1/4"-20	1/4"-28
M8 x 1.25 mm	5/16"-18	5/16"-24
M10 x 1.5 mm	3/8"-16	3/8"-24
M12 x 1.75 mm	7/16"-14	7/16"-20
M14 x 2 mm	1/2"-13	1/2"-20
M16 x 2 mm	9/16"-12	9/16"-18
M18 x 2.5 mm	5/8"-11	5/8"-18
M20 x 2.5 mm	3/4"-10	3/4"-16
M22 x 2.5 mm	7/8"-9	7/8"-14
M24 x 3 mm	1"-8	1"-12
		1"-14NS

PKG QTY. 1

## STRAIGHT FLUTE METRIC TAPS

**ISO 529**

**METRIC COARSE THREAD  
RIGHT HAND  
HIGH SPEED STEEL  
GROUND THREAD**

Straight Flute Taps are available single or in sets.



No. 1 STARTING TAP

No. 2 MIDDLE TAP

No. 3 FINISHING TAP



Spiral Flute



Spiral Point

Note: Taps No. 1, No. 2 & No. 3  
are commonly referred to as  
TAPER, PLUG & BOTTOMING TAPS.

Nominal DIA. mm	PITCH mm	Tap Square End A/F mm	Recommended DRILL mm	#1 Starting Tap SPAENAU No.	#2 Middle Tap SPAENAU No.	#3 Finishing Tap SPAENAU No.	Set of 3 Taps SPAENAU No.	Spiral Point SPAENAU No.	Spiral Flute SPAENAU No.
M1	0.25	2	0.75	874-1193	874-1207	874-1220	874-1179	—	—
M1.1	0.25	2	0.85	—	—	874-1221	874-1180	—	—
M1.2	0.25	2	0.95	874-1195	874-1209	874-1222	874-1181	—	—
M1.4	0.3	2	1.1	874-1196	874-1210	874-1223	874-1182	—	—
M1.5	0.35	2	1.1	874-1233	874-1243	874-1241	874-1177	—	—
M1.6	0.35	2	1.25	874-600	874-700	874-800	874-900	—	—
M1.7	0.35	2	1.35	874-601	874-701	874-801	874-901	—	—
M1.8	0.35	2	1.45	—	874-1211	—	—	—	—
M2	0.4	2	1.6	874-602	874-702	874-802	874-902	874-T17-1K	—
M2.2	0.45	2.24	1.75	874-1198	874-1212	874-1225	874-1184	—	—
M2.3	0.4	2.24	1.9	874-603	874-703	874-803	874-903	—	—
M2.5	0.45	2.24	2.05	874-T15-1N	874-704	874-804	874-T03-1N	874-1486	—
M2.6	0.45	2.24	2.15	874-605	874-705	874-805	874-905	—	—
M3	0.5	2.5	2.5	874-T22-1X	874-706	874-806	874-T04-1T	874-1487	874-1507
M3.5	0.6	2.8	2.9	874-607	874-707	874-807	874-907	874-1488	—
M4	0.7	3.15	3.3	874-608	874-708	874-808	874-908	874-1489	874-1508
M4	0.75	3.15	3.25	—	874-1247	—	—	—	—
M4.5	0.75	3.55	3.75	874-609	874-709	874-809	874-909	874-1490	—
M5	0.8	4	4.2	874-610	874-710	874-810	874-910	874-1491	874-1509
M5.5	0.9	4.5	4.6	—	—	874-1246	874-1178	—	—
M6	1.0	5	5	874-611	874-711	874-811	874-911	874-1492	874-1510
M6.3	1.0	—	5.3	874-612	874-712	874-812	874-912	—	—
M7	1.0	5.6	6	874-613	874-T10-1X	874-813	874-913	874-1493	—
M8	1.25	6.3	6.75	874-614	874-T24-1P	874-814	874-914	874-1494	874-1511
M9	1.25	7.1	7.75	874-615	874-715	874-815	874-915	—	—
M10	1.5	8	8.5	874-616	874-716	874-816	874-916	874-1495	874-1512
M11	1.5	6.3	9.5	874-1199	874-1213	874-1226	874-1185	—	—
M12	1.75	7.1	10.2	874-617	874-T20-1W	874-817	874-917	874-1496	874-1513
M14	2.0	9	12	874-618	874-718	874-T23-1A	874-918	874-1497	874-1514
M16	2.0	10	14	874-619	874-719	874-819	874-919	874-1498	874-1515
M18	2.5	11.2	15.5	874-620	874-720	874-820	874-920	874-1499	874-1516
M20	2.5	11.2	17.5	874-621	874-721	874-821	874-921	874-1500	874-1517
M22	2.5	12.5	19.5	874-622	874-722	874-822	874-922	874-1501	874-1518
M24	3.0	14	21	874-623	874-723	874-823	874-923	874-1502	874-1519
M27	3.0	16	24	874-624	874-724	874-824	874-924	874-1503	—
M30	3.5	16	26.5	874-625	874-725	874-825	874-925	874-1504	874-1520
M33	3.5	18	29.5	874-1200	874-1214	874-1227	874-1187	874-1505	—
M36	4.0	20	32	874-626	874-726	874-826	874-926	874-1506	—
M39	4.0	22.4	35	874-1201	874-1215	874-1228	874-1188	—	—
M42	4.5	22.4	37.5	874-1203	874-1216	874-1229	874-1189	—	—
M45	4.5	25	40.5	874-1204	874-1217	874-1230	874-1190	—	—
M48	5.0	25	43	874-1205	874-1218	874-1231	874-1191	—	—
M52	5.0	28	47	874-1206	874-1219	874-1232	874-1192	—	—
M64	6	31.5	58	—	874-1240	—	—	—	—

All Taps - PKG QTY. 1

# STRAIGHT FLUTE METRIC TAPS

**ISO 529**
**METRIC FINE THREAD**
**RIGHT HAND**
**HIGH SPEED STEEL**
**GROUND THREAD**

Straight Flute Taps are available single or in sets.



No. 1 STARTING TAP

No. 2 MIDDLE TAP

No. 3 FINISHING TAP



Spiral Point

 Note: Taps No. 1, No. 2 & No. 3 are commonly referred to as  
TAPER, PLUG & BOTTOMING TAPS.

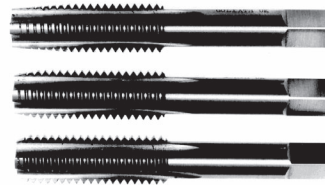
Nominal DIA. mm	PITCH mm	Tap Square End A/F mm	Recommended DRILL mm	#1 Starting Tap SPAENAUR No.	#2 Middle Tap SPAENAUR No.	#3 Finishing Tap SPAENAUR No.	Set of 2 Taps SPAENAUR No.	Spiral Point SPAENAUR No.
M2	0.25	2	1.75	874-1300	—	874-1256	874-518	—
M2.2	0.25	2.24	1.95	—	—	—	874-500	—
M2.5	0.35	2.24	2.15	874-1301	—	874-1257	874-951	—
M3	0.35	2.5	2.65	874-1302	—	874-1258	874-952	—
M3.5	0.35	2.8	3.15	—	—	874-1259	874-501	—
M4	0.5	3.15	3.5	874-1303	—	874-1260	874-953	—
M5	0.5	4	4.5	874-1304	—	874-1261	874-954	—
M5	0.75	4	4.25	874-1645	874-1248	874-1262	874-503	874-1521
M6	0.5	5	5.5	874-1305	—	874-1263	874-1141	—
M6	0.75	5	5.25	874-1306	—	874-1264	874-1142	874-1523
M7	0.75	5.6	6.25	874-1661	874-1662	874-1663	874-504	—
M8	0.75	6.3	7.25	874-1307	874-1249	874-1265	874-1143	—
M8	1.0	6.3	7	874-1308	874-1242	874-1266	874-1144	874-1524
M9	1.0	7.1	8	—	—	—	874-505	—
M10	0.75	8	9.25	874-1309	—	874-1267	874-1145	—
M10	1.0	8	9	874-1310	—	874-1268	874-1146	874-1525
M10	1.25	8	8.75	874-1311	—	874-1269	874-1147	874-1526
M11	1.0	6.30	10	874-1659	—	874-1270	874-506	—
M11	1.25	6.30	9.75	874-1312	—	874-1271	874-1148	—
M12	1.0	7.1	11	874-1313	—	874-1272	874-1149	—
M12	1.25	7.1	10.75	874-1314	874-1250	874-T19-1M	874-1150	874-1650
M12	1.5	7.1	10.5	874-T14-1C	—	874-1274	874-1151	874-1527
M14	1.0	9	13	—	874-1251	874-1275	874-507	—
M14	1.25	1.25	12.75	874-1316	874-1252	874-1276	874-1153	874-1528
M14	1.5	9	12.5	874-1317	—	874-1277	874-1154	874-1529
M16	1.0	10	15	874-1318	874-1253	874-1278	874-1155	—
M16	1.5	10	14.5	874-1319	—	874-T21-1M	874-1156	874-1530
M18	1.0	11.2	17.0	874-1667	—	—	—	—
M18	1.25	11.2	16.75	874-1320	—	—	874-509	—
M18	1.5	11.2	16.50	874-1321	—	874-1280	874-1157	874-1531
M18	2.0	11.2	16	874-1322	—	874-1281	874-1158	—
M20	1.0	11.2	19	874-1323	—	874-1282	874-1159	—
M20	1.5	11.2	18.5	874-1324	—	874-T11-1A	874-1160	874-1532
M20	2.0	11.2	18	874-1325	—	874-1284	874-1161	—
M22	1.5	12.5	20.5	874-1326	874-1660	874-1285	874-1162	—
M22	2.0	12.2	20	874-1327	—	874-1286	874-1163	—
M24	1.5	14	22.5	874-1328	—	874-1287	874-1164	874-554
M24	2.0	14	22	874-1329	—	874-1288	874-1165	—
M26	1.5	14.5	24.5	874-008	874-009	—	—	—
M27	1.5	16	25.5	874-1330	—	874-1289	874-1166	—
M27	2.0	16	25	874-1331	—	874-1290	874-1167	—
M28	1.5	16	26.5	874-1332	—	874-1291	874-1168	—
M30	1.5	16	28.5	874-1333	—	874-1292	874-1169	—
M30	2.0	16	28	874-1334	874-T16-1T	874-1293	874-1170	—
M30	3.0	16	27	874-1335	—	874-1294	874-1171	—
M32	1.5	16	30.5	—	874-535	—	874-516	—
M33	1.5	18	31.5	874-1336	874-1254	874-1295	874-1172	—
M33	2.0	18	31	874-1337	—	874-1296	874-1173	—
M34	1.5	18	32.5	874-1640	—	874-1641	—	—
M36	1.5	20	34.5	874-1338	—	874-1297	874-1174	—
M36	2.0	20	34	874-1339	—	874-1298	874-1175	—
M36	3.0	20	33	874-1340	874-1152	874-1299	874-1176	—
M38	1.5	22.4	36.5	—	874-1255	—	—	—

## STRAIGHT FLUTE METRIC TAPS

**ISO 529**

**METRIC COARSE THREAD  
LEFT HAND  
HIGH SPEED STEEL  
GROUND THREAD**

Straight Flute Taps are available single or in sets.



No. 1 STARTING TAP

No. 2 MIDDLE TAP

No. 3 FINISHING TAP

Note: Taps No. 1, No. 2 & No. 3 are commonly referred to as  
TAPER, PLUG & BOTTOMING TAPS.

**All Taps - PKG QTY. 1**

Nominal DIA. mm	PITCH mm	Tap Square End A/F mm	Recommended DRILL mm	#1 Starting Tap SPAENAUR No.	#2 Middle Tap SPAENAUR No.	#3 Finishing Tap SPAENAUR No.	Set of 3 Taps SPAENAUR No.
M3	0.5	2.5	2.5	874-1341	874-1353	874-1363	874-1388
M4	0.7	3.15	3.3	874-1342	874-1354	874-1364	874-1389
M5	0.8	4	4.2	874-1343	874-1355	874-1365	874-1390
M6	1.0	5	5	874-1344	874-1356	874-1366	874-1391
M8	1.25	6.3	6.75	874-1345	874-1357	874-1367	874-1392
M10	1.5	8	8.5	874-1346	874-1358	874-1368	874-1393
M12	1.75	7.1	10.2	874-1347	874-1359	874-1369	874-1394
M14	2.0	9	12	874-1348	—	874-1370	—
M16	2.0	10	14	874-1349	874-1360	874-1371	874-1395
M18	2.5	11.2	15.5	874-1350	—	—	—
M20	2.5	11.2	17.5	874-1351	874-1361	874-1372	874-1396
M24	3.0	14	21	874-1352	874-1362	874-1373	874-1397

### LEFT HAND METRIC FINE THREAD

Nominal DIA. mm	PITCH mm	Tap Square End A/F mm	Recommended DRILL mm	#1 Starting Tap SPAENAUR No.	#2 Middle Tap SPAENAUR No.	#3 Finishing Tap SPAENAUR No.	Set of 2 Taps SPAENAUR No.
M8	1.0	6.3	7	—	—	874-1625	874-1376
M10	1.0	8	9	—	—	874-1382	—
M12	1.0	7.1	11	874-1652	874-1653	—	—
M12	1.5	7.1	10.5	—	—	874-1383	874-1378
M14	1.5	9	12.5	—	—	874-1374	—
M16	1.5	10	14.5	—	—	874-1384	874-1379
M20	1.5	11.2	18.5	—	—	874-1385	874-1380
M24	1.5	14	22.5	—	874-1387	874-1386	874-1381



## METRIC SPIRAL POINT, LONG REDUCED SHANK MACHINE TAPS

**DIN 376**

**METRIC COARSE THREAD  
RIGHT HAND  
HIGH SPEED STEEL  
GROUND THREAD**



Spiral Point

Nominal DIA. mm	PITCH mm	Approx. Overall Lgth. mm	Thread Length (Max.) mm	Tap Square End A/F mm	Recom. DRILL mm	Spiral Point SPAENAUR No.
M3.5	0.6	56	13	2.1	2.9	874-1573
M4	0.7	63	13	2.1	3.3	874-1574
M5	0.8	70	16	2.7	4.2	874-1575
M6	1.0	80	19	3.4	5	874-1576
M7	1.0	80	19	4.3	6	874-1577
M8	1.25	90	22	4.9	6.75	874-1578
M10	1.5	100	24	5.5	8.5	874-1580
M12	1.75	110	29	7	10.2	874-1582
M14	2.0	110	30	9	12	874-1583
M16	2.0	110	32	9	14	874-1584
M18	2.5	125	37	11	15.5	874-1585
M20	2.5	140	37	12	17.5	874-1586
M22	2.5	140	38	14.5	19.5	874-1587
M24	3.0	160	45	14.5	21	874-1588

## METRIC SPIRAL POINT, LONG REDUCED SHANK MACHINE TAPS

**DIN 374**

**METRIC FINE THREAD  
RIGHT HAND  
HIGH SPEED STEEL  
GROUND THREAD**



Spiral Point



Spiral Flute

Nominal DIA. mm	PITCH mm	Approx. Overall Lgth. mm	Thread Length (Max.) mm	Tap Square End A/F mm	Recom. DRILL mm	Spiral Point SPAENAUR No.	Spiral Flute SPAENAUR No.
M6	0.75	80	14	3.4	5.25	—	874-1549
M8	1.0	90	22	4.9	7	874-1565	874-1550
M10	1.0	90	20	5.5	9	874-1566	874-1551
M10	1.25	100	24	5.5	8.75	874-1567	874-1552
M12	1.25	100	22	7	10.75	—	874-1553
M12	1.5	100	22	7	10.5	874-1568	874-1554
M14	1.25	100	22	9	12.75	—	874-1555
M14	1.5	100	22	9	12.5	874-1569	874-1556
M16	1.5	100	22	9	14.5	874-1570	874-1557
M20	1.5	125	25	12	18.5	874-1571	874-1558
M24	1.5	140	28	14.5	22.5	—	874-1559



**PARALLEL THREAD PIPE TAP, 55° THREAD ANGLE**  
**BSP MECHANICAL JOINT TYPE G - RIGHT HAND**  
**STRAIGHT FLUTE FINISHING TAPS**  
**HIGH SPEED STEEL**  
**GROUND THREAD**



Dies split or solid, our option.

#3 Finishing Taps SPAENAUR No.	SIZE Inch	PITCH TPI	Tap Square End A/F (mm)	Recommended Drill (mm)	*ROUND DIES SPAENAUR No.	Die O.D. (mm)	Thick-ness (mm)
874-1457	G 1/8	28	6.3	8.8	878-924	30	11
874-1458	G 1/4	19	8	11.8	878-925	38	10
874-T12-1P	G 3/8	19	10	15.25	878-926	45	14
874-1460	G 1/2	14	12.5	19	878-927	45	14
874-1461	G 5/8	14	14	21	878-928	55	16
874-1462	G 3/4	14	16	24.5	878-929	55	16
874-1463	G 7/8	14	18	28.25	878-930	65	18
874-1464	G 1	11	20	30.50	878-931	65	18

\*These dies are suitable for BSP Type G and Type RP threads.

PKG QTY. 1

**PARALLEL THREAD PIPE TAP, 55° THREAD ANGLE**  
**BSP LEAK PROOF JOINT TYPE RP - RIGHT HAND**  
**STRAIGHT FLUTE FINISHING TAPS**  
**HIGH SPEED STEEL**  
**GROUND THREAD**

#3 Finishing Taps SPAENAUR No.	SIZE Inch	PITCH TPI	Tap Square End A/F (mm)	Recommended DRILL (mm)
874-1465	RP 1/8	28	6.3	8.6
874-1466	RP 1/4	19	8	11.5
874-1467	RP 3/8	19	10	15
874-1468	RP 1/2	14	12.5	18.5
874-1469	RP 3/4	14	16	24
874-1470	RP 1	11	20	30.50

For dies see above.

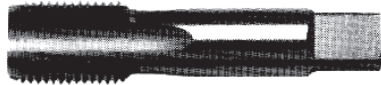
PKG QTY. 1

CATALOG 14 SPAENAUR

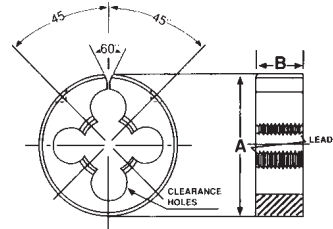


**CONICAL THREAD PIPE TAP, 55° THREAD ANGLE  
BSPT 1:16 TAPER TYPE RC - RIGHT HAND**

**HIGH SPEED STEEL  
GROUND THREAD**



**TAPERED THREAD**



PKG QTY. 1

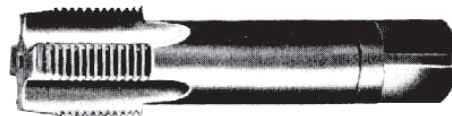
Dies split or solid, our option.

SIZE Inch	PITCH TPI	Tap Square End A/F (mm)	Recommended DRILL (mm)	#2 Middle Tap SPAENAU No.	#3 Finishing Tap SPAENAU No.	ROUND DIES SPAENAU No.	Die O.D. (mm)	THICK- NESS (mm)
RC 1/8	28	6.3	8.6	874-387	874-1471	878-932	30	11
RC 1/4	19	8	11.5	874-386	874-1472	878-933	38	14
RC 3/8	19	10	15	874-007	874-1473	878-934	45	14
RC 1/2	14	12.5	18.5	—	874-1474	—	45	18
RC 3/4	14	16	24	—	874-1475	878-936	55	22
RC 1	11	20	30.50	—	874-1476	878-937	65	25

RC Thread is a designation of British Standard Pipe Taper.

**GERMAN PIPE THREAD TYPE PG  
CONDUIT PARALLEL, 80° THREAD ANGLE  
RIGHT HAND FINISHING TAPS**

**HIGH SPEED STEEL  
GROUND THREAD**

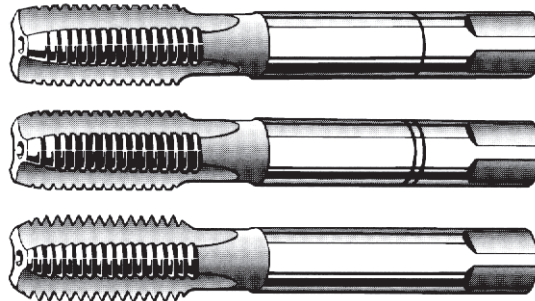


PKG QTY. 1

#1 Starting Taps SPAENAU No.	#3 Finishing Taps SPAENAU No.	SIZE (Diameter mm)	Recommended DRILL (mm)	PITCH TPI	ROUND DIES SPAENAU No.	Die O.D. (mm)	THICK- NESS (mm)
874-1668	874-1477	PG-7 (12.5)	11.3	20	878-938	38	10
874-1669	874-1478	PG-9 (15.2)	13.75	18	878-939	38	10
874-1670	874-1479	PG-11 (18.6)	17.3	18	878-940	45	14
874-1671	874-1480	PG-13.5 (20.4)	19	18	878-941	45	14
874-1672	874-1481	PG-16 (22.5)	21	18	878-942	55	16
874-1673	874-1482	PG-21 (28.3)	27.5	16	878-943	65	18
874-1674	874-1483	PG-29 (37)	36	16	878-944	65	18
874-1675	874-1484	PG-36 (47)	46	16	878-945	90	22

PG is Technical Standard created in Germany. It refers to the thread used to join pieces of electrical conduit and cable glands.

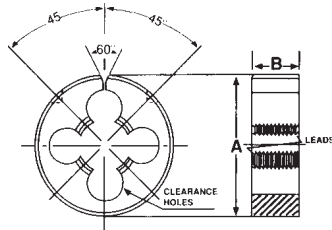
**METRIC HAND TAPS ONLY**  
**STRAIGHT FLUTE - RIGHT HAND**  
**METRIC COARSE THREAD**  
**HIGH SPEED STEEL**  
**GROUND THREAD**



Straight flute taps with a progressive thread form on each successive tap. Serial sets are suitable for deep through and blind holes, and are recommended for precision tapping in tough materials. Three taps per set. These taps should not be used individually or by machine.

Set of 3 Taps SPAENAUR No.	PITCH mm	Tap Square End A/F	Recommended DRILL mm	Nominal DIA. mm
874-1534	0.5	2.5	2.5	M3
874-1535	0.7	3.15	3.3	M4
874-1536	0.8	4	4.2	M5
874-1537	1.0	5	5	M6
874-1546	1.0	5.6	6	M7
874-1538	1.25	6.3	6.75	M8
874-1547	1.25	7.1	7.75	M9
874-1539	1.5	8	8.5	M10
874-1548	1.5	6.3	9.5	M11
874-1186	1.75	7.1	10.2	M12
874-1540	2.0	9	12	M14
874-1541	2.0	10	14	M16
874-1542	2.5	11.2	15.5	M18
874-1543	2.5	11.2	17.5	M20
874-1544	2.5	12.5	19.5	M22
874-1545	3.0	14	21	M24

All Serial Sets - PKG QTY. 1



## METRIC ROUND DIES WITH INCH O.D.

RIGHT HAND  
METRIC COARSE THREAD  
HIGH SPEED STEEL  
GROUND THREAD

Dies split or solid, our option.

SPAENAUR No.	SIZE mm	PITCH mm	O.D. Inch	THICKNESS Inch
878-600	M1.6	0.35	13/16"	1/4"
878-601	M1.7	0.35	13/16"	1/4"
878-602	M2	0.4	13/16"	1/4"
878-603	M2.3	0.4	13/16"	1/4"
878-604	M2.5	0.45	13/16"	1/4"
878-605	M2.6	0.45	13/16"	1/4"
878-606	M3	0.5	13/16"	1/4"
878-607	M3.5	0.6	13/16"	1/4"
878-608	M4	0.7	13/16"	1/4"
878-609	M4.5	0.75	13/16"	1/4"
878-K05-1W	M5	0.8	13/16"	1/4"
878-611	M6	1.0	13/16"	1/4"
878-612	M6.3	1.0	13/16"	1/4"
878-K10-1A	M8	1.25	1"	3/8"
878-615	M9	1.25	1"	3/8"
878-616	M10	1.5	1"	3/8"
878-617	M12	1.75	1-5/16"	7/16"
878-695	M12	1.75	2"	5/8"
878-618	M14	2.0	1-1/2"	1/2"
878-696	M14	2.0	2"	5/8"
878-619	M16	2.0	1-1/2"	1/2"
878-697	M16	2.0	2"	5/8"
878-K02-1N	M18	2.5	2"	5/8"
878-621	M20	2.5	2"	5/8"
878-622	M22	2.5	2"	5/8"
878-623	M24	3.0	2"	5/8"

## METRIC ROUND DIES

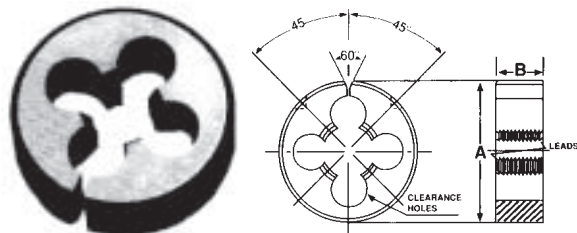
RIGHT HAND  
METRIC COARSE THREAD  
HIGH SPEED STEEL  
GROUND THREAD

### DIN 223

SPAENAUR No.	SIZE mm	PITCH mm	O.D. mm	THICKNESS mm
878-712	M1	0.25	16	5
878-713	M1.1	0.25	16	5
878-714	M1.2	0.25	16	5
878-715	M1.4	0.3	16	5
878-716	M1.6	0.35	16	5
878-815	M1.7	0.35	16	5
878-717	M1.8	0.35	16	5
878-718	M2	0.4	16	5
878-719	M2.2	0.45	16	5
878-817	M2.3	0.4	16	5
878-720	M2.5	0.45	16	5
878-816	M2.6	0.45	16	5
878-721	M3	0.5	20	5
878-755	M3	0.5	25	9
878-722	M3.5	0.6	20	5
878-723	M4	0.7	20	5
878-756	M4	0.7	25	9
878-724	M4.5	0.75	20	7
878-725	M5	0.8	20	7
878-819	M5.5	0.90	20	7
878-726	M6	1.0	20	7
878-758	M6	1.0	25	9
878-727	M7	1.0	25	9
878-728	M8	1.25	25	9
878-729	M9	1.25	25	9
878-760	M10	1.5	25	9
878-730	M10	1.5	30	11
878-731	M11	1.5	30	11
878-761	M12	1.75	25	9
878-732	M12	1.75	38	14
878-762	M12	1.75	45	18
878-733	M14	2.0	38	14
878-763	M14	2.0	45	18
878-734	M16	2.0	45	18
878-735	M18	2.5	45	18
878-736	M20	2.5	45	18
878-737	M22	2.5	55	22
878-768	M24	3.0	45	18
878-738	M24	3.0	55	22
878-739	M27	3.0	65	25
878-740	M30	3.5	65	25
878-741	M33	3.5	65	25
878-965	M36	4.0	65	20
878-742	M36	4.0	65	25
878-743	M39	4.0	75	30
878-744	M42	4.5	75	30
878-745	M45	4.5	90	36
878-746	M48	5.0	90	36
878-747	M52	5.0	90	36

All Dies - PKG QTY. 1

# RIGHT HAND DIES



## DIN 223

### METRIC FINE AND COARSE THREAD

Dies split or solid, our option.

...Continued

### METRIC FINE THREAD HIGH SPEED STEEL GROUND THREAD

SPAENAUR No.	SIZE mm	PITCH mm	O.D. mm	THICKNESS mm
878-821	M3	0.35	20	5
878-822	M3.5	0.35	20	5
878-839	M4	0.5	20	5
878-825	M5	0.75	20	7
878-840	M5	0.5	20	5
878-841	M6	0.5	20	5
878-842	M6	0.75	20	7
878-824	M7	0.75	25	9
878-843	M8	0.75	25	9
878-844	M8	1.0	25	9
878-826	M9	1.0	25	9
878-845	M10	0.75	30	11
878-846	M10	1.0	30	11
878-847	M10	1.25	30	11
878-827	M11	1.0	30	11
878-848	M11	1.25	30	11
878-849	M12	1.0	38	10
878-850	M12	1.25	38	10
878-851	M12	1.5	38	10
878-624	M14	1.0	38	10
878-852	M14	1.25	38	10
878-853	M14	1.5	38	10
878-854	M16	1.0	45	14
878-828	M16	1.25	45	14

Continued...

SPAENAUR No.	SIZE mm	PITCH mm	O.D. mm	THICKNESS mm
878-855	M16	1.5	45	14
878-829	M18	1.25	45	14
878-856	M18	1.5	45	14
878-857	M18	2.0	45	14
878-858	M20	1.0	45	14
878-859	M20	1.5	45	14
878-860	M20	2.0	45	14
878-830	M22	1.0	55	16
878-861	M22	1.5	55	16
878-862	M22	2.0	55	16
878-863	M24	1.5	55	16
878-864	M24	2.0	55	16
878-831	M26	1.5	55	16
878-865	M27	1.5	65	18
878-866	M27	2.0	65	18
878-867	M28	1.5	65	18
878-868	M30	1.5	65	18
878-869	M30	2.0	65	18
878-870	M30	3.0	65	18
878-832	M32	1.5	65	18
878-871	M33	1.5	65	18
878-872	M33	2.0	65	18
878-833	M34	1.5	65	18
878-834	M35	2.0	65	18
878-873	M36	1.5	65	18
878-874	M36	2.0	65	18
878-875	M36	3.0	65	18
878-835	M38	1.5	75	20

All Dies - PKG QTY. 1

# LEFT HAND DIES

Dies split or solid, our option.

## METRIC COARSE THREAD HIGH SPEED STEEL GROUND THREAD

SPAENAUR No.	SIZE mm	PITCH mm	O.D. mm	THICKNESS mm
878-675	M4	0.7	20	5
878-676	M5	0.8	20	7
878-677	M6	1.0	20	7
878-678	M8	1.25	25	9
878-679	M10	1.5	30	11
878-680	M12	1.75	38	14
878-681	M14	2.0	38	14
878-682	M16	2.0	45	18
878-683	M18	2.5	45	18
878-684	M20	2.5	45	18
878-685	M24	3.0	55	22

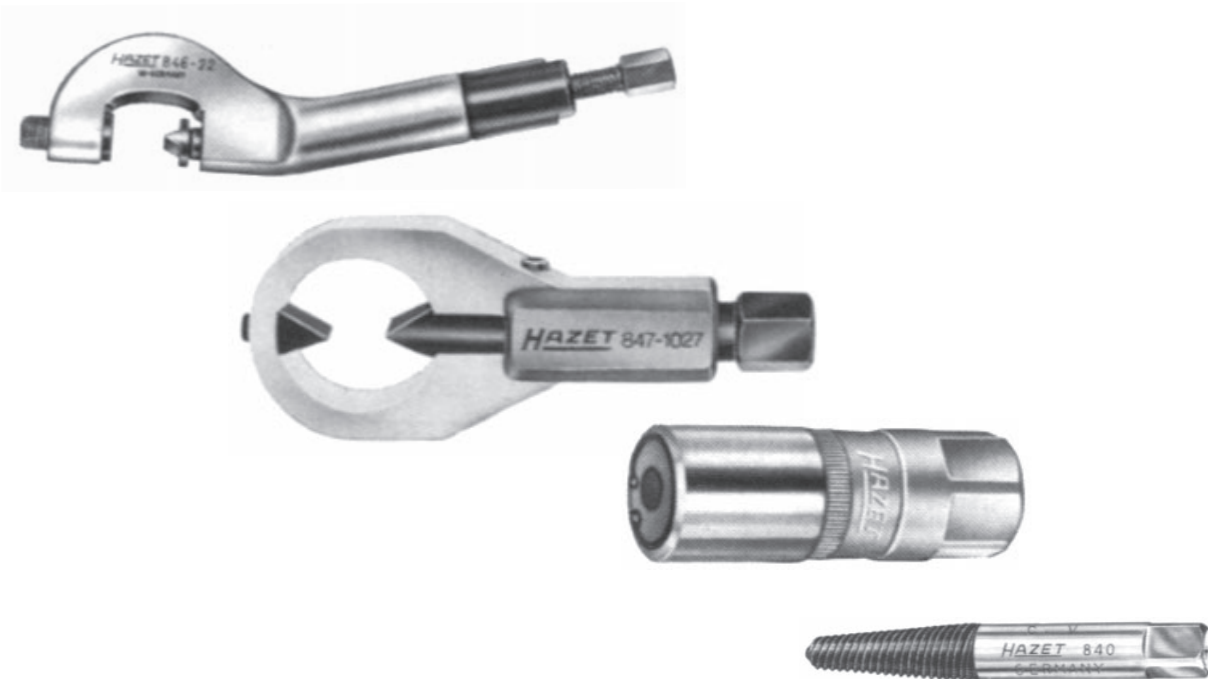
## METRIC FINE THREAD HIGH SPEED STEEL GROUND THREAD

SPAENAUR No.	SIZE mm	PITCH mm	O.D. mm	THICKNESS mm
878-686	M8	1.0	25	9
878-687	M10	1.0	30	11
878-688	M12	1.5	38	10
878-625	M14	1.5	38	10
878-689	M16	1.5	45	14
878-690	M18	1.5	45	14
878-134	M20	1.5	45	14
878-135	M32	1.5	63.5	19

All Dies - PKG QTY. 1



For Stud Extractors, Screw Extractors,  
Nut Splitters See Pages N15-16

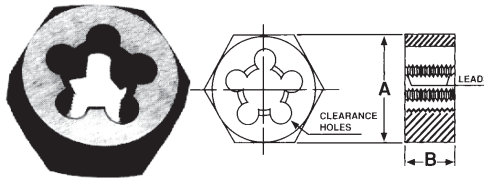


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## METRIC RIGHT HAND DIES

**DIN 382**

**METRIC COARSE THREAD  
HIGH SPEED STEEL  
GROUND THREAD**


**DIN 382**

**METRIC FINE THREAD  
HIGH SPEED STEEL  
GROUND THREAD**

SPAENAUR No.	SIZE mm	PITCH mm	A/F mm	THICKNESS mm
878-769	M3	0.5	19	5
878-770	M3.5	0.6	19	5
878-771	M4	0.7	19	5
878-789	M4.5	0.75	19	7
878-772	M5	0.8	19	7
878-653	M6	1.0	19	7
878-654	M7	1.0	22	9
878-655	M8	1.25	22	9
878-656	M9	1.25	22	9
878-657	M10	1.5	27	11
878-658	M12	1.75	36	14
878-659	M14	2.0	36	14
878-660	M16	2.0	41	18
878-661	M18	2.5	41	18
878-662	M20	2.5	41	18
878-663	M22	2.5	50	22
878-664	M24	3.0	50	22
878-773	M27	3.0	60	25
878-774	M30	3.5	60	25
878-775	M33	3.5	60	25
878-776	M36	4.0	60	25
878-777	M39	4.0	70	30
878-778	M42	4.5	70	30
878-779	M45	4.5	85	36
878-780	M48	5.0	85	36
878-781	M52	5.0	85	36
878-878	M3	0.35	19	5
878-879	M4	0.5	19	5
878-880	M5	0.5	19	5
878-881	M6	0.5	19	5
878-882	M6	0.75	19	7
878-883	M8	0.75	22	9
878-884	M8	1.0	22	9
878-626	M9	1.0	22	9
878-961	M10	0.75	27	11
878-885	M10	1.0	27	11

SPAENAUR No.	SIZE mm	PITCH mm	A/F mm	THICKNESS mm
878-886	M10	1.25	27	11
878-915	M11	1.0	27	11
878-887	M11	1.25	27	11
878-888	M12	1.0	36	10
878-889	M12	1.25	36	10
878-890	M12	1.5	36	10
878-891	M14	1.25	36	10
878-892	M14	1.5	36	10
878-893	M16	1.0	41	14
878-916	M16	1.25	41	14
878-894	M16	1.5	41	14
878-917	M18	1.25	41	14
878-895	M18	1.5	41	14
878-896	M18	2.0	41	14
878-897	M20	1.0	41	14
878-898	M20	1.5	41	14
878-899	M20	2.0	41	14
878-900	M22	1.5	50	16
878-901	M22	2.0	50	16
878-902	M24	1.5	50	16
878-903	M24	2.0	50	16
878-904	M27	1.5	60	18
878-905	M27	2.0	60	18
878-906	M28	1.5	60	18
878-907	M30	1.5	60	18
878-908	M30	2.0	60	18
878-909	M30	3.0	60	18
878-918	M32	1.5	60	18
878-910	M33	1.5	60	18
878-911	M33	3.0	60	18
878-919	M34	1.5	60	18
878-920	M35	1.5	60	18
878-912	M36	1.5	60	18
878-913	M36	2.0	60	18
878-914	M36	3.0	60	18

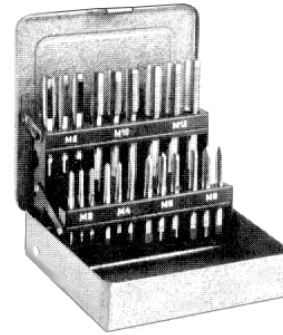
All Dies - PKG QTY. 1



Example of Set in Wooden Box

**METRIC COARSE AND FINE THREAD  
TAP AND DIE SETS**

- Wide selection of taps, dies and related holders.
- Put up in sturdy containers.
- Organization made easy!



Example of Set in Metal Box

**METRIC COARSE THREAD TAP SETS**

High Speed Steel, Ground Thread

**Spaenaur No. 874-950**

In a wooden box containing one starting, middle and finishing tap in each of the following sizes: M3, M4, M5, M6, M8, M10 and M12.

**Spaenaur No. 874-1600**

FEW Tap Set in a metal case containing one starting, middle and finishing tap in each of the following sizes: M3, M4, M5, M6, M8, M10, and M12.

**METRIC COARSE THREAD SERIAL TAP AND DIE SETS**

High Speed Steel, Ground Thread

**Spaenaur No. 874-1589**

In a metal index box containing one starting, middle and finishing tap in each of the following sizes: M3, M4, M5, M6, M8, M10 and M12.

**Spaenaur No. 874-1602**

Taps and Drills in a plastic box containing one starting, middle and finishing tap in each of the following sizes: M3, M4, M5, M6, M8, M10 and M12 and one bar type tap handle.

One drill in each of the following sizes: 2.5 mm, 3.3 mm, 4.2 mm, 5 mm, 6.8 mm, 8.5 and 10.2 mm.

**Spaenaur No. 878-949**

In wooden box containing one starting, middle and finishing tap and one round die in each of the of the following sizes: M3, M4, M5, M6, M8, M10, M12, M14, M16, M18, M20, M22, and M24.

Set also includes tap handles and die holders.

**Spaenaur No. 878-967**

In plastic box containing one starting, middle and finishing tap and one round die in each of the following sizes: M3, M4, M5, M6, M8, M10 and M12.

Set also includes two tap handles, five die holder and one slotted screwdriver.

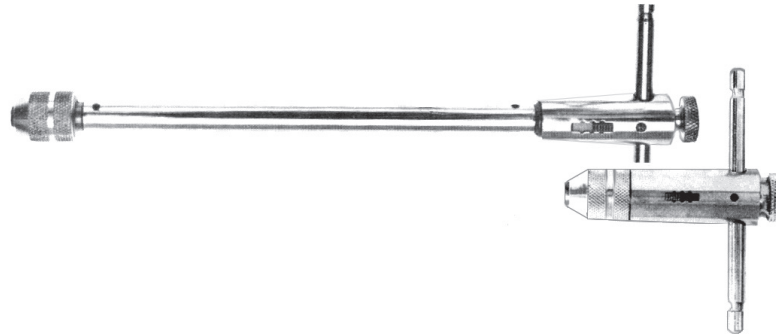
All Sets - PKG QTY. 1

P



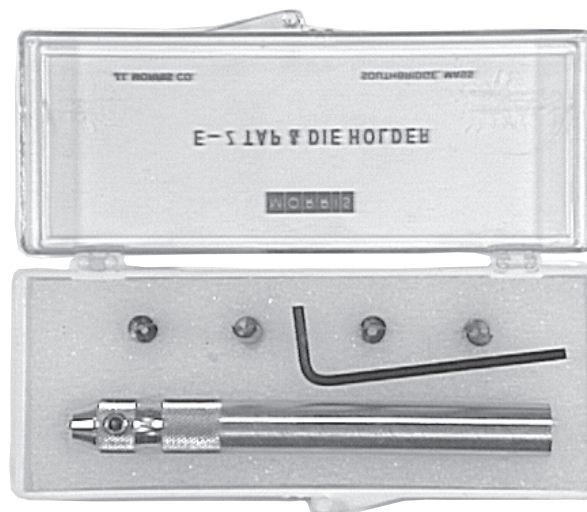
### TAP WRENCHES WITH RATCHET

Chuck Type Tap Handle  
Chrome Plated Steel



PKG QTY. 1

SPAENAU No.	No.	FOR TAP CAPACITY		SQUARE RANGE mm	LENGTH mm
		Metric DIN	Whitworth		
877-245	1	M3 - 10	W1/8 - 3/8	2.4 - 5.5	85
877-078	2	M5 - 12	W7/32 - 1/2 + R1/8	4.5 - 7.0	100
877-121	10	M3-10	W1/8 - 3/8	2.4-5.5	250
877-125	20	M5-12	W7/32 - 1/2 + R1/8	4.5-7.0	300



PKG QTY. 1

### E-Z Tap Holder

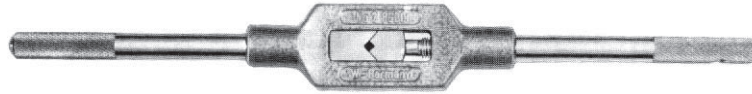
Spaenaur No. 876-886

Put up in a plastic case containing an aluminum tap holder for miniature Inch tap sizes 00, 0, 1 and 2 along with appropriate hex key.

### ADJUSTABLE TAP WRENCHES

#### DIN 1814

Bar Type Handle  
Steel Plain Finish



SPAENAUR No.	No.	FOR TAP CAPACITY			Pipe	SQUARE RANGE mm	LENGTH mm
		Metric DIN	Metric ISO	Whitworth			
877-1393	0	M1 - 8	M1 - 6	W1/16 - 1/4	—	2.1 - 4.9	130
877-075	1	M1 - 10	M2.2 - 7	W1/16 - 3/8	R1/8	2.1 - 5.5	188
877-C20-1X	2	M3.5 - 12	M4 - 10	W5/32 - 1/2	R1/8	3.0 - 8.0	280
877-1391	3	M5 - 20	M6 - 20	W7/32 - 3/4	R1/8 - 1/2	4.9 - 12	380
877-1390	4	M11 - 27	M8 - 27	W7/16 - 1	R1/4 - 3/4	6.2 - 16	500
877-077	5L	M13 - 32	M12 - 36	W1/2 - 1-1/4	R1/4 - 1	7 - 20	700

PKG QTY. 1

### BAR TYPE TAP HANDLE

Malleable Cast Iron

SPAENAUR No.	No.	FOR TAP CAPACITY			Pipe	SQUARE RANGE mm	LENGTH mm
		Metric DIN	Metric ISO	Whitworth			
877-1402	6L	M18 - 42	M18 - 42	W3/4 - 1-1/2	R1/2 - 1-1/4	11 - 24	1000
877-1403	7	M25 - 52	M27 - 62	W1 - 2-1/8	R3/4 - 2 1/4	16 - 32	1250
877-1389	8	M25 - 64	M27 - 76	W1 - 2-1/2	R3/4 - 3	16 - 40	1250

PKG QTY. 1



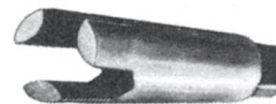
#### DIN 377

### METRIC TAP EXTENSIONS

Steel, Plain or Plated - our option.

SPAENAUR No.	SQUARE A/F mm	LENGTH mm
874-1603	2.7	80
874-1604	3.4	95
874-1605	4.9	110
874-1606	5.5	115
874-1607	6.2	120
874-1608	7.0	125
874-1609	8.0	130
874-1610	9.0	135

PKG QTY. 1



### METRIC TAP EXTRACTORS

Steel Plain Finish

SPAENAUR No.		FOR TAP SIZE
Three Prong	Four Prong	
874-1611	—	M3
874-1612	—	M4
874-1613	—	M5
874-1614	—	M6
874-1615	—	M8
—	874-1616	M10
—	874-1617	M12
874-1618	—	M14
874-1619	—	M16
874-1639	—	M20
874-1620	874-1621	M22
874-1622	874-1628	M24
874-1623	874-1629	M27
874-1624	874-1631	M30

PKG QTY. 1

P

**DIE STOCKS** **DIN 225**

FOR ROUND SPLIT DIES  
for direct application of DIN 223 dies.

PKG QTY. 1



See page P66-67 for Dies DIN 223

Steel Plain Finish

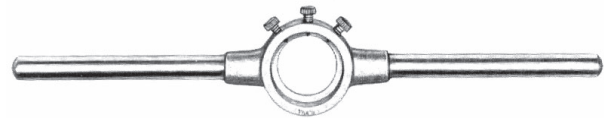
SPAENAUR No.	SIZE mm	FOR ROUND DIE CAPACITY			Pipe	LENGTH mm
		Metric	Metric Fine	Whitworth		
877-083	16 x 5	M1 - 2.6	—	W1/16 - 3/32	—	160
877-084	20 x 5	M3 - 4	Mf3 - 4	W1/8 - 5/32	—	200
877-085	20 x 7	M4.5 - 6	Mf4.5 - 6	W3/16 - 1/4	—	200
877-086	25 x 9	M7 - 9	Mf7 - 9	W5/16	—	224
877-087	30 x 11	M10 - 11	Mf10 - 11	W3/8 - 7/16	R1/8	280
877-088	38 x 10	—	Mf12 - 14	—	G1/8 - G1/4	315
877-089	38 x 14	M12 - 14	—	W1/2 - 9/16	R1/4	315
877-090	45 x 14	—	Mf16 - 20	—	G3/8 - G1/2, RC3/8	450
877-091	45 x 18	M16 - 20	—	W5/8 - 13/16	RC1/2	450
877-092	55 x 16	—	Mf22 - 24	—	G5/8, 3/4	560
877-093	55 x 22	M22 - 24	—	W7/8	RC3/4	450
877-094	65 x 18	—	Mf26 - 35	—	G7/8, 1	630
877-095	65 x 25	M27 - 36	—	W1-1/8 - 1-3/8	RC1	630
877-096	75 x 30	M39 - 42	—	W1-1/2 - 1-5/8	—	800
877-097	90 x 36	M45 - 52	—	W1-3/4 - 2	—	900

**DIE STOCKS FOR ROUND SPLIT DIES**

Will fit Metric and Inch Dies

Steel Plain Finish

SPAENAUR No.	FOR ROUND DIE CAPACITY		LENGTH mm
	inch	mm	
877-098	1" x 3/8"	25.4 x 9.5	224
877-099	1-1/2" x 1/2"	38.1 x 12.7	325
877-100	2" x 5/8"	50.8 x 15.9	470



PKG QTY. 1

**SCREW EXTRACTORS with Left Hand Spiral Thread**

Steel, Plain Finish

PKG QTY. 1

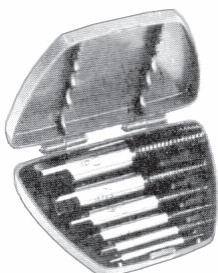
SPAENAUR No.	NO.	SIZE mm	LENGTH mm	DRILLS mm	FOR SCREWS	
					Metric	Inch
877-217	1	1.4 - 3.6	50	1.8	M3 - 6	1/8 - 1/4"
877-218	2	2.1 - 4.9	57	2.6	M6 - 8	1/4 - 5/16"
877-219	3	3.1 - 6.5	64	3.7	M8 - 11	5/16 - 7/16"
877-220	4	4.8 - 8.8	71	5.5	M11 - 14	7/16 - 9/16"
877-221	5	6.2 - 11	78	7	M14 - 18	9/16 - 3/4"
877-481	6	9.4 - 15	85	10.3	M18 - 24	3/4 - 1"
877-222	7	12.7 - 19	92	13.7	M24 - 33	1 - 1-3/8"
877-223	8	17.5 - 24	100	18.6	M33 - 45	1-3/8 - 1-3/4"

**SCREW EXTRACTORS SETS**

With Left Hand Spiral Thread

PKG QTY. 1

Steel, Plain Finish



SPAENAUR No.	SET No.	CONTENTS OF SET	(See above chart for size details)
877-224	1	877-217, 877-218, 877-219, 877-220, 877-221	
877-225	2	877-217, 877-218, 877-219, 877-220, 877-221, 877-481	
877-226	3	877-217, 877-218, 877-219, 877-220, 877-221, 877-481, 877-222, 877-223	



PKG QTY. 1

### THE DRILL-OUT® POWER EXTRACTOR

The Drill-Out® Power Extractor is excellent for removing broken bolts and studs without damaging the threads in the hole. The drill body is manufactured using the finest quality M-2 Hi-Speed Tool Steel (Rc 64). The collet is produced from H-13 Hot Work Die

Individual Drill-Out® Power Extractors	
SPAENAUR No.	To remove broken bolt or stud
876-860	1/4" or 6 mm
876-861	5/16" or 8 mm
876-862	3/8" or 10 mm
876-863	1/2" or 12 mm

Steel (Rc 54), using the finest steel of its type. All Drill-Out® Power Extractors are made with a precision ground 130° left hand cutting self-centering point, and are heat treated for toughness.

### Drill-Out® Set

876-864

Contains all four extractor sizes.

Handsome encased in a black polyethylene case making it ideally compact for storage and transportation.



PKG QTY. 1

#### WARNING ALWAYS USE PROTECTIVE EYEWEAR

- Obtain a variable speed power drill and set it for reverse.
- Measure the diameter of the broken bolt to determine the size Drill-Out® required. For example, if the broken bolt is 1/4" or 6 mm use the 1/4" 6 mm Drill-Out®. We recommend 3/8" variable speed drill. Impact and high horse-power drills may cause damage to Drill-Out®. See chart Figure 1A below.
- Attach only the hex end of the Drill-Out® securely into the drill chuck. Thread collet back against the drill chuck. See Figure 2.
- Make sure drill is set in reverse.
- Place the tip of the Drill-Out® on the centre of the broken bolt and begin drilling. Do not allow collet to move down towards tip while drilling. If so, thread collet back towards chuck.
- With the hole started, stop and observe making absolutely sure that you are at the centre of the broken bolt. If you are not centered, simply angle the drill toward the centre of the broken bolt and drill until the point of the drilled hole is on centre.

#### THE MOST IMPORTANT STEP IN EXTRACTING A BROKEN BOLT IS TO DRILL THE HOLE ON CENTRE.

- With the hole started ON CENTRE, hold the drill parallel to the axis of the broken bolt and continue drilling.
- Stop every 1/16" or 2 mm in depth to clean out chips and add cutting oil. Verify each time that you are drilling on centre and straight.
- Stop drilling just before you reach the front of the collet. DO NOT let collet touch the end of the bolt. See Figure 2.

- Clean out chips from hole and use penetrating oil to help loosen the broken bolt.
- Move collet toward the drill tip with three or four threads showing.
- Hold electrical drill firmly with both hands.
- Bring drill speed to suggested RPMs, see Figure 1B, and plunge into the hole while applying pressure toward the broken bolt. See Figure 3
- The collet automatically engages and extracts the broken bolt. See Figure 4.
- If drill stalls during extraction hand removal is possible. Leave Drill-Out® lodged into the bolt and remove tool from drill.
- Look to see if you have drilled exactly on centre. If so, use a wrench on the square collet head. Turn counter clockwise to remove the broken bolt. Do not use excessive force, damage to tool may occur.
- If you get a lot of resistance when using a wrench, you may have drilled off centre, and the Drill-Out® tool is biting on the casting or you may be in an impossible situation. If this situation arises, remove Drill-Out® tool by turning clockwise. You may have to drill and tap new threads.
- To remove Drill-Out® from broken bolt, firmly tighten broken bolt in a vise. Using an adjustable wrench turn the collet clockwise and remove the Drill-Out®. If necessary, clamp the hex end of the Drill-Out® into the vise and back the collet off the drill head. Drill-Out® is ready to use again.

#### INSTRUCTIONS

- Utiliser une perceuse à vitesse variable et inverseur de marche et la positionner en marche inversée.
- Mesurer le diamètre du boulon brisé pour déterminer la grandeur de l'extracteur à utiliser. Exemple si le boulon est de 1/4" ou 6 mm, utiliser l'extracteur de 1/4" ou 6 mm à vitesse variable. Ne jamais utiliser une perceuse à frappe ou à haute puissance celles-ci pourraient endommager l'extracteur. Voir tableau figure 1A
- Insérer la partie hexagonale de l'extracteur dans le mandrin. Visser le taraud extracteur vers le mandrin. Voir figure 2.
- S'assurer que la perceuse est en marche inversée.
- Placer la pointe de l'extracteur au centre du boulon et commencer à percer. Ne pas laisser le taraud extracteur descendre vers la pointe durant le perçage. Si cela se produit revisser le taraud extracteur vers le mandrin.
- Lorsque vous avez commencé à percer, assurez-vous que vous êtes bien au centre du boulon. Si vous n'êtes pas centrés, pointer le foret vers le centre et percer. LE PLUS IMPORTANT DANS L'EXTRACTION D'UN BOULON EST DE PERCER EXACTEMENT AU CENTRE

#### ATTENTION TOUJOURS UTILISER DES VERRES PROTECTEURS LORSQUE

- DE CELUI-CI.
- Lorsque le trou est centré, maintenir le foret parallèle à l'axe du boulon et continuer à percer.
- Arrêter le perçage tous les 1/16" ou 2mm environ pour retirer les fragments et lubrifier. Vous assurer que vous êtes toujours bien centrés.
- Arrêter le perçage avant que le taraud extracteur ne touche le boulon. Voir figure 2.
- Nettoyer le trou percé avec du dégrissant pour relâcher le boulon.
- Tourner le taraud extracteur vers le bout du foret de trois à quatre filetages.
- Maintenir fermement la perceuse à deux mains.
- Amener la vitesse de rotation de la perceuse comme indiqué à la figure 1B. Placer le foret dans le trou en appuyant sur la perceuse. Voir figure 3
- Le taraud extracteur s'engage et extrait automatiquement le boulon. Voir figure 4.
- Si le foret se bloque durant l'extraction, il est possible de le dégager manuellement. Laisser l'extracteur logé dans le boulon et le retirer de la perceuse.
- Vérifier si vous avez percé exactement au centre du boulon. Si oui utiliser une clé pour dévisser l'extracteur. Tourner dans le sens contraire des aiguilles d'une montre. Ne pas

mettre de pression excessive, vous pourriez endommager l'extracteur.

- S'il y a beaucoup de résistance en dévissant avec une clé, vous n'avez sans doute pas bien centré le perçage et l'extracteur a pénétré dans la pièce et dans ce cas vous êtes dans une situation impossible. Si cela se produit retirer l'extracteur en tournant dans le sens des aiguilles d'une montre. Vous aurez peut-être à percer et faire un nouveau filetage.
- Pour enlever l'extracteur du boulon, insérer le boulon dans un étai. Utiliser une clé ajustable et tourner le taraud extracteur dans le sens des aiguilles d'une montre. Si nécessaire serrer l'extrémité de l'extracteur dans un étai et enlever le taraud extracteur. L'extracteur est prêt à être utilisé.

#### Helpful Hints

- Centre punch before drilling to shock bolt.
- Penetrating oil or heat is effective on rusted or chemically bonded bolts.
- When bolt is broken below a flange, reverse collet to centre Drill-Out® as shown in Figure 4.

#### Conseils Pratiques

- Pointer le centre de boulon cassé avant le perçage.
- Chauffer ou utiliser de l'huile à dégripper, ceci est efficace contre la rouille et les dépôts chimiques.
- Lorsque le boulon est brisé sous une bride, inverser le taraud extracteur sur l'extracteur. Voir figure 4.

Drill-Out® Size Broken Bolt Size Boulon diamètre	3/8" Variable Speed Drill Perceuse à vitesse variable 3/8" Drilling à percer	Extracting L'extracteur
1/4" or 6mm 1/4" ou 6mm	700-800 RPM	350 RPM
5/16" or 8mm 5/16" ou 8mm	650-750 RPM	470 RPM
3/8" or 10mm 3/8" ou 10mm	600-700 RPM	840 RPM
1/2" or 12mm 1/2" ou 12mm	475-575 RPM	1400 RPM

FIGURE 1A

1A

1B

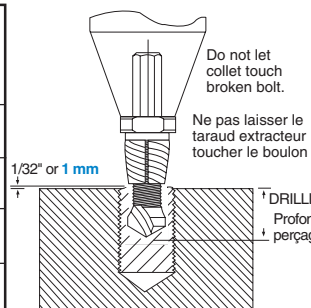


FIGURE 2 Drilling

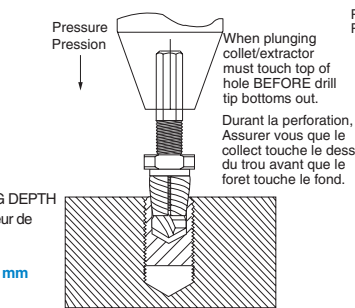


FIGURE 3 Plunging

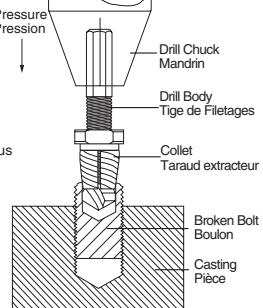


FIGURE 4 Extracting



### 876-1607

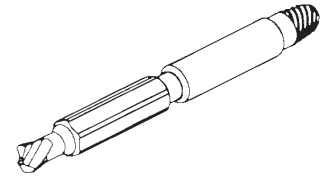
Micro Power Extractor Set

PKG QTY. 1

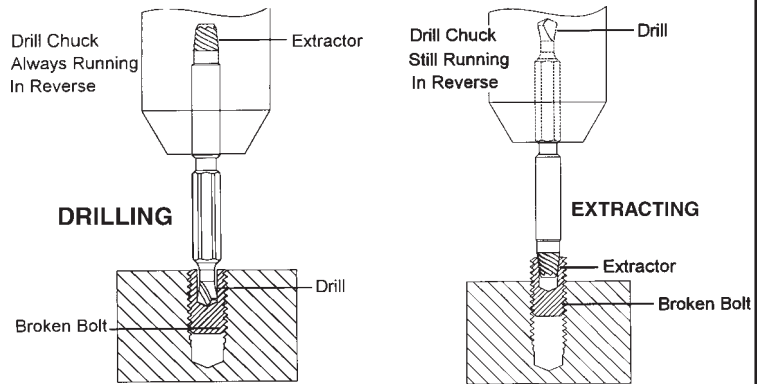
- Self Centering Drill Tip
- Short, Tough Drill Body
- Left Hand Cutting Edge
- Drill Bit and Extractor in One
- Easy, Time Saving Operation
- Drills Grade 8 (Class 10.9) Bolts

## THE DRILL-OUT® MICRO POWER EXTRACTOR

The DRILL-OUT® *Micro Power Extractor* has many of the same features as our larger extractors but its design is a bit different. Put the Micro tool into your reversible electric or battery powered drill, extractor side in, set it for reverse and drill your hole. Take the tool out, turn it around so that the drill side is inserted into the chuck and you have your extractor. Insert the extractor tip into the hole you just drilled and remove your broken screw. That's it! Fast, easy and dependable.



Individual Drill-Out® Micro Power Extractors	
SPAENAUR No.	To remove broken bolt or stud
876-1608	#5 & #6 or <b>M3</b>
876-1609	#8 or <b>M4</b>
876-1610	#10 or <b>M5</b>
876-1611	1/4" or <b>M6</b>
<b>PKG QTY. 1</b>	



## DRILL-OUT® 7 PIECE MASTER KIT

### 876-1784

A new full range kit with substantial savings, compared to buying two kits or individual sizes.



PKG QTY. 1

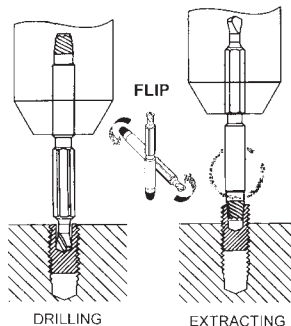
### Works on:

- most common fasteners: Grade 2 to 8, property classes 5.6 to 10.9 & stainless steel.
- Inch & **Metric** Sizes: 1/8" to 1/2" or **M3 to M12**.
- jagged, uneven or rough breaks; drill point eliminates walking, no centring tools are needed.
- confined work space; small design allows easy access.

DRILL-OUT® kit contains Spaenaur numbers 876-1608, 876-1609, 876-1610, 876-1611, 876-861, 876-862 and 876-863 as found at top of this page and on previous page.

### Micro Sizes

1/8" to 1/4" or **M3 to M6**

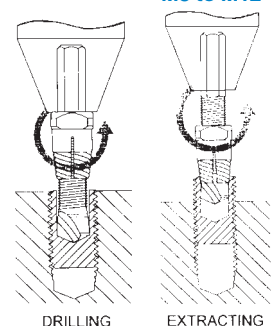


Drill Bit and Extractor in one.

1. Insert DRILL-OUT® into drill set for REVERSE.
2. Drills into broken bolt on centre.
3. Extracts using the POWER of the drill.

### Regular Sizes

5/16" to 1/2" or **M8 to M12**



## Screw and Pipe Extractors

Remove broken screws, bolts, threaded parts and pipe.



Drill a hole in broken part, insert extractor and turn to the left. Broken piece is extracted without damage to threads.

### Hi-Carbon Steel, Plain Finish

SPAENAUR No.	To Remove Diameter Screw	Diameter of Screw Extractor		Drill Size
		Shank	Point	
876-865	3/32" to 5/32"	1/8"	.060"	5/64"
876-866	5/32" to 7/32"	3/16"	.080"	7/64"
876-867	7/32" to 9/32"	1/4"	1/8"	5/32"
876-868	9/32" to 3/8" and 1/8" Pipe	5/16"	3/16"	1/4"
876-869	3/8" to 5/8" and 1/4" Pipe	7/16"	1/4"	17/64"
876-870	5/8" to 7/8" and 3/8" Pipe	5/8"	3/8"	13/32"
876-871	7/8" to 1-1/8" and 1/2" Pipe	7/8"	15/32"	17/32"
876-872	1-1/8" to 1-3/8" and 3/4" Pipe	1-1/32"	3/4"	13/16"
876-873	1-3/8" up and 1" Pipe	1-9/32"	1"	1-1/8"



## Screw and Pipe EXTRACTOR KIT

SPAENAUR No. **876-874**

Contains 5 Extractors in an attractive reusable pouch.

### Hi-Carbon Steel, Plain Finish

SPAENAUR No.	To Remove Diameter Screw	Diameter of Screw Extractor		Drill Size
		Shank	Point	
876-865	3/32" to 5/32"	1/8"	.060"	5/64"
876-866	5/32" to 7/32"	3/16"	.080"	7/64"
876-867	7/32" to 9/32"	1/4"	1/8"	5/32"
876-868	9/32" to 3/8" and 1/8" Pipe	5/16"	3/16"	1/4"
876-869	3/8" to 5/8" and 1/4" Pipe	7/16"	1/4"	17/64"

## SCREW/BOLT REMOVER SETS (With Left Hand Spiral Drills)

A unique combination of left hand spiral drills and bolt/screw extractors. Designed to quickly and easily remove a wide variety of broken studs. Left hand spiral drills often eliminate the need for bolt and screw extractor. Drill may loosen bolt stud with counter clockwise rotation. 135° split point drill will cut harder metals than a 118° point drill. Most broken studs are work hardened during the breaking process.



### SPAENAUR No. 876-1190

4 left hand Super Premium drill bits.  
 Sizes: 3/32", 1/8", 3/16" and 1/4".  
 4 bolt and screw extractors.  
 Sizes: 1, 2, 3 and 4.

Sets come in black metal index box with i.d. plate.

### SPAENAUR No. 876-1191

5 left hand Super Premium drill bits.  
 Sizes: 3/32", 1/8", 3/16", 1/4" and 5/16".  
 5 bolt and screw extractors.  
 Sizes 1, 2, 3, 4 and 5.

P



# While work is in progress... or at final inspection time...you need a Poc-Kit® Feeler Gauge Kit

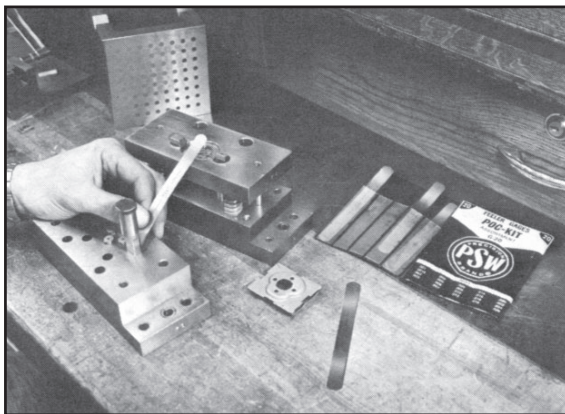
**SPAENAUR**  
No.  
**876-020**

PKG QTY.  
1 KIT

## TWENTY POPULAR THICKNESSES IN INCHES.

*.001	.004	.008	.014	.020
*.0015	.005	.009	.015	.022
*.002	.006	.010	.016	.024
*.003	.007	.012	.018	.025

\*.001-.003" inclusive is 1.125 carbon content  
One piece each thickness 1/2" x 5"

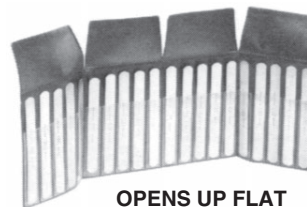


**CHECK IT**

Folds wallet-flat. Sturdy vinyl case with individual sleeves keeps gauges clean. Fits conveniently in your pocket. Contains 20 T-4 tolerance feeler gauges. Individual blades enable greater gauging accuracy. Most used thicknesses, from .001" to .025". Opens up flat, showing sizes instantly. Each blade 1/2" x 5" long. Sized for access to hard-to-reach areas. Replacement blades available.



**FOLDS WALLET FLAT**

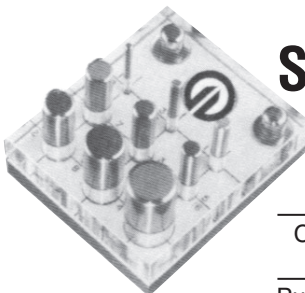


**OPENS UP FLAT**

POC-KIT® REPLACEMENT BLADES		
Thick-ness in Inches	Equivalent Thickness in mm	SPAENAUR No.
*.001"	.025	<b>876-050</b>
*.0015"	.038	<b>876-051</b>
*.002"	.051	<b>876-052</b>
*.003"	.076	<b>876-053</b>
.004"	.102	<b>876-054</b>
.005"	.127	<b>876-055</b>
.006"	.152	<b>876-056</b>
.007"	.179	<b>876-057</b>
.008"	.203	<b>876-058</b>
.009"	.229	<b>876-059</b>
.010"	.254	<b>876-060</b>
.012"	.305	<b>876-061</b>
.014"	.356	<b>876-062</b>
.015"	.381	<b>876-063</b>
.016"	.406	<b>876-064</b>
.018"	.457	<b>876-065</b>
.020"	.508	<b>876-066</b>
.022"	.559	<b>876-067</b>
.024"	.610	<b>876-068</b>
.025"	.635	<b>876-069</b>
* .001-.003" inclusive is 1.125 carbon content. <b>PKG QTY. 1</b>		



## Shim Stock Punch and Die Set



Description	SPAENAUR No.
Complete Punch and Die Set	<b>876-002</b>
Punches - complete sets only	<b>876-003</b>

SETS - PKG QTY. 1

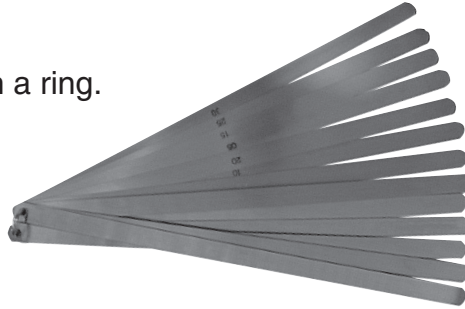
Sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4".

Next to your shop apron, you can't afford to be without one. Need gaskets, shims, washers, spacers, etc., from 1/8" to 3/4" diameter? Make them fast and accurately. All you need is the appropriate thickness, a hammer, flat surface, and our unique Punch and Die Set. Clear PLEXIGLAS® top lets you see where you're punching, for greater accuracy. Heat treated tool steel base. Case hardened punches, easily resharpened. Nine different sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", and 3/4". To use, mark centre lines on piece to be punched, and line up with centre lines of clear PLEXIGLAS® top. Hit punch with hammer. Cut rubber, plastic, brass, or mild steel to .025". Stainless steel and blue tempered steel to .010". Compact size: 3-1/16" x 3-9/16". Weighs 2 lbs. 4 oz.

## Feeler Gauge Sets

With **300 mm (12")** long blades on a ring.

### Metric Sets



SPAENAUR No.	Thicknesses in Set mm	O/A Lgth. mm	Width mm	No. of Blades	Material
<b>877-149</b>	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00 mm	300	13	13	Spring Steel
<b>877-287</b>	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00 mm	300	13	20	Spring Steel

PKG QTY. 1

## Metric Precision Thickness Feeler Gauge Sets

Tapered Blades in plated metal case.

Length of Blades **100 mm**



SPAENAUR No.	Thicknesses in Set mm	No. of Blades	Blade Material
<b>877-231</b>	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00 mm	13	Tool Steel
<b>877-185</b>	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00 mm	13	Brass
<b>877-145</b>	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00 mm	20	Tool Steel
<b>877-233</b>	0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00, 1.10, 1.20, 1.30, 1.40, 1.50, 1.60, 1.70, 1.80, 1.90, 2.00 mm	20	Tool Steel

PKG QTY. 1

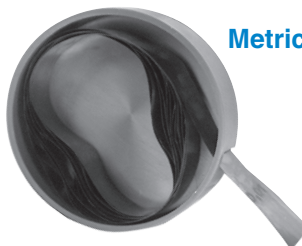
## Feeler Gauge Material

Roll is packaged in convenient round metal or plastic container up to **0.80 mm** thickness.

### SPRING STEEL

Each Roll is **13 mm** wide by **5 metres** long.

PKG QTY. 1



### Metric

SPAENAUR No.	Thick. mm
<b>877-230</b>	.005
<b>877-150</b>	.01
<b>877-151</b>	.02
<b>877-152</b>	.03
<b>877-153</b>	.04
<b>877-154</b>	.05
<b>877-155</b>	.06
<b>877-156</b>	.07
<b>877-157</b>	.08
<b>877-158</b>	.09
<b>877-159</b>	.10

SPAENAUR No.	Thick. mm
<b>877-161</b>	.12
<b>877-162</b>	.15
<b>877-235</b>	.20
<b>877-164</b>	.25
<b>877-165</b>	.35
<b>877-167</b>	.45
<b>877-168</b>	.50

SPAENAUR No.	Thick. mm
<b>877-170</b>	.55
<b>877-171</b>	.60
<b>877-172</b>	.65
<b>877-173</b>	.70
<b>877-174</b>	.75
<b>877-175</b>	.80
<b>877-176</b>	.85
<b>877-177</b>	.90
<b>877-178</b>	.95
<b>877-179</b>	1.00



### POCKET-SLIDE-CALIPER of Rust-Proofed Tool Steel

**SPAENAUR  
No.  
877-529**

This pocket-slide-caliper type »Columbus« has been manufactured in accordance with the very latest production methods. The component parts are fine punched, all surfaces are ground and free of sharp edges.

- Anti-glare matt finished measuring parts.
- Rustproofed by phosphated surfaces.
- Exactly at favourable prices.

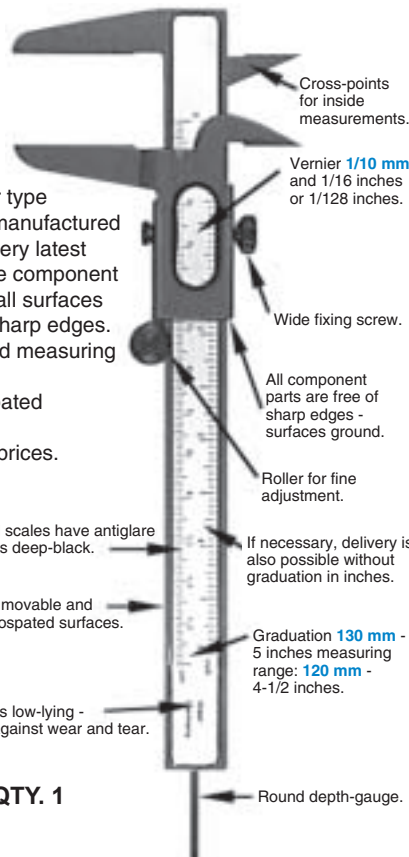
Reliable readings - all scales have antiglare matt finish graduations deep-black.

Good handling - movable and agreeable by phosphated surfaces.

Scale:  
5"  
120 mm

Graduations low-lying - protected against wear and tear.

PKG QTY. 1



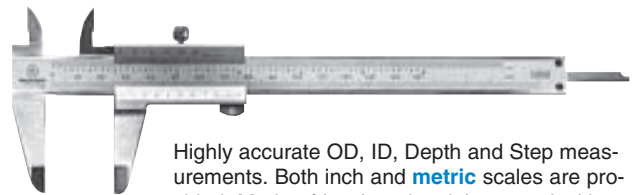
### POCKET VERNIER CALIPERS

**SPAENAUR No. 877-139 PKG QTY. 1**



Both inch and metric scales are provided.  
Made of brass - plain finish.  
Measuring capacity **100 mm** and 4 inches.  
Length of jaws **25 mm**.

**SPAENAUR No. 877-1321 PKG QTY. 1**



Highly accurate OD, ID, Depth and Step measurements. Both inch and **metric** scales are provided. Made of hardened stainless steel with a satin-chrome finish.

Measuring capacity **150 mm** and 6 inches.

### Metric No. 2

### The Complete System for Identifying Metric Screws

**SPAENAUR No.  
877-202  
SCREW-CHEK'R**  
of Steel,  
Satin-Chrome  
Plated

For Metric Sizes  
**8 mm thru 14 mm**

Clearly and  
Vividly Marked

SIZE: 5-1/4" x 5" x 3/32"

PKG QTY. 1

FIRST CHOICE		SECOND CHOICE	THIRD CHOICE	INCH DIA.	COARSE	MEDIUM	FINE	FINE
MM DIAMETER		MM DIAMETER		MM PITCH				
8	0	9		.315	1.25	1.	.75	
10	X	11		.354	1.25	1.	.75	
12		14		.394	1.5	1.25	1.	
				.433	1.5	1.	.75	
				.472	1.75	1.5	1.25	1.
				.551	2.	1.5	1.25	

TELLS:

- A LENGTH (in millimetres)
- B TAP SERIES
- C ISO PREFERENCE RATING
- D SIZE (in millimetres)
- E PITCH (in millimetres)
- F CLEARANCE DRILL SIZE
- G TAP DRILL SIZE
- H BASIC DIAMETER (in inches)



877-182

# THREAD PITCH GAUGES



877-183

For the simple and quick checking of internal and external threads.  
Threads per inch for imperial and thread pitch for **metric** are stamped on each blade.

## INCH SIZE

**SPAENAUR No. 876-857** 60° Screw Pitch

14 Blades to measure:

For Sizes: 10,11,12,13,14,16,18,20,24,27,28,32,36,40 threads per inch.

## METRIC

**SPAENAUR No. 877-204** 60° Screw Pitch

24 Blades to measure:

0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1.0, 1.25, 1.5, 1.75, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5 and 6.0 mm threadpitch.

## AMERICAN

**SPAENAUR No. 876-894** 60° Screw Pitch

52 Blades to measure:

84, 82, 80, 78, 76, 74, 72, 70, 68, 66, 64, 62, 60, 58, 56, 54, 52, 50, 48, 46, 44, 42, 40, 38, 36, 34, 32, 30, 28, 27, 25, 24, 22, 20, 18, 17, 16, 15, 14, 13, 12, 11.5, 11, 10, 9, 8, 7, 6, 5.5, 5, 4.5, and 4 threads per inch.

## BRITISH WHITWORTH

### BS 84

**SPAENAUR No. 877-182** 55° Screw Pitch

28 Blades to measure:

62G, 60G 1/16", 48G 3/32", 40G 1/8", 36G, 32G 5/32", 30G, 28G, 26G, 25G, 24G 3/16 7/32", 22G, 20G 1/4", 19G, 18G 5/16", 16G 3/8", 14G 7/16", 13G, 12G, 11G 5/8", 10G 3/4", 9G 7/8", 8G 1", 7G 1-1/8 1-1/4", 6G 1-3/8 1-1/2", 5G 1-5/8 1-3/4", 4-1/2G 1-7/8" and 4G 2-1/4 2-1/2".

## BRITISH WHITWORTH and ISO METRIC

**SPAENAUR No. 877-183**

ISO and Whitworth combination

60° Screw Pitch - ISO 55° Screw Pitch - Whitworth  
52 Blades to measure:

## METRIC

0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1.0, 1.25, 1.5, 1.75, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5 and 6.0 mm thread pitch.

## WHITWORTH

62G, 60G 1/16", 48G 3/32", 40G 1/8", 36G, 32G 5/32", 30G, 28G, 26G, 25G, 24G 3/16 7/32", 22G, 20G 1/4", 19G, 18G 5/16", 16G 3/8", 14G 7/16", 13G, 12G, 11G 5/8", 10G 3/4", 9G 7/8", 8G 1", 7G 1-1/8 1-1/4", 6G 1-3/8 1-1/2", 5G 1-5/8 1-3/4", 4-1/2G 1-7/8 2" and 4G 2-1/4 2-1/2".

## UNC

**SPAENAUR No. 877-184** 60° Screw Pitch

22 Blades to measure:

64, 56, 48, 40, 32, 24, 22, 20, 18, 16, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4.5 and 4 threads per inch.

## U.S.

**SPAENAUR No. 877-293** 60° Screw Pitch

30 Blades to measure:

42, 40, 38, 36, 34, 32, 30, 28, 27, 26, 24, 22, 20, 18, 16, 15, 14, 13, 12, 11.5, 11, 10, 9, 8, 7, 6, 5.5, 5, 4.5 and 4 threads per inch.

All Thread Pitch Gauges **PKG QTY. 1**

## Lufkin® Inch Tape Measure

Light weight, high strength, contour grip case fits comfortably in hand.

Hi-Viz® Orange color makes tape easy to locate.

Unique slide lock design allows for easy control of tape blade.

Extra wide base width helps keep tape standing upright.

Removable belt clip.

Fits easily in most tape holsters.



Spaenaur No.

**876-1831** 25' x 1"

**876-1832** 16' x 3/4"

**PKG QTY. 1**

**INCH**

**SPAENAUR No. 876-750**

For American and Unified Screws from No. 1 thru 5/16". Also identifies wood screws, sheet metal screws, self-tapping screws, rivets and cotter pins.

SIZE:  
5-1/8" x 3" x 3/32"

PKG QTY. 1

**SCREW CHEK'R** INCH

FOR INCH SCREWS NO. 1 THRU 5/16  
**SPAENAUR No. 876-750**

SIZE	IN	UNC	TAP	IN	F	TAP	IN	F	TAP	DIA
DRILLS → 1	48	64	72	53	53					.073
DRILLS → 2	43	56	64	51	50					.085
DRILLS → 3	32	48	56	47	45					.099
DRILLS → 4	33	40	48	43	42					.112
DRILLS → 5	8	40	44	39	37					.125
DRILLS → 6	32	28	36	26	25					.138
DRILLS → 7	18	32	36	29	28					.164
DRILLS → 8	15	24	32	24	23					.190
DRILLS → 9	12	24	28	21	20					.216
DRILLS → 10	10	24	25	16	14					.250
DRILLS → 11	8	20	28	14	13					
DRILLS → 12	7	16	24	12	11					
DRILLS → 13	6	14	20	10	9					
DRILLS → 14	5	12	16	8	7					
DRILLS → 15	4	10	14	6	5					
DRILLS → 16	3	8	12	4	3					
DRILLS → 17	2	6	10	3	2					
DRILLS → 18	1	4	8	2	1					
DRILLS → 19	1	3	6	1	1					
DRILLS → 20	1	2	4	1	1					
DRILLS → 21	1	1	3	1	1					
DRILLS → 22	1	1	2	1	1					
DRILLS → 23	1	1	1	1	1					
DRILLS → 24	1	1	1	1	1					
DRILLS → 25	1	1	1	1	1					
DRILLS → 26	1	1	1	1	1					
DRILLS → 27	1	1	1	1	1					
DRILLS → 28	1	1	1	1	1					
DRILLS → 29	1	1	1	1	1					
DRILLS → 30	1	1	1	1	1					
DRILLS → 31	1	1	1	1	1					
DRILLS → 32	1	1	1	1	1					
DRILLS → 33	1	1	1	1	1					
DRILLS → 34	1	1	1	1	1					
DRILLS → 35	1	1	1	1	1					
DRILLS → 36	1	1	1	1	1					
DRILLS → 37	1	1	1	1	1					
DRILLS → 38	1	1	1	1	1					
DRILLS → 39	1	1	1	1	1					
DRILLS → 40	1	1	1	1	1					
DRILLS → 41	1	1	1	1	1					
DRILLS → 42	1	1	1	1	1					
DRILLS → 43	1	1	1	1	1					
DRILLS → 44	1	1	1	1	1					
DRILLS → 45	1	1	1	1	1					
DRILLS → 46	1	1	1	1	1					
DRILLS → 47	1	1	1	1	1					
DRILLS → 48	1	1	1	1	1					
DRILLS → 49	1	1	1	1	1					
DRILLS → 50	1	1	1	1	1					
DRILLS → 51	1	1	1	1	1					
DRILLS → 52	1	1	1	1	1					
DRILLS → 53	1	1	1	1	1					
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DRILLS → 55	1	1	1	1	1					
DRILLS → 56	1	1	1	1	1					
DRILLS → 57	1	1	1	1	1					
DRILLS → 58	1	1	1	1	1					
DRILLS → 59	1	1	1	1	1					
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DRILLS → 61	1	1	1	1	1					
DRILLS → 62	1	1	1	1	1					
DRILLS → 63	1	1	1	1	1					
DRILLS → 64	1	1	1	1	1					
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DRILLS → 66	1	1	1	1	1					
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DRILLS → 68	1	1	1	1	1					
DRILLS → 69	1	1	1	1	1					
DRILLS → 70	1	1	1	1	1					
DRILLS → 71	1	1	1	1	1					
DRILLS → 72	1	1	1	1	1					
DRILLS → 73	1	1	1	1	1					
DRILLS → 74	1	1	1	1	1					
DRILLS → 75	1	1	1	1	1					
DRILLS → 76	1	1	1	1	1					
DRILLS → 77	1	1	1	1	1					
DRILLS → 78	1	1	1	1	1					
DRILLS → 79	1	1	1	1	1					
DRILLS → 80	1	1	1	1	1					
DRILLS → 81	1	1	1	1	1					
DRILLS → 82	1	1	1	1	1					
DRILLS → 83	1	1	1	1	1					
DRILLS → 84	1	1	1	1	1					
DRILLS → 85	1	1	1	1	1					
DRILLS → 86	1	1	1	1	1					
DRILLS → 87	1	1	1	1	1					
DRILLS → 88	1	1	1	1	1					
DRILLS → 89	1	1	1	1	1					
DRILLS → 90	1	1	1	1	1					
DRILLS → 91	1	1	1	1	1					
DRILLS → 92	1	1	1	1	1					
DRILLS → 93	1	1	1	1	1					
DRILLS → 94	1	1	1	1	1					
DRILLS → 95	1	1	1	1	1					
DRILLS → 96	1	1	1	1	1					
DRILLS → 97	1	1	1	1	1					
DRILLS → 98	1	1	1	1	1					
DRILLS → 99	1	1	1	1	1					
DRILLS → 100	1	1	1	1	1					

"TELLS"

A LENGTH

B TAP SERIES

C SIZE (Both Number & Fractional)

D THREADS PER INCH

E CLEARANCE DRILL SIZE

F TAP DRILL SIZE

G BASIC DIAMETER

**SCREW CHEK'R**

Clearly and Vividly Marked

INCLUDES:

- Instructions for use and cutting, straightening, cleaning screws.
- Chart of common screw types.
- Chart of decimal equivalents of wire, letter and fractional size drills.

Material: STEEL, Satin-Chrome Plated

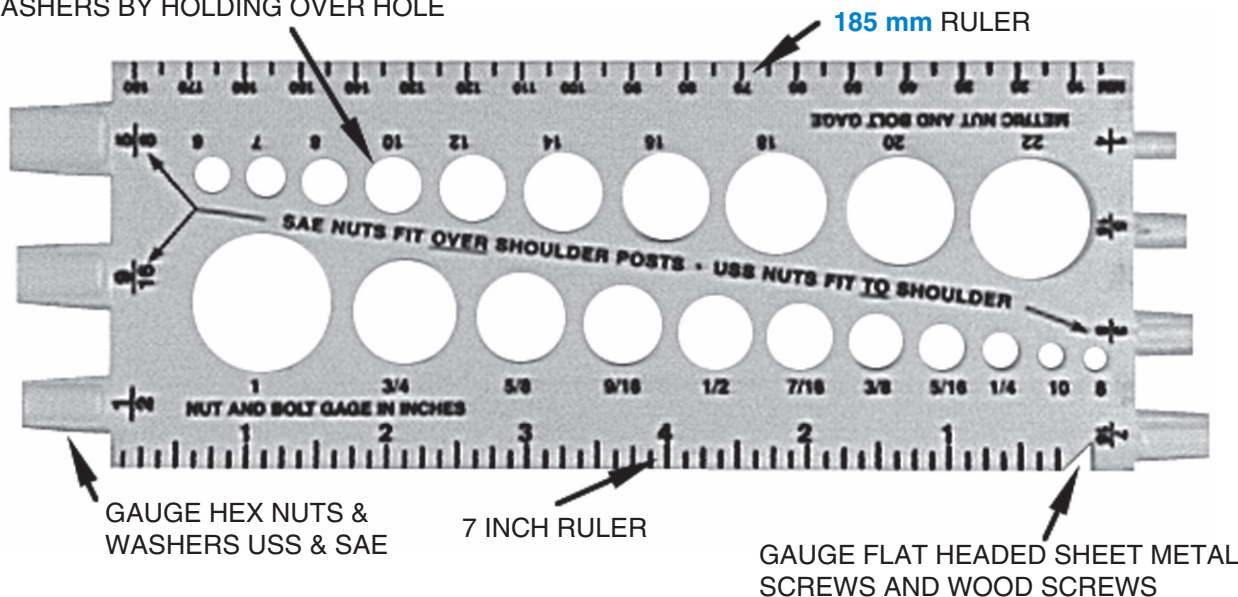
**COMBINATION BOLT, HEX NUT & WASHER SIZER**

U.S.S., S.A.E. and METRIC

SPAENAUR No. 877-C04-1W

PKG QTY. 1

GAUGE METRIC HEX NUTS & WASHERS BY HOLDING OVER HOLE



Moulded of Polystyrene, a hard, tough plastic

# DUAL PURPOSE SCREW GAUGE

**SPAENAUR No. 877-500**

### Front Face – Inch

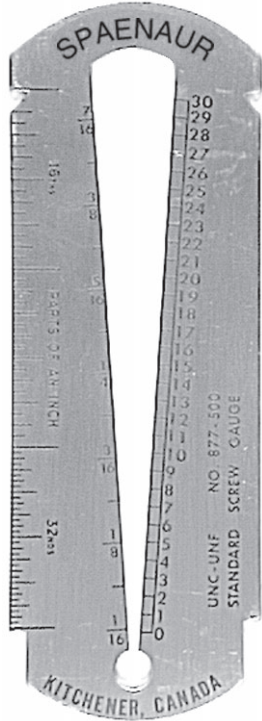
For identifying gauges and length of screws with **UNC and UNF Threads**, from 0 to 30 gauge, and lengths up to 3".

### Back Face – Metric

For identifying gauges and lengths of screws with **METRIC Threads**, from **1 mm to 12 mm** dia. and lengths up to **75 mm**.

Made of Aluminum (57S hard), bright, etched in black and clear lacquered.

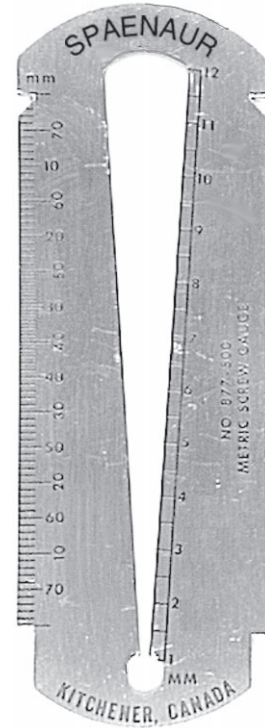
An indispensable tool for use of stock-keepers, mechanics, salespeople, etc.



**INCH**  
Front  
of  
Gauge

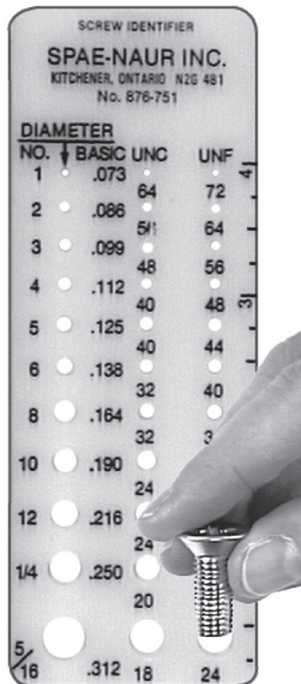
PKG QTY. 1

**METRIC**  
Back  
of  
Gauge



## INCH SCREW IDENTIFIER It's Threaded

**SPAENAUR No. 876-751**



Small in size for shirt pocket carrying yet practical in utility to identify all popular "INCH SYSTEM" machine screws. Tells you size, basic diameter and pitch of UNC & UNF machine screw from number 1 thru 5/16".

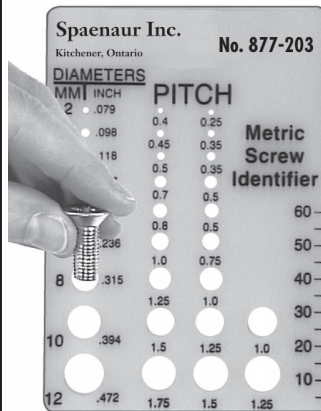
SIZE:  
5-1/8" x 1-7/8" x 1/8"

PKG QTY. 1

Manufactured in **White HI-IMPACT POLYETHYLENE** for long life.

## METRIC SCREW IDENTIFIER It's Threaded!

**SPAENAUR No. 877-203**



Small in size for shirt pocket carrying, yet practical in utility to identify I.F.I. metric machine screws. Tells you size, basic diameter and pitch of I.F.I. machine screws from **2 mm thru 12 mm**.

**A PRACTICAL & USEFUL TOOL!**

Manufactured in **White HI-IMPACT POLYETHYLENE** for long life.

SIZE: **123 mm x 89 mm x 3.5 mm**

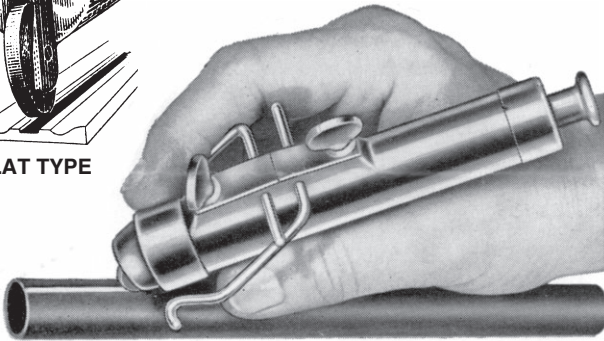
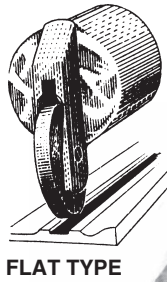
PKG QTY. 1

P

CATALOG 14

SPAENAUR

## AUTOMOTIVE AND INDUSTRIAL STRIPING



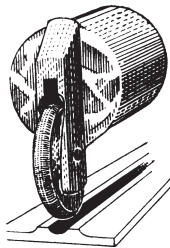
FOR EVERY PURPOSE WHERE A PERFECT STRIPE IS NEEDED

NO CLOGGING - NO DRIP - SIMPLE - EASY TO CLEAN

APPLICATION OF ADHESIVE MATERIALS

IDENTIFICATION MARKING...

DECORATIVE STRIPING...



Spaenaur No.

### B-148J JUMBO STRIPER KIT

Furnished complete with Double Guide Holder, 3 Guides, 2 Wheel Heads sizes 95 and 235, and 1 Cleaning Brush. Length overall approx. 8-3/4". Barrel Diameter 1-1/8".

Note: The included Wheel Heads are all "Flat Type".

### FULL RANGE OF STRIPER WHEEL HEADS AVAILABLE SEPARATELY

Inches	1/64	1/32	3/64	1/16	3/32
mm	.4	.8	1.3	1.7	2.3
Inches	7/64	1/8	5/32	3/16	1/4
mm	2.8	3.2	4.0	4.8	6.3

#### FLAT STYLE WHEEL HEADS

#### CONVEX STYLE WHEEL HEADS

STRIPE WIDTH		Spaenaur No.		STRIPE WIDTH		Spaenaur No.	
Inch	mm	WHEEL HEAD NO. FOR B-148A	WHEEL HEAD NO. FOR B-148J	Inch	mm	WHEEL HEAD NO. FOR B-148A	WHEEL HEAD NO. FOR B-148J
1/64	.4	B-148A-16	-	1/64	.4	-	-
1/32	.8	B-148A-25	-	1/32	.8	-	-
3/64	1.3	B-148A-43	-	3/64	1.3	876-010	-
1/16	1.7	B-148A-57	-	1/16	1.7	876-011	-
3/32	2.3	B-148A-73	-	3/32	2.3	876-012	-
7/64	2.8	B-148A-93	B-148J-95	7/64	2.8	-	876-013
1/8	3.2	B-148A-115	B-148J-120	1/8	3.2	-	876-026
5/32	4.0	-	B-148J-140	5/32	4.0	-	876-027
1/4	6.3	-	B-148J-235	1/4	6.3	-	876-029

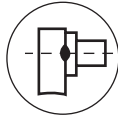
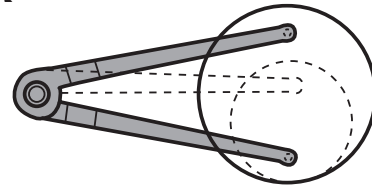
All items on this page PKG QTY. 1

### AMF PIN-TYPE FACE SPANNER


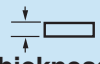
For round nuts with drilled holes in face.

**TOOL STEEL — Black Finish**

With spot welded pins



All dimensions in millimetres

SPAENAU No.	 Nom. Size	Pin Dia.	Pin Lgth.	O/A Length	 Thickness
877-867	7-40	2.0	3.6	115	3.0
877-868	11-60	4.0	5.0	160	4.0
877-869	14-100	6.0	7.0	215	6.0
877-870	22-125	8.0	8.0	260	6.0
877-871	22-125	10.0	10.0	260	6.0

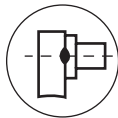
PKG QTY. 1

### AMF HINGED PIN-TYPE FACE SPANNER


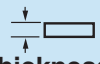
For round nuts with drilled holes in face.

**TOOL STEEL — Black Finish**

With spot welded pins



All dimensions in millimetres

SPAENAU No.	 Nom. Size	Pin Dia.	Pin Lgth.	O/A Length	 Thickness
877-872	18-40	3.0	4.0	150	5.0
877-873	40-80	4.0	5.0	220	6.0
877-874	80-125	6.0	7.0	295	8.0
877-1483	125-200	8.0	8.0	405	10.0

PKG QTY. 1

*The Hinge and Adjustable Pin-type Face Spanners on this page are not hardened but tempered, so there can be no brittle fractures caused by overstress.*


## AMF AMF HINGE-TYPE PIN SPANNER



For round nuts with pin holes according to DIN 1816

For grooved nuts  
TOOL STEEL — Black Finish

All dimensions in millimetres

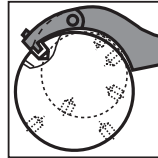
SPAENAUR No.	 Nom. Size	Pin Dia.	Overall Length
877-258	20-35	2.5	135
877-253	20-35	3.0	135
877-254	35-60	4.0	175
877-259	60-90	5.0	250
877-256	90-155	8.0	290


## AMF HINGE-TYPE PIN SPANNER Replaceable Pins and Head Assemblies



For round nuts with pin holes according to DIN 1816  
(To be discontinued as present stock is sold.)

Replacement  
Pin With Nut




SPAENAUR No.	 Nom. Size	Pin Dia. ØD	L	M
877-857	20-35	3.0	3.0	2.0
877-858	20-35	4.0	4.0	2.0
877-859	35-60	4.0	4.0	3.5
877-860	35-60	5.0	5.0	3.5
877-861	60-90	5.0	5.0	4.0
877-862	60-90	6.0	6.0	4.0
877-864	90-155	8.0	8.0	5.0

## AMF HINGE-TYPE HOOK SPANNER

For round nuts with pin holes according to DIN 1816



HARDENED AND BLUED STEEL


SPAENAUR No.	 Nom. Size	Pin Dia.	Overall Length
877-1472	16-22	2.5	135
877-1473	22-35	3	165
877-1474	35-60	4	205
877-1475	60-90	6	280
877-1476	95-155	6	335
877-1477	165-230	10	460

## AMF HINGED HOOK WRENCH

For grooved nuts to DIN 1804 and bearing nuts to DIN 981



HARDENED AND BLUED STEEL


SPAENAUR No.	 Nom. Size	Overall Length
877-1478	20-35	165
877-1479	35-60	210
877-1480	60-90	280
877-1481	90-155	335
877-1482	155-230	460

## KNIPEX - 'Cobra' Patented

(Pipe grip and spanner in one)



876-1203

- With box joint 
- A new generation of water pump pliers, for easier and more secure work
- Press button action for fast and firm adjustment directly on the work
- Selected jaw opening is positively ensured
- 11-position adjustment
- 400 mm 'cobra' with 15-position adjustment
- One hand adjustment
- The guard prevents operators' fingers being pinched
- Gripping surfaces parallelogram-shaped with special hardened teeth
- Hardness of jaws approx. 56 hrc
- Self-gripping on pipes and nuts
- Material: chrome vanadium electric steel, oil-hardened

SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Working Ø Cap. for pipes (dia.) inch	for nuts (across flats)		Wt. g
		mm	inch				mm	inch	
876-1202	8701180	180	7"	polished	plastic-coated	1/8" - 1-1/4"	6 - 30	1/4" - 1-3/16"	170
876-1657	8701250	250	10"			1/8" - 1-5/8"	6 - 36	1/4" - 1-7/16"	300
876-1203	8701300	300	12"			1/8" - 2"	7 - 48	9/32" - 1-7/8"	545
876-1204	8701400	400	15-1/2"			1/8" - 3"	10 - 65	3/8" - 2-9/16"	1000

PKG QTY. 1 - All items on this page

P: 1-800-265-8772 F: 1-888-252-6380 [service@spaenaur.com](mailto:service@spaenaur.com)

P85

**AMF HOOK SPANNER****DIN 1810 A**

For slotted round nuts to DIN 1804

TOOL STEEL — Black Finish

All dimensions in millimetres

SPAENAUR No.	Nom. Size	Overall Length	Thickness
877-876	12-14	110	3.0
877-C07-1A	16-20	110	3.0
877-878	25-28	136	4.0
877-879	30-32	136	4.0
877-880	34-36	170	5.0
877-881	40-42	170	5.0
877-882	45-50	206	6.0
877-883	52-55	206	6.0
877-884	58-62	242	7.0
877-885	68-75	242	7.0
877-886	80-90	280	8.0
877-887	95-100	280	8.0
877-888	110-115	335	10.0
877-889	120-130	335	10.0
877-890	135-145	385	10.0
877-891	155-165	385	10.0
877-892	180-195	470	10.0
877-893	205-220	470	10.0
877-894	230-245	560	10.0
877-289	260-270	568	10.0
877-290	280-300	680	16.0

**DIN 1810 B****AMF PIN SPANNER**

For round nuts with pin holes according to DIN 1816

All dimensions in millimetres

SPAENAUR No.	Nom. Size	Overall Length	Pin Dia.	Thickness
877-895	12-14	110	2.0	3.0
877-896	16-18	110	2.5	3.0
877-897	20-22	110	2.5	3.0
877-898	25-28	136	3.0	4.0
877-899	30-32	136	4.0	4.0
877-900	34-36	170	4.0	5.0
877-901	40-42	170	4.0	5.0
877-902	45-50	205	5.0	6.0
877-903	52-55	205	5.0	6.0
877-904	58-62	240	5.0	7.0
877-905	68-75	240	6.0	7.0
877-906	80-90	280	6.0	8.0
877-907	95-100	280	8.0	8.0
877-908	110-115	335	8.0	10.0
877-909	120-130	335	8.0	10.0
877-910	135-145	380	8.0	10.0
877-911	155-165	380	8.0	10.0
877-912	180-195	470	10.0	10.0
877-913	205-220	470	10.0	10.0

TOOL STEEL — Black Finish





**DIN 6368**

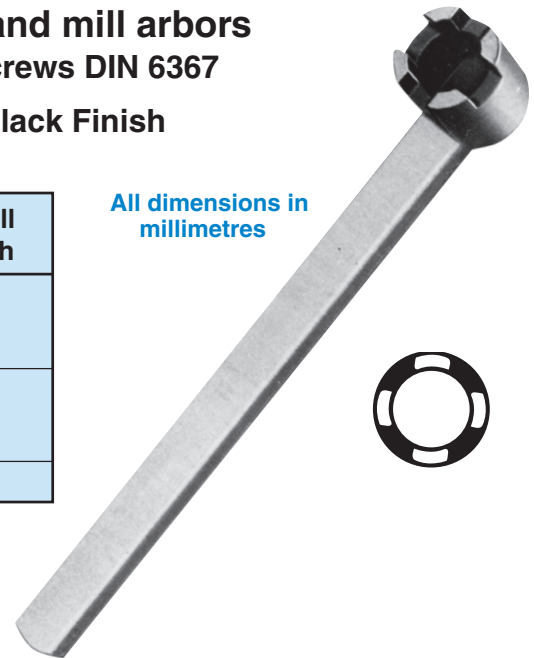
## Metric AMF Socket Wrench

**SPANNER** for shell and mill arbors  
for cutter retaining screws DIN 6367

**TOOL STEEL — Black Finish**

SPAENAUR No.	*Nom. Size			Thread Dia.	Overall Length
877-836	13	13		M6	160
877-837	16	16		M8	180
877-839	22	22		M10	200
877-840	27	27		M12	225
877-841	32	32		M16	250
877-842	40	40		M20	280
877-844	60	60		M30	355

All dimensions in millimetres



\* Nominal size refers to the dia. of arbor.

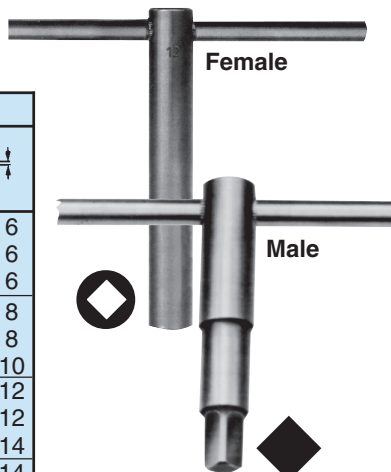
## Metric AMF Square Drive Wrench with T-handle

Female

**DIN 904L**  
Long Series

**\*DIN 904**  
Short Series

FEMALE (For External Series)			
SPAENAUR No.	Nom. Size A/F		
▲877-460	5	120 x 12	160 x 6
▲877-461	6	160 x 12	160 x 6
*877-228	6	80 x 12	160 x 6
▲877-462	8	160 x 16	180 x 8
▲877-463	9	200 x 18	200 x 8
▲877-464	10	200 x 20	200 x 10
877-465	12	200 x 24	250 x 12
877-466	13	200 x 24	250 x 12
877-467	14	200 x 28	320 x 14
*877-229	14	120 x 28	320 x 14
877-468	17	250 x 34	400 x 16
877-469	19	320 x 36	400 x 16



Male

**DIN 905**

MALE (For Internal Series)			
SPAENAUR No.	Nom. Size A/F		
877-470	5	60 x 12	160 x 6
877-484	6	80 x 12	160 x 6
▲877-485	7	80 x 16	180 x 8
877-486	8	80 x 16	180 x 8
877-487	9	80 x 16	180 x 8
877-488	10	100 x 20	200 x 10
877-489	11	100 x 20	200 x 10
877-490	12	100 x 24	250 x 12
877-491	13	100 x 24	250 x 12
877-492	14	120 x 28	320 x 14
877-493	17	160 x 34	400 x 16
877-494	19	200 x 36	400 x 16
877-495	22	200 x 42	630 x 20


▲ **TOOL STEEL**  
**Black Finish**

Not to DIN

All dimensions in millimetres

All items on this page PKG QTY. 1

### Hex Nut Driver with yellow plastic handle


SPAENAUR No.		Blade Length	Handle Length
877-361	3.0	125	90
877-362	3.5	125	90
877-363	4.0	125	90
877-364	4.5	125	90
877-365	5.0	125	90
877-C06-1X	5.5	125	90
877-368	7.0	125	90

All dimensions  
in millimetres

Steel Shaft  
Nickel-Plated

PKG QTY. 1



SPAENAUR No.		Blade Length	O/A Length
877-266	5.5	125	151
877-267	6.0	125	151
877-268	7.0	125	151
877-269	8.0	125	151
877-278	8.0	230	256
877-270	10.0	125	151
877-279	10.0	230	256
877-271	11.0	125	151
877-280	12.0	350	376
877-273	13.0	125	151
877-281	13.0	230	256
877-282	14.0	350	376
877-276	16.0	125	151
877-277	17.0	125	151



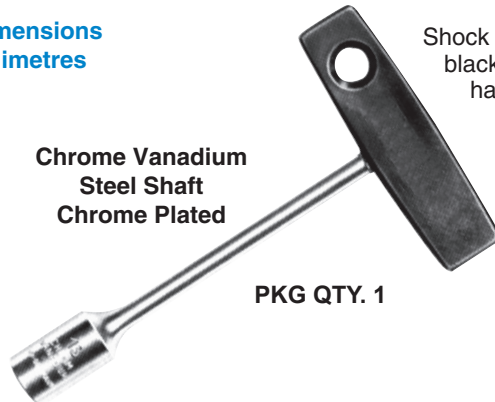
### AMF Hex Nut Driver with T-handle

All dimensions  
in millimetres

Shock Resistant  
black plastic  
handle.

Chrome Vanadium  
Steel Shaft  
Chrome Plated

PKG QTY. 1



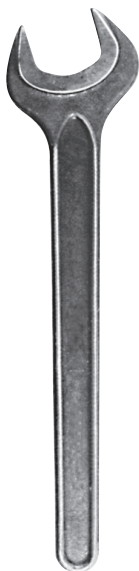
More Hex Nut Drivers found on P21.

See Page N14-15 for More Torx Drivers

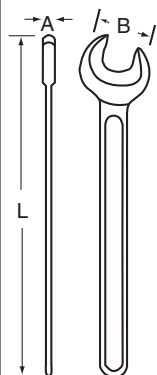


### Single Open-End Wrench

TOOL STEEL - Black Finish



Jaw angle 15°



PKG QTY. 1

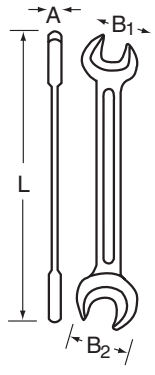
SPAENAUR No.	AF	L mm	A mm	B mm
877-799	6	75	3.2	15.5
877-800	7	80	3.2	17.5
877-801	8	95	3.5	19.0
877-802	9	100	4.0	20.5
877-803	10	105	4.5	22.0
877-804	11	110	5.0	24.0
877-805	12	125	5.0	26.5
877-806	13	130	5.5	28.5
877-807	14	140	5.5	30.0
877-808	15	145	5.5	32.0
877-809	16	145	5.5	33.0
877-810	17	160	6.0	36.0
877-288	18	160	6.0	36.0
877-811	19	170	7.0	40.0
877-812	22	195	8.0	46.0
877-813	24	215	9.0	50.0
877-721	25	215	9.0	52.0
877-814	27	240	10.0	56.0
877-815	30	260	11.0	62.0
877-816	32	275	12.0	66.0
877-722	38	305	13.0	74.0
877-818	41	345	14.0	84.0
877-819	46	380	15.0	94.0
877-820	50	415	16.0	102.0
877-821	55	460	17.0	112.0
877-822	60	495	18.0	122.0
877-823	65	530	19.0	132.0
877-824	70	575	20.0	142.0
877-825	75	610	21.0	152.0
877-826	80	645	22.0	162.0
877-827	85	690	23.0	172.0
877-828	90	740	25.0	192.0
877-829	95	740	25.0	192.0
877-830	100	800	26.0	201.0
877-831	105	850	28.0	220.0
877-832	110	900	28.0	220.0
877-833	115	960	28.0	220.0
877-834	120	990	30.0	242.0

### Double Open-End Wrench

TOOL STEEL - Black Finish



Jaws angle 15°



PKG QTY. 1

SPAENAUR No.	AF	L mm	A mm	B1 mm	B2 mm
877-758	6 x 7	96	3.3	15.5	17.0
877-760	8 x 9	108	4.0	19.0	20.5
877-761	8 x 10	115	4.5	19.0	22.0
877-763	9 x 11	124	5.0	20.0	24.0
877-764	10 x 11	124	5.0	22.0	24.0
877-765	10 x 13	140	5.5	22.0	28.5
877-768	12 x 13	140	5.5	26.5	28.5
877-769	12 x 14	140	5.5	26.5	30.0
877-770	13 x 14	140	5.5	28.5	30.0
877-771	13 x 15	155	5.5	28.5	32.0
877-772	13 x 17	160	6.0	28.5	36.0
877-773	14 x 15	155	5.5	30.0	32.0
877-774	14 x 17	160	6.0	30.0	36.0
877-775	16 x 17	160	6.0	33.0	36.0
877-719	16 x 18	170	6.5	33.0	38.0
877-776	17 x 19	175	7.0	36.0	40.0
877-777	17 x 22	195	8.0	36.0	46.0
877-778	18 x 19	175	7.0	38.0	40.0
877-720	18 x 21	195	8.0	38.0	44.0
877-C12-1C	19 x 22	195	8.0	40.0	46.0
877-780	19 x 24	205	9.0	40.0	50.0
877-781	20 x 22	195	8.0	42.5	46.0
877-782	21 x 23	220	9.0	44.0	49.0
877-783	22 x 24	220	9.0	46.0	50.0
877-784	22 x 27	235	10.0	46.0	56.0
877-785	24 x 27	245	10.0	50.0	56.0
877-786	24 x 30	265	11.0	50.0	62.0
877-787	25 x 28	245	10.0	53.0	58.0
877-788	27 x 32	275	12.0	56.0	66.0
877-C13-1N	30 x 32	275	12.0	62.0	66.0
877-790	30 x 36	305	13.0	62.0	74.0
877-792	36 x 41	345	14.0	74.0	84.0
877-793	41 x 46	380	15.0	84.0	94.0
877-794	46 x 50	420	16.0	94.0	102.0
877-795	50 x 55	460	17.0	102.0	112.0
877-796	55 x 60	500	18.0	112.0	122.0
877-797	65 x 70	580	20.0	132.0	142.0
877-798	75 x 80	660	22.0	152.0	162.0



### AMF Double Open-End Wrench - EXTRA THIN

Purchase as a Set or Individually.

Contents of Set - 1 of each Wrench Listed Below



**6-Piece Set**  
**SPAENAUR Set No. 877-453**  
**Steel Chrome Vanadium**  
**Hardened and Nickel-Plated**

Supplied in a plastic wallet.

SPAENAUR No.	AF	Overall Length	Thickness
877-454	3 x 3.5	120	1.5
877-455	4 x 4.5	120	1.5
877-456	5 x 5.5	120	1.5
877-457	6 x 6.5	120	1.5
877-458	7 x 8	125	2.0
877-459	9 x 10	125	2.0

All dimensions in millimetres.

# PUNCHES

## Chrome Vanadium

Air-hardening steel, forged and hardened.  
Octagonal Stock

Striking head quenched and tempered. Lacquered finish.

### DIN 6458 Taper Punches



SPAENAUR No.	Length		Stock mm	Ø Dia. of Point	
	mm	Inch		mm	Inch
877-1430	120	4-3/4	10	1	1/16
877-1431	120	4-3/4	10	2	5/64
877-1432	120	4-3/4	10	3	1/8
877-1433	120	4-3/4	10	4	5/32
877-1434	120	4-3/4	10	5	3/16
877-1435	120	4-3/4	10	6	1/4
877-1436	120	4-3/4	12	1	1/16
877-1437	120	4-3/4	12	2	5/64
877-1438	120	4-3/4	12	3	1/8
877-1439	120	4-3/4	12	4	5/32
877-1440	120	4-3/4	12	5	3/16
877-1441	120	4-3/4	12	6	1/4
877-1442	120	4-3/4	12	7	9/32
877-1443	120	4-3/4	12	8	5/16
877-1444	120	4-3/4	12	9	11/32
877-1445	120	4-3/4	12	10	13/32
877-1446	150	6	12	9	11/32
877-1447	150	6	12	10	13/32

### DIN 7250 Centre Punches



SPAENAUR No.	Length		Stock mm	Ø Dia. of Point	
	mm	Inch		mm	Inch
877-1425	100	4	8	3	1/8
877-1426	120	4-3/4	10	4	5/32
877-1427	120	4-3/4	10	5	3/16
877-1428	120	4-3/4	12	5	3/16
877-1429	150	6	12	5	3/16

### DIN 6450 Parallel Pin Punches



SPAENAUR No.	Length		Stock mm	Ø Dia. of Point	
	mm	Inch		mm	Inch
877-1448	150	6	10	2	5/64
877-1450	150	6	10	3	1/8
877-1452	150	6	10	4	5/32
877-1453	150	6	10	4.5	11/64
877-1454	150	6	10	5	3/16
877-1455	150	6	10	6	1/4
877-1456	150	6	12	7	9/32
877-1457	150	6	12	8	5/16
877-1458	150	6	12	10	13/32
877-1388	150	6	14	12	15/32



**SPAENAUR No.  
877-1136**

Universal chisel hand guard, made of Lupolen,  
for all flat and octagonal chisels.

Approx. O/A length 4-3/4"  
Approx. O/A Shield dia. 4-1/8"

### Pilot Punches FOR REMOVAL OF (Rolled) Spring Tension Pins

PAT. NO. 3,099,876

See page E97.



## Flat Cold Chisels

### Chrome Vanadium

Air-hardening steel, forged and hardened.  
Rectangular Stock

Striking head quenched and tempered.

Lacquered finish.



### DIN 6453

SPAENAUR No.	Length		Stock mm	Point	
	mm	Inch		mm	Inch
877-1460	200	8	23 x 13	24	1
877-1461	250	10	23 x 13	25	1
877-1462	300	12	23 x 13	26	1

## Crosscut Chisels

### Chrome Vanadium

Air-hardening steel, forged and hardened.  
Rectangular Stock

Striking head quenched and tempered.

Lacquered finish.



### DIN 6451

SPAENAUR No.	Length		Stock mm	Point	
	mm	Inch		mm	Inch
877-1463	200	8	20 x 12	8	5/16
877-1464	250	10	23 x 13	9	3/8

## Pointed Chisels

Striking head quenched and tempered.

Lacquered finish.



### DIN 7256

**Chrome Vanadium**  
Air-hardening steel,  
forged and hardened.

SPAENAUR No.	Length		Stock
	mm	Inch	mm
877-1465	250	10	16

Octagonal Stock

## Jointing Chisels

Striking head quenched and tempered,  
Lacquered finish.



**Chrome Vanadium**  
Air-Hardening steel, forged and hardened.  
Rectangular Stock

SPAENAUR No.	Length		Stock mm	Point	
	mm	Inch		mm	Inch
877-1468	250	10	26 x 13	60	2-3/8

## Stone Mason Chisels

### Chrome-molybdenum Vanadium




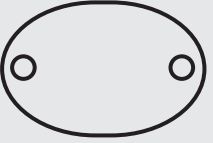
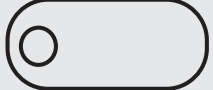


Air-hardening steel,  
resists splitting and mushrooming.



SPAENAUR No.	Length		Stock mm	Point	
	mm	Inch		mm	Inch
877-1170	200	8	15	23	29/32
877-1171	250	10	15	23	29/32
877-1172	300	12	15	23	29/32
877-1175	500	20	20	30	1-3/16

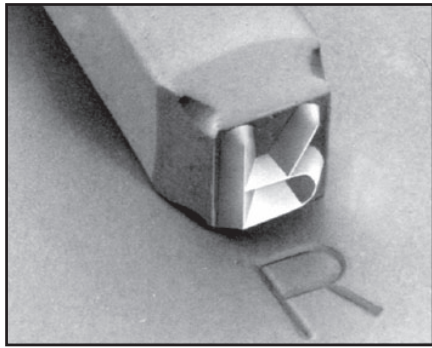
**BRASS & ALUMINUM BLANK TAGS, CHECKS & NAME PLATES**

Items illustrated on this page are stocked standard shapes available to be stamped or embossed. Used for all sorts of identification: machines, coat rooms, keys, valves, inventory control etc. Variety of shapes and sizes available upon request.

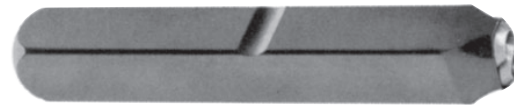
<b>ROUND</b> 	<b>SPAENAUR No.</b> <b>Mtrl. Thick. 1/32"</b>		<b>Dimensions</b>	<b>Hole Sizes</b>	<b>No. of Holes</b>	<b>PKG QTY.</b>
	<b>Aluminum</b>	<b>Brass</b>				
	121-411	121-515	1"	3/16"	1	25
	121-412	121-516	1-1/4"	1/4"	1	25
	121-413	121-517	1-1/2"	3/16"	1	25
	121-414	121-518	2"	1/4"	1	25
<b>OVAL</b> 	121-415	121-C33-1T	5/8 x 1-1/2"	1/8"	2	25
	121-416	121-520	1-3/16 x 1-3/4"	1/16"	2	25
	121-417	121-521	1-3/8 x 2-1/8"	1/8"	2	25
<b>RECTANGLE</b> 	121-418	121-522	5/8 x 1-3/8"	1/4"	1	25
	121-419	121-523	1 x 2"	1/8"	2	25
	121-420	121-524	1/2 x 2-1/4"	1/8"	2	25
<b>TRIANGLE</b> 	121-421	121-525	1-3/8 x 1-3/8"	1/8"	1	25

P

SPAENAUR CATALOG 14



## A-Z and Numeric Identification Tools



Featuring the thumb groove that helps you to:

1. See the thumb side.
2. Feel the thumb side.
3. Get positive grip.
4. Make your mark with no mistake.

The relatively deep groove across the thumb side of the stamp corresponds to the bottom of the character. It provides an easily seen, quickly felt index mark for locating the thumb side of the stamp and gives a positive thumb grip. You get marks and no mistakes.

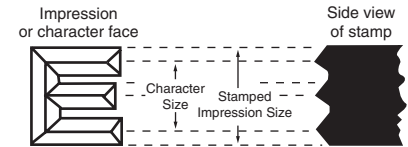
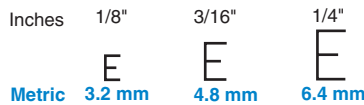
Sets packed in sturdy wood box with lid. Both pieces made from a solid block of wood. Lid serves as handy holder for composition.

### Machine-made

Fine quality steel, special heat treatment. Sharp characters in gothic style insure deep, clear impressions. They can mark steel up to a hardness of 50 Rockwell. Crown hammer end. More identification marks per dollar.

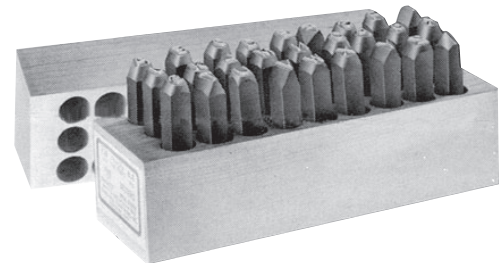
### To Determine Sharp Face Character Size

It is not unusual to overestimate the size of character needed. A character is measured from cutting edge to cutting edge.



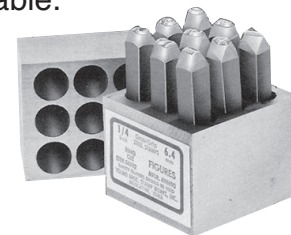
### LETTER SETS, A-Z plus period (27 characters).

SPAENAUR No.	Type Height	Weight Lbs.	Size of Steel	
			Sq.	Length
876-1743	1/8"	1-1/2	1/4"	2-3/8"
876-1744	3/16"	2	5/16"	2-7/16"
876-1745	1/4"	3	3/8"	2-5/8"



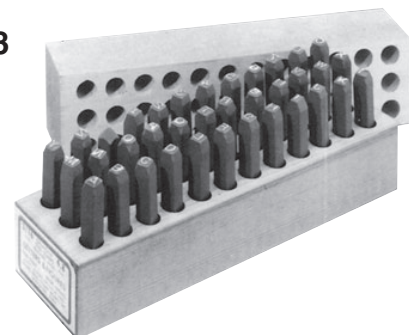
### NUMERIC SETS, 0-8 (9 characters) 6 and 9 are interchangeable.

SPAENAUR No.	Type Height	Weight Lbs.	Size of Steel	
			Sq.	Length
876-1746	1/8"	1/2	1/4"	2-3/8"
876-1747	3/16"	3/4	5/16"	2-7/16"
876-1748	1/4"	1	3/8"	2-5/8"



### COMBINATION SETS, A-Z plus period and Numbers 0-8 (36 characters of one size). 6 and 9 are interchangeable.

SPAENAUR No.	Type Height	Weight Lbs.	Size of Steel	
			Sq.	Length
876-1749	1/8"	2	1/4"	2-3/8"
876-1750	3/16"	2-1/2	5/16"	2-7/16"
876-1751	1/4"	3	3/8"	2-5/8"



All sets on this page  
PKG QTY. 1

P: 1-800-265-8772 F: 1-888-252-6380 [service@spaenaur.com](mailto:service@spaenaur.com)

P93

**A WHOLE TOOL KIT BY ITSELF!**

Genuine VISE-GRIP, the most sensational hand tool ever made. Puts Ton-Grip in the palm of your hand! It LOCKS, CLAMPS, TWISTS, TURNS, PULLS, CUTS, RATCHETS, HOLDS! Has hundreds of uses as an Adjustable End Wrench, Pipe Wrench, Locking Wrench, Super Pliers, Vise and Toggle Press. VISE-GRIP is the handiest tool you can own!

Locking Wrench   Pipe Wrench   Clamp   Portable Vise   Wire Cutter



**Curved Jaw Locking Pliers with Wire Cutter**

- Convenient wire cutter cuts up to a 1/4" bolt.
- Involute jaw curve permits user to put tremendous pressure on four points of any style nut or bolt head.



SPAENAUR No.	Size	Jaw Adjustment
T-7WR	7"	0 - 1-5/8"
T-10WR	10"	0 - 1-7/8"

**Curved Jaw Locking Pliers**

- Involute jaw curve permits user to put tremendous pressure on four points of any style nut or bolt head.



SPAENAUR No.	Size	Jaw Adjustment
T-7CR	7"	0 - 1-5/8"
T-10CR	10"	0 - 1-7/8"

**Straight Jaw Locking Pliers**

- Straight jaws allow for maximum contact on flat, square or hex work.
- Very popular in welding and other metal working.
- Use for safer grinding or as a portable vise.



SPAENAUR No.	Size	Jaw Adjustment
T-7R	7"	0 - 1-1/8"
T-10R	10"	0 - 1-5/8"

**Long Nose Locking Pliers**

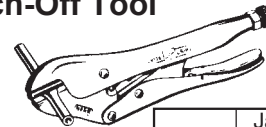
- Convenient wire cutter cuts up to a 1/4" bolt.
- Long, straight nose allows for use in narrow spaces not reachable by curved or straight jaws.
- Use to clamp or tighten bolts or to extract items in hard-to-reach places.



SPAENAUR No.	Size	Jaw Adjustment
876-247	4"	0 - 1-5/8"
876-238	6"	0 - 2-1/4"
876-240	9"	0 - 2-7/8"

**VISE-GRIP Pinch-Off Tool**

Specially for the refrigeration industry! Crimps copper tubing instantly for shut-off.



**T-RR**  
with EASY Release

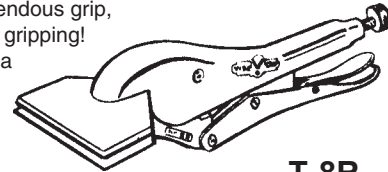
SPAENAUR No. T-RR  
VISE-GRIP Pinch-Off Pliers

Size	Jaw Thickness	Throat Depth
7"	1/4"	1"

**VISE-GRIP Sheet Metal Tool**

LOCKS to work with tremendous grip, eliminating tiresome hand gripping!

Material can't slip - giving a smoother, more accurate bending and seaming job. Adjusts to non-locking Pliers Action.



Makes all kinds of bending, forming, crimping jobs EASIER ...FASTER.

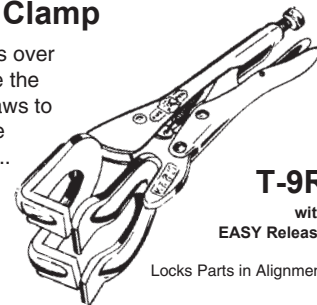
**T-8R**  
with EASY Release

SPAENAUR No. T-8R  
VISE-GRIP Sheet Metal Tool

Size	Jaw Width	Throat Depth
8"	3-1/8"	1-3/4"

**VISE-GRIP Welding Clamp**

Simply place the U-shaped jaws over the edges to be welded ... close the toggle lever. This LOCKS the jaws to the work with powerful grip. The work is brought into alignment ... HELD securely ... freeing both hands for handling equipment. Jaws provide good visibility and working space, adjusts up to 1-5/8" Makes every job FASTER, EASIER.



**T-9R**  
with EASY Release

Locks Parts in Alignment

SPAENAUR No. T-9R  
VISE-GRIP Welding Clamp

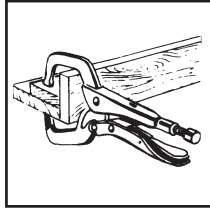
Size	Jaw Width	Jaw Adjustment
9"	2-3/4"	1-5/8"

P

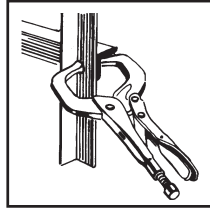
CATALOG 14

SPAENAUR



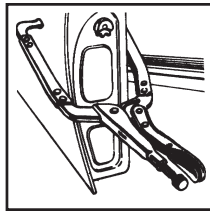


Wood clamp.

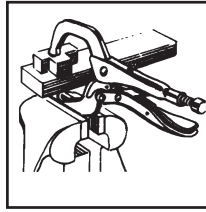


Clamp angle iron.

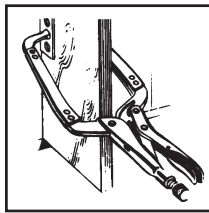
- Quick, easy locking and release action makes old fashioned screw-type "C" clamps obsolete.



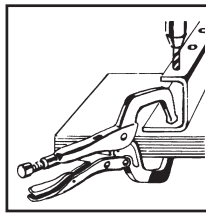
Auto body work.



Clamp intricate work.



Carpentry work.



Clamp awkward jobs.

## WISE-GRIP LOCKING "C" CLAMPS

Spaenaur No.  
**876-244**

Mfr's. No. 6R

Length 6-1/2"

Jaw Adjusts 0" to 2"

A = 2" B = 1-1/2"



Spaenaur No.  
**T-11R**

Mfr's. No. 11R

Length 10-5/8"

Jaw Adjusts 0" to 3-3/4"

A = 3-3/4" B = 2-5/8"

**All VISE-GRIP® Tools  
PKG QTY. 1**

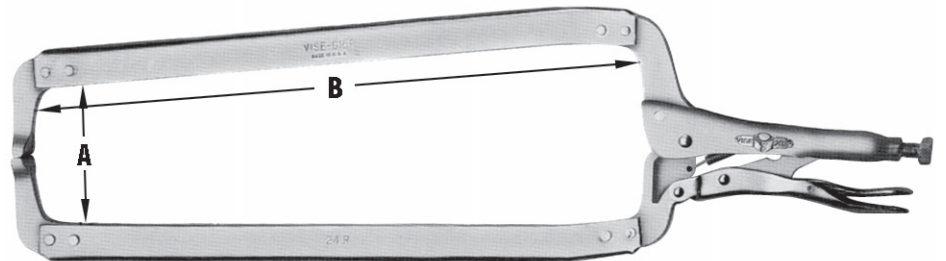
Spaenaur No.  
**876-766**

Mfr's. No. 24R

Length 24"

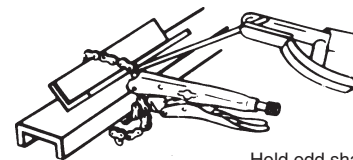
Jaw Adjusts 0" to 14-3/4"

A = 3-5/8" B = 15-1/2"



## WISE-GRIP® CHAIN WRENCH

Spaenaur No.  
**T-20R**



Hold odd shapes for  
welding and fabricating.

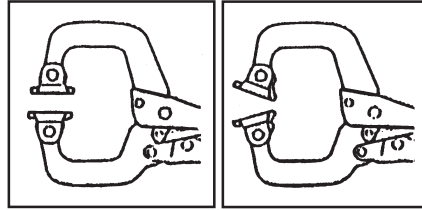
**SPAENAUR  
No.**

**T-20R – Chain Wrench**

**T-20REP – Replacement Chain 19"**

**T-20EX – Extension Chain 18"**

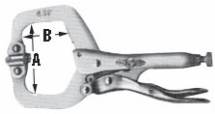
# WISE-GRIP LOCKING "C" CLAMPS WITH SWIVEL PADS



Protects wood

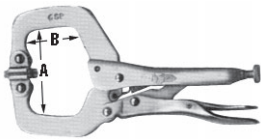
Holds tapered work.

- Quick, easy locking and release action makes old fashioned screw-type "C" clamps obsolete.
- Self-leveling swivel pads won't damage work.



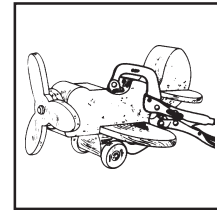
## 876-765

Mfr's. No. 4SP  
Length 5-1/2"  
Jaw Adjusts 0" to 1-1/2"  
A = 1-7/8" B = 1-1/8"

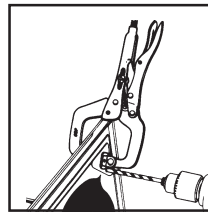


## 876-241

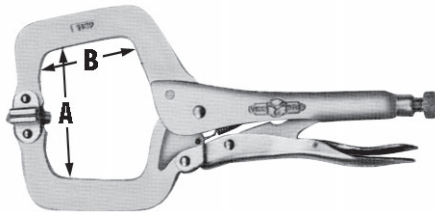
Mfr's. No. 6SP  
Length 6-1/2"  
Jaw Adjusts 0" to 2"  
A = 2-1/8" B = 1-3/8"



Hold delicate work.

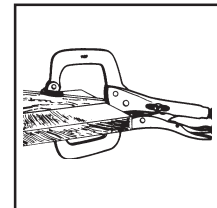


Clamp awkward fabricating jobs.

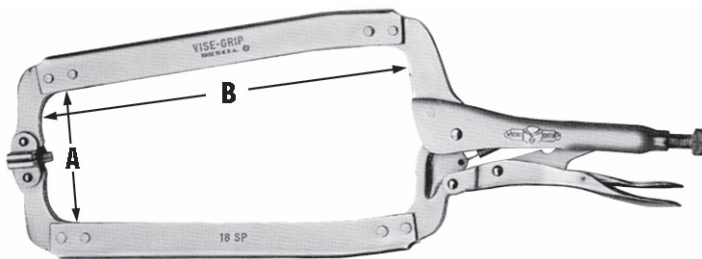


## 876-242

Mfr's. No. 11SP  
Length 11"  
Jaw Adjusts 0" to 3-3/4"  
A = 3-3/8" B = 2-5/8"

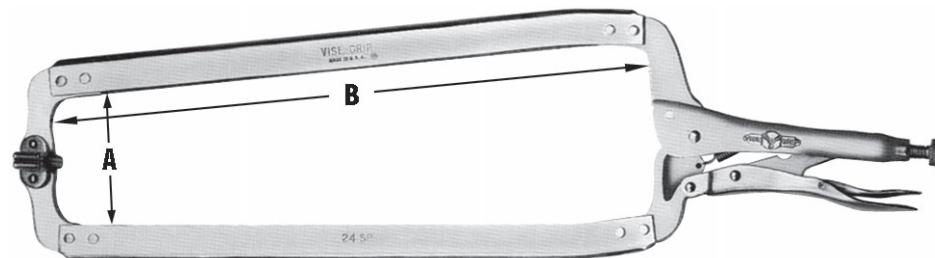


Hold tapered work.



## 876-243

Mfr's. No. 18SP  
Length 18"  
Jaw Adjusts 0" to 7"  
A = 3-1/2" B = 9-1/2"



## 876-764

Mfr's. No. 24SP  
Length 24"  
Jaw Adjusts 0" to 11-1/4"  
A = 3-1/2" B = 15-1/2"

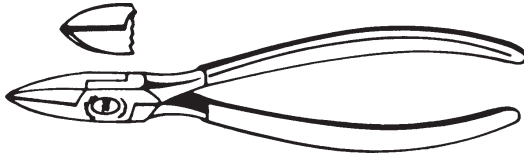
P

**For Those Who Want The Best**

**SPAENAUR No. 876-363** Long Reach Plier, Diagonal Cutter, 7-1/2" long

Designed for long reach applications and for use in confined areas.

MFR'S No. #728

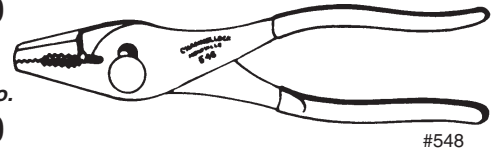


**Slip Joint Plier Heavy Duty Wire Cutting Shear**  
Patented PermaLock® fastener eliminates nut and bolt failures.

**SPAENAUR No. 876-369**  
6-3/4" long

MFR'S No. #546

**SPAENAUR No. 876-370**  
8-1/4" long



**SPAENAUR No. 876-364** Long Reach Plier, Flat Nose, 8" long

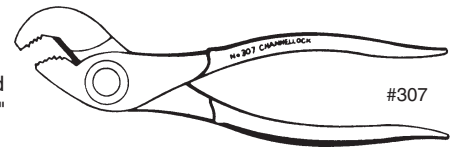


#718

Designed for long reach applications and for use in confined areas.

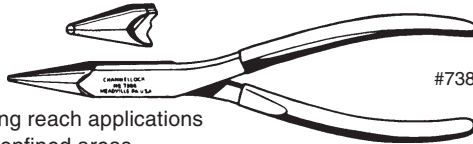
**SPAENAUR No. 876-371** NUTBUSTER™, Parrot Nose, 7" long

Parrot nose with terrific gripping power on rounded surfaces from 1/4" to 5/8".



#307

**SPAENAUR No. 876-365** Long Reach Plier, Needle Nose, 8" long



#738

Designed for long reach applications and for use in confined areas.

**SPAENAUR No. 876-372** Cutting Plier Wiring Plier, Cuts, Strips Insulation, 7" long



#337W

10 and 12 gauge wire stripping holes.

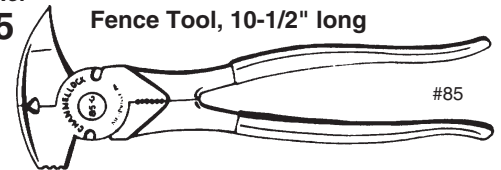
**SPAENAUR No. 876-366** Long Reach Plier, End Cutter, 8" long



#748

Designed for long reach applications and for use in confined areas.

**SPAENAUR No. 876-385** Fence Tool, 10-1/2" long



#85

Specially designed for installing and maintaining wire fence on metal and wood posts. 6 tools in 1: staple starter, hammer, 2 staple puller, wire stretcher, wire splicer and 2 wire cutters.

**Linemen's Plier, Bevel Nose**

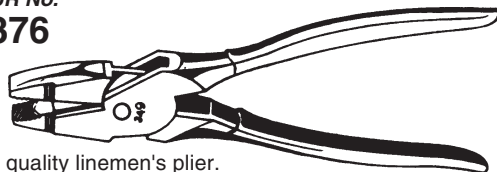
**SPAENAUR No. 876-374** 7" long #3047

**876-375** 8-1/2" long #3048



**WIREMASTER™, Linemen's Plier, 9" long**

**SPAENAUR No. 876-376** #349



Premium quality linemen's plier. High leverage handle design.

**Cutting Plier End Cutter**

**SPAENAUR No. 876-378** 6" long #356

**876-379** 7" long #357

**876-380** 8" long #358



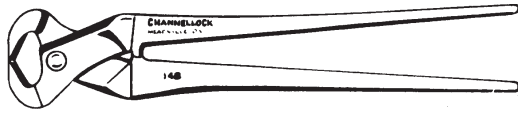
**Note:** CHANNELLOCK comfort grips are only for hand comfort and improved appearance. **They are not recommended or warranted for dielectric properties.**

All items on this page PKG QTY. 1

**SPAENAUR No.**

**End Nippers, 14" long  
876-381**

MFR'S No.



#148-14

Heavy duty construction.  
Ideal for cutting large nails.

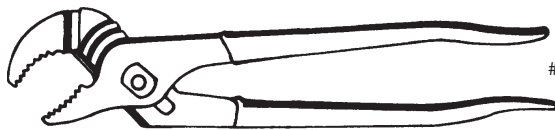
**Tongue and Groove Plier, 9-1/2" long  
876-382**



#420

Right angle teeth grip in all directions for maximum bite and minimum wear.  
Patented undercut tongue and groove design assures, no slip jaw action.

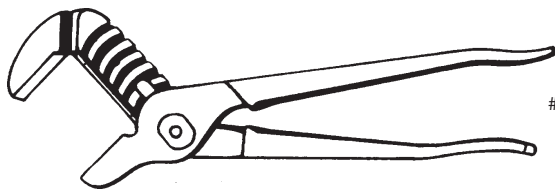
**Tongue and Groove Plier, V jaw, 9-1/2" long  
876-383**



#422

V jaw design for use on round stock and tubing.  
Right angle teeth grip in all directions for maximum bite and minimum wear.  
Patented undercut tongue and groove design assures, no slip jaw action.

**Tongue and Groove Plier, Smooth Jaw, 10" long  
876-384**



#415

Smooth jaw for use on plated fixtures.

**Adjustable Wrenches**

Measurement scales (inch on front, mm on reverse) are handy for sizing nuts, pipe and tube diameters.

Perfectly parallel jaw surfaces grip safely and reduce possibility of damage.

Non protruding jaw with thinner jaw profile permits easier use in more confined spaces.

Ergonomic handle is wider for more comfortable grip.

Chrome Vanadium Steel construction with (2NI-1Cr) coating.



SPAENAUR No.	Length	Jaw Capacity	MFR'S. No.
<b>876-387</b>	4"	9/16"	#804
<b>876-388</b>	6"	13/16"	#806
<b>876-389</b>	8"	15/16"	#808
<b>876-390</b>	10"	1-3/16"	#810
<b>876-391</b>	12"	1-1/2"	#812
<b>876-392</b>	15"	1-3/4"	#815

**All items on this page PKG  
QTY. 1**

P

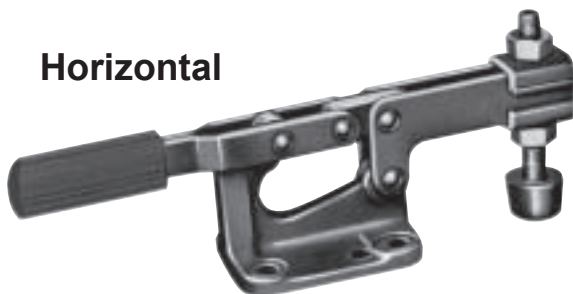
CATALOG 14

SPAENAUR

## Red Head Toggle Action Clamps

Toggle Action Clamps give you greater production for Welding, Drilling, Milling, Sawing, Gluing, Grinding, Riveting, Routing, Machining or Assembly Operation.

### Horizontal



**Handle** is made of high strength alloy tempered steel, featuring rolled round edges, covered with red vinyl plastic to assure a sure, cool grip. The plastic handle will resist oil, acid and is non-inflammable.

**Bearings** Ideal conditions have been incorporated into each bearing. Featuring alloy steel pins moving in a malleable cast linkage, giving greater bearing surfaces and assuring self-lubricating, free-operating hinge points.

**Linkage** Sturdy one piece, wide bearing support link giving added strength and greater bearing surface. Made of malleable iron and having machined surfaces at all contact points.

**Base** is one piece malleable cast iron accurately machined to assure flat mounting surface and rigid bolting. Mounting holes located to facilitate interchangeability.

**Tolerances** All holes are drilled and reamed to exact tolerances assuring uniformity, smooth action, and close alignment throughout the entire construction and assembly of this clamp.

**Toggle action** Engineered to give positive locking action with a minimum of force required for locking and unlocking clamp.

**Finish** Zinc plated finish (to mfr's. option) makes an attractive addition to your tools and fixtures.

**Hinge pins** have spun heads eliminating any binding and have no sharp burrs on edges to interfere with the operator.

**Clamp bar** is made of carbon steel assuring rigid clamping of parts. Available with open or closed bar.

**Spindle adjustable** for height.

**Recommended Load** The recommended load, in the closed position, is the maximum that can be exerted on the clamp without distortion or failure. This is measured at the base and will decrease as you approach the end of the bar.

### Push-Pull



### Vertical



**RED HEAD HORIZONTAL TOGGLE ACTION CLAMPS**



**086-700**

**Specifications:**

Recommended pressure: **200 lbs.**  
 Shut height: **13/16"**  
 Base dimension: **Width 1-7/16"; Length 1-5/8"**.

**086-700** is a small, light duty toggle clamp with open type toggle bar equipped with rubber capped adjustable spindle that can be located in any desired position. Bar retracts to vertical position when clamp is open.

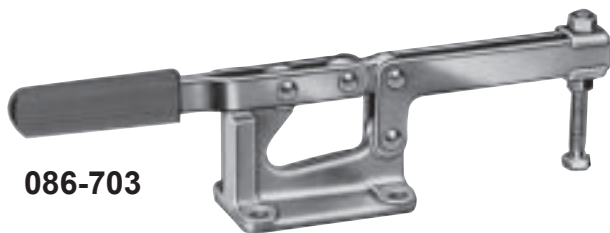


**086-F82-1W**

**Specifications:**

Recommended pressure: **300 lbs.**  
 Shut height: **1"**  
 Base dimension: **Width 1-3/8"; Length 1-7/8"**.

**086-F82-1W** is a small, light duty toggle clamp with open type toggle bar equipped with rubber capped adjustable spindle that can be located in any desired position. Bar retracts to vertical position when clamp is open.



**086-703**

**086-702** is a larger toggle clamp, has more clamping pressure and incorporating the same design as 086-F82-1W, including rubber capped adjustable spindle.

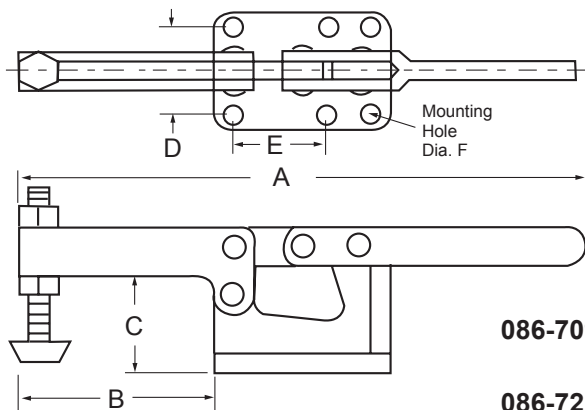
**Specifications:**

Recommended pressure: **500 lbs.**  
 Shut height: **1-1/4"**  
 Base dimension: **Width 1-5/8"; Length 2-1/4"**.

**086-703** is a heavy duty horizontal toggle clamp for use where overhead space is limited. Has a channel bar and threaded spindle that can be adjusted in height and located at any desired spacing along the channel. Additional spindles may be placed in channel to accommodate parts of varying thicknesses.

**Specifications:**

Recommended pressure: **750 lbs.**  
 Shut height: **1-7/8"**  
 Base dimension: **Width 2"; Length 3-1/4"**.



**086-709**

**086-725**

**086-710**

Spaenaur No.	Capacity lbs.	Dimension in Inches					
		A	B	C	D	E	F
086-700	200	5.81	1.81	0.88	0.88	1.06	0.22
086-F82-1W	200	5.81	1.81	1.06	0.88	1.00	0.22
086-702	500	7.25	2.50	1.25	0.88	1.00	0.27
086-703	750	11.25	4.00	1.88	1.63	1.63	0.33

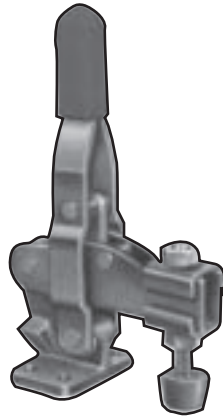
**Replacement Spindles**

- Standard Bolt Spindle Assembly (including rubber foot) for Clamps 086-700, 086-F82-1W, 086-702 and 086-706.
- Replacement rubber foot for above spindle.
- Standards Bolt Spindle Assembly for Clamp 086-703.

SPAENAUR  
 CATALOG 14.03  
 2019/04/18

**RED HEAD VERTICAL TOGGLE ACTION CLAMPS**

086-706



**086-706** is a light duty toggle clamp with short handle and bar, so clamp can be mounted where clearance is limited. Equipped with rubber capped adjustable spindle. (See previous page for Replacement Spindle.)

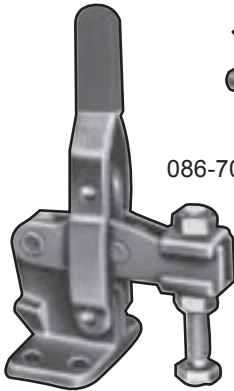
**Specifications:**

Recommended pressure: **200 lbs.**

Shut Height: **1-1/16"**.

Base dimensions, **Width 1-9/16"; Length 1"**.

086-704



**086-704** is a light duty toggle clamp with short handle and bar with spindle so clamp can be mounted where clearance is limited.

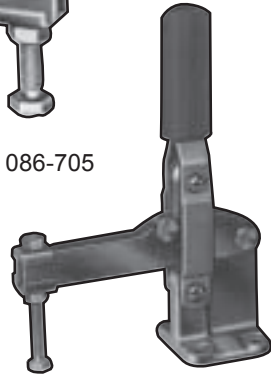
**Specifications:**

Recommended pressure: **350 lbs.**

Shut Height: **1-1/4"**.

Base dimensions, **Width 2-1/4"; Length 1-9/16"**.

086-705



**086-705** is a light duty toggle clamp with long handle for easy operation, also long bar with spindle to give clamp more reach.

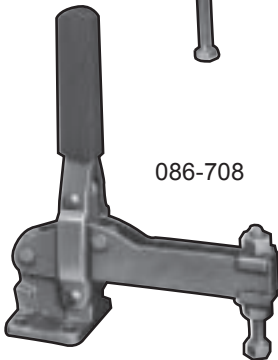
**Specifications:**

Recommended pressure: **500 lbs.**

Shut height: **1-1/4"**.

Base dimensions, **Width 2-1/4"; Length 1-9/16"**.

086-708



**086-707** larger, more clamping power and incorporating same design and features as 086-705. Has a shorter handle for mounting where clearance is limited, also shorter bar, with spindle.

**Specifications:**

Recommended pressure: **600 lbs.**

Shut height: **2"**.

Base dimensions, **Width 2-3/8"; Length 2-1/8"**.

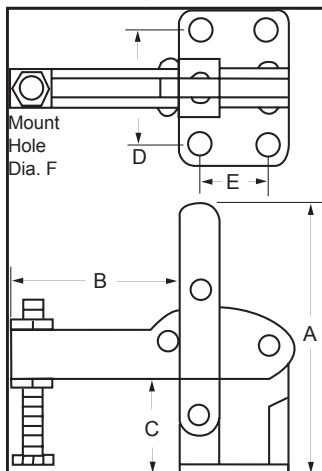
**086-708** a heavy duty clamp having vertical handle and including a channel bar with threaded spindle which may be adjusted on height and located anywhere along channel. Additional spindles may be placed in channel to accommodate parts of varying thicknesses.

**Specifications:**

Recommended pressure, **1000 lbs..**

Shut height, **1-1/2"**.

Base Width, **2-1/4"; Length, 2"**.



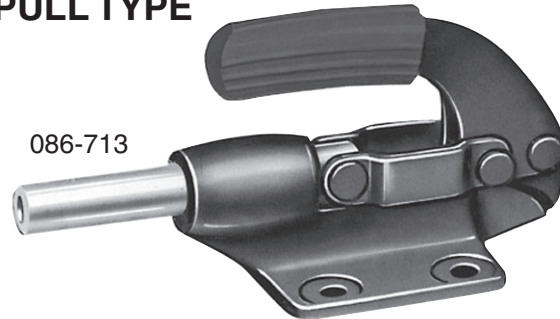
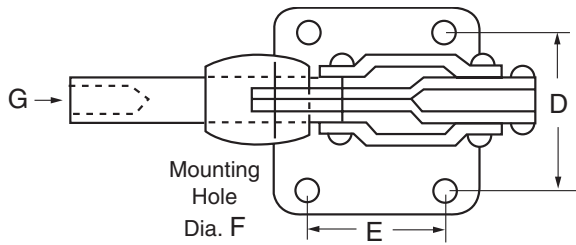
Spaenaur No.	Capacity lbs.	Dimension in Inches					
		A	B	C	D	E	F
<b>086-706</b>	200	4.75	1.38	1.06	1.06	0.50	0.20
<b>086-704</b>	350	5.00	1.62	1.12	1.25	0.75	0.28
<b>086-705</b>	500	7.00	3.12	1.25	1.25	0.75	0.28
<b>086-707</b>	750	7.50	3.50	2.00	1.78	1.25	0.34
<b>086-708</b>	1000	8.69	4.63	1.50	1.78	1.25	0.34

**Replacement Spindles**

**086-710** Standard Bolt Spindle Assembly for Clamps 086-704, 086-705, 086-707.

**086-711** Standards Bolt Spindle Assembly for Clamp 086-708.

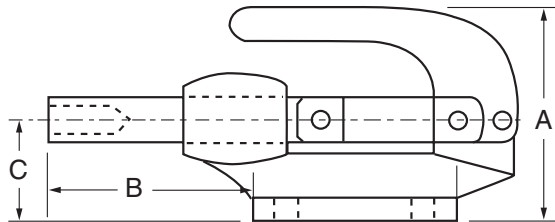
**RED HEAD PUSH-PULL TYPE**



086-713

**086-713** Push-Pull type clamp  
Plunger diameter **1/2"**.  
Plunger travel distance **1-1/4"**.  
Spindle not included.

**Specifications:**  
Recommended delivered pressure: **400 lbs.**  
Maximum pressure: **600 lbs.**



Spaenaur No.	Capacity lbs.	Dimensions in Inches						Int. Thread G
		A	B	C	D	E	F	
086-713	400	2.88	2.25	1.12	1.62	1.38	0.28	5/16"-18
086-714	800	4.00	3.25	1.88	1.62	1.62	0.33	3/8"-16

**086-714** Push-Pull type clamp  
Plunger diameter **3/4"**.  
Plunger travel distance **1-1/2"**.  
Spindle not included.

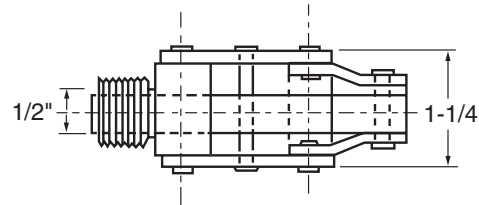
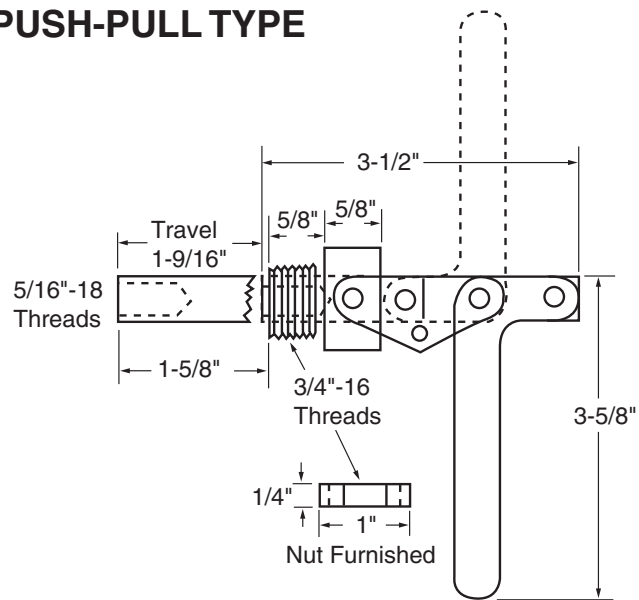
**Specifications:**  
Recommended delivered pressure: **800 lbs.**  
Maximum pressure: **1200 lbs.**

**RED HEAD PUSH-PULL TYPE**

086-712



**086-712** Push-Pull Type clamp.  
Holding capacity **300 lbs.**  
Locks in either position.  
Plunger travel **1-9/16"**.  
Spindle not included.  
Can be mounted in either a drilled & tapped hole or through a drilled hole by use of the furnished nut.



All items on this page PKG QTY. 1

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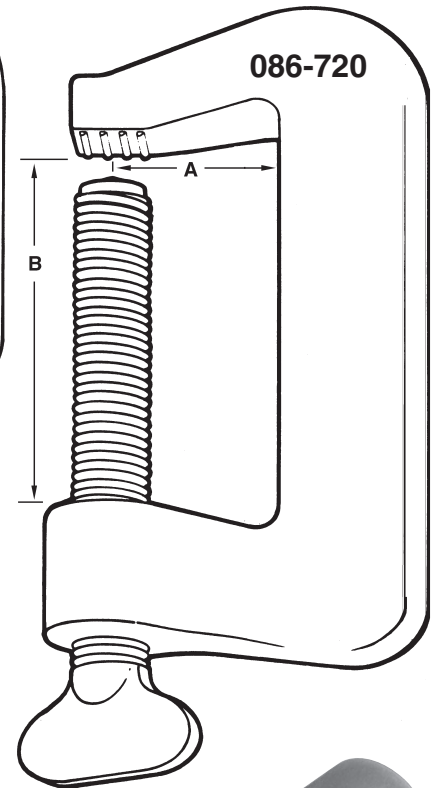
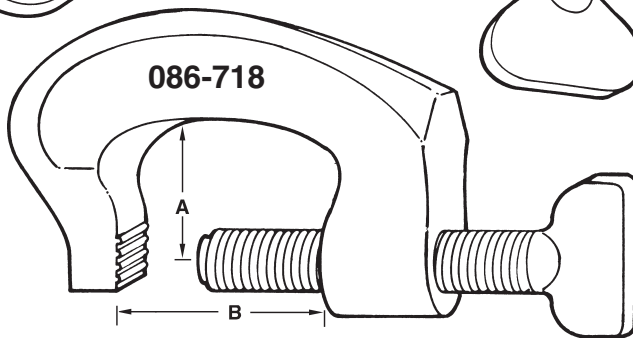
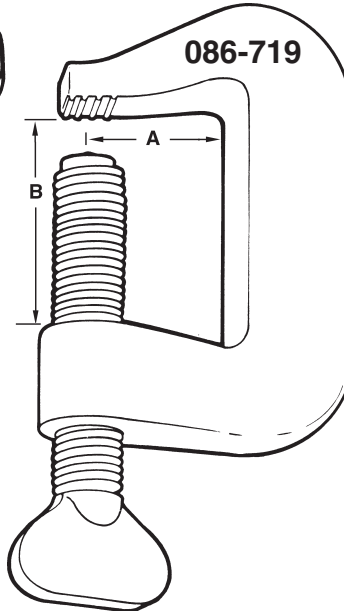
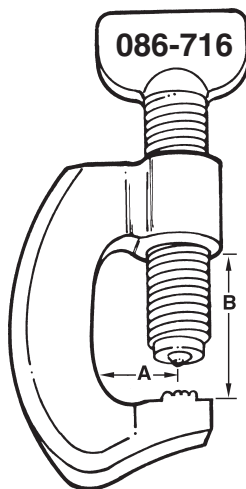
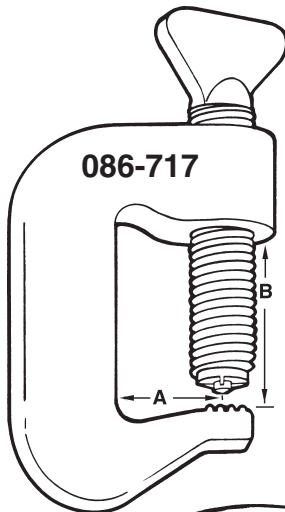
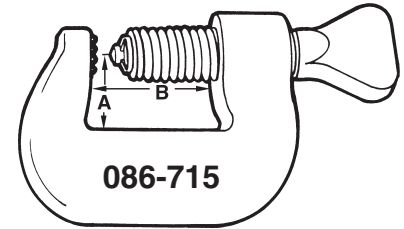
# Duraclamps®

Injection molded, high strength plastic.

- Can be used for any type of jiggig or clamping.
- Chemically and electrically inert. Does not thieve chemicals or electricity.
- Ideal for variable spacing on racks. Reduces the need for expensive custom racks for specific jobs in the metal finishing industry.
- High resistance to acids, alkali solutions and boiling water. No softening or thread binding. No stripping is required after use.
- Available with or without swivel.

**MATERIAL:**

G.E Plastics - Noryl  
Modified Polyphenylene Oxide  
Grey Colour



Shown with swivel tip.

Also available special order  
Ceramic Tips ...  
"diamond hard" alumina oxide tip.

Spaenaur No.	Swivel	A Throat Depth	B Max. Grip Range	Max. Torque Rating In. Lbs.
086-715	without	13/16"	1-1/4"	90
086-721	with	13/16"	3/4"	90
086-716	without	7/8"	1-1/2"	140
086-717	without	1-3/16"	1-7/8"	150
086-722	with	1-3/16"	1-3/8"	150
086-718	without	1-1/4"	2"	185
086-719	without	1-1/2"	2-1/2"	200
086-723	with	1-1/2"	2"	200
086-720	without	1-3/4"	4"	300
086-724	with	1-3/4"	3-1/2"	300

All items - PKG QTY. 1

### Professional Hacksaw

Strong die-cast handle provides superb comfort and control and the guarded grip design protects knuckles. The tubular frame ensures perfect rigidity and balance, in addition to providing storage space for spare blades. The hacksaw is supplied with a 12" (300 mm) HSS flex blade, which can be angled at 90 degree to the frame if necessary. Frame also adjusts to accept 10" (250 mm) blades.



**SPAENAU No. 876-1602**

**Overall Length** 18-1/4" (465 mm) **Overall Height** 5" (130 mm)

### High Quality Hacksaw Blades

The Hicut Bimetal blade is very versatile, cutting a wide variety of materials - even the most difficult alloys. Virtually unbreakable in normal use.

SPAENAU No.	Blade Size Inch (mm)	Teeth per Inch
877-C10-1P	12" x 1/2" x .025" (300 x 13 x .065)	18
877-C27-1K	12" x 1/2" x .025" (300 x 13 x .065)	24
877-C26-1T	12" x 1/2" x .025" (300 x 13 x .065)	32

PKG QTY. 1

### General Purpose Small Hacksaw

Carefully positioned "flats" to ensure correct alignment of the blade. The top quality British steel frame gives perfect blade tension during use. Texture epoxy finish. 6" (150 mm) blade included.



**Overall Length** 10-1/4" (260 mm) **Overall Height** 2-5/8" (67 mm)

**SPAENAU No. 876-1603**

PKG QTY. 1

### 6" Hacksaw Blade High Speed Steel

SPAENAU No.	Blade Length	Teeth per Inch
877-1257	6" (150 mm)	14
877-1254	6" (150 mm)	32

More Hacksaws and Blades shown on N39.

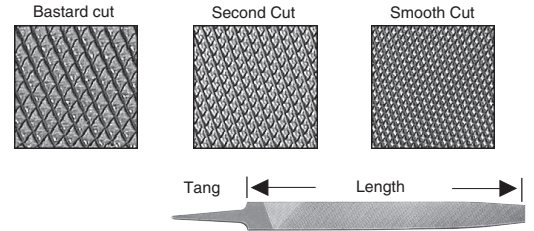
SPAENAU CATALOG 14.03 2019/04/18

**DESCRIPTION:**

**BASTARD CUT** - the standard cut used for shaping and dressing steels and castings.

**SECOND CUT** - for hard metals.

**SMOOTH CUT** - for hard metals and for use as a finishing file.

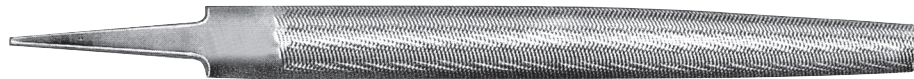


The file length is the measurement from point to shoulder, exclusive of the tang.

STYLE	ORDER BY SPAENAUR NUMBER LISTED BELOW					
	LENGTH					
	4"	6"	8"	10"	12"	14"

**HALF ROUND** - For filing both flat and concave surfaces. Slightly tapered in width and thickness.

BASTARD	—	876-1492	876-1493	876-1494	876-1495	—
SECOND CUT	—	876-1497	876-1498	876-1499	876-1500	—
SMOOTH	—	876-1502	876-1503	876-1504	876-1505	—



PKG QTY. 1

**ROUND** - For circular openings and concave surfaces. Tapers slightly to point.

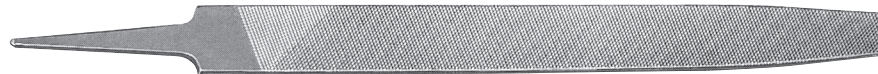
BASTARD	—	876-1433	876-1434	876-1435	876-1436	—
SECOND CUT	—	876-1439	876-1440	876-1441	876-1442	—
SMOOTH	—	876-1444	876-1445	876-1446	—	—



PKG QTY. 1

**FLAT** - Taper in width. Cut on both sides and edges.

BASTARD	—	876-1449	876-1450	876-1451	876-1452	—
SECOND CUT	—	876-1455	876-1456	876-1457	876-1458	—
SMOOTH	—	—	—	—	876-F45-1K	—



PKG QTY. 1

**SQUARE** - For slots and keyways. Tapers slightly to point and double cut on all four sides.

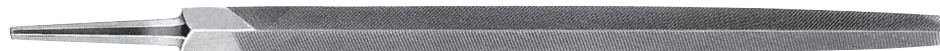
BASTARD	—	876-1465	876-1466	876-1467	876-1468	—
SECOND CUT	—	876-1470	876-1471	876-1472	876-1473	—
SMOOTH	—	—	876-1476	876-1477	876-1478	—



PKG QTY. 1

**THREE-SQUARE** - For filing out sharp corners and internal angles. Double cut on all three sides. Tapers slightly toward point.

BASTARD	—	876-1480	876-1481	876-1482	876-1483	—
SECOND CUT	—	876-1484	876-1485	876-1486	876-1487	—
SMOOTH	—	876-1488	876-1489	876-1490	876-1491	—



PKG QTY. 1

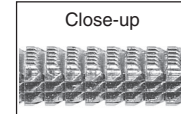
For Surface Shaping Tools and files, see page P118.

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

**P105**

**THREAD RESTORING FILES**

Restores damaged or clogged threads in a jiffy.



Type	SPAENAUR No.	PITCH / T.P.I.
INCH	874-1657	11 / 12 / 13 / 14 / 16 / 18 / 20 / 24 TPI
METRIC	874-T02-1C	0.75 / 1 / 1.25 / 1.5 / 1.75 / 2 / 2.5 / 3 mm Pitch

PKG QTY. 1

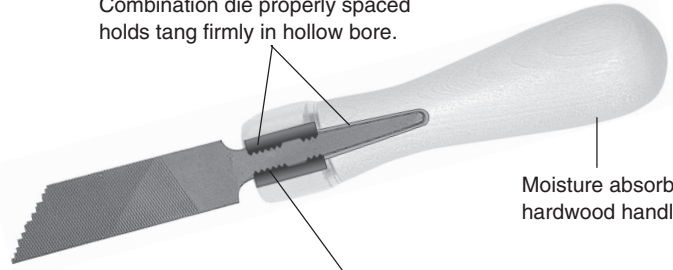
**FILE HANDLES - WOODEN**

SPAENAUR No.	Handle Number	For File Length
877-474	No. 2	4"
877-475	No. 3	5"
877-476	No. 4	6"
877-477	No. 5	8"
877-478	No. 6	10"
877-480	No. 8	14"

Heavy steel ferrule compressing die in place.

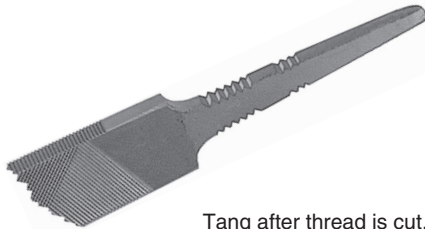


Combination die properly spaced holds tang firmly in hollow bore.



Moisture absorbing hardwood handle.

Special tempered hexagonal steel die with sharp V thread.



Tang after thread is cut.

PKG QTY. 1

**NEW**



See Page P146 for Continental Abrasives Cutting & Grinding Wheels



T27 DEPRESSED CENTER GRINDING WHEEL



T27 DEPRESSED CENTER GRINDING WHEEL - FLANGED

P

CATALOG 14

SPAENAUR



# SPAENAU

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**NEW**

CONTINENTAL<sup>®</sup> ABRASIVES

## Abrasives Cut Off & Grinding Wheels

High-quality materials & world class performance now available in Canada



From CONTINENTAL ABRASIVES

Pg. P146

Pour la version française, voir la page suivante

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# SPAENAU

*Fasteners Right Now*<sup>®</sup>

**Nouveau**

CONTINENTAL<sup>®</sup> ABRASIVES

## Meules tronçonneuses et meules à aiguiser Abrasives

Matériaux de haute qualité et  
rendement de classe mondiale  
maintenant offert au Canada



De CONTINENTAL ABRASIVES

Pg. P146

For the English version, see previous page

T: 1-800-265-8772 F: 1-888-252-6380 [service@spaenaur.com](mailto:service@spaenaur.com)

### TYPE 27



## Depressed Centre Grinding Wheels

Reinforced with three full diameters of high tensile fiberglass.

For Use with **METAL, STAINLESS**  
A30S - Fast Grind

Aggressive grinding - longest life. Ideal for most metals including stainless and other hard alloys. An excellent "all-purpose" spec.



Use on Angle Grinders

For Grinding ONLY

DIMENSIONS Dia. x Thk. Abor	MAX RPM	METAL, STAINLESS	
		Fast Grind	A30S
4-1/2" x 1/4" x 7/8"	13,300	876-1950	
5" x 1/4" x 7/8"	12,000	876-1951	

### TYPE 27



## Depressed Centre Cutoff Wheels

These extra heavy duty 1/8" thick wheels are designed specifically for cutting applications.

For Use with **METAL, STAINLESS**  
A30S - Fast Cut

Fast cutting with good life. Ideal for most metals, including stainless and other hard alloys. An excellent "all-purpose" spec.



Use on Angle Grinders

For Cutoff ONLY

DIMENSIONS Dia. x Thk. Abor	MAX RPM	METAL, STAINLESS	
		Fast Cut	A30S
4-1/2" x 1/8" x 7/8"	13,300	876-1954	
5" x 1/8" x 7/8"	12,000	876-1955	

### TYPE 27



## Thin Depressed Centre Cutoff Wheels

For Use with **METAL, STAINLESS**  
A60SST-27 - Extra Fast Cut

The razor thin .045" delivers the fastest cutting action on carbon steel, stainless and other alloys - including aluminum, brass, bronze and cast iron. Cuts sheet, pipe, rod, cable and all profiles.



Use on Angle Grinders

For Cutoff ONLY

DIMENSIONS Dia. x Thk. Abor	MAX RPM	METAL, STAINLESS	
		Extra Fast Cut	A60SST-27
5" x .045" x 7/8"	12,000	876-1953	

### TYPE 1



## Bench Grinder Wheels

Precision Balanced for vibration-free running.

Use on Bench Grinders

Each wheel comes with a set of nested reduction bushing at no additional cost.



For Grinding ONLY



Vitrified bonded aluminum oxide wheel for general purpose grinding of carbon steel, stainless steel and other alloys.

For Use with **METAL, STAINLESS Aluminum Oxide -**

DIMENSIONS Dia. x Thk. Abor	MAX RPM	METAL, STAINLESS (ALUMINUM OXIDE GRAIN)		
		Coarse A24	Med./Fine A60	Fine A80
6" x 1" x 1"	4,138	876-1957	876-1958	876-1959
8" x 1" x 1-1/4"	3,600	—	876-1961	876-1962

The toughest abrasive for sharpening or grinding hard or very soft materials. Extremely sharp grain for faster, burr-free cutting on tungsten carbide, brass, bronze, aluminum and masonry.

For Use with **NONFERROUS Green Silicon Carbide -**

DIMENSIONS Dia. x Thk. Abor	MAX RPM	METAL, STAINLESS (Green Silicon Carbide Grain)		
		Coarse CG60	Medium CG80	Fine CG120
6" x 1" x 1"	4,138	—	876-1964	876-1965
8" x 1" x 1-1/4"	3,600	—	876-1967	876-1968

All items on this page  
PKG QTY. 1

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

**P107**

**TYPE 1**  **Thin Angle Grinder Cutoff Wheels**

For Use with **METAL, STAINLESS**  
**A60SST, A46RB50 - Extra Fast Cut**

Delivers razor-sharp, clean cutting action on carbon steel, stainless and other alloys. Ideal for sheet, pipe, rod, cable and all profiles.



For Cutoff ONLY

DIMENSIONS Dia. x Thk. Abor	MAX RPM	METAL, STAINLESS Extra Fast Cut A60SST / A46RB50
5" x .045" x 7/8"	12,000	<b>876-1971</b>

**TYPE 1**  **Circular Saw Wheels**

Use on  
Circular Saws  For Cutoff ONLY



For Use with **METAL, STAINLESS**  
**A36TB38 - Fast Cut**

Fast, easy cutting of shapes and profiles. Ideal on carbon or stainless steel.

DIMENSIONS Dia. x Thk. Abor	MAX RPM	METAL, STAINLESS Fast Cut A36TB38
7" x 3/32" x 5/8" Dia.	8,600	<b>*876-1972</b>

For Use with **CONCRETE, MASONRY**  
**C30UB64 - Heavy Duty**

Quick cuts on concrete, brick, block and other masonry products.

DIMENSIONS Dia. x Thk. Abor	MAX RPM	CONCRETE, MASONRY Heavy Duty C30UB64
7" x 1/8" x 5/8" Dia.	8,600	<b>*876-1973</b>

\*Diamond shaped arbor.

**TYPE 1**  **High Speed Gas & Electric Saw Wheels**

For Use with **METAL, STAINLESS**  
**A24/30SB - Heavy Duty**

The contractors' choice - a heavy duty blade, excellent on rebar, steel pipe, sheet metal and structural steel. Excellent for production cutting.



DIMENSIONS Dia. x Thk. Abor	MAX RPM	METAL, STAINLESS Heavy Duty A24/30SB
12" x 1/8" x 20mm	6,300	<b>876-1974</b>

Use on High  
Speed Saws



For Cutoff ONLY

**TYPE 1**  **Chopsaw / Miter Saw Wheels**

Use on Chopsaws

For Use with **METAL, STAINLESS**  
**A30RB - Fast Cut**



For Cutoff ONLY

DIMENSIONS Dia. x Thk. Abor	MAX RPM	METAL, STAINLESS Fast Cut A30RB
12" x 3/32" x 1"	5,092	<b>876-1976</b>
14" x 3/32" x 1"	4,365	<b>876-1977</b>



Fast, burr-free cutting in the widest range of materials and profiles including angle, channel, tubing and solids. An excellent choice on carbon and alloy steels.

P

CATALOG 14

SPAENAUR





## TYPE 29



Use on Angle Grinders

For Grinding, Blending & Finishing

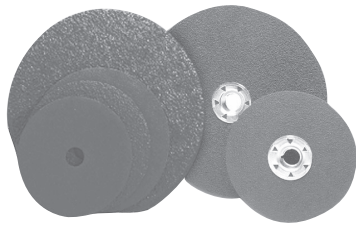
## Super Flap Discs

For Use with **METAL, STAINLESS, ALUMINUM**  
Zirconia Alumina Heavy Duty

Recommended for medium to high performance production applications, these heavy duty discs work well on both ferrous and nonferrous metals. Specially formulated grain reduces heat build up on the material, limiting the risk of burning or discoloration.

Type 29 - Zirconia Alumina with Fiberglass Backing Plate.

DIMENSIONS Dia. x Arbor	MAX RPM	METAL, STAINLESS, ALUMINUM		
		ZA40	ZA60	ZA80
4-1/2" x 7/8"	13,300	876-1978	876-1979	876-1980
5" x 7/8"	12,000	876-1981	876-1982	876-1983



Use on Angle Grinders



For Grinding, Blending & Finishing

## Resin Fibre Sanding Discs

For Use with **METAL, STAINLESS**  
Zirconia Alumina High Production

Flexon, Zirconia Alumina delivers the longest life on high tensile alloys, including metal and stainless steel. Flexon discs deliver fast, cool cutting action and premium performance.

### Zirconia Alumina

DIMENSIONS Dia. x Arbor	METAL, STAINLESS, ALUMINUM			
	ZA24	ZA36	ZA60	ZA80
4-1/2" x 7/8"	876-1984	876-1985	876-1986	876-1987
5" x 7/8"	876-1988	876-1989	876-1990	876-1991



## Backing Pads

Use on Angle Grinders



Extends disc life up to 50%.

### MEDIUM - Quick-Spin

For use with Quick-Spin resin fibre discs.

DIMENSIONS Dia. x Thread	MAX RPM	BACKING PADS	
		MEDIUM Quick-Spin Discs	
4-1/2" x 5/8"-11	13,000	876-1992	
5" x 5/8"-11	12,000	876-1993	



## Shop Rolls

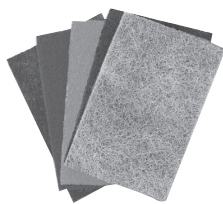


For Cleaning & Finishing

Shop Rolls - can be used dry or wet with water and water-based coolants.

- Premium closed coat aluminum oxide grain, resin bonded to flexible cloth.
- 50-yard rolls packaged in convenient, see-through boxes for easy dispensing.

DIMENSIONS Width x Length	METAL	
	A180	A240
1" x 50 Yards	876-1995	876-1996



## Non Woven Hand Pads

- Excellent alternative to sandpaper, wire wheel brushes, files and steel wool. Washable and reusable.
- Available in a variety of grades. Ideal for deburring, polishing, cleaning and surface preparation.

6" x 9" Sheets



For Cleaning & Finishing

PKG QTY. 2

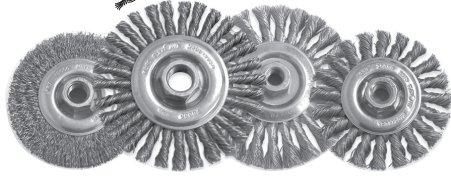
Spaenaur No.	Description	Application
876-1998	Non-Abrasive - White	Ideal for cleaning and polishing.
876-1999	Ultra Fine / Grey	Aluminum oxide abrasive, use for fine finishing and polishing.
876-2002	Very Fine / General Purpose - Maroon	An all-purpose pad for routine hand applications. Constructed of aluminum oxide grain and durable non woven.
876-2003	General Purpose - Green	Made with aluminum silicate abrasives, this pad is for use on general cleaning, scouring and scrubbing applications.
876-2001	Extra Cut - Tan	Made with silicon carbide abrasive grain, this industrial grade pad delivers aggressive action on the toughest applications.

**Wire Wheel Brushes**

Use on Angle Grinders



For Cleaning & Conditioning



**Carbon Wire .020**

General purpose wire for cleaning and deburring.

Narrow work face allows for easy access to confined areas. Ideal for weld and bead cleaning on pipes and vessels.

**Stringer Bead Wire Wheels**

DIMENSIONS Face Dia. x Width x Arbor	MAX RPM	CARBON WIRE
6-1/2" x 1/4" x 5/8"-11	12,000	<b>876-2045</b>

**Wire Cup Brushes**

Use on Angle Grinders



For Cleaning & Conditioning



**Crimped Wire Cups**

**Carbon Wire .014, .020**  
General purpose wire for cleaning and deburring.

DIMENSIONS Dia. x Thread	MAX RPM	CARBON WIRE	
		.014	.020
2-3/4" x 5/8"-11	12,500	<b>876-2047</b>	—
2-3/4" x M14-2.0	12,500	<b>876-2048</b>	—
5" x 5/8"-11	7,000	—	<b>876-2049</b>

**Knotted -**

Knotted wire cup brushes are perfect for heavy duty cleaning and rough scale removal.

Use on Angle Grinders



For Cleaning & Conditioning

**Knotted - Knock-Off Bridle**

Bridles restrain the knots, providing flare control and prevent premature wire breakage. As the brush wears down removing the bridle will expose new wire.

**Knotted Wire Cups**

DIMENSIONS Dia. x Thread	MAX RPM	CARBON WIRE	STAINLESS WIRE
		.020	.020
2-3/4" x 5/8"-11	12,500	<b>876-2050</b>	—
3" x 5/8"-11 Knock-Off Bridle	11,000	<b>876-2057</b>	<b>876-2058</b>
4" x 5/8"-11 Knock-Off Bridle	8,500	<b>876-2051</b>	—
5" x 5/8"-11 Knock-Off Bridle	8,500	<b>876-2052</b>	<b>876-2053</b>
6" x 5/8"-11 Knock-Off Bridle	6,500	<b>876-2054</b>	—

**Wire Wheel Brushes**

**Carbon Wire .014**

General purpose wire for cleaning and deburring.

Use on Bench Grinders



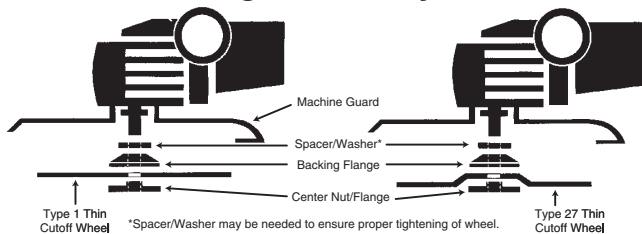
For Cleaning & Conditioning

**Crimped Wire Wheel Brushes**

DIMENSIONS Face Dia. x Width x Hole Sizes	MAX RPM	CARBON WIRE
6" x 1" x 5/8" and 1/2"	6,000	<b>876-2055</b>
8" x 1" x 5/8" and 1/2"	4,500	<b>876-2056</b>



**Reusable Flange Assembly Kit, consists of backing flange and centre nut/flange.**



**876-2060 1-3/4" Dia. x 5/8-11 Arbor**

For use with 4-1/2" and 5" diameter thin\* cutoff wheels on angle grinders. Can be used with Type 1 or Type 27 thin\* cutoff wheels.

\*Wheel Thickness .045" thru 1/8"

Type 1 cutoff wheels must be mounted between properly relieved flanges of equal diameter and matching bearing surfaces. Such flanges must be at least 1/4 of the wheel diameter. Do not use this flange assembly with wheels larger than 5" diameter. Right angle grinders may not come equipped with Type 1 flanges as standard equipment.

P

CATALOG 14

SPAENAUR

## Carbide Burs

All Burs on this page are for Grinding ONLY



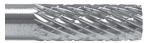
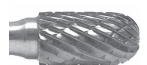


Use on Die Grinders

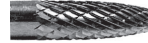
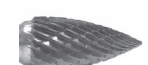


- Precision ground tungsten carbide tips, silver brazed to a hardened steel shank.
- Excellent in hard-to-reach areas or confined spaces. Ideal for shaping and enlarging holes, removing welds and smoothing castings.

All items on this page  
PKG QTY. 1

### Double Cut Series for Steel and Stainless Steel

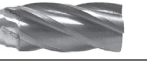
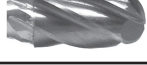
With its chisel tooth cutting pattern, double cut burs produce small, distinct granular chips instead of long, sharp slivers. Eliminates loading of the bur's flutes and minimizes chatter. This is the most popular, smoothest cutting style. Ideal on steel, stainless steels, alloys and exotics.


	DIMENSIONS Dia. x Length x Shank	Spaenaur No.
<b>Cylinder</b> 	1/2" x 1" x 1/4"	876-2008
<b>Ball Nose Cylinder</b> 	1/4" x 5/8" x 1/4"	876-2011
<b>Ball</b> 	1/4" x 3/16" x 1/4" 3/8" x 5/16" x 1/4" 1/2" x 7/16" x 1/4"	876-2017 876-2018 876-2020
<b>Oval</b> 	1/4" x 3/8" x 1/4" 1/2" x 7/8" x 1/4"	876-2023 876-2025

	DIMENSIONS Dia. x Length x Shank	Spaenaur No.
<b>Round Nose Tree</b> 	1/4" x 5/8" x 1/4"	876-2027
<b>Pointed Tree</b> 	1/4" x 5/8" x 1/4" 3/8" x 3/4" x 1/4" 1/2" x 1" x 1/4"	876-2033 876-2034 876-2035
<b>Ball Nose Cone</b> 	1/4" x 5/8" x 1/4" 3/8" x 1-1/16" x 1/4" 1/2" x 1-1/8" x 1/4"	876-2037 876-2038 876-2039
<b>Pointed Cone</b> 	1/4" x 1/2" x 1/4" 3/8" x 5/8" x 1/4" 1/2" x 7/8" x 1/4"	876-2041 876-2042 876-2043

### Aluminum Cut with 1/4" Shank


The authentic milling cutter style flute assures fast chip flow and extremely fast stock removal. These burs are ideal on aluminum, nonferrous metals, reinforced plastics and other soft materials.


	DIMENSIONS Dia. x Length x Shank	Spaenaur No.
<b>Cylinder</b> 	3/8" x 3/4" x 1/4" 1/2" x 1" x 1/4"	876-2007 876-2009
<b>Ball Nose Cylinder</b> 	3/8" x 3/4" x 1/4" 1/2" x 1" x 1/4"	876-2013 876-2015

	DIMENSIONS Dia. x Length x Shank	Spaenaur No.
<b>Round Nose Tree</b> 	3/8" x 3/4" x 1/4" 1/2" x 1" x 1/4"	876-2029 876-2031

### Miniature Burs with 1/8" Shank


These right hand spiral burs are ideal on high tensile steel, dies, casts and other tough materials. Ideal for deburring, beveling and chamfering.

	DIMENSIONS Dia. x Length x Shank	Spaenaur No.
<b>Ball Nose Cylinder</b> 	1/8" x 9/16" x 1/8"	876-2010

	DIMENSIONS Dia. x Length x Shank	Spaenaur No.
<b>Pointed Cone</b> 	1/8" x 7/16" x 1/8"	876-2040

Carbide burs are cutting tools, not abrasives. Burs are designed to cut with one side only. Do not jam the bur into a tight corner or cavity. Doing so will force the bur to cut in all sides, and will overload and overheat the bur causing it to fail.


**DOUBLE BOX BRITISH WRENCH**  
with deep offset



PKG QTY. 1

SPAENAUR No.	WHITWORTH SIZE	LENGTH (mm)
876-1071	1/8" x 3/16"	195
876-1072	3/16" x 1/4"	210
876-1073	1/4" x 5/16"	225
876-1074	3/8" x 7/16"	285
876-1075	7/16" x 1/2"	305
876-1076	1/2" x 9/16"	325
876-1078	9/16" x 5/8"	345
876-1079	5/8" x 3/4"	370
876-1080	11/16" x 13/16"	400
876-1082	1-1/8" x 1-1/4"	535

**DOUBLE OPEN-END WRENCH**



PKG QTY. 1

SPAENAUR No.	WHITWORTH SIZE	LENGTH (mm)
876-1036	1/8" x 3/16"	157
876-1037	3/16" x 1/4"	172
876-1038	1/4" x 5/16"	190
876-1039	5/16" x 3/8"	205
876-1040	3/8" x 7/16"	236
876-1041	7/16" x 1/2"	250
876-1042	1/2" x 9/16"	266
876-1043	9/16" x 5/8"	280
876-1044	5/8" x 3/4"	302
876-1045	3/4" x 7/8"	328
876-1047	7/8" x 1"	360

**BRITISH SOCKET DRIVERS**

1/4" DRIVE 6 POINT

Chrome Plated Vanadium Steel

SPAENAUR No.	WHITWORTH SIZE
876-1093	7 BA
876-1092	6 BA
876-1091	5 BA
876-1090	4 BA
876-1089	3 BA
876-1087	1 BA
876-1086	0 BA

**COMBINATION BOX AND OPEN-END BRITISH WRENCH**



PKG QTY. 1


SPAENAUR No.	WHITWORTH SIZE	LENGTH (mm)
876-1049	1/8"	138
876-1050	3/16"	158
876-1051	1/4"	185
876-1052	5/16"	210
876-1053	3/8"	245
876-1054	7/16"	280
876-1055	1/2"	305
876-1056	9/16"	340
876-1057	5/8"	370
876-1058	11/16"	390
876-1059	3/4"	412

1/2" DRIVE 12 POINT


Chrome Plated Vanadium Steel


SPAENAUR No.	WHITWORTH SIZE
876-1095	3/16"
876-1096	1/4"
876-1097	5/16"
876-1098	3/8"
876-1099	7/16"
876-1100	1/2"
876-1101	9/16"
876-1102	5/8"
876-1103	11/16"
876-1104	3/4"


**BRITISH TAPS AND DIES**  
HIGH SPEED STEEL (HSS)  
TAPS - HAND OR MACHINE  
CLASS 2  
SPIRAL FLUTE TAP



**STRAIGHT FLUTE TAP**

No. 1 STARTING TAP 

No. 2 MIDDLE TAP 

No. 3 FINISHING TAP 

Note: Taps No. 1, No. 2 & No. 3 are commonly referred to as TAPER, PLUG AND BOTTOMING TAPS

See pages P50 to P73 for more Taps & Dies.



ORDER BY SPAENAUR NUMBERS LISTED BELOW

NOMINAL DIAMETER	THREADS		#1 STARTING TAP	#2 MIDDLE TAP	#3 FINISHING TAP	SPIRAL TAP	SQUARE A/F	LENGTH OF THREAD	OVERALL LENGTH	SPLIT ROUND DIES	
	BSW	BSF								DIES	DIE O.D.
1/8"	40	—	874-297	—	874-298	874-1590	2.50 mm	11 mm	48 mm	878-006	13/16"
5/32"	32	—	—	—	—	874-1591	3.15 mm	13 mm	53 mm	—	—
3/16"	24	—	874-095	874-096	874-097	874-1592	4.00 mm	16 mm	58 mm	878-007	13/16"
1/4"	—	26	874-383	—	874-284	—	5.00 mm	19 mm	66 mm	878-K11-1P	1"
1/4"	20	—	874-390	874-399	874-391	874-1593	5.00 mm	19 mm	66 mm	878-008	1"
5/16"	—	22	874-385	—	874-286	—	6.30 mm	22 mm	72 mm	878-K18-1M	1"
5/16"	18	—	874-392	874-389	874-393	874-1594	6.30 mm	22 mm	72 mm	878-009	1"
3/8"	—	20	874-384	—	874-288	—	8.00 mm	24 mm	80 mm	878-003	1"
3/8"	16	—	874-394	874-388	874-395	874-1595	8.00 mm	24 mm	80 mm	878-010	1"
7/16"	—	18	874-289	—	874-290	—	6.30 mm	25 mm	85 mm	878-004	1-5/16"
7/16"	14	—	874-396	874-379	874-397	—	6.30 mm	25 mm	85 mm	878-011	1-5/16"
1/2"	—	16	874-381	—	874-382	—	7.50 mm	29 mm	89 mm	878-K13-1C	1-5/16"
1/2"	12	—	874-398	874-299	874-006	874-1596	7.50 mm	29 mm	89 mm	878-K04-1K	1-1/2"
5/8"	11	—	874-453	874-461	874-454	874-1597	10.00 mm	32 mm	102 mm	878-013	2"
3/4"	10	—	874-455	874-462	874-456	874-1598	11.20 mm	37 mm	112 mm	878-014	2"
7/8"	9	—	874-457	874-463	874-458	—	12.50 mm	38 mm	118 mm	878-015	2"
1"	8	—	874-459	874-464	874-460	874-1599	14.00 mm	45 mm	130 mm	878-016	2"

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P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

Contact Sales Desk For Package Quantities

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SPAENAUR CATALOG 14.09

### Ballpeen Hammer

Steel Polished Heads

Wood Handle (Hickory or Ash - our option)



PKG QTY. 1

ORDER BY SPAENAUR NUMBERS LISTED BELOW		
Weight in Lbs.	Hammer with handle	Handle Only
1/4	877-1124	877-1189
1/2	877-1125	877-1190
1	877-1127	877-1192
1-1/4	—	877-1193
1-1/2	877-1129	877-1193
1-3/4	—	877-1194
2	877-1131	877-1194

### Locksmith's Hammer

German Pattern  
Steel - Black Finish

Wooden & Ultramid handles shown.



Weight in Grams	ORDER BY SPAENAUR NUMBERS LISTED BELOW			Handle Only	
	Hammer with handles of:			◆Wood	▲Ultramid
	◆Wood	Ultramid	Tubular Steel		
50	877-1094	—	—	877-1195	—
100	877-1095	—	—	877-1196	—
200	877-1096	877-1105	—	877-1197	877-1206
300	877-1097	*877-1106	—	877-1199	—
400	877-1098	—	—	877-1199	—
500	877-1099	877-1107	877-1112	877-1200	877-1209
600	877-1100	—	—	877-1201	—
800	877-1101	877-1108	—	877-1202	877-1210
1000	877-1102	877-1109	—	877-1203	877-1211
1500	877-1103	—	—	877-1204	—
2000	877-1104	—	—	877-1205	—

PKG QTY. 1

◆ Hickory or Ash (our option)

▲ With Wedge and Pin

\*877-1110 Chrome Plated Head

### Claw Hammer

American Pattern  
Tubular Steel Handle  
Polished  
Cushion Grip



PKG QTY. 1

Weight in Oz.	SPAENAUR No.
16	877-1133
20	877-1134

For more Hammers & Mallets see Pages N38-39

CATALOG 14

SPAENAUR

### Nylon Hammer

Head with steel core centre and replaceable nylon tips (sold singly)

Wood Handle (Hickory or Ash - our option)



ORDER BY SPAENAUER NUMBERS LISTED BELOW				
Weight in Grams	Tip ø	Hammer with Handle	Handle Only	Replacement Nylon Tip
220	27	877-1076	877-1223	877-1081
310	32	877-1077	877-1224	877-1082
370	35	877-1078	877-1225	877-1083
540	40	877-1079	877-1226	877-1084
860	50	877-1080	877-1227	877-1085

### Recoilless Hammer

With Polyurethane replaceable tips (sold singly)

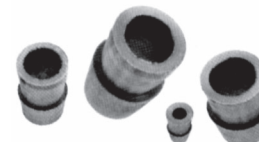


▲Hickory or Ash (our option)

### Circular Wedges

Made of steel

For wooden hammer handles



ORDER BY SPAENAUER NUMBERS				
Weight in Grams	Tip ø	Hammer with Handle of:		Replacement Tip
		▲ Wood	Fibreglass	
280	25	877-1059	—	877-1066
400	30	—	—	877-1067
550	35	877-1061	—	877-1068
700	40	877-1062	—	877-1069
850	45	877-1063	877-1075	877-1070
1000	50	877-1064	—	877-1071
1650	60	877-1065	—	877-1072

SPAENAUER No.	Dia. of Wedge in mm	Use with Head Weight
877-1213	5	50
877-1214	7	100
877-1215	8	200
877-1216	10	300
877-1217	12	400
877-1218	13	500
877-1219	14	600
877-1220	15	1000
877-1018	16	1500
877-1221	17	2000

PKG QTY. 10

### Copper Hammer

Square working surface

Wood Handle (Hickory or Ash - our option)



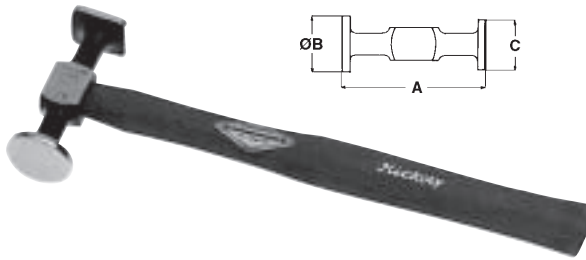
ORDER BY SPAENAUER NUMBERS LISTED BELOW		
Weight in Grams	Hammer with Handle	Handle Only
750	877-1117	877-1201
1000	877-1118	877-1203
1500	877-1119	877-1204

Hammers, Handles and Replaceable Tips - PKG QTY. 1

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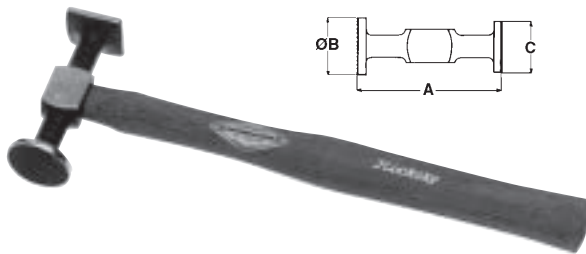
CATALOG 14

SPAENAUER



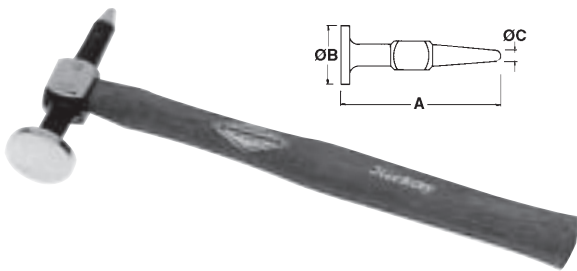
**Wide Face Bumping Hammer,**  
short design, smooth round and square faces

SPAENAUR No.	Dimensions in mm			Weight in grams
	A	B	C	
877-1009	100	33	28	300
877-1011	100	39	35	400



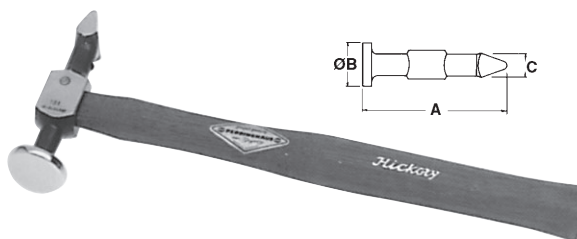
**Bumping and Shrinking Hammer,**  
short design with round face cross-milled, square  
face smooth.

SPAENAUR No.	Dimensions in mm			Weight in grams
	A	B	C	
877-1010	100	33	28	300
877-1012	100	39	35	400



**Picking and Dinging Hammer,**  
short design

SPAENAUR No.	Dimensions in mm			Weight in grams
	A	B	C	
877-1017	130	41	5	400



**Bumping and Peen Hammer**

SPAENAUR No.	Dimensions in mm			Weight in grams
	A	B	C	
877-C08-1P	115	37	15	330



**Twisting Force-Shrinking Hammer**

SPAENAUR No.	Weight in grams
877-1006	300

All items on this page - PKG QTY. 1

For more Hammers & Mallets see Pages N38-39



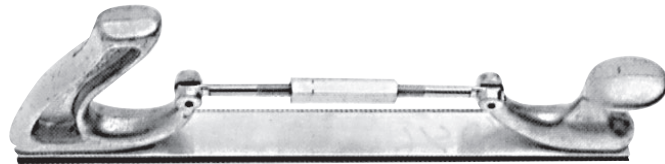
**Toe Dolly,**  
**SPAENAUR No.**  
**877-1045**  
- all polished, one face bowed and cross-milled for shrinking, length 120 mm, width 60 mm, height 28 mm, wt. 1,100 g.



**Shrinking Dolly,**  
**SPAENAUR No.**  
**877-1048**  
- "Diabolo" face, diameter 60 mm, height 55 mm, wt. 850 g.



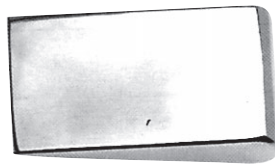
**Heel Dolly,**  
**SPAENAUR No.**  
**877-1047**  
- with round and flat face, length 80 mm, width 60 mm, height 35 mm, wt. 1,100 g.



**File Holder,**  
**SPAENAUR No.**  
**877-1050**  
- for milled curved tooth-files, light metal, adjustable, length 350 mm, wt. 950 g.



**Roof Wedge (Curved Dolly)**  
**SPAENAUR No.**  
**877-1023**  
- long curved face, 110 mm long, wt. 1,150 g.



**Dolly - Wedge Form,**  
**SPAENAUR No.**  
**877-1027**  
- 115 x 60 mm, height 25 mm, wt. 800 g.



**Toe Dolly,**  
**SPAENAUR No.**  
**877-1044**  
- flat and bowed face, length 115 mm, width 60 mm, height 28 mm, wt. 1,200 g.

All items on this page PKG QTY. 1

P

CATALOG 14

SPAENAUR





**Heavy Inside Spoon,**  
**SPAENAUR No.**  
**877-1035**

- working face 200 mm length, 60 x 30 mm width,  
 overall length 400 mm, wt. 1,250 g.



**Light Inside Spoon,**  
**SPAENAUR No.**  
**877-1034**

- working face 150 mm length, 50 mm  
 width, overall length 280 mm, wt. 750 g.



**Pry and Bumping Spoon,**  
**SPAENAUR No.**  
**877-1469**

- face length 200 mm, width 60 x 40 mm,  
 overall length 450 mm, wt. 1,600 g.



**Heavy Inside Shrinking Spoon,**  
**SPAENAUR No.**  
**877-1036**

- fine cross-milled working face 170 mm  
 length, 60 x 30 mm width, overall length 400  
 mm, wt. 1,200 g.



**Aligning Bar,**  
**SPAENAUR No.**  
**877-1041**

- all nickel plated, overall length 400 mm,  
 diameter 17 mm, wt. 600 g.



**Pry and Bumping Spoon,**  
**SPAENAUR No.**  
**877-1038**

- face length 200 mm, width 60 x 40 mm,  
 overall length 525 mm, wt. 2,150 g.



**Rolling Head Bar,**  
**SPAENAUR No.**  
**877-1040**

- all nickel plated, overall length 400 mm,  
 diameter 14 mm, wt. 500 g.

All items on this page  
 PKG QTY. 1



**Rubber Mallet,**  
with two flat faces

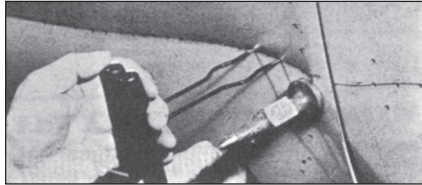
SPAENAUR No.	Size	Face Dia. in mm	Head Lgth. in mm	Weight in grams
877-1058	2	65	128	530

For additional HAMMERS see pages M43, P113-P115

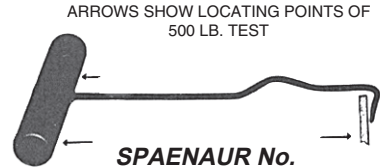
**PULL ROD**

MAKE BODY REPAIRS IN 1/3 THE TIME!

**DRILL-PULL-FILL and job is finished**



Be a "metal magician." Repair quarter sections, doors, tops, etc., entirely from the outside! Super tough Pull Rods were developed as the answer to repairing today's boxed-in cars. A must for metal station wagons and panel trucks. Time saved on one job will more than pay for a complete set.



ARROWS SHOW LOCATING POINTS OF 500 LB. TEST

**SPAENAUR No. T-200-1**

6-1/4" overall length

EACH TOOL IS FACTORY TESTED AT 500 LBS. PULL

**SURFACE SHAPING TOOLS & FILES**

**SPAENAUR No. 876-202**

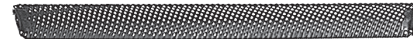
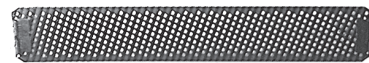
10" Flat, regular cut teeth. For planing large flat areas, smooth surfaces on hard or soft woods, soft metals, and plastics.

**SPAENAUR No. 876-203**

14" Half Round, regular cut teeth. For curved surfaces and faster trimming, smoothing.

**SPAENAUR No. 876-204**

14" Flat, regular cut teeth. For planing large flat areas. Smooth surfaces on hard or soft woods, soft metals, and plastics.



**Hawkbill Knife**

"The Shipper's Favourite"

**SPAENAUR No. 876-735**

Varnished Hardwood Handle  
3" blade of finest cutlery steel.



More Knives on page M34.

**Electric Heat Gun**

115 VOLTS AC

Two temperature settings 750°F & 1100°F.  
Cool down time not required. Fold down stand for hands free operation.

**SPAENAUR No. 876-194**



PKG QTY. 1



**Power Torch**

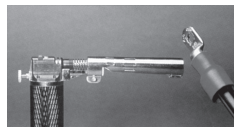
Portable Butane Heat Tool

PKG QTY. 1

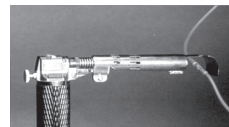
Overall Height 5-3/4"

Ideal for heat shrinkable connectors and tubing, soldering, and a variety of other applications. This versatile heat tool is fast and light weight, and will stand alone for hands-free operation. The self-igniting torch uses butane fuel, and is refillable. The tank capacity provides approximately 70 minutes of continuous usage. Two special attachments are included for use with heat shrinkable products.

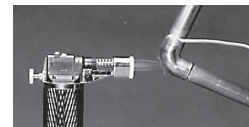
**SPAENAUR No. 876-F51-1A**



Heat Shrink Tubing



Heat Shrink Connectors



Soldering

(Butane not included.)

## WISS METALMASTER® SNIPS

Change lap settings. Underlap for distortion-free, clean cuts, overlap for extra length of cut on heavy metals. Length of cut on heavy metals. Blades of hot drop-forged chromium steel, precision ground for superior cutting quality. Spring-activated latch snaps open when handles are squeezed.

### 876-1830

Cuts Straight and Wide Curves  
(Yellow Handle)

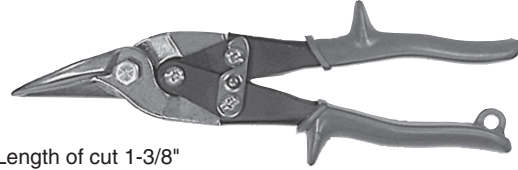


Length of cut 1-3/8"

9-3/4" overall Weight - 16 oz.

876-1828 Cuts Left and Straight, (Red Handle)

876-1829 Cuts Right and Straight, (Green Handle)



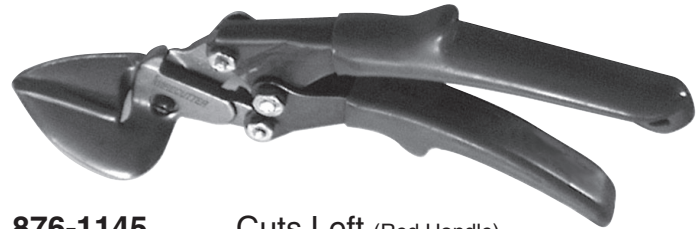
Length of cut 1-3/8"

Item may not be as illustrated. 9-3/4" overall Weight - 12 oz.

## OFFSET SNIPS

Offset snips handle virtually every cutting job in sheet, linoleum, carpet, tile and other materials.

- Easier to use than conventional metal snips
- Cuts in three directions
- Forged steel blades
- Exclusive pinch-point wire cutter
- Unique curved handle fits comfortably
- Keeps hands safely above the work



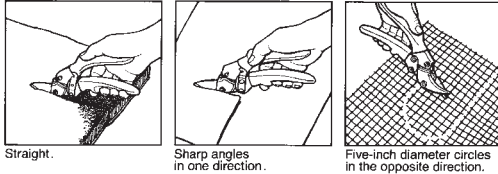
876-1145

Cuts Left (Red Handle)

876-1146

Cuts Right (Green Handle)

Offset Snips cut in three directions.

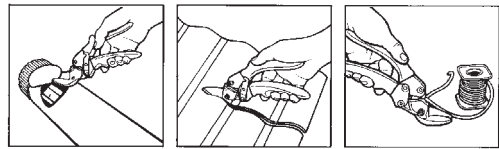


Straight.

Sharp angles in one direction.

Five-inch diameter circles in the opposite direction.

Offset Snips make difficult cuts easy.



Tight circular cuts.

Corrugated metal.

Solid and stranded wire.

### 876-F18-1T SOLDERLESS TERMINAL CRIMPER



PKG QTY. 1

Ideal for use on non-insulated solderless terminals. Special crimping dies designed to provide strong, secure bond between terminal and wire. Stripping dies will handle 22 to 10 gauge cable easily, without nicking wire. Bolt cutting dies handle five popular-sized bolts - 4-40, 6-32, 8-32, 10-24 and 10-32. Black oxide finish with deep etched markings. Jumbo cushion grip handles for added comfort - puts more power into the squeeze.

### 876-1836 ALL PURPOSE ELECTRICIAN'S TOOL



PKG QTY. 1

Has two wire cutters, cuts and strips 8 to 18 AWG solid wire or 10 to 22 AWG stranded wire, crimps insulated and non-insulated terminals, lugs and splices.

### 876-1794 WIRE STRIPPER AND CUTTER

Multi-Purpose

Strips six standard wire sizes without nicking wire: No. 10 through 20 AWG (2.6 through .8 mm) Scissors action of 1/2" wide cutter makes clean cuts with little effort. Serrated nose jaws to bend, shape, or pull wire; holes for looping wire ends. Compact; only 6" long. Coil-spring opening action reduces fatigue. Comfortable, plastic covered handles.



Length 6"  
(152 mm)

PKG QTY. 1

### 876-528 ELECTRICIANS' SCISSORS

Full length 5"  
Length of cut 1-7/8"

Hot drop-forged. Fully nickel plated. Commercial finish. Double stripping notch for 19 gauge (.035) and 23 gauge (.022) wire. Scraper and file on back edge of blade.



PKG QTY. 1

All items on this page  
PKG QTY. 1

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com






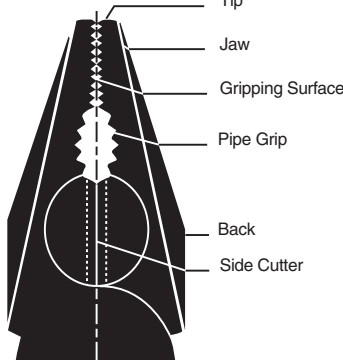
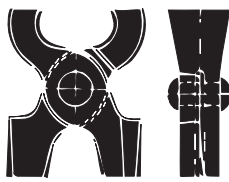
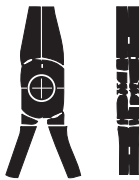
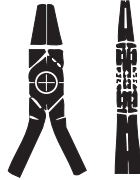



















































P119



# The Complete Plier Programme

Plier Index	Page No.
Combination Pliers	<b>P121</b>
Wire Strippers	<b>P122</b>
Round Nose Pliers	<b>P123</b>
Chain Nose Side Cutting Pliers / Snipe Nose Side Cutting Pliers	<b>P124</b>
Electronic Pliers / Relay Adjusting Pliers / Duck Bill Pliers / Mechanics' Pliers	<b>P125-P126</b>
Internal Circlip Pliers	<b>P127</b>
Retaining Ring Pliers	<b>P127-P128</b>
Carpenters' Pincers / Concretors' Nippers / End Cutting Nippers / Diagonal Cutting Nippers / Wire & Bolt Cutters / Electronic Pliers	<b>P129-P134</b>
Pipe Gripping Pliers / Plier Wrenches / Water Pump Pliers / 'Alligator' Pipe Grip & Spanner In One	<b>P135-P136</b>
Sheet Metal Nibbler / Revolving Punch Pliers / Ribbon Cable Cutters / Cable Shears / Wire Rope Cutters	<b>P137-P139</b>

## Information and Symbols used throughout the Knipex Plier Pages.

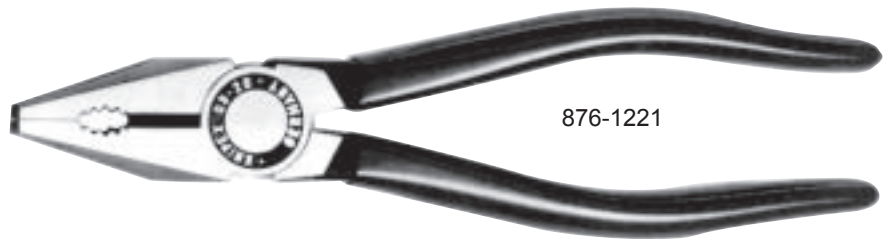
<p><b>Rivet Design</b></p>  reverse action joint rivet  forged on joint axis <p><b>Cross-Section of Jaws (basic styles)</b></p>  flat  half-round  round	<p><b>Head Parts</b></p>  <p>Tip Jaw Gripping Surface Pipe Grip Back Side Cutter</p>	<p><b>Style of Joints</b></p>  Lay-on joint  Single joint  Box joint																				
<p><b>Symbols</b></p> <table border="0"> <tr> <td> cutting edges bevelled</td> <td> with spring</td> <td> gripping surfaced smooth</td> <td> for electronics</td> </tr> <tr> <td> box joint</td> <td> cutting edges with small bevel</td> <td> with wire holding device</td> <td> gripping surfaces serrated</td> </tr> <tr> <td> centre cutter</td> <td> cutting edges without bevel (flush cutter)</td> <td> jaws angled</td> <td> gripping surfaces cross-cut</td> </tr> <tr> <td> <b>1000 V</b></td> <td colspan="3">The symbols  respectively  bearing 1000 V voltage indication and the manufacturer's trade mark KNIPEX show that the tool conforms to IEC900: 1987 or has been manufactured and tested to VDE 0680/2.</td> </tr> <tr> <td> </td> <td colspan="3">Design, production and storage tests conform to the VDE independant standard authority.</td> </tr> </table>			 cutting edges bevelled	 with spring	 gripping surfaced smooth	 for electronics	 box joint	 cutting edges with small bevel	 with wire holding device	 gripping surfaces serrated	 centre cutter	 cutting edges without bevel (flush cutter)	 jaws angled	 gripping surfaces cross-cut	 <b>1000 V</b>	The symbols  respectively  bearing 1000 V voltage indication and the manufacturer's trade mark KNIPEX show that the tool conforms to IEC900: 1987 or has been manufactured and tested to VDE 0680/2.			 	Design, production and storage tests conform to the VDE independant standard authority.		
 cutting edges bevelled	 with spring	 gripping surfaced smooth	 for electronics																			
 box joint	 cutting edges with small bevel	 with wire holding device	 gripping surfaces serrated																			
 centre cutter	 cutting edges without bevel (flush cutter)	 jaws angled	 gripping surfaces cross-cut																			
 <b>1000 V</b>	The symbols  respectively  bearing 1000 V voltage indication and the manufacturer's trade mark KNIPEX show that the tool conforms to IEC900: 1987 or has been manufactured and tested to VDE 0680/2.																					
 	Design, production and storage tests conform to the VDE independant standard authority.																					



## Combination Pliers

Special Tool Steel

- cutting edges for hard and soft wire
- oil-hardened and tempered
- cutting edges separately induction-hardened
- cutting edge hardness approx. 60 HRc
- Material: special tool steel, oil-hardened



876-1221

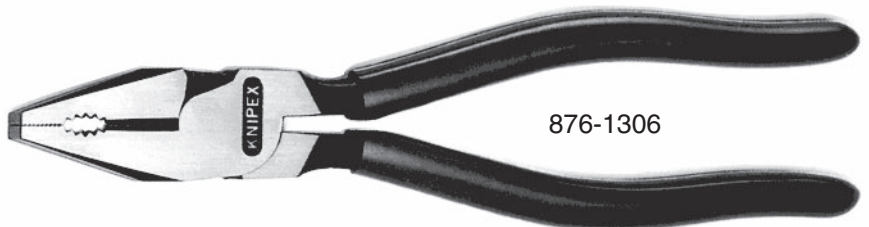


876-1322

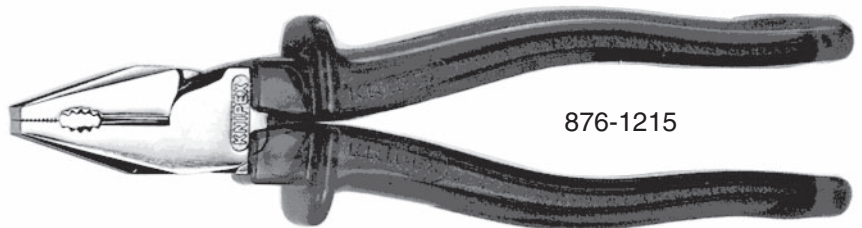
SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Cutting Ø Capacity						Wt. g
		mm	inch			Med. wire		Hard wire		Cable		
						mm	inch	mm	inch	mm	inch	
876-1218	0301140	140	5-1/2"	polished	plastic-coated	2.8	7/64"	1.8	5/64"	9.0	11/32"	100
876-1219	0301160	160	6-1/4"			3.1	1/8"	2.0	5/64"	10.0	25/64"	180
876-1220	0301180	180	7"			3.4	9/64"	2.2	5/64"	12.0	15/32"	210
876-1221	0301200	200	8"			3.8	5/32"	2.5	3/32"	13.0	1/2"	270
876-1315	0301250	250	10"			3.8	5/32"	2.5	3/32"	15.0	37/64"	460
876-1320	0306160	160	6-1/4"	chrome plated	heavily insulated	3.1	1/8"	2.0	5/64"	10.0	25/64"	200
876-1321	0306180	180	7"		VDE-tested $\Delta$ 1000 V	3.4	9/64"	2.2	5/64"	12.0	15/32"	230
876-1322	0306200	200	8"		3.8	5/32"	2.5	3/32"	13.0	1/2"	310	

## High Leverage Combination Pliers

- with new, high leverage, eccentric joint
- 50% easier cutting
- with cutting edges for soft, hard and piano wire
- long-lasting under the toughest conditions
- oil-hardened and tempered
- cutting edges separately induction-hardened
- cutting edge hardness approx. 63 HRc
- Material: Quality high grade tool steel, oil-hardened



876-1306



876-1215

SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Cutting Ø Capacity						Wt. g
		mm	inch			Hard wire		Piano wire		Cable		
						mm	inch	mm	inch	mm	inch	
876-1306	0201180	180	7"	polished	plastic-coated	2.5	3/32"	2.0	5/64"	11.5	7/16"	200
876-1307	0201200	200	8"			2.8	7/64"	2.2	5/64"	13.0	1/2"	280
876-1308	0201225	225	9"			3.0	1/8"	2.5	3/32"	14.0	9/16"	340
876-1215	0202180	180	7"	polished	heavily insulated	2.5	3/32"	2.0	5/64"	11.5	7/16"	240
876-1216	0202200	200	8"			2.8	7/64"	2.2	5/64"	13.0	1/2"	320
876-1217	0202225	225	9"			3.0	1/8"	2.5	3/32"	14.0	9/16"	380

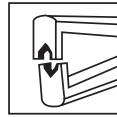
All items on this page  
PKG QTY. 1

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P121

## Wire Strippers

- with locking adjustable screw for setting the desired diameter (solid or stranded wire) up to **5 mm dia.**, resp. **10 mm<sup>2</sup>**
- internal knurled nut for one hand adjustment
- style 0: with spring action
- style 1: without spring action (not stocked)
- Material: special tool steel , oil-hardened



876-1268

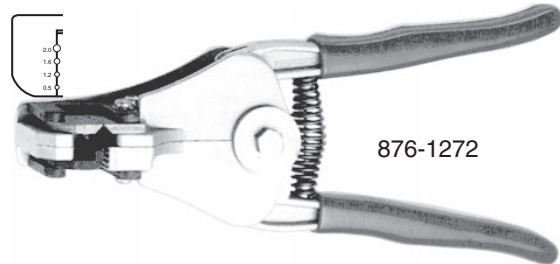


876-1333

SPAENAUR No.	Mfg. No.	O/A Length		Style	Head	Handles	Wt. g
		mm	inch				
876-1268	1101160	160	6-1/4"	0	polished	plastic-coated	120
876-1333	1106160	160	6-1/4"		chrome plated	heavily insulated VDE-tested  1000 V	140

## Automatic Insulation Stripper

- strong light-metal body
- replaceable blades of special steel with 4 and 6 positions resp. for different wire cross sections
- leaves wire undamaged; even multi-stranded conductors are stripped cleanly. During stripping the wire is held firm by clamping jaws. A length stop ensures constant stripping length on repetitive work. A spring returns the stripper to the starting position.
- wire cutter at end of blade

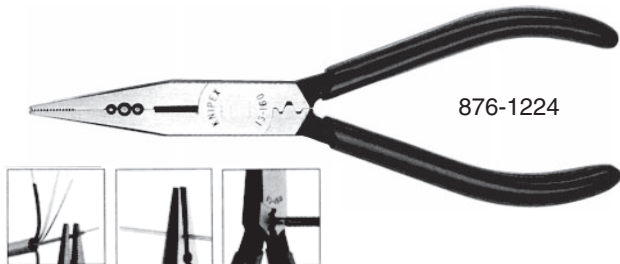


876-1272

SPAENAUR No.	Mfg. No.	O/A Length		Stripping Capacity mm <sup>2</sup>	Wt. g
		mm	inch		
876-1272	1211180	180	7"	0.5, 1.2, 1.6, 2.0	380

## Electricians' Pliers

- the ideal plier for cable work
- for cutting, stripping, crimping, gripping, bending
- for stripping wire of **0.9, 1.4, 1.8 mm dia.** resp. **0.6, 1.5, 2.5 mm<sup>2</sup>**
- for crimping cable links of **0.75, 1.5, 2.5 mm<sup>2</sup>**
- precision stripping holes and cutting edges
- cutting edges separately induction-hardened
- cutting edge hardness approx. 60 HRc
- Material: Chrome Vanadium electric steel, oil hardened



876-1224

SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Stripping Capacity		mm <sup>2</sup>	Wt. g
		mm	inch			mm	inch		
876-1224	1301160	160	6-1/4"	polished	plastic-ctd.	0.9, 1.4, 1.8	1/32", 3/64", 5/64"	0.6, 1.5, 2.5	120

## Diagonal Insulation Strippers

- essential pliers for electrical installation work
- inductively hardened precision blades for soft wire
- blade hardness approx. 62HRc
- with insulation stripping holes for single and multiple strand cables **1.5 and 2.5 mm<sup>2</sup>**
- Material: high quality special tool steel , oil-hardened

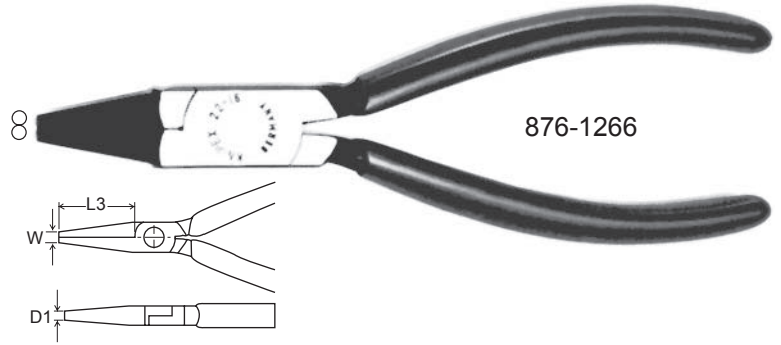
SPAENAUR No.	Mfg. No.	O/A Length		Handles	Stripping Capacity mm <sup>2</sup>	Wt. g
		mm	inch			
876-1512	1422160	160	6-1/4"	heavily insulated	1.5 + 2.5	190



876-1512

## Round Nose Pliers

- short, round jaws, precision ground
- gripping surfaces smooth
- for forming wire loops
- Material: special tool steel, oil-hardened



SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	L3		Dimensions W		D1		Wt. g
		mm	inch			mm	inch	mm	inch	mm	inch	
876-1265	2201140	140	5-1/2"	polished	plastic-coated	28	1-3/32"	16.5	21/32"	2.5	3/32"	100
876-1266	2201160	160	6-1/4"			30	1-3/16"	18.0	23/32"	3.0	1/8"	130

## Flat Nose Assembly Pliers

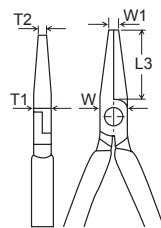
- specifically suitable for Business Machine repair work
- flat-wide jaws
- gripping surfaces serrated
- Material: Special tool steel, oil-hardened



SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Wt. g
		mm	inch			
876-1269	2801200	200	8"	polished	plastic-coated	190

## Long Nose Pliers

- Material: Chrome Vanadium electric steel, oil-hardened



### Finishes

1. Chrome Head, Plastic Coated Handle.
2. Chrome Head, Heavily Insulated Handle.
3. Polished Head, Plastic Coated Handle.

SPAENAUR No.	Mfg. No.	O/A Length		Style	Fin.	L3		W		Dimensions T1		W1		T2		Wt. g
		mm	inch			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
876-1347	3013160	160	6-1/4"	1	1	46.5	1-27/32"	16.5	21/32"	9.5	3/8"	3.0	1/8"	5.0	13/64"	110
876-1349	3015160	160	6-1/4"	2	2	46.5	1-27/32"	16.5	21/32"	9.5	3/8"	3.0	1/8"	5.0	13/64"	140
876-1350	3015190	190	7-1/2"	2	2	50.0	1-31/32"	17.0	43/64"	8.0	5/16"	3.0	1/8"	7.0	17/64"	160
876-1356	3021140	140	5-1/2"	2	3	42.0	1-21/32"	15.0	19/32"	8.0	5/16"	2.5	3/32"	2.0	5/64"	100
876-1357	3021160	160	6-1/4"	2	3	50.0	1-31/32"	16.5	21/32"	9.5	3/8"	3.0	1/8"	2.5	3/32"	120
876-1358	3021190	190	7-1/2"	2	3	50.0	1-31/32"	17.0	43/64"	8.0	5/16"	3.0	1/8"	2.4	3/32"	130

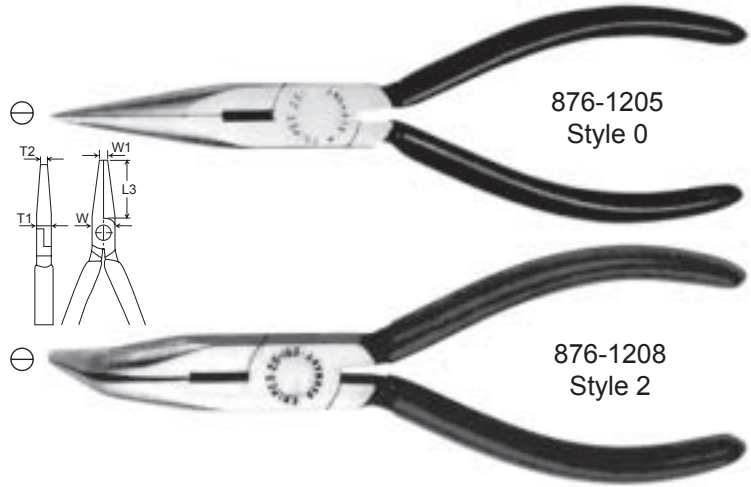
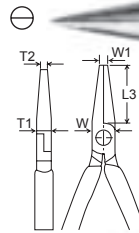
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PKG QTY. 1

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

P123

## Chain Nose Side Cutting Pliers (Radio Pliers)

- with cutting edges for hard and soft wire
- flat-round jaws
- gripping surfaces serrated
- cutting edges separately induction-hardened
- cutting edge hardness approx. 60 HRc
- Style 0: straight jaws
- Style 2: jaws angled at 45°
- Material: special tool steel, oil-hardened



876-1205  
Style 0

876-1208  
Style 2

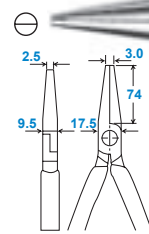
**Finishes**

1. Polished Head, Plastic Coated Handle
2. Chrome Plated Head, Plastic Coated Handle
3. Chrome Plated Head, Heavily Insulated Handle
4. Chrome Plated Head, Heavily Transparent Insulation Handle VDE Tested 1000 v

SPAENAUR No.	Mfg. No.	O/A Length		Style	Fin.	Dimensions										Wt. g
		mm	inch			L3		W		T1		W1		T2		
876-1205	2501125	125	5"	0	1	27	1-1/16"	13.0	1/2"	7.0	9/32"	2.5	3/32"	1.8	5/64"	60
876-1206	2501140	140	5-1/2"	0	1	42	1-21/32"	15.0	19/32"	8.0	5/16"	2.5	3/32"	2.0	5/64"	80
876-1207	2501160	160	6-1/4"	0	1	50	1-15/16"	16.5	21/32"	9.5	3/8"	3.0	1/8"	2.5	3/32"	100
876-1337	2505140	140	5-1/2"	0	3	42	1-21/32"	15.0	19/32"	8.0	5/16"	2.2	5/64"	2.0	5/64"	100
876-1338	2505160	160	6-1/4"	0	3	50	1-15/16"	16.5	21/32"	9.5	3/8"	3.0	1/8"	2.5	3/32"	130
876-1339	2506160	160	6-1/4"	0	4	50	1-15/16"	16.5	21/32"	9.5	3/8"	3.0	1/8"	2.5	3/32"	140
876-1208	2521160	160	6-1/4"	2	1	50	1-15/16"	16.5	21/32"	9.5	3/8"	3.0	1/8"	2.5	3/32"	115

## Snipe Nose Side Cutting Pliers (Stork Beak Pliers)

- long, flat-round jaws
- gripping surfaces serrated
- with cutting edges for hard and soft wire
- cutting edges separately induction-hardened
- cutting edge hardness approx. 60 HRc
- Style 1: straight jaws
- Style 2: jaws angled at 45°
- Material: special tool steel, oil-hardened



876-1209  
Style 1

876-1344  
Style 2

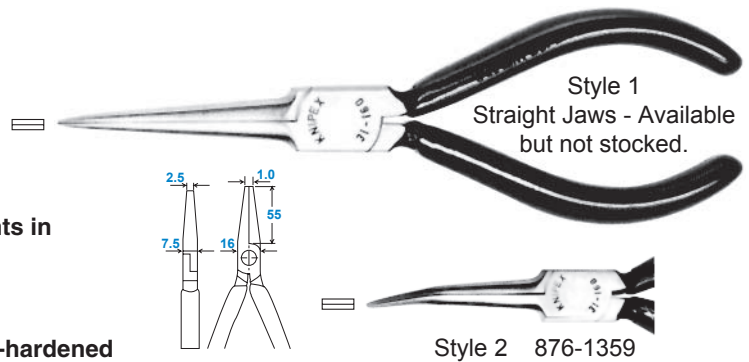
SPAENAUR No.	Mfg. No.	O/A Length		Style	Head	Handles	Wt. g
		mm	inch				
876-1209	2611200	200	8"	1	polished	plastic-coated	160
876-1340	2613200	200	8"		chrome plated	plastic-coated	160
876-1341	2615200	200	8"		chrome plated	heavily insulated	180
876-1342	2616200	200	8"		chrome plated	heavily insulated VDE-tested  1000 v	180
876-1210	2621200	200	8"	2	polished	plastic-coated	180
876-1344	2625200	200	8"		chrome plated	heavily insulated	180



## Electronics Pliers (Needle Nose Pliers)



- 55 mm extra long jaws
- gripping surfaces smooth
- sharp edges carefully removed
- for the adjustment and bending of components in electronic equipment
- Style 1: straight jaws (not stocked)
- Style 2: 45° angled jaws
- Material: Chrome Vanadium electric steel, oil-hardened

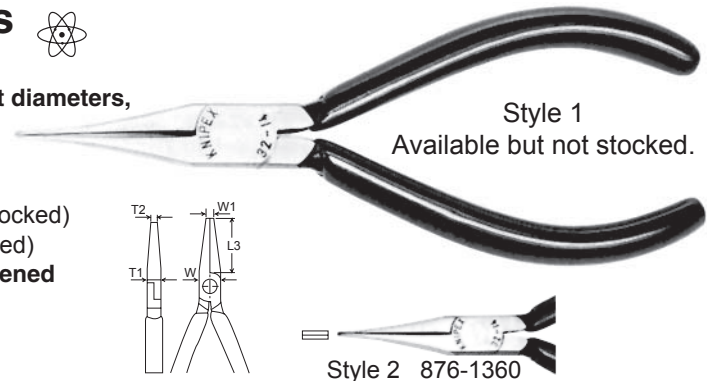


SPAENAUR No.	Mfg. No.	O/A Length		Style	Head	Handles	Wt. g
		mm	inch				
876-1359	3121160	160	6-1/4"	2	polished	plastic-coated	80

## Relay Adjusting Pliers



- gripping surfaces polished
- for gripping components and wires of the smallest diameters, as well as bending contact and relay springs
- Style 1: flat-pointed jaws (not stocked)
- Style 2: flat-wide jaws
- Style 3: jaws angled at an upward 40° curve (not stocked)
- Style 4: jaws right angled sideways (90°) (not stocked)
- Material: Chrome Vanadium electric steel, oil-hardened

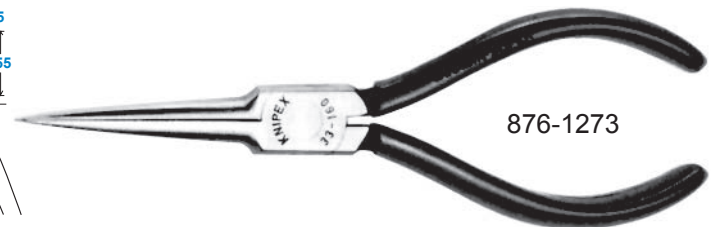
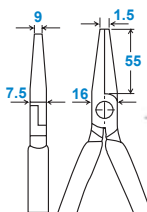


Finishes  
1. Polished Head, Soft Plastic Coated Handles

SPAENAUR No.	Mfg. No.	O/A Length		Style	Fin.	Dimensions										Wt. g
		mm	inch			L3	W	T1	W1	T2	mm	inch	mm	inch	mm	
876-1360	3221135	135	5-1/4"	2	1	34	1-11/32"	12.5	31/64"	7.0	9/32"	1.0	1/32"	3.5	9/64"	60

## Duck Bill Pliers



- jaws 9 mm wide and reducing to 1.5 mm thickness
- gripping surfaces smooth
- Material: Chrome Vanadium electric steel, oil-hardened

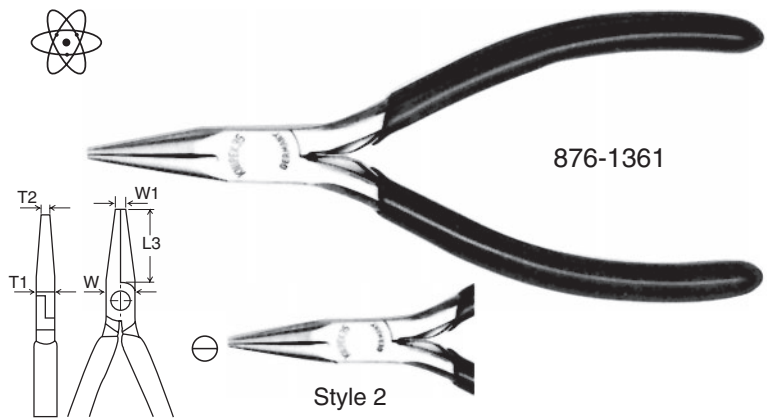


SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Wt. g
		mm	inch			
876-1273	3301160	160	6-1/4"	polished	plastic-coated	100



All items on this page  
PKG QTY. 1

## Electronics Pliers

- zero play box joint 
- smooth gripping surfaces 
- precision tips for very fine electronic and precision assembly work
- with captive, frictionless double spring
- for gripping, holding and bending:
  - Style 1: flat-wide jaws (not stocked)
  - Style 2: flat-round jaws
- for forming wire loops or wire eyes:
  - Style 3: round-pointed jaws (not stocked)
- Material: special tool steel, oil-hardened




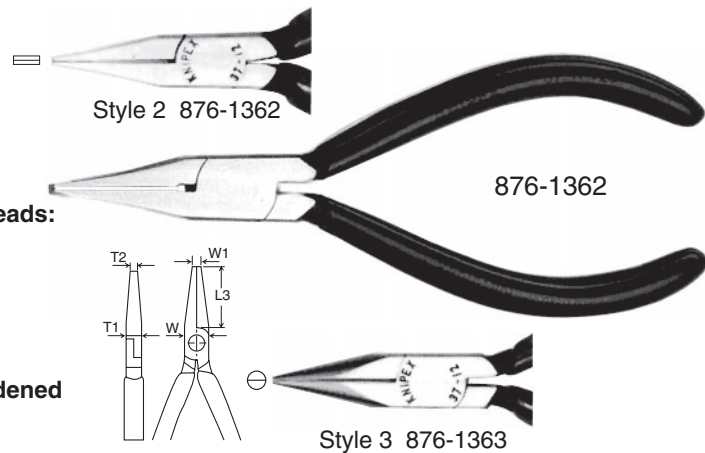
Finishes  
1. Polished Head, Soft, Plastic Coated Handles

SPAENAUR No.	Mfg. No.	O/A Length		Style	Fin.	Dimensions										Wt. g
		mm	inch			L3 mm	L3 inch	W mm	W inch	T1 mm	T1 inch	W1 mm	W1 inch	T2 mm	T2 inch	
876-1361	3521115	115	4-1/2"	2  	1	22.5	57/64"	9.5	3/8"	6.5	1/4"	2.0	5/64"	1.5	1/16"	50





## Relay Adjusting Pliers

(Watchmakers Pliers) 

- smooth gripping surfaces 
- sharp edges carefully removed
- for gripping and adjusting components and wire leads:
  - Style 1: flat-wide jaws (not stocked)
  - Style 2: flat-pointed jaws
- for bending contact and relay springs:
  - Style 3: flat-round jaws
  - Style 4: round-pointed jaws (not stocked)
- Material: Chrome Vanadium electric steel, oil-hardened

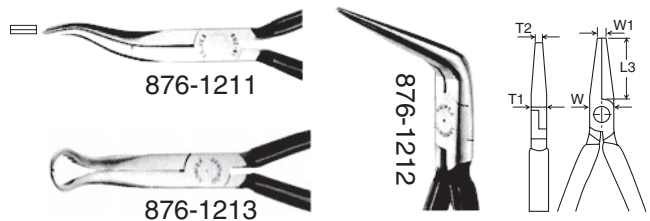


Finishes  
1. Polished Head, Soft Plastic Coated Handles





SPAENAUR No.	Mfg. No.	O/A Length		Style	Fin.	Dimensions										Wt. g
		mm	inch			L3 mm	L3 inch	W mm	W inch	T1 mm	T1 inch	W1 mm	W1 inch	T2 mm	T2 inch	
876-1362	3721125	125	5"	2  	1	27	1-1/16"	12.5	31/64"	7.0	17/64"	2.0	5/64"	2.0	5/64"	60
876-1363	3731125	125	5"	3  	1	27	1-1/16"	13	33/64"	7.0	17/64"	2.0	5/64"	1.7	1/16"	60

## Mechanics' Pliers

- strong, serrated gripping surfaces
- 876-1211: for gaining entry to inaccessible parts
- 876-1212: ideal for gripping different materials
- 876-1213: ideal for gripping small hoses, clamps, spark plug covers and other small components
- Material: vanadium steel, oil-hardened

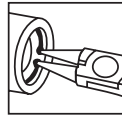


Finishes  
2. Polished Head, Plastic Coated Handles

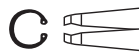
SPAENAUR No.	Mfg. No.	O/A Length		Style	Fin.	Dimensions										Wt. g
		mm	inch			L3 mm	L3 inch	W mm	W inch	T1 mm	T1 inch	W1 mm	W1 inch	T2 mm	T2 inch	
876-1211	3831200	200	8"	 	2	73	2-7/8"	17.5	11/16"	9.5	3/8"	3.0	1/8"	2.5	3/32"	170
876-1212	3871200	200	8"	 70°	2	73	2-7/8"	17.5	11/16"	9.5	3/8"	3.0	1/8"	2.0	5/64"	160
876-1213	3891200	200	8"	 45°	2	73	2-7/8"	17.5	11/16"	9.5	3/8"	—	—	2.5	3/32"	170

All items on this page  
PKG QTY. 1

## Internal Circlip Pliers



Style 1 straight  
Style 2  $\sphericalangle 90^\circ$





876-1236

- Solid style, forged
- Precision non-slip tips
- Material: Chrome Vanadium electric steel, oil-hardened

Model 876-1380, 876-1558, 876-1385, and 876-1386 tips are tempered steel and are replaceable. Pliers are black powder coated sheet steel construction.

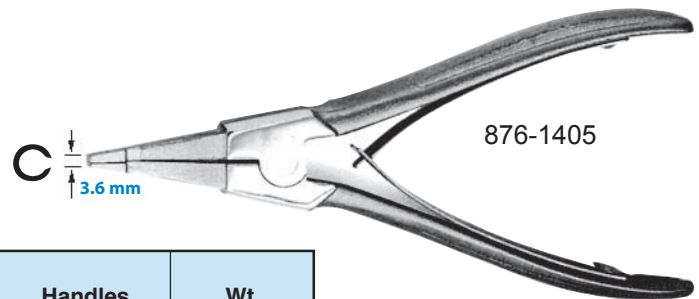


SPAENAUR No.	Mfg. No.	Style	Head	Handles	For Size of bore Ø mm	Length mm	Wt. g
876-1630	4411J0	1  Straight	polished	plastic-coated	8 - 13	140	90
876-1235	4411J1				12 - 25	140	80
876-1236	4411J2				19 - 60	180	130
876-1237	4411J3				40 - 100	225	190
876-1238	4411J4				85 - 140	320	460
876-1384	4413J4				85 - 140	320	1420
876-1380	4410J5	2  $\sphericalangle 90^\circ$	burnished	black, powder ctd.	122 - 300	570	1420
876-1558	4410J6				252 - 400	580	1420
876-1632	4421J01				8 - 13	130	90
876-1239	4421J11				12 - 25	130	80
876-1240	4421J21				19 - 60	170	135
876-1241	4421J31				40 - 100	215	200
876-1242	4421J41	85 - 140	300	460			
876-1385	4420J51		burnished	black, powder ctd.	122 - 300	590	1480
876-1386	4420J61				252 - 400	600	1480

SPAENAUR No.	Mfg. No.	Description	
876-1425	4419J5	Spare Tips for 876-1380 (PKG QTY. 1 Pair)	Only use circlips which comply with DIN regulations. Loosen tight circlips before removing them. Only use internal circlip pliers for the specified diameter range. We recommend that goggles are always worn when working with these pliers.
876-1199	4419J6	Spare Tips for 876-1558 (PKG QTY. 1 Pair)	
876-1641	4429J51	Spare Tips for 876-1385 (PKG QTY. 1 Pair)	
876-1654	4429J61	Spare Tips for 876-1386 (PKG QTY. 1 Pair)	

## Special Retaining Ring Pliers

- for fitting horseshoe-shaped spring retaining rings without grip holes
- for shaft retaining devices
- Material: Chrome Vanadium electric steel

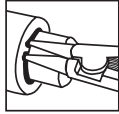


876-1405

SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles (Checkered)	Wt. g
		mm	inch			
876-1405	4510170	170	6-3/4"	black oxide	black oxide	160

All items on this page PKG QTY. 1

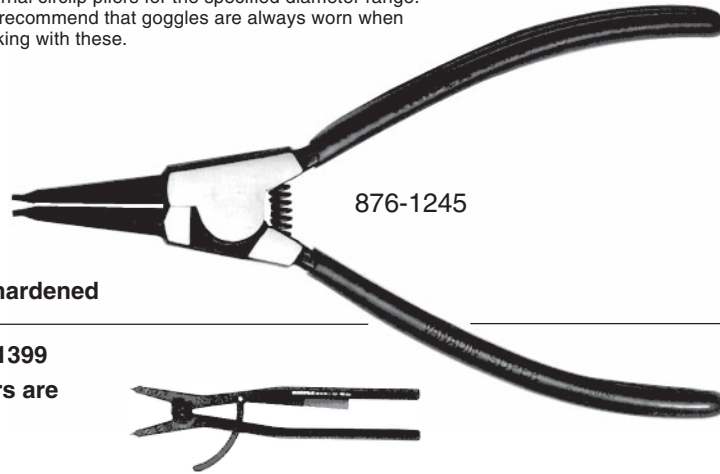
## External Circlip Pliers



Style 1 Straight  
Style 2  $\sphericalangle$  90°



Only use circlips which comply with DIN regulations. Loosen tight circlips before removing them. Only use external circlip pliers for the specified diameter range. We recommend that goggles are always worn when working with these.



- solid style, forged
- precision non slip tips
- Material: Chrome Vanadium electric steel, oil-hardened

Models 876-1391, 876-1392, 876-1398 and 876-1399 tips are tempered steel and are replaceable. Pliers are black powder coated, sheet steel construction.

SPAENAUR No.	Mfg. No.	Style	Head	Handles	For Size of shaft Ø mm	Length mm	Wt. g
876-1243	4611A0	 1 straight	polished	plastic-coated	3 - 10	140	80
876-1244	4611A1				10 - 25	140	80
876-1245	4611A2				19 - 60	180	140
876-1246	4611A3				40 - 100	210	200
876-1247	4611A4				85 - 140	315	490
876-1391	4610A5		burnished	black, powder ctd.	122 - 300	560	1440
876-1392	4610A6				252 - 400	570	1420
876-1248	4621A01	 2 $\sphericalangle$ 90°	polished	plastic-coated	3 - 10	125	80
876-1249	4621A11				10 - 25	125	80
876-1250	4621A21				19 - 60	170	130
876-1251	4621A31				40 - 100	200	200
876-1252	4621A41				85 - 140	300	490
876-1398	4620A51		burnished	black, powder ctd.	122 - 300	580	1390
876-1399	4620A61				252 - 400	570	1400

SPAENAUR No.	Mfg. No.	Description
876-1427	4619A5	Spare Tips for 876-1391
876-1655	4619A6	Spare Tips for 876-1392
876-1426	4629A51	Spare Tips for 876-1398
876-1656	4629A61	Spare Tips for 876-1399

PKG QTY. 1 Pair

All items on this page  
PKG QTY. 1

## Carpenters' Pincers

- especially favoured by craftsmen for precision workmanship, extreme wear resistance and good balance

- heavy duty
- Material: special tool steel, oil-hardened

SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Wt. g
		mm	inch			
876-1274	5000130	130	5-1/4"	polished	black atramentized	120
876-1275	5000160	160	6-1/4"			220



876-1274

## Concretors' Nippers

### (Tower Pincers/Steel Fixers Nippers)

- for concrete reinforcing wire
- to twist and cut binding wire in one operation
- precision and long life make these the most widely purchased tool of their kind in the world
- Material: special tool steel, oil-hardened



876-1259

SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Wt. g
		mm	inch			
876-1253	9900200	200	8"	polished	black atramentized	220
876-1255	9900250	250	10"			400
876-1259	9901220	220	8-1/2"	polished	plastic-coated	350
876-1262	9901300	300	12"			510

## High Leverage Concretors' Nippers

- for safe working to protect the wrist
- optimum cutting capacity with low force due to high leverage
- cutting capacity: soft wire up to max. 4.5 mm (3/16") in diameter
- high damping after cutting - easy on tendons and muscles
- Material: special tool steel, oil-hardened

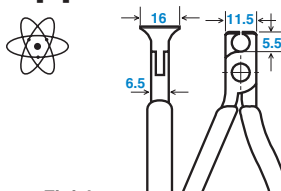


876-1506

SPAENAUR No.	Mfg. No.	O/A Length		Head width		Head	Handles	Wt. g
		mm	inch	mm	inch			
876-1506	9910300	300	12"	25	1"	polished	black atramentized	465

## Electronics End Cutting Nippers

- box joint
- with captive, frictionless double spring
- cutting edge hardness approx. 56 HRC
- Style 0: bevelled, for cutting soft and medium-hard wires
- Style 1: non-bevelled, for cutting copper wire and diode leads flush with surface
- Material: special tool steel, oil-hardened



Finishes

1. Polished Head, Soft Plastic-Coated Handles.



Style 0

876-1406

SPAENAUR No.	Mfg. No.	O/A Length		Style	Finishes	Cutting Ø Capacity						Wt. g
		mm	inch			Soft Wire		Med-Hd Wire		Hard Wire		
						mm	inch	mm	inch	mm	inch	
876-1406	6401115	115	4-1/2"	0		0.3-1.6	1/64"-1/16"	1.0	3/64"	0.5	1/64"	55
876-1407	6411115	115	4-1/2"	1		0.3-1.4	1/64"-3/64"	0.8	1/32"	-	-	55

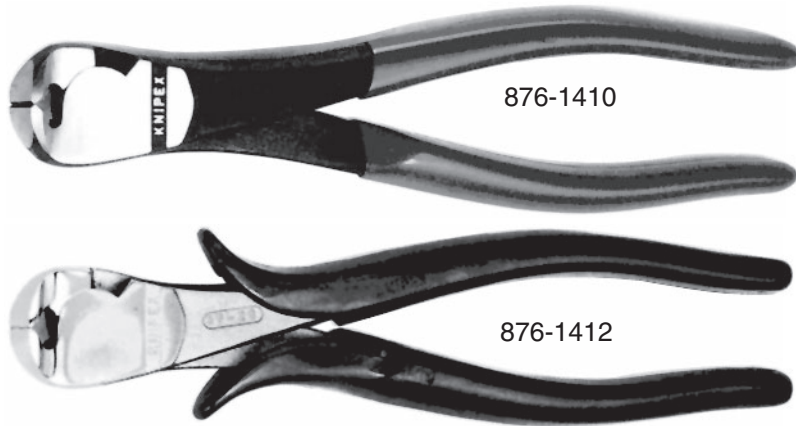
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P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

P129

## High Leverage End Cutting Nippers

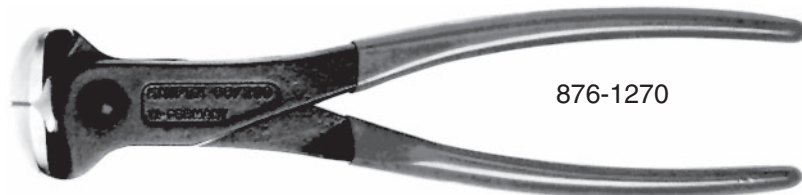
- for piano wire, and soft wire
- cutting edges separately induction-hardened
- cutting edge hardness approx. 64 HRc
- Material: Chrome Vanadium electric steel, oil-hardened



SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Cutting Ø Capacity								Wt. g
		mm	inch			Soft Wire		Med-Hd Wire		Hard Wire		Piano Wire		
						mm	inch	mm	inch	mm	inch	mm	inch	
876-1408	6701140	140	5-1/2"	polished	plastic-coated	4.0	5/32"	3.1	1/8"	2.0	5/64"	1.5	1/16"	150
876-1409	6701160	160	6-1/4"			4.0	5/32"	3.4	9/64"	2.5	3/32"	2.0	5/64"	240
876-1410	6701200	200	8"			4.0	5/32"	4.2	11/64"	3.0	1/8"	2.5	3/32"	325
876-1412	6705160	160	6-1/4"	chrome plated	heavily insulated	4.0	5/32"	3.1	1/8"	2.5	3/32"	2.0	5/64"	260

## End Cutting Nippers

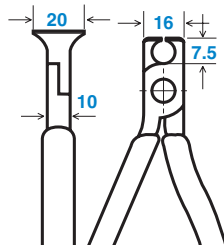
- for hard and soft wire
- cutting edges separately induction-hardened
- cutting edge hardness approx. 60 HRc
- ideal for cutting soft and annealed tie wire
- Material: special quality high grade tool steel, oil-hardened



SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Cutting Ø Capacity						Wt. g
		mm	inch			Soft Wire		Med-Hd Wire		Hard Wire		
						mm	inch	mm	inch	mm	inch	
876-1270	6801160	160	6-1/4"	polished	plastic-coated	4.0	5/32"	2.8	7/64"	2.3	3/32"	200

## Mechanics End Cutting Nippers

- for piano wire, and thin copper wire
- cutting edges separately induction-hardened
- cutting edge hardness approx. 63 HRc
- Material: Chrome Vanadium electric steel, oil-hardened



SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Cutting Ø Capacity								Wt. g
		mm	inch			Soft Wire		Med-Hd Wire		Hard Wire		Piano Wire		
						mm	inch	mm	inch	mm	inch	mm	inch	
876-1413	6903130	130	5-1/4"	chr. plated	plastic-coated	2.0	5/64"	1.3	3/64"	1.0	3/64"	0.75	1/32"	115

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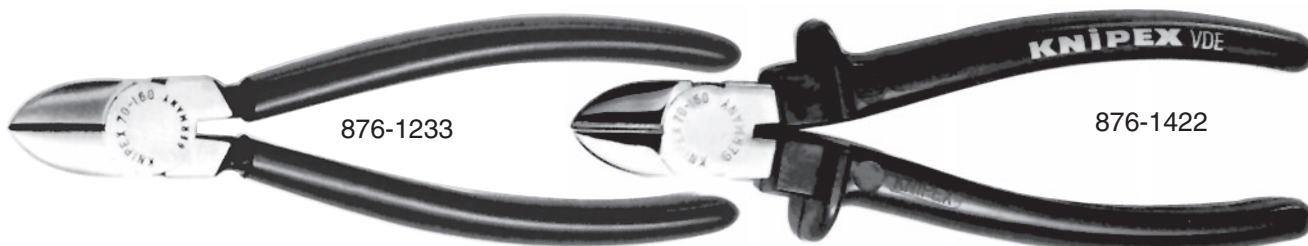
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CATALOG 14

SPAENAUR

## Diagonal Cutting Nippers

- for soft and hard wires
- induction-hardened precision cutting edges
- cutting edge hardness approx. 62 HRc



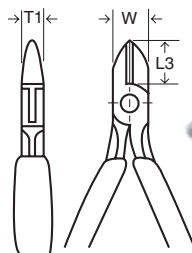
SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Cutting Ø Capacity						Wt. g
		mm	inch			Soft Wire		Med-Hd Wire		Hard Wire		
						mm	inch	mm	inch	mm	inch	
876-1232	7001125	125	4-7/8"	polished	plastic-coated	3.0	1/8"	2.3	3/32"	1.5	1/16"	90
876-1233	7001160	160	6-1/4"			4.0	5/32"	2.8	7/64"	2.0	5/64"	170
876-1234	7001180	180	7"			4.0	5/32"	3.0	1/8"	2.5	3/32"	200
876-1422	7006140	140	5-1/2"	chrome plated	heavily insulated VDE-tested 1000 V	4.0	5/32"	2.5	3/32"	1.8	5/64"	135
876-1424	7006180	180	7"			4.0	5/32"	3.0	1/8"	2.5	3/32"	240

## Electronic Diagonal Cutting Nippers

(heavy pattern)



- box joint
- captive, frictionless double spring
- cutting edges separately induction-hardened
- cutting edge hardness approx. 60 HRc
- Style 1: additional with automatic holding device, no uncontrolled jump offs - no disturbance in circuits
- Material: special tool steel, oil-hardened



### Finishes

1. Polished Head, Soft Plastic Coated Handles

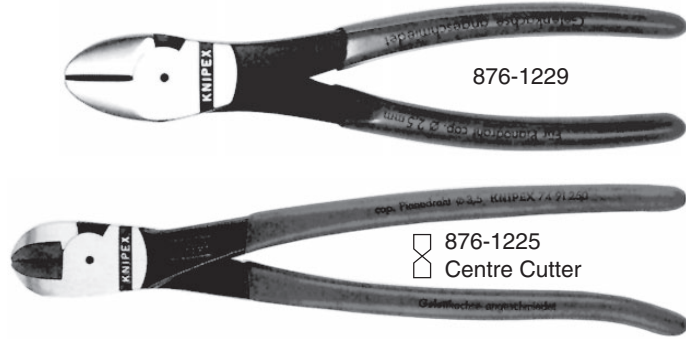
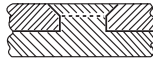
SPAENAUR No.	Mfg. No.	O/A Length		Style	Fin.	Dimensions						Cutting Ø Capacity				Wt. g
		mm	inch			L3		W		T1		Soft Wire		Hard Wire		
						mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
876-1367	7701115	115	4-1/2"	0	1	14	9/16"	11	7/16"	7.5	19/64"	1.6	1/16"	0.5	1/64"	70

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### High Leverage Diagonal Cutting Nippers

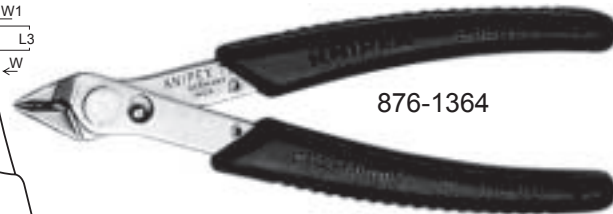
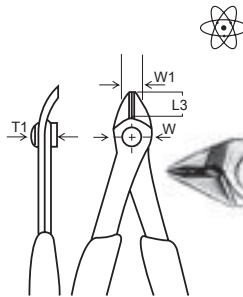
- with fixed, forged-on articulated axle for heaviest duty
- suitable for piano wire and equally for soft wire
- induction-hardened precision cutting edges
- cutting edge hardness approx. 64 HRc
- little effort is required thanks to the proper coordination of cutting edge angle, leverage ratio and handle shape
- the **250 mm** long Diagonal Cutting Nippers are suitable for Cu-cable up to **16 mm<sup>2</sup>** and Alu-cables up to **35 mm<sup>2</sup>**
- High Leverage Centre Cutters 876-1225 cut hard or thick wires with less effort than equally long Diagonal Cutting Nippers
- Material: Chrome Vanadium electric steel, oil-hardened



SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Soft Wire		Cutting Ø		Capacity Hard Wire		Piano Wire		Wt. g
		mm	inch			mm	inch	mm	inch	mm	inch	mm	inch	
876-1226	7401140	140	5-1/2"	polished	plastic-coated	4.0	5/32"	3.1	1/8"	2.0	5/64"	1.5	1/16"	130
876-1227	7401160	160	6-1/4"					3.4	9/64"	2.5	3/32"	2.0	5/64"	170
876-1228	7401180	180	7"					3.8	5/32"	2.7	7/64"	2.2	5/64"	220
876-1229	7401200	200	8"					4.2	11/64"	3.0	1/8"	2.5	3/32"	260
876-1230	7401250	250	10"					4.6	3/16"	3.5	9/64"	3.0	1/8"	380
876-1379	7406160	160	6-1/4"	chrome plated	heavily insulated VDE-tested	4.0	5/32"	3.4	9/64"	2.5	3/32"	2.0	5/64"	200
876-1225	7491250	250	10"	polished	plastic-coated	5.0	13/64"	5.0	13/64"	3.8	5/32"	3.5	9/64"	390

### Electronic Super Knips

- for soft wire - non-bevelled cutting edges, precision ground, for flush cutting
- cutting edges hardness approx. 56 HRc
- precise styled tips also cut tying wires from **0.2 mm** dia.
- zero-play joint with high-grade steel rivet
- extremely easy action, fatigue-proof working
- with opening limit
- Material: INOX - stainless steel



**Finishes**

1. Polished Head, Soft Plastic Coated handles

SPAENAUR No.	Mfg. No.	O/A Length		Style	Fin.	Dimensions						Cutting Ø Capacity				Wt. g		
		mm	inch			L3	W	T1	W1	Soft Wire	Med-hd Wire	Hard Wire	Piano Wire					
876-1364	7803125	125	4-7/8"	0	1	9.0	11/32"	13.5	11/16"	7.5	19/64"	—	—	1.6	1/16"	1.0	3/64"	50

### Compact Wire and Bolt Cutters

- for piano wire or for soft solid wire, bolts, nails, rivets and screws.
- induction-hardened precision cutting edges
- cutting edge hardness approx. 64 HRc
- exceptional cutting performance with little physical effort through lever action
- ergonomically styled handles
- Material: Chrome Vanadium electric steel, oil-hardened



**Finishes**

1. Atramentized Head, Plastic Coated Handles

SPAENAUR No.	Mfg. No.	O/A Length		Fin.	Soft Wire		Cutting Ø		Capacity		Piano Wire	Wt. g	
		mm	inch		mm	inch	mm	inch	mm	inch			
876-1231	7101200	200	8"	1	6.0	15/64"	5.2	13/64"	4.0	5/32"	3.6	9/64"	340

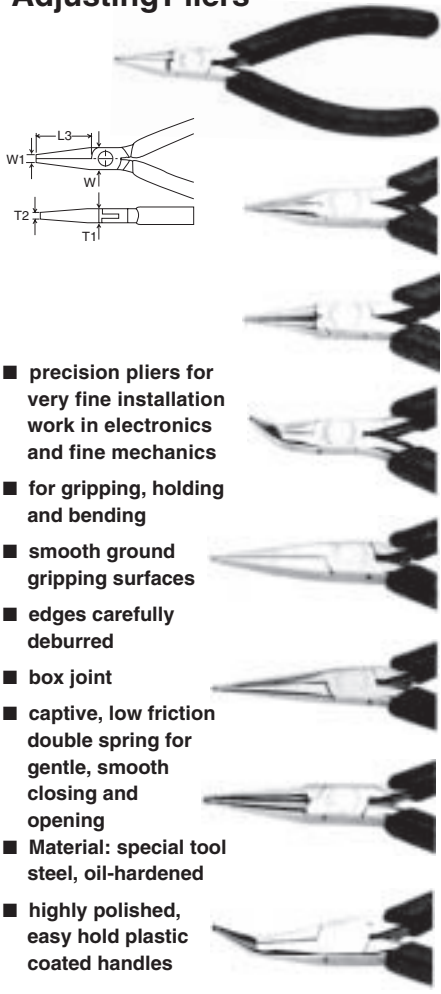
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CATALOG 14

SPAENAUR



### Electronic Pliers Gripping and Adjusting Pliers



- precision pliers for very fine installation work in electronics and fine mechanics
- for gripping, holding and bending
- smooth ground gripping surfaces
- edges carefully deburred
- box joint
- captive, low friction double spring for gentle, smooth closing and opening
- Material: special tool steel, oil-hardened
- highly polished, easy hold plastic coated handles

SPAENAUR No. (Mfg. No.)	Length mm inch	Style	Dimensions					Cutting Capacity *soft Ø mm/in.	Wt. g
			W1 mm inch	L3 mm inch	W mm inch	T1 mm inch	T2 mm inch		
876-1276 (3512)	115 4-1/2"	flat, wide jaws	2.0 0.079"	22.5 0.89"	9.5 0.37"	6.5 0.26"	4.0 0.16"	— —	50
876-1277 (3522)	115 4-1/2"	flat-round jaws	2.0 0.079"	22.5 0.89"	9.5 0.37"	6.5 0.26"	1.5 0.059"	— —	60
876-1278 (3532)	115 4-1/2"	pointed, round jaws for forming wire loops	2.0 0.079"	22.5 0.89"	9.5 0.37"	6.5 0.26"	1.0 0.039"	— —	60
876-1279 (3542)	115 4-1/2"	45° angled, flat-round jaws	2.0 0.079"	22.5 0.89"	9.5 0.37"	6.5 0.26"	1.5 0.059"	— —	50
876-1280 (3552)	145 5-3/4"	flat, long jaws	1.5 0.059"	40.0 1.57"	12.0 0.47"	7.5 0.30"	4.0 0.16"	— —	80
876-1281 (3562)	145 5-3/4"	flat-round, long jaws	2.5 0.098"	40.0 1.57"	12.0 0.47"	7.5 0.30"	1.5 0.059"	— —	90
876-1282 (3572)	145 5-3/4"	round, long jaws	2.5 0.098"	40.0 1.57"	12.0 0.47"	7.5 0.30"	1.3 0.051"	— —	80
876-1283 (3582)	145 5-3/4"	45° angled, flat-round long jaws	2.5 0.098"	35.0 1.38"	12.0 0.47"	7.5 0.30"	1.0 0.039"	— —	80

All items on this page - PKG QTY. 1

### Symbols

	cutting edges bevelled		with spring		gripping surfaced smooth		for electronics
	box joint		cutting edges with small bevel		with wire holding device		gripping surfaces serrated
	centre cutter		cutting edges without bevel (flush cutter)		jaws angled		gripping surfaces cross-cut
							for wire rope



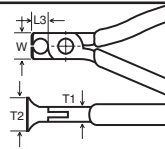
The symbols respectively bearing 1000 V voltage indication and the manufacturer's trade mark KNIPEX show that the tool conforms to IEC900: 1987 or has been manufactured and tested to VDE 0680/2.



Design, production and storage tests conform to the VDE independant standard authority.

### End Cutting Nipper

- with box joint, no play - reduces wear



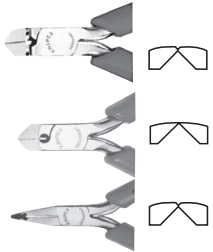
SPAENAUR No. (Mfg. No.)	Approx. Lgth. mm inch	Style	Dimensions				Cutting Capacity Maximum		Wt. g
			L3 mm inch	W mm inch	T1 mm inch	T2 mm inch	*Soft mm inch	*Hard Ø mm/in.	
<b>876-1288</b> (6412)	115 4-1/2"	without bevel, for mirror cutting soft wire types	6.0 0.24"	11.0 0.43"	7.0 0.28"	16.0 0.63"	2.0 0.079"	0.5 0.020"	80

- captive, frictionless double spring to produce gentle and even operation

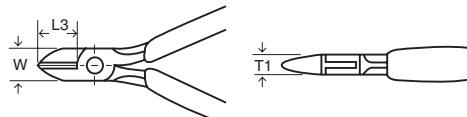
- cutting edge hardness approx. 56HRc

- Material: special tool steel, oil-hardened

- Head polished, heavy duty plastic coated handles



<b>876-1290</b> (6432)	120 4-3/4"	flush	10.0 0.39"	11.0 0.43"	7.0 0.28"	17.0 0.67"	1.5 0.059"	0.5 0.020"	80
<b>876-1291</b> (6452)	115 4-1/2"	short head, full flush	10.0 0.39"	10.5 0.41"	7.0 0.28"	12.0 0.47"	1.3 0.051"	—	60
<b>876-1292</b> (6462)	120 4-3/4"	micro, flush	18.5 0.73"	9.5 0.37"	6.0 0.24"	5.0 0.20"	0.6 0.024"	—	60



### Diagonal Cutting Nippers

- box joint

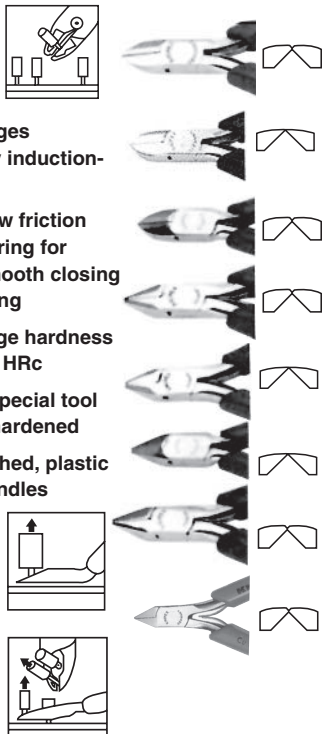
- cutting edges separately induction-hardened

- captive, low friction double spring for gentle, smooth closing and opening

- cutting edge hardness approx 60 HRc

- Material: special tool steel, oil-hardened

- head polished, plastic coated handles



<b>876-1293</b> 7702	115 4-1/2"	round, flush	14.0 0.55"	11.0 0.43"	7.5 0.30"	—	1.6 0.062"	0.5 0.020"	70
<b>876-1294</b> 7722	115 4-1/2"	with a small or no bevel for mirror	14.0 0.55"	11.0 0.43"	7.5 0.30"	—	1.3 0.051"	—	70
<b>876-1295</b> 7722	130 5"	with a small or no bevel for mirror	18.0 0.71"	14.0 0.55"	9.5 0.37"	—	2.0 0.079"	—	110
<b>876-1296</b> 7732	115 4-1/2"	pointed head with small or normal bevel	14.0 0.55"	11.0 0.43"	7.0 0.28"	—	1.3 0.051"	0.5 0.020"	70
<b>876-1297</b> 7742	115 4-1/2"	pointed head without bevel	14.0 0.55"	11.0 0.43"	7.0 0.28"	—	1.3 0.051"	—	75
<b>876-1299</b> 7742	130 5"	pointed head without bevel	18.0 0.71"	14.0 0.55"	9.5 0.37"	—	1.6 0.062"	—	115
<b>876-1300</b> 7752	115 4-1/2"	flat ground, flush	11.5 0.45"	14.0 0.55"	7.0 0.28"	—	1.0 0.039"	0.5 0.020"	70
<b>876-1302</b> 7772	115 4-1/2"	pointed mini head, with small bevel	10.5 0.41"	9.5 0.37"	6.0 0.24"	—	1.0 0.039"	—	55

#### Safety advice:

Always wear goggles when using cutting pliers.

- \* Wire: soft, tensile strength approx.: 22 kp/mm<sup>2</sup>, 220N/mm<sup>2</sup>; material example: copper, plastic o.e.
- \* Wire: hard, tensile strength approx.: 180 kp/mm<sup>2</sup>, 1800N/mm<sup>2</sup>; material example: rope wire and spring wire.

All items on this page PKG QTY. 1

## Pipe Gripping Pliers

- with serrated gripping jaws
- 4-position adjustable slip joint
- ideally suitable for tightening and removing plastic pipe joints and unions, round union or swivel nuts etc., up to 65 mm dia.
- Material: Chrome Vanadium electric steel, oil-hardened



876-1214

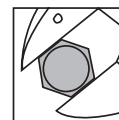
SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Working Ø Cap.		Wt. g
		mm	inch			mm	inch	
876-1214	8103230	230	9-1/4"	chrome plated	plastic-coated	25 - 65	1" - 2-9/16"	280

## Plier Wrenches Patented

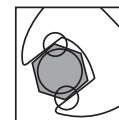
- plier and wrench in a single tool
- highly suitable for gripping, holding, pressing and bending work; and careful installation of surface-finished fittings
- grips all sizes up to 42 mm and 1-5/8"
- parallel, smooth jaws
- box joint
- fast adjustment at the touch of a button
- lever ratio greater than 10-1 for strong gripping power



876-1474



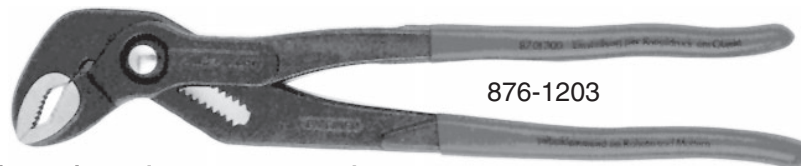
Plier Wrench:  
no play under pressure



Conventional Wrench:  
edge pressure could give surface marking

SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Working Capacities		Wt. g
		mm	inch			mm	inch	
876-1474	8603250	250	10"	nickel plated	plastic-coated	to 46	to 1-13/16"	560

## KNIPEX - 'Cobra' Patented (Pipe grip and spanner in one)



876-1203

- with box joint
- a new generation of Water pump Pliers, for easier and more secure work
- press button action for fast and firm adjustment directly on the work
- selected jaw opening is positively ensured
- 11-position adjustment
- 400 mm 'Cobra' with 15-position adjustment
- one hand adjustment
- the guard prevents operators' fingers being pinched
- gripping surfaces parallelogram-shaped with special hardened teeth
- hardness of jaws approx. 56 HRC
- self-gripping on pipes and nuts
- Material: Chrome Vanadium electric steel, oil-hardened

SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Working Ø Cap. for pipes (dia.) inch	for nuts (across flats)		Wt. g
		mm	inch				mm	inch	
876-1202	8701180	180	7"	polished	plastic-coated	1/8" - 1-1/4"	6 - 30	1/4" - 1-3/16"	170
876-1657	8701250	250	10"			1/8" - 1-5/8"	6 - 36	1/4" - 1-7/16"	300
876-1203	8701300	300	12"			1/8" - 2"	7 - 48	9/32" - 1-7/8"	545
876-1204	8701400	400	15-1/2"			1/8" - 3"	10 - 65	3/8" - 2-9/16"	1000

All items on this page PKG QTY. 1

## KNIPEX - 'Alligator' Patented (Pipe grip and spanner in one)

- with heavy duty box joint construction
- self-gripping on pipes and nuts
- gripping surfaces parallelogram-shaped
- special hardened teeth
- hardness of teeth approx. 56 HRc
- the guard prevents operators' fingers being pinched
- optimum lever action
- 7-position adjustment
- Material: Chrome Vanadium electric steel, oil-hardened



876-1200

SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Working Ø Cap. for pipes (dia.) inch	for nuts (across flats)		Wt. g
		mm	inch				mm	inch	
876-1200	8801250	250	10"	polished	plastic-coated	1/8" - 1-1/2"	6 - 36	1/4" - 1-13/32"	300
876-1201	8801300	300	12"			1/8" - 1-7/8"	7 - 48	9/32" - 1-7/8"	500
876-1640	8805250	250	10"	chrome plated	hvy. insulated	1/8" - 1-1/2"	6 - 36	1/4" - 1-13/32"	325

## Water Pump Pliers with groove joint

- all strain removed from pivot bolt, hence no wear on pivot
- easy, convenient engagement through milled swivel giving 5 different positions
- positive, secure seating of the two plier halves in every setting position
- with guard
- gripping surfaces with special hardened teeth
- hardness of teeth approx. 56 HRc
- non slip joint
- Material: Chrome Vanadium electric steel, oil-hardened



876-1328

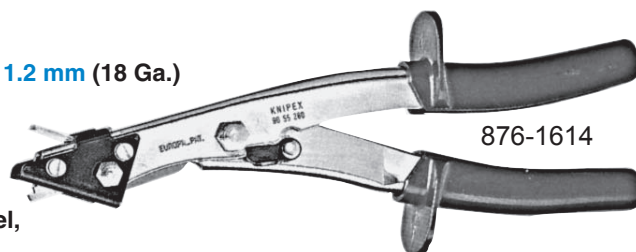
SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Working Ø Cap. for pipes (dia.) inch	for nuts (across flats)		Wt. g
		mm	inch				mm	inch	
876-1328	8901250	250	10"	polished	plastic coated	1/8" - 1-3/8"	6 - 36	1/4" - 1-13/32"	340

All items on this page PKG QTY. 1



## Sheet Metal Nibbler

- with chip breaker
- for cutting iron, copper or aluminum plate up to max. **1.2 mm** (18 Ga.) in thickness, plastic up to max. **2.0 mm** in thickness
- easy to use
- clean, burr-free edges
- materials are cut without deforming
- Material: tool body made of high strength special steel, moving parts specially hardened and tempered



876-1614

SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Wt. g
		mm	inch			
876-1614	9055280	280	11"	nickel plated	plastic-coated	480
876-1615	9059280	72	2-3/4"	spare blades		

876-1615  
Spare blades



## Revolving Punch Pliers

- with 6 replaceable punches
- for punching holes in leather, textile or plastic material
- punch dia.: **2.0 mm, 2.5 mm, 3.0 mm, 3.5 mm, 4.0 mm, 5 mm.**
- punch dia.: **5/64", 3/32", 1/8", 9/64", 5/32", 3/16".**
- pressed and shaped from high-strength sheet steel
- with opening spring and lock
- powder-coated for rust protection

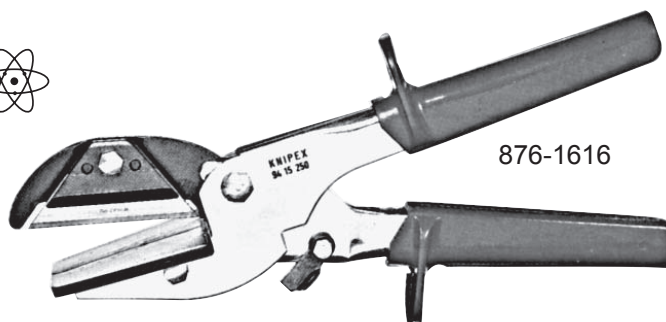


876-1271

SPAENAUR No.	Mfg. No.	O/A Length		Handles	Wt. g
		mm	inch		
876-1271	9070220	220	8-1/2"	Red lacquered	260

## Ribbon Cable Cutter

- for crush-free cutting of ribbon cables up to **56 mm** in width
- interchangeable cutting base with fence angle for perpendicular angled cutting
- replaceable, conventional cutting blade
- with opening spring and latch
- Material: handle and blade mounting made of special steel



876-1616

SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Cutting Capacity Ribbon Cable		Wt. g
		mm	inch			mm	inch	
876-1616	9415215	215	8-1/2"	nickel plated	plastic-coated	up to 56	2-7/32"	380

All items on this page  
PKG QTY. 1

### Cable Shears



- for copper and aluminum cables
- sharp, hardened blades, precision-ground
- for universal use for cutting, dismantling and stripping
- with jamming guard
- not suitable for steel wire
- Material: special forged tool steel



876-1222

SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Cable Multiwire Cutting Ø Capacity			Wt. g
		mm	inch			mm	inch	mm <sup>2</sup>	
876-1222	9511165	165	6-1/2"	burnished	plastic coated	15	19/32"	50	210

### Cable Shears

- adjustable screw joint
- for copper and aluminum cables
- sharp, hardened blades, precision-ground
- easy, round cutting with one-handed operation
- for universal use for cutting, dismantling and stripping
- with jamming guard
- not suitable for steel wire
- Material: special steel, tempered pivot bolt and torsion-resistant nut

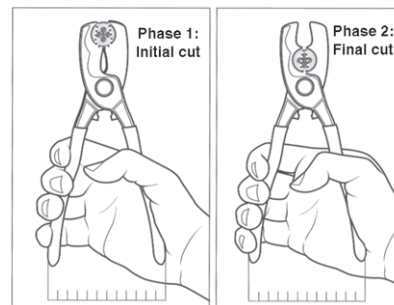


876-1479

SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Cutting Ø Capacity			Wt. g
		mm	inch			mm	inch	mm <sup>2</sup>	
876-1479	9516165	165	6-1/2"	chrome plated	heavily insulated VDE-tested 1000 V AC	15	19/32"	50	240

### Cable Shears

- low effort required as a result of the good transmission ratio and a new type of blade geometry
- one-handed operation
- for copper and aluminum cables, single and multiple strand; with preliminary and final cut (first and second blade), cables up to 25 mm in diameter can be cut.
- blades induction hardened and precision ground
- easy, clean cutting with one-handed operation
- adjustable screw joint
- not suitable for steel wire and hard-drawn copper cables
- Material: special forged tool steel



876-1620

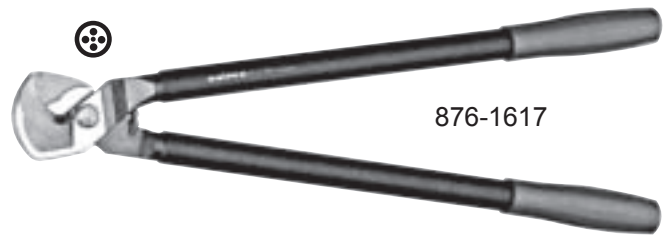
SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Cutting Ø Capacity			Wt. g
		mm	inch			mm	inch	mm <sup>2</sup>	
876-1620	9511200	200	8"	burnished	plastic coated	20	51/64"	70	300

CATALOG 14

SPAENAUR

## Cable Shears

- cutting head forged, handles made of tempered tubing
- easy and clean cut achieved as a result of new cutting geometry
- low force requirement as a result of optimal transmission ratio
- short design, low weight
- not suitable for wire rope or steel wire
- Material: special tool steel



876-1617

SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Cutting Ø Capacity			Wt. g
		mm	inch			mm	inch	mm <sup>2</sup>	
876-1617	9511500	500	19-3/4"	polished	plastic-coated	27	1-1/16"	150	1010

## Cable Shears

- low effort required as a result of double lever
- replaceable cutter head
- opening width of cutter head: 27 mm
- adjustable screw joint
- not suitable for wire rope or steel wire
- Material: special tool steel



876-1496

SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Cutting Ø Capacity			Wt. g
		mm	inch			mm	inch	mm <sup>2</sup>	
876-1496	9521600	600	23-1/2"	polished	plastic-coated	27	1-1/16"	150	1840

## Wire Rope Cutters

- for medium-hard wire cables up to 6 mm dia. eg. Bowden cords, but also for cables and round steel
- blade hardness approx. 62 HRC
- cuts without burr
- special blade geometry prevents the wire cable splaying
- with opening spring and latch
- cutting head forged

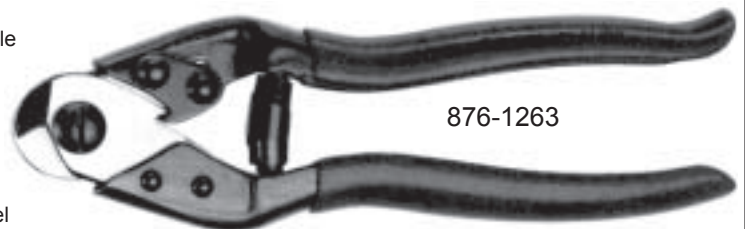
Cu + Al Cable



Wire Rope



Steel Rod, Round Steel



876-1263

SPAENAUR No.	Mfg. No.	O/A Length		Head	Handles	Cutting Ø Capacity							
		mm	inch			Cu + Al Cbles mm <sup>2</sup>		Wire Rope		Round Steel		Wt. g	
						mm	inch	mm	inch	mm	inch		
876-1263	9561190	190	7-1/2"	polished	plastic-coated	15	6	1/4"	4	5/32"	320		

All items on this page  
PKG QTY. 1

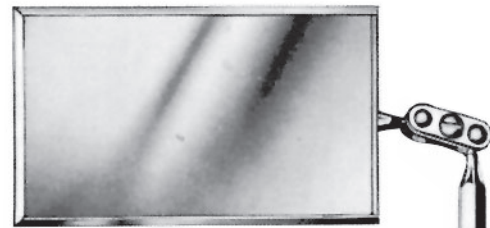
## INSPECTION MIRRORS for all angle viewing

Original All-Angle Ball Joint Mirrors with brushed finish stainless steel mirror backs.

Fast, accurate visual inspection of hidden areas with an almost limitless number of positions. Double ball joint links swivel mirrors for viewing to 360°. Ullman's precision engineered links are manufactured from tempered spring steel to withstand the stresses of constant repositioning, move freely and hold desired position.

### FEATURES:

- Replaceable copper backed clear-view mirrors.
- Telescoping and pocket models.
- Non-rotating inner hex rods on telescopic models prevent mirrors from swinging out of alignment when in use.
- Insulating vinyl grip on all models.



**876-1536 Rectangular Telescoping Mirror**  
2-1/8" x 3-1/2"  
Overall length 11-1/4", extends to 15-1/4".

**876-1543 Circular Telescoping Mirror**

2-1/4" dia. Overall length 10", extends to 14".



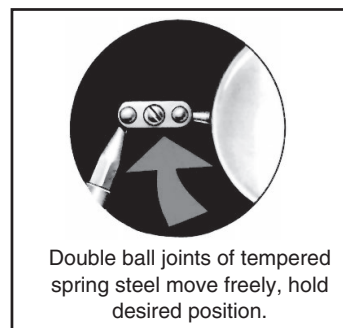
**876-1529 Circular Pocket Mirror**  
7/8" dia. Overall length 7-1/2".



**876-1560 Replacement Head Assembly for 876-1529**



**876-1533 Oval Pocket Mirror**  
1" x 2". Overall length 8-1/2".



Double ball joints of tempered spring steel move freely, hold desired position.

### REPLACEMENT MIRRORS

SPAENAUR No.	Mirror Size
<b>876-1534</b>	Oval 1" x 2"
<b>876-1537</b>	Rect. 2-1/8" x 3-1/2"



**INSPECTION MIRROR WITH EXTRA LONG HANDLE**

**876-1667 Rectangular Telescoping Mirror, extra long handle**  
2-1/8" x 3-1/2". Overall length 17-1/4" extends to 27-1/4".



**MAGNIFYING INSPECTION MIRROR**

**876-1668 Rectangular Magnifying Telescoping Mirror**  
2-1/8" x 3-1/2". Overall length 11-1/4", extends to 15-1/4".

### MAGNIFYING MIRROR REPLACEMENT

SPAENAUR No.	Mirror Size
<b>876-1669</b>	Rect. 2-1/8" x 3-1/2"

P



## Magnet Pick-up Tools



### 876-1518

Telescopic. Extends from 16-3/4", to 26-3/4". Folds down to 13"

### 876-1519

Telescopic. Extends from 10-5/8", to 14-5/8". Folds down to 7-1/2"

### 876-1520

With a pocket clip. Overall length 8-1/2", folds to compact 6" for pocket storage.

### 876-1514

**Telescopic Magnetic Pocket Pick-Up Tool**

Extends from 7" to 19-1/2", yet closes down to 4-1/2" pocket size.

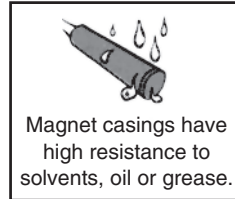
### 876-1523

**Mechanic's Insulated Pocket Magnet**

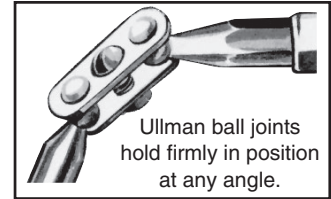
Made of insulating polypropylene, unaffected by oil or gasoline, virtually unbreakable. Powerful chromium plated permanent magnet. Pencil shaped, 6" long. Supplied with a pocket clip.

The original all-angle retrieving tool with Alnico V magnets and molded nylon heads.

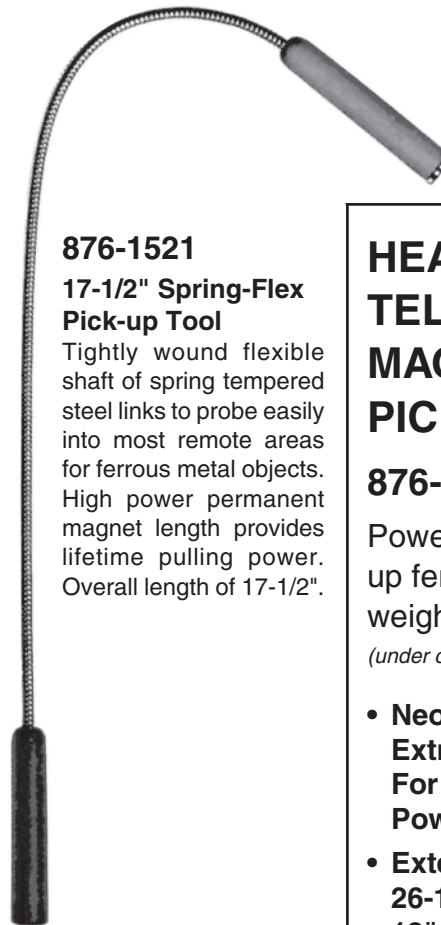
It picks up elusive ferrous metal bolts, nuts, washers, etc. in hard-to-reach places, even metal hand tools dropped while working on engines, boats or any place where pipes, panels or parts get in the way. Perfect for use under water, oil, etc.



Magnet casings have high resistance to solvents, oil or grease.



Ullman ball joints hold firmly in position at any angle.



### 876-1521

**17-1/2" Spring-Flex Pick-up Tool**

Tightly wound flexible shaft of spring tempered steel links to probe easily into most remote areas for ferrous metal objects. High power permanent magnet length provides lifetime pulling power. Overall length of 17-1/2".

## HEAVY DUTY TELESCOPIC MAGNETIC PICK-UP TOOL

### 876-1664

Powerful enough to pick up ferrous metal objects weighing 5 lbs.

*(under correct conditions)*

- Neodymium-Iron-Boron Extra High Flux Magnet For Greater Pick-up Power.
- Extends from 16-1/4" to 26-1/2" - Folds Down to 13".
- Insulating Vinyl Grip.

The Neodymium-Iron-Boron Magnet is powerful and it outperforms the standard Alnico V Magnet 4 to 1.

With the adjustable telescoping handle you can pick up heavy ferrous objects where your hands can not reach.



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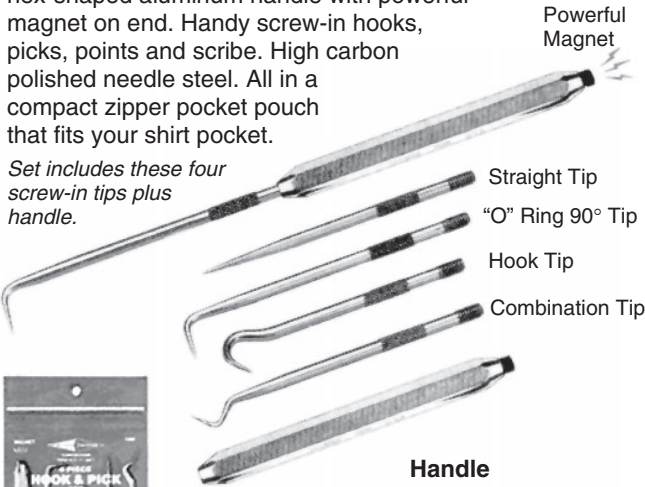
### 4-PIECE HOOK AND PICK SET

with aluminum handle and magnetic end.

**876-1663**

For separating wires, removing small fuses, "O" rings, retrieving washers and loose parts too small to pick up with your fingers. Bright-tipped, anodized, hex-shaped aluminum handle with powerful magnet on end. Handy screw-in hooks, picks, points and scribe. High carbon polished needle steel. All in a compact zipper pocket pouch that fits your shirt pocket.

Set includes these four screw-in tips plus handle.



Powerful Magnet

Straight Tip

"O" Ring 90° Tip

Hook Tip

Combination Tip

**Handle**

Hex-shaped aluminum handle with magnet. Flats permit tight grip at any angle. Magnet picks up nuts, bolts, screws and other ferrous parts.

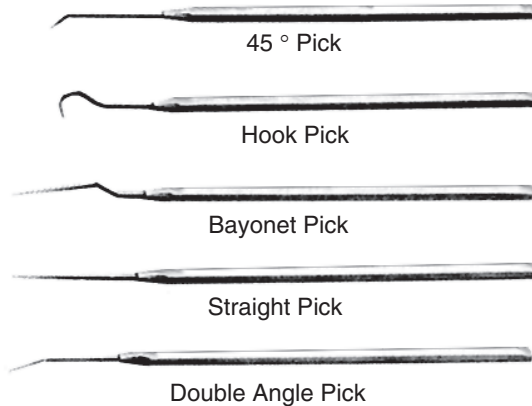
**Zipper Pocket Pouch**

Keeps tools organized and prevents torn clothing.

### 5-PIECE MICRO PICK SET

**876-1665**

These picks are ideal for soldering, gluing, positioning, adjusting and retrieving small parts. Separates chips, scrapes and scribes molds in motor armatures, dies, etc. The needle tips are made of a high quality stainless steel and the set comes packaged in a zippered top vinyl pouch.



45 ° Pick

Hook Pick

Bayonet Pick

Straight Pick

Double Angle Pick

### SWINGER

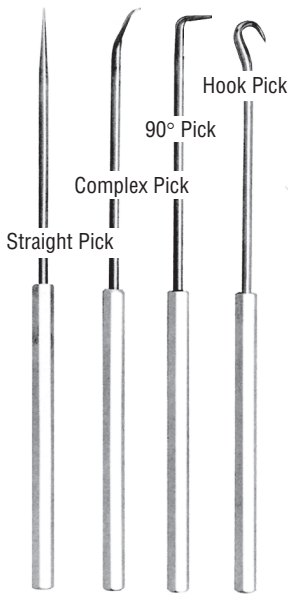
Combination reversible pick and hook. Like an extra strong fingernail for jobs in awkward places. Just swivel out the end you want, the other tucks safely away. Literally a tool of "1001 uses!" Lightweight aluminum handle. Overall length 7-7/8".

**876-1538**



**876-1666**

### 4-PIECE INDIVIDUAL HOOK AND PICK SET



Hook Pick

90° Pick

Complex Pick

Straight Pick

Ideal for separating wires, removing small fuses, "O" rings, retrieving washers and loose parts too small to pick up with your fingers. Each hook and pick is made of high carbon polished steel and is permanently attached to a hex shaped aluminum handle.

P

**APPLICATIONS...**



...release or install headlight springs.



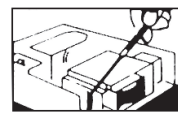
...remove small fuses, stuck parts.



...separate small wires in awkward places.



...retrieve lost nuts, bolts, washers, tools from tight areas.



...remove springs from oil burner relay boxes.

**UTILITY PACKING HOOK**  
with magnetic pick-up in handle.

Used for removing springs, wadding, washers, "O" rings - prying stuck gaskets loose.

**876-1670**

Handy steel hook for any tool box; repairmen, technicians, service personnel. 7" long, has strong steel shaft and hook, knurled aluminum handle. Magnetic end retrieves dropped nuts, bolts, washers, parts.



**DOUBLE POINTED SCRIBER**  
with straight and 90° angle points for marking in awkward places.

**876-1515**

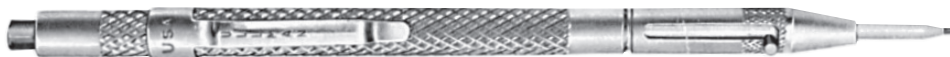
Overall length 9-3/8".

Heat treated, bright polished, high carbon needle steel points. For the technician or craftsman who needs a sharp marking tool that works in cramped quarters, as well as, in regular applications. Knurled aluminum handle gives sure grip.



**POCKET SCRIBER**

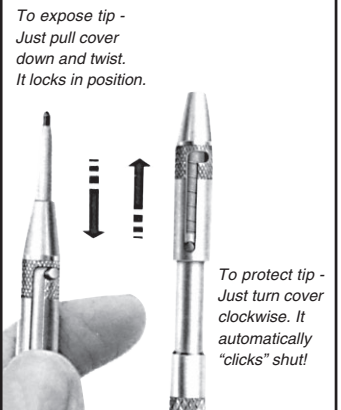
All-in-one "Push-Click" SAFETY COVER on Tungsten Carbide with Magnetic Pick-Up.



Overall length 5-1/2".

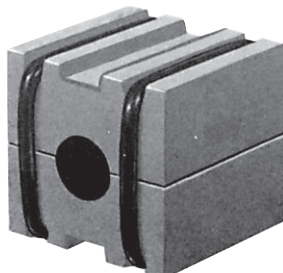
**876-1542**

Sharp tungsten carbide tip cuts into hard surfaces, leaves clear mark on metal, glass, plastics, tools. Powerful magnet on end retrieves dropped metal items. Knurled handle, handy pocket clip.



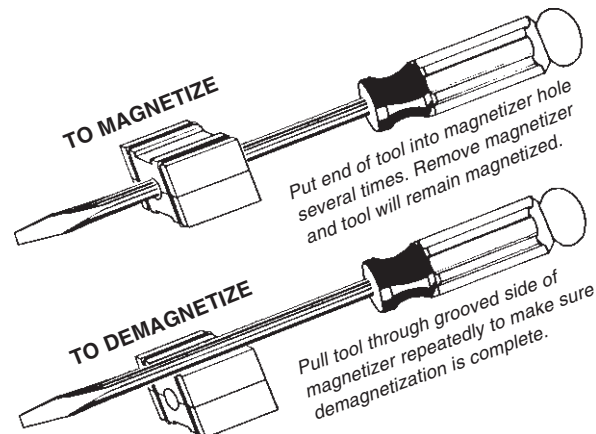
**MAGNETIZER / DEMAGNETIZER**

Magnetizes and demagnetizes screwdrivers and other small tools. Works in seconds – simple to use. Speeds up repair and assembly jobs. Picks up screws, nuts, metallic parts, cleans up filings, scraps and starts screws.



**876-1544**

Overall size 1-1/16" x 1-1/16" x 1-1/16".



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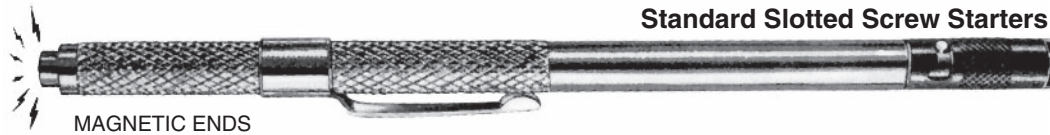
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PKG QTY. 1

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

**P143**

**MECHANICAL SCREW STARTERS** for ferrous or non-ferrous screws

**Standard Slotted Screw Starters**



MAGNETIC ENDS

No more fumbling with hard-to-position screws! A simple twist of the Ullman alloy steel bit and screw is firmly held, ready for trouble-free starting. Tool, releases and resets automatically. Slender aluminum handles for easy access into close areas.

Should a screw, washer or nut be dropped into a hard-to-reach area, it can easily be retrieved by turning the tool around and using the strong full 1" permanent magnet on the opposite end of the aluminum handle screw starter.

**SPAENAUR No.**

**Size**

**876-1530** Overall length 2-5/8".

**876-1531** - with pocket clip. Overall length 5-5/8".

**876-1532** Overall length 9-5/8".

**PKG QTY. 1**

**876-1513 DOUBLE-ENDED SCREW STARTER with Nylon shaft.**

Overall length 9" with Phillips and Slotted heads.



Slotted Drive

**PKG QTY. 1**

Phillips Drive

**TORX® / PHILLIPS / HEX SOCKET SCREW STARTER**

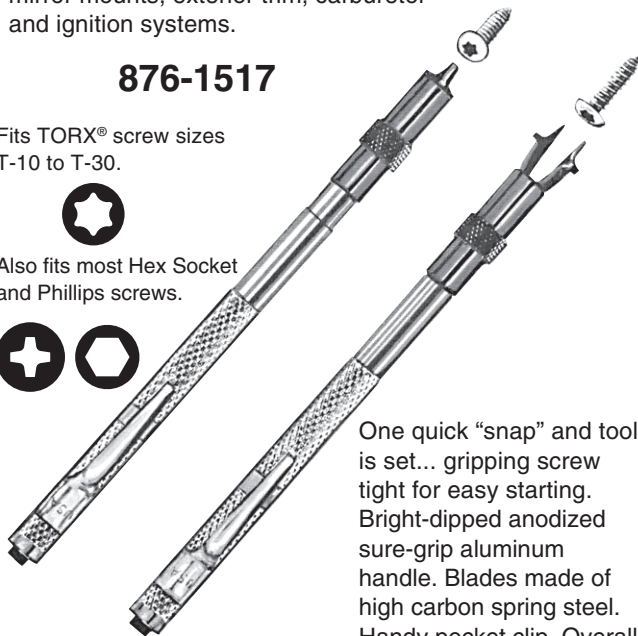
For headlight bezel, turnlight assemblies, mirror mounts, exterior trim, carburetor and ignition systems.

**876-1517**

Fits TORX® screw sizes T-10 to T-30.



Also fits most Hex Socket and Phillips screws.



One quick "snap" and tool is set... gripping screw tight for easy starting. Bright-dipped anodized sure-grip aluminum handle. Blades made of high carbon spring steel. Handy pocket clip. Overall length 5-5/8".

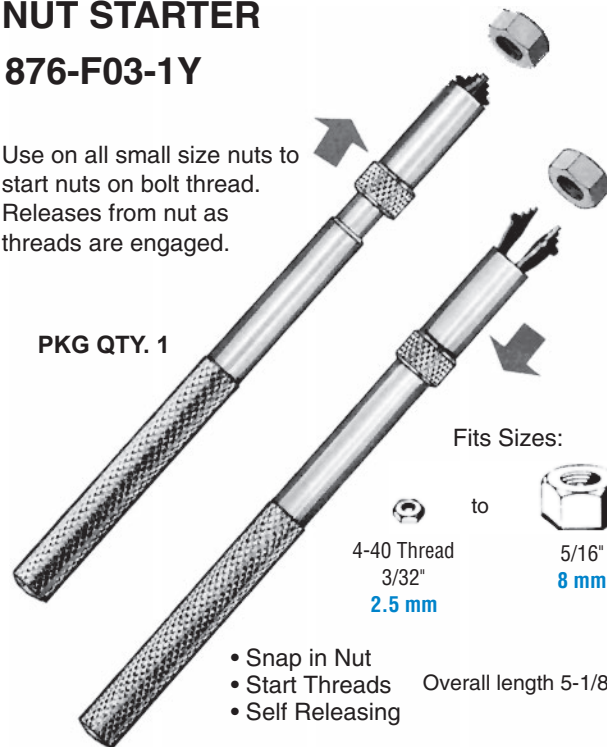
Permanent magnet at opposite end retrieves nuts or screws dropped in hard-to-reach areas.

**PKG QTY. 1**

**NUT STARTER 876-F03-1Y**

Use on all small size nuts to start nuts on bolt thread. Releases from nut as threads are engaged.

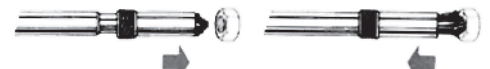
**PKG QTY. 1**



Fits Sizes:

4-40 Thread 3/32" 2.5 mm to 5/16" 8 mm

- Snap in Nut
  - Start Threads
  - Self Releasing
- Overall length 5-1/8".



1. Push head up. Insert blades into nut.

2. Snap head down. Blades grip nut tightly.

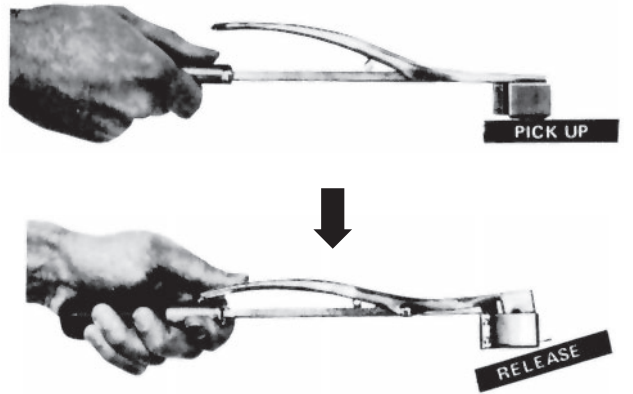
**MAGNETIC SAFETY FEEDER TOOL**



**876-1522**

Feeds and retrieves hard-to-handle ferrous metal parts. Reduces press accidents, fatigue. Permanent magnet lifts up to 10 lbs. Chrome finished. Easy-grip fluted handle. Overall length 14".

**PKG QTY. 1**

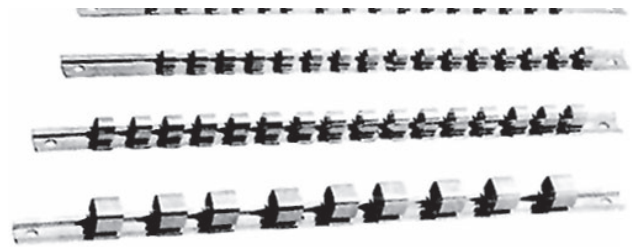


**SOCKET HOLDERS WITH HEAVY-DUTY SPRING CLIPS**

Bright, durable, plated steel rail with slide-on spring clips to hold sockets tight and rattle proof, yet easily removable. Screw into tool chest drawer or hang.

<i>SPAENAUR No.</i>	<i>Size</i>
<b>876-1524</b>	17" rack with sixteen 1/4" drive clips.
<b>876-1525</b>	17" rack with sixteen 3/8" drive clips.
<b>876-1526</b>	17" rack with sixteen 1/2" drive clips.
<b>876-1528</b>	17" rack with eight 3/4" drive clips.

**PKG QTY. 1**



**HEAVY-DUTY REPLACEMENT CLIPS**

<i>SPAENAUR No.</i>	<i>Size</i>	
<b>876-1660</b>	1/4" drive clips.	<b>All clips fit all Socket Holders and are sold in PKG QTY. 10</b>
<b>876-1661</b>	3/8" drive clips.	
<b>876-1527</b>	1/2" drive clips.	
<b>876-1662</b>	3/4" drive clips.	

**PENCIL-TYPE MAGNET WITH CLIP**

Ideal for instant pickup and for testing metals. Keep it handy in your pocket with pens and pencils.

**SPAENAUR No. 876-488**

**PKG QTY. 1**



**SPAENAUR No. 876-490**

**Powerful little magnets on a key chain** - always handy. Pick up small parts, retrieve parts which have fallen out of reach, test metals....

**NEW**



**APPLICATIONS**  
Steel  
Rebar  
Bar stock  
Structural steel  
All ferrous metals

**STATIONARY CUT-OFF AND CHOPSAW WHEEL**

Metal, Double Reinforced, Type 1

**PKG QTY. 10**

SPAENAUR No.	Mfg. No.	Size	Max RPM
876-F89-1Y	A1-11401191	14" x 1/8" x 1"	4365

**FEATURES**

- Aluminum Oxide grain
- High strength phenolic resin bond
- Double external reinforced with high tensile strength fiberglass

**BENEFITS**

- Extended wheel life
- Strong, durable, long-lasting grain
- High strength for added safety

**NEW**



**APPLICATIONS**  
Steel  
Tubing  
All ferrous metals  
Structural shapes  
Small solid bar stock  
Light bar stock

**LOW HORSEPOWER CHOP SAW WHEEL**

Metal, Center Reinforced, Type 1

**PKG QTY. 10**

SPAENAUR No.	Mfg. No.	Size	Max RPM
876-F90-1P	A1-11401091	14" x 7/64" x 1"	4365

**BENEFITS**

- Extended wheel life
- Free and cool cutting
- Strong, durable long-lasting grain
- Less operator fatigue
- Less wear on chop saw

**FEATURES**

- Aluminum Oxide grain
- High strength phenolic resin bond
- Center reinforced with high tensile strength fiberglass
- Formulated for low horsepower portable, electric chop saws

**NEW**



**APPLICATIONS**  
Stainless steel  
Alloy  
Carbon steel  
Metal tubing  
Rebar  
Light-gauge metals

**PREMIUM THIN CUT-OFF WHEEL**

Metal & Stainless Steel, Double Reinforced, Type 1

SPAENAUR No.	Mfg. No.	Size	Max RPM	PKG QTY
876-F91-1Y	A3-10450251	4 1/2" x .040" x 7/8"	13580	50
876-F92-1C	A3-10450351	4 1/2" x .045" x 7/8"	13580	50
876-F93-1N	A3-10500251	5" x .040" x 7/8"	12225	50
876-F94-1T	A3-10500351	5" x .045" x 7/8"	12225	50
876-F95-1K	A3-10600251	6" x .040" x 7/8"	10190	25
876-F96-1W	A3-10600351	6" x .045" x 7/8"	10190	25

**FEATURES**

- Extra thin design
- Premium Aluminum Oxide grain
- Double external reinforced with high tensile strength fiberglass

**BENEFITS**

- Fast cutting at less power
- Maximum safety
- Long life
- Cuts cooler and cleaner
- Cuts without vibrations or burns

**NEW**



**APPLICATIONS**  
All ferrous metals  
Steel/structural steel  
Rebar  
Welds  
Pipe  
Bar stock

**T27 DEPRESSED CENTER GRINDING WHEEL**

Metal, Type 27 Depressed Center

**PKG QTY. 25**

SPAENAUR No.	Mfg. No.	Size	Max RPM
876-F99-1A	A5-10451452	4 1/2" x 1/4" x 7/8"	13580
876-G01-1T	A5-10501452	5" x 1/4" x 7/8"	12225

**FEATURES**

- Aluminum Oxide grain
- Dual grit - Harder bond
- Available with 5/8"-11 threaded hub
- Internally reinforced with layers of high tensile strength fiberglass

**BENEFITS**

- Aggressive material removal
- Strong, durable long-lasting grain
- Maximum safety
- Fast, easy spin on and off
- Longer life

**NEW**



**APPLICATIONS**  
Stainless steel  
Alloy  
Carbon steel  
Metal tubing  
Rebar  
Light-gauge metals

**PREMIUM THIN CUT-OFF WHEEL**

Metal & Stainless Steel, Double Reinforced, Type 27 Depressed Center

SPAENAUR No.	Mfg. No.	Size	Max RPM	PKG QTY
876-F97-1M	A4-10450252	4 1/2" x .040" x 7/8"	13580	50
876-F98-1X	A4-10600252	6" x .040" x 7/8"	10190	25

**FEATURES**

- Extra thin design
- Premium Aluminum Oxide grain
- Double external reinforced with high tensile strength fiberglass

**BENEFITS**

- Fast cutting at less power
- Maximum safety
- Long life
- Cuts cooler and cleaner
- Cuts without vibrations or burns

**NEW**



**APPLICATIONS**  
All ferrous metals  
Steel/structural steel  
Rebar  
Welds  
Pipe  
Bar stock

**T27 DEPRESSED CENTER GRINDING WHEEL - FLANGED**

Metal, Type 27 Depressed Center, Flanged

**PKG QTY. 10**

SPAENAUR No.	Mfg. No.	Size	Max RPM
876-G02-1K	A5-10451472	4 1/2" x 1/4" x 5/8"-11	13580
876-G03-1W	A5-10501472	5" x 1/4" x 5/8"-11	12225

**FEATURES**

- Aluminum Oxide grain
- Dual grit - Harder bond
- Available with 5/8"-11 threaded hub
- Internally reinforced with layers of high tensile strength fiberglass

**BENEFITS**

- Aggressive material removal
- Strong, durable long-lasting grain
- Maximum safety
- Fast, easy spin on and off
- Longer life

**NEW**



**APPLICATIONS**  
Rust removal  
Light deburring  
Ferrous and non-ferrous metals  
Best for welds and blending  
All purpose sanding and grinding

**T29 STANDARD FLAP DISC - ZIRCONIA**  
4 1/2" x 7/8" - Standard

**PKG QTY. 10**

SPAENAUR No.	Mfg. No.	Size	Max RPM	Grit
876-G04-1M	F-4510409	4 1/2" x 7/8" T29	13,000	40
876-G05-1X	F-4510609	4 1/2" x 7/8" T29	13,000	60
876-G06-1A	F-4510809	4 1/2" x 7/8" T29	13,000	80
876-G07-1P	F-4511209	4 1/2" x 7/8" T29	13,000	120

**FEATURES**

- Heavy X-weight cloth
- Fiberglass backing
- Resin on resin bond
- With/without hub

**BENEFITS**

- Type 29 shape for maximum aggression
- High cut rate
- Fast and cool cutting
- Grind, blend, and finish in one easy step
- No need to switch from grinding wheel to resin fiber disc

**NEW**



**APPLICATIONS**  
Rust removal  
Light deburring  
Ferrous and non-ferrous metals  
Best for welds and blending  
All purpose sanding and grinding

**T29 HIGH DENSITY FLAP DISC - ZIRCONIA**  
4 1/2" x 5/8" -11 - High Density/Jumbo, Flanged

**PKG QTY. 10**

SPAENAUR No.	Mfg. No.	Size	Max RPM	Grit
876-G08-1Y	F-4540409HF	4 1/2" x 5/8" -11 T29 Jumbo	13,000	40
876-G09-1C	F-4540609HF	4 1/2" x 5/8" -11 T29 Jumbo	13,000	60
876-G10-1Y	F-4540809HF	4 1/2" x 5/8" -11 T29 Jumbo	13,000	80
876-G11-1C	F-4541209HF	4 1/2" x 5/8" -11 T29 Jumbo	13,000	120

**FEATURES**

- Heavy X-weight cloth
- Fiberglass backing
- Resin on resin bond
- With/without hub

**BENEFITS**

- Type 29 shape for maximum aggression
- High cut rate
- Fast and cool cutting
- Grind, blend, and finish in one easy step
- No need to switch from grinding wheel to resin fiber disc

**NEW**



**APPLICATIONS**  
Rust removal  
Light deburring  
Ferrous and non-ferrous metals  
Best for welds and blending  
All purpose sanding and grinding

**T27 STANDARD FLAP DISC - ZIRCONIA**  
4 1/2" x 7/8" - Standard

**PKG QTY. 10**

SPAENAUR No.	Mfg. No.	Size	Max RPM	Grit
876-G12-1N	F-4550367	4 1/2" x 7/8" T27	13,000	36
876-G13-1T	F-4550407	4 1/2" x 7/8" T27	13,000	40
876-G14-1K	F-4550607	4 1/2" x 7/8" T27	13,000	60
876-G15-1W	F-4550807	4 1/2" x 7/8" T27	13,000	80
876-G16-1M	F-4551207	4 1/2" x 7/8" T27	13,000	120

**FEATURES**

- Heavy X-weight cloth
- Fiberglass backing
- Resin on resin bond
- With/without hub

**BENEFITS**

- Type 27 shape for smooth grinding
- Fast and cool cutting
- Grind, blend, and finish in one easy step
- No need to switch from grinding wheel to resin fiber disc

**NEW**



**APPLICATIONS**  
Rust removal  
Light deburring  
Ferrous and non-ferrous metals  
Best for welds and blending  
All purpose sanding and grinding

**T27 HIGH DENSITY FLAP DISC - ZIRCONIA**  
4 1/2" x 5/8" -11 - High Density/Jumbo, Flanged

**PKG QTY. 10**

SPAENAUR No.	Mfg. No.	Size	Max RPM	Grit
876-G17-1X	F-4580407HF	4 1/2" x 5/8" -11 T27	13,000	40
876-G18-1A	F-4580607HF	4 1/2" x 5/8" -11 T27	13,000	60
876-G19-1P	F-4580807HF	4 1/2" x 5/8" -11 T27	13,000	80
876-G20-1A	F-4581207HF	4 1/2" x 5/8" -11 T27	13,000	120

**FEATURES**

- Heavy X-weight cloth
- Fiberglass backing
- Resin on resin bond
- With/without hub

**BENEFITS**

- Type 27 shape for smooth grinding
- Fast and cool cutting
- Grind, blend, and finish in one easy step
- No need to switch from grinding wheel to resin fiber disc

**WARNING:** Always use tools with guards & wear protective equipment.

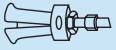
### Counter Stays

Special Steel

To be used with Internal Extractors.

With removable threaded reduction collar.

Galvanized

SPAENAUR No.	
	
<b>877-1305</b>	877-1415 / 877-1416 / 877-1263 / 877-1296 / 877-1297 / 877-1298 / 877-1299 / 877-1301
<b>877-1306</b>	877-1415 / 877-1416 / 877-1296 / 877-1297 / 877-1298 / 877-1299 / 877-1301 / 877-1302 / 877-1303 / 877-1304



### Slide Hammer

Steel - Grey

#### 877-1307

Use with Internal Extractors with bore diameters of 5-8 mm to 14-19 mm.

#### 877-1328

Use with diameters of 18-23 mm to 56-70 mm.



### Internal Extractors

Special Steel

To be used with Counter Stays.

SPAENAUR No. 877-1305  
877-1306

Zinc Plated or Black Finish Our Option

SPAENAUR No.	Ø mm
<b>877-1415</b>	5-8
<b>877-1416</b>	6-10
<b>877-1296</b>	8-12
<b>877-1263</b>	10-14
<b>877-1297</b>	12-16
<b>877-1298</b>	14-19
<b>877-1299</b>	18-23



Galvanized

SPAENAUR No.	Ø mm
<b>877-1301</b>	28-40
<b>877-1302</b>	36-46
<b>877-1303</b>	45-58
<b>877-1304</b>	56-70

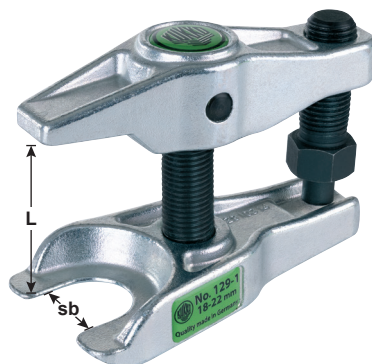


### Universal Ball Joint Puller

For extracting ball pins when dismantling ball joints, track-rod ends on track rods, for passenger cars and light delivery vehicles.

Galvanized

SPAENAUR No.	sb mm	L mm
<b>877-1317</b>	18-22	50



### Ball Joint Puller (Extractor)

For extracting ball pins when dismantling ball joints, track-rod ends on track rods.

Galvanized

SPAENAUR No.	sb mm	L mm
<b>877-1318</b>	18	38





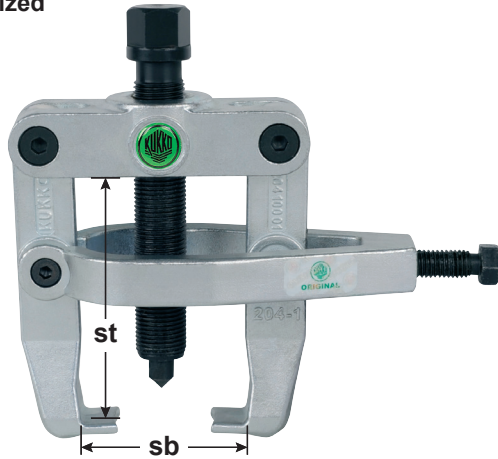
### Universal 2-Jaw Pullers with Side Clamp

Special Steel

Also for ball bearings, gears and similar parts.

Screw clamp forces puller hooks securely upon part to be removed.


Galvanized



SPAENAUR No.	sb mm	st mm
877-1281	80	90
877-1282	100	100
877-1283	150	140

### Replacement Arms


Pulling Arm replacement for 2-Jaw Pullers

SPAENAUR No.	st mm	
877-1362	90	877-1281

### Mechanical Pressure Spindle

Pressure spindles with milled thread have been specifically engineered for use in pullers, in order to achieve particularly high tensile forces



SPAENAUR No.	Thread mm	L mm	 mm
877-1373	M18 x 1.5	105	19

### Pullers

Special Steel

Galvanized

With 2 arms

For gears, ball bearings, etc. Two double-hook arms, each with a narrow end for use in congested areas.



SPAENAUR No.	sb mm	st mm
877-1284	150	85
877-1285	220	130

With 3 arms



SPAENAUR No.	sb mm	st mm
877-1286	150	85
877-1287	220	130

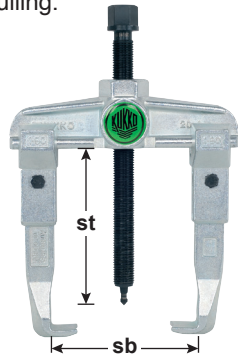
### 2 Arm Pullers with Reversible Arms

Special Steel **Galvanized**

The pulling arms are replaceable and can be adjusted for inside and outside pulling.

SPAENAUR No.	sb mm	st mm
877-1289	80	100
877-1290	120	100
877-1291	160	150
877-1292	200	150
877-1295	520	200

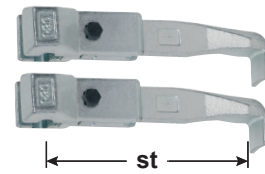
PKG QTY. 1



### Pulling Arms

PKG QTY. 1 Pair

Special Steel  
**Galvanized**



With normal slide jaws

SPAENAUR No.	st mm	
877-1310	100	877-1289
877-1311	150	877-1291 / 877-1292
877-1267	200	877-1295

PKG QTY. 1 Pair



With Extra Long Slide Jaws

877-1312	200	877-1289 / 877-1290
877-1266	250	877-1289 / 877-1290
877-1268	300	877-1291 / 877-1292
877-1269	300	877-1295
877-1270	400	877-1295
877-1271	500	877-1295

### Replacement Forcing Screw

For 2 arm puller.

Steel

PKG QTY. 1

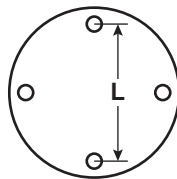
SPAENAUR No.	Used With Pulling Device
877-1273	877-1284, 877-1286, 877-1289, 877-1290
877-1264	877-1285 / 877-1287 877-1291 / 877-1292

### 3 Arm Universal Hub Puller Impact / Shock Design

For cars and trucks with 225 mm bolt circle.

SPAENAUR No.	L mm
877-1319	225

PKG QTY. 1



### 877-1320 Individual Arm for Universal Hub Puller

To be used with Spaenaur No. 877-1319

PKG QTY. 1

### Pulling Devices Steel Galvanized

For removing tightly seated ball-bearings, roller-bearings, innerraces, annular gears, etc.

To be connected with separators by screwing the stud end into the tap holes in the separator blades.

SPAENAUR No.	sb mm	L mm
877-1274	50-110	150
877-1275	65-160	200
877-1276	60-200	250

PKG QTY. 1



### Extensions for pulling devices

For increasing the reach of pulling devices.



SPAENAUR No.		L mm
877-1315	877-1274 & 877-1275	100
877-1316	877-1276	100

PKG QTY. 1 Pair

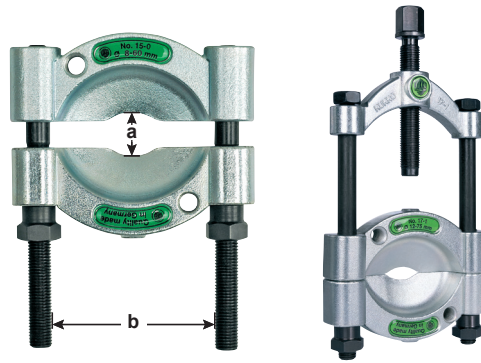
### Separators

Special Steel

Galvanized

Sharp separator edges to be forced behind part to be pulled off.

Separator blades to be compressed by evenly tightening nuts on side bolts.



SPAENAUR No.	a mm	b mm
877-1265	5-60	60
877-1277	12-75	75
877-1279	12-75	75
877-1278	22-115	115
877-1280	22-115	115

For Pulling Devices see page P147.3

### Hydraulic Nut Splitters

For splitting particularly large tight or over-twisted nuts without damaging the bolt thread of quality grades 5, 6, 8 and 10.



SPAENAUR No.	mm	L mm
877-1322	7-24	167

### Hydraulic Nut Splitters

Special Steel Aluminum colour

For removing unbreakable nuts in the quality range 5, 6, 8 and 10. Double offset configuration permits use even in congested areas. Low effort due to hydraulic system



SPAENAUR No.	mm	L mm
991-138	22-36	335

### Mechanical Nut Splitter

Chrome-Vanadium Galvanized

For removing unbreakable nuts in the quality range 5, 6 and 8. With double splitting effect due to 2 chisels -also for bigger nuts-



SPAENAUR No.	mm	L mm
991-B01-1A	13-24	132

### Stud Extractor

Special Steel Galvanized

Large gripping range due to low arrangement of eccentric knurled screw, clamps even short stud ends, for tightening and removing studs and staybolts with r.h. and l.h. threads.



SPAENAUR No.	mm
877-1309	5-19

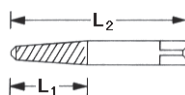
### Screw Extractors

For broken screws and bolts with r.h. threads.

Use drill sizes listed in 5th table column for making holes required.

Chrome-Vanadium

Polished



SPAENAUR No.	Ø mm	M	Ø mm	L1 mm	L2 mm
991-120	1.4-3.6	3-6	1.8	13.2	50
991-121	2.1-4.9	6-8	2.6	16.8	57
991-122	3.1-6.5	8-11	3.7	20.4	64
991-123	4.8-8.8	11-14	5.5	24.0	71
991-124	6.2-11.0	14-18	7.0	28.8	78
991-125	9.4-15.0	18-24	10.3	33.6	85
991-126	12.7-19.0	24-33	13.7	37.8	92
991-127	17.5-24.0	33-45	18.6	39.0	100



### Screw Extractor Sets

In plastic box

SPAENAUR No.	SPAENAUR No's. in Set		
991-128	991-120	991-121	991-122
	991-123	991-124	

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P

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P: 1-800-265-8772 F: 1-888-252-6380 [service@spaenaur.com](mailto:service@spaenaur.com)

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