#### **Standard Screwdrivers**

Wera Kraftform Plus standard screwdrivers transfer more torque with less effort, relieving physical stress even during intensive use. Combined with other practical and technical product advantages, such as the lasertip for a secure fit in the screw, and greater cam-out protection, Kraftform screwdrivers are the perfect choice for manual work.





		St	andard S	crewdriv	ers				
Part Number	Part Image	Туре	Tip Size	Overall Length	Shaft Length	Shaft Diameter	Handle Length	Handle Type	Price
<u>TW-SD-SL-1</u>			3.0mm	6.3in (160mm)	3.1in (80mm)	0.12in (3.0mm)	3.2in (81mm)		\$3.00
<u>TW-SD-SL-2</u>			4.0mm	7.8in (198mm)	3.9in (100mm)	0.16in (4.0mm)	3.9in		\$4.00
<u>TW-SD-SL-3</u>			5.5mm	8.8in (223mm)	4.9in (125mm)	0.22in (5.6mm)	(99mm)		\$7.00
<u>TW-SD-SL-4</u>		- Slotted	6.5mm	12.4in (315mm)	5.9in (150mm)	0.26in (6.5mm)	4.1in (104mm)		\$10.00
<u>05008027055</u> *		-	4.0mm	10.0in (255mm)	11.8in (300mm)	0.16in (4.0mm)		Kraftform	\$8.00
<u>05008060055</u> *		-	5.5mm	11.0in (280mm)	11.8in (300mm)	0.24in (6.1mm)	3.9in (99mm)	ergonomic handle	\$9.00
<u>TW-SD-PH-1</u>			#1	9.4in (240mm)	3.1in (80mm)	0.12in (3.0mm)			\$7.00
TW-SD-PH-2			#2	10.6in (269mm)	3.9in (100mm)	0.20in (5.1mm)	4.1in (104mm)		\$9.00
<u>TW-SD-PH-3</u> *		Phillips	#0	5.6in (141mm)	2.4in (60mm)	0.12in (3.0mm)	3.2in (81mm)		\$5.00
05008730055			#2	15.9in (405mm)	11.8in (300mm)	0.24in (6.1mm)	4.1in (104mm)		\$10.00

\*Includes a hardened Black Point tip instead of laser-etched non-slip tip.

#### Standard Screwdrivers Cont'd

		Standar	d Screwdr	ivers - (	Cont'd				
Part Number	Part Image	Туре	Tip Size	Overall Length	Shaft Length	Shaft Diameter	Handle Length	Handle Type	Price
<u>05023105001</u>	Ser and a series of the series		2.0mm	5.7in (145mm)		0.12in	2.8in (70mm)	Kraftform ergonomic handle	\$3.00
<u>05023107001</u>	Server and the server s	O Hex	2.5mm	6.1in	3.0in (75mm)	(3.0mm)	3.2in		\$4.00
<u>05023110001</u>	State of the second sec		3.0mm	(156mm)		0.16in (4.0mm)	(81mm)		\$4.00
<u>05138262055</u> *		Tamperproof torx	TX20	7.8in (198mm)	3.9in (100mm)	0.18in (4.6mm)	3.9in (99mm)		\$8.00

\*Includes a hardened Black Point tip instead of laser-etched non-slip tip.

	Standard Screwdriver Sets											
Part Number	Number of Pieces	Part Image	Туре	Tip Size	Set Includes	Price						
	Phillips	#1 #2										
<u>TW-SD-SET-1</u>	6		Slotted	3.0mm 4.0mm 5.5mm 6.5mm	(4) slotted screwdrivers (3, 4, 5.5, 6.5mm), (2) Phillips screwdrivers (#1, #2), wall mount rack	\$35.00						

#### **Insulated Screwdrivers**

As with all other Wera tools, safety is a top priority for series 100 VDE screwdrivers. All Wera insulated screwdrivers are individually tested at 10,000V, in accordance with IEC 60900, ensuring safe working up to 1,000V. The quality of the blades exceeds current standards with respect to hardness and torque strength.





			Insulat	ed Screv	vdrivers					
Part Number	Part Image	Туре	Tip Size	Overall Length	Shaft Length	Shaft Diameter	Reduced Shank	Handle Length	Handle Type	Price
<u>05006440055</u> *		-	3.5mm	7.1in (180mm)	3.9in	0.14in (3.5mm)		3.2in (81mm)		\$9.00
<u>05006441055</u> *			4.0mm	7.8in (198mm)	(100mm)	0.20in (5.1mm)	Yes			\$10.00
<u>05006442055</u> *			5.5mm	8.8in (223mm)	4.9in (125mm)	0.24in (6.1mm)		3.9in (99mm)		\$11.00
<u>TW-SD-VSL-1</u>	and the second s	Slotted	2.5mm	8.7in (220mm)	3.1in (80mm)	0.20in (5.1mm) 0.12in (3.0mm)			Kraftform ergonomic handle	\$6.00
<u>TW-SD-VSL-2</u>			3.0mm	9.4in (240mm)	3.9in		No	3.2in (81mm)		\$6.00
<u>TW-SD-VSL-3</u>	and the second s		4.0mm	10.0in (255mm)	(100mm)	0.24in (6.1mm)				\$7.00
<u>TW-SD-VSL-4</u>	Seat.		5.5mm	11.0in (280mm)	4.9in (125mm)	0.22in (5.6mm)		3.9in (99mm)		\$9.00

\*Does not have a Lasertip laser-etched non-slip tip.

#### Insulated Screwdrivers - Cont'd

		Ins	sulated S	crewdriv	ers - Co	nt'd				
Part Number	Part Image	Туре	Tip Size	Overall Length	Shaft Length	Shaft Diameter	Reduced Shank	Handle Length	Handle Type	Price
<u>05006450055</u> *			#1	7.0in (177mm)	3.1in (80mm)	0.16in (4.0mm)		3.9in (99mm)		\$10.00
<u>05006451055</u> *	Star .		#2	8.1in (205mm)	3.9in (100mm)	0.24in (6.1mm)	Yes	4.1in (104mm)	Kraftform	\$13.00
<u>TW-SD-VPH-1</u> *	and a second	Phillips	#1	9.3in (236mm)	3.1in (80mm)	0.16in (4.0mm)		3.2in (81mm)	ergonomic handle	\$8.00
<u>TW-SD-VPH-2</u>			#2	8.1in (205mm)	3.9in (100mm)	0.24in (6.1mm)	No	4.1in (104mm)		\$10.00

\*Does not have a Lasertip laser-etched non-slip tip.

	Insulated Screwdriver Sets										
Part Number	Number of Pieces	Part Image	Туре	Tip Size	Set Includes	Price					
	C C		Phillips	#1 #2	(4) insulated slotted screwdrivers (2.5, 3.5, 4, 5.5mm), (2)	¢20.00					
<u>TW-SD-SET-2</u>	6	T	Slotted	2.5mm 3.5mm 4.0mm 5.5mm	ińsulated Phillips screwdrivers (#1, #2), wall mount rack	\$39.00					

#### **Insulated Driver Sets with Interchangeable Blades**

The system "one handle - many interchangeable blades" - makes Kraftform Kompakt VDE compact screwdriving sets for in-house as well as mobile electrical application out of the sets. The belt pouch is practical for tidy storage and transportation.



		Interchangeab	le Blades S	crewdr	iver Sets	3	
Part Number	Number of Pieces	Part Image	Туре	Tip Size	Handle Type	Set Includes	Price
			Phillips	#1 #2			
			Pozidriv	#1 #2			
			PlusMinus	#1 #2		(1) Kraftform VDE Blade-holding handle, (14) Kraftform Kompakt extra slim blades (Phillips: #1, #2, Posidriv:	
<u>05136027001</u>	17		O Torx	T10 T15 T20 T25		#1, #2, PlusMinus: #1, #2, torx: T10, T15, T20, T25, slotted: 2.5mm, 3.5mm, 4mm, 5.5mm), (1) Knipex combination pliers, (1) textile storage box	Retired
			Slotted	2.5mm 3.5mm 4.0mm 5.5mm			
			Phillips	#1 #2	Kraftform	(2) Kraffarra handlar far	
			Pozidriv	#1 #2	ergonomic handle	(2) Kraftform handles for interchangeable VDE blades, (4) VDE slotted blades (2.5, 3.5, 4, 5.5mm), (2)	
<u>05347108055</u>	18	<b>≘</b> [          <b> </b>   <b> </b>     <b> </b>   <b> </b>    <b> </b>    <b> </b>	PlusMinus	#1 #2	-	VDE Phillips blades (#1, #2), (2) VDE Phillips/slotted blades (#1, #2), (2) VDE Pozidriv/slotted blades (#1, #2), (2)	Retired
			Slotted	2.5mm 3.5mm 4.0mm 5.5mm	-	VDE square socket blades (#1, #2), (2) square enclosure latch key blades (6,. 8mm), (1) triangle enclosure latch key blade (9mm), (1) double-bit enclosure	
			O Square	#1 #2	-	latch key blade, durable cloth pouch	
		Phillips	#1 #2		(1) Kraftform handle for interchangeable		
<u>TW-SD-VDE-7</u>			Slotted	2.5mm 3.5mm 4.0mm 5.5mm		VDE blades, (4) VDE slotted blades (2.5, 3.5, 4, 5.5mm), (2) VDE Phillips blades (#1, #2), durable cloth pouch	Retired



#### **Chisel Screwdrivers**

Chisel screwdrivers are the tools for the job when regular screwdrivers are not quite enough. The hexagonal blade goes through the handle to an impact cap with integral 1/4 inch square socket. This model is suitable for fastening, chiseling, and loosening seized screws.





			Chise	I Screw	/drivers				
Part Number	Part Image	Туре	Tip Size	Overall Length	Shaft Length	Shaft Diameter	Handle Length	Handle Type	Price
<u>05017040055</u>			#1	7.4in (188mm)	3.5in (90mm)	0.16in (4.0mm)	3.9in (99mm)		\$13.00
<u>05017041055</u>		Phillips	#2	8.6in (218mm)	4.5in (113mm)	0.16in (4.0mm)	4.1in (104mm)	-	\$18.00
<u>05018300055</u>	· ·		4.5mm	7.8in (198mm)	3.9in (100mm)	0.18in (4.6mm)	3.9in (99mm)	Kraftform ergonomic handle	\$11.00
<u>05018301055</u>		Slotted	5.5mm	8.6in (218mm)	4.1in (103mm)	0.22in (5.6mm)	4.1in (104mm)		\$15.00
<u>05018302055</u>			7.0mm	9.6in (243mm)	3.9in (100mm)	0.28in (7.0mm)	4.1in (104mm)		\$18.00

	Chisel Screwdriver Sets											
Part Number	Number of Pieces	Part Image	Туре	Tip Size	Set Includes	Price						
			Phillips	#1 #2								
<u>05018283055</u>	6		Slotted	3.5mm 4.5mm 5.5mm 7.0mm	(4) slotted chisel screwdrivers (3.5, 4.5, 5.5, 7mm), (2) Phillips chisel screwdrivers (#1, #2), (1) wall mount rack	\$58.00						







Impact cap with integrated square socket A hexagonal blade extends through the An integrated impact cap lengthens the handle - thereby ensuring full transfer of

service life and reduces the danger of splintering.

SQUARE

SOCKET CAR

HEXAGON BOLSTER

Hexagon bolster Greater torque can be transferred by using a wrench with the integrated hex bolster.

Pound through blade

force, even when struck with a hammer.

#### **Precision Screwdrivers**

Wera Kraftform Micro precision screwdrivers feature a hand support on the easyturning cap and a fast-turning zone below the cap to accelerate the screw driving process. This makes time-consuming grip adjustments, which are required with conventional precision screwdrivers, unnecessary.





		Prec	ision Screv	vdrivers				
Part Number	Part Image	Туре	Tip Size	Overall Length	Shaft Length	Handle Length	Handle Type	Price
<u>TW-SD-MSL-1</u>			2.0mm	6.2in (157mm)	2.4in (60mm)			\$4.00
<u>TW-SD-MSL-2</u>		Slotted	2.5mm	7.0in	3.1in			\$4.00
<u>TW-SD-MSL-3</u>			3.0mm	(177mm)	(80mm)			\$4.00
<u>TW-SD-MPH-1</u>		Phillips	#0	6.2in (157mm)	2.4in (60mm)	3.8in (97mm)	Kraftform ergonomic handle with rotating cap	\$4.00
<u>05118064001</u>			1.3mm	5.4in (137mm)	1.6in (40mm)			\$4.00
<u>05118066001</u>	Real Property in the second se	O Hex	1.5mm	6.2in	2.4in			\$4.00
<u>05118068001</u>			2.0mm	(157mm)	(60mm)			\$3.00

#### Precision Screwdrivers - Cont'd

		Pre	ecision Sc	rewdriver S	Sets	
Part Number	Number of Pieces	Part Image	Туре	Tip Size	Set Includes	Price
			Philips	#00 #0		
<u>TW-SD-SET-3</u>	6		Slotted	1.8mm 2.0mm 2.5mm 3.0mm	(4) precision slotted screwdrivers (1.8, 2, 2.5, 3mm), (2) precision Phillips screwdrivers (#00, #0), wall mount rack	\$29.00
			Philips	#00 #0		
			Torx	T5 T6		
<u>05073675001</u>	12	Land and American Land and Amer	Slotted	1.5mm 1.8mm 2.0mm 2.5mm 3mm	<ul> <li>(12) Kraftform Micro precision screwdrivers (Phillips: #00, #0, torx: T5, T6, slotted: 1.5mm, 1.8mm, 2mm, 2.5mm, 3mm, hex: 0.9mm, 1.5mm, 2mm), (1) hook and loop fastener strip for storage</li> </ul>	\$50.00
		City and City	O Hex	0.9mm 1.5mm 2.0mm		

## Wera Terminal Block Tools

#### **Terminal Block Tools**

Wera terminal block tools are actuation tools designed for spring terminals. The curved blades also make it easy to operate spring terminals in distribution boxes, which cannot be reached with a straight blade. The blade stays in the terminal block, leaving both hands free to insert the wire. The tools include a multicomponent Kraftform handle for fast and smooth work.







	Terminal Block Tools											
Part Number	Part Image	Туре	Tip Size	Overall Length	Shaft Length	Shaft Diameter	Handle Length	Handle Type	Price			
<u>05008101001</u>	Store Contraction		2.5mm	6.4in	3.2in	0.10in (2.5mm)	3.2in	Kraftform	\$10.00			
<u>05008102001</u>	A State	Slotted	3.5mm	(162mm)	(81mm)	0.14in (3.5mm)	(81mm)	ergonomic handle	\$10.00			

Terminal Block Tool Sets							
Part Number	Number of Pieces	Part Image	Туре	Tip Size	Set Includes	Price	
<u>05008100001</u>	2	A A A A A A A A A A A A A A A A A A A	Slotted	2.5mm 3.5mm	(2) Kraftform Plus angled terminal block tools (slotted: 2.5mm, 3.5mm)	\$21.00	

## Wera L-Key Sets

#### **Hex-Plus L-Keys**

Wera Hex- Plus L-keys for hexagon and Torx socket screws provide more contact surface inside the screw, which prevents rounding.

L-keys can transfer high torque but they must not twist to any great extent, or shear off, to minimize the risk of injuries. Wera's extensive experience with narrow tolerance manufacturing techniques, careful material selection and refined hardening technologies delivers maximum safety at work.









		Ŀ	-Key Sets			
Part Number	Number of Pieces	Part Image	Туре	Material	Set Includes	Price
<u>TW-HK-SET-MM</u>	9			BlackLaser steel	(9) multicolor hex L-keys (1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10mm), fold-out L-key holder	\$13.00
<u>TW-HK-SET-STD</u>	13				(13) hex L-keys (0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8in), fold-out L-key holder	\$24.00
<u>05022089055</u>	9			BlackLaser steel	(9) multicolor hex L-keys (1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10mm), fold-out L-key holder	\$41.00
<u>05022639055</u>	9			with multicolor grips	(9) multicolor hex L-keys (5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8in), durable cloth pouch	\$46.00
<u>05021737001</u>	9			BlackLaser steel	(9) L-key hex keys with BlackLaser material (1.5 x 45mm, 2.0 x 50mm, 2.5 x 56mm, 3.0 x 63mm, 4.0 x 70mm, 5.0 x 80mm, 6.0 x 90mm, 8.0 x 100mm, 10.0 x 112mm), (1) wear-resistant clip	\$4.00
<u>05133163001</u>	9			chrome-plated steel	(9) chrome-plated L-key hex keys (1.5 x 50mm, 2.0 x 56mm, 2.5 x 63mm, 3.0 x 71mm, 4.0 x 80mm, 5.0 x 90mm, 6.0 x 100mm, 8.0 x 112mm, 10.0 x 125mm), (1) wear-resistant clip	\$22.00
<u>05022689001</u>	9		Torx	stainless steel	(9) color-coded stainless steel L-key torx keys (T8 x 90mm, T9 x 101mm, T10 x 112mm, T15 x 123mm, T20 x 137mm, T25 x 154mm, T27 x 172mm, T30 x 195mm, T40 x 224mm), (1) 2-component plastic clip	\$68.00
Note: L-keys are warrar	nted against manufac	cturer defect only.				

## Wera Ratcheting T-Handles

#### **Ratcheting T-Handles**

Wera's ratcheting T-handles is an integrated ratchet with fine toothing (80 teeth/return angle 4.5°) that eases and accelerates screwdriving without having to reposition the tool. The ratchet mechanism completely embedded in the handle ensures very handy and comfortable work. With reversing lever for comfortable clockwise/counterclockwise direction change in one-hand operation. The ergonomic shape of the handle fills the ball of the hand well, the fingers lie securely in the softly rounded recessed grips. The whole hand comes into contact with the handle, friction loss between hand and handle is avoided.

- The integrated ratchet with fine toothing ensures fast and safe working
- Reversing lever for comfortable clockwise/counterclockwise direction change
- Convenient working thanks to the ratchet mechanism fully embedded in the handle
- Ergonomic 2-component handle with finger handle recesses and pleasant surface feel for very high power transmission and fatigue-free working
- Fast-rotating sleeve for extremely high working speed
- 1/4" socket mounting with secure ball lock or bitholder with 1/4" external hexagon drive as per DIN ISO 1173-C 6.3 and E 6.3



Ratcheting T-Handles										
Part Number	Part Image	Drive Size	Fastening Size	Shaft Length	Handle Type	Price				
<u>05023460001</u>	AN A	1/4in	n/a	1.8in (45mm)	Ergonomic t-handle	\$63.00				
<u>05023461001</u>	HI ST	n/a	1/4in			\$63.00				

# Wera Ratcheting T-Handles

#### Ratcheting T-Handles - Cont'd

	Ratcheting T-Handle Sets									
Part Number	Number of Pieces	Part Image	Туре	TipSize	Set Includes	Price				
<u>05023471001</u> 1			Phillips	#2 #3						
			Pozidriv	#2 #3						
	17	OPEN	O Torx	T10 T15 T20 T25 T30 T40	<ul> <li>(1) 1/4in t-handle ratchet bitholding screwdriver with Rapidaptor quick-release chuck, (16) 3.5 driver bits (Phillips: #2, #3 Pozidriv: #2, #3, torx: T10, T15, T20, T25, T30, T40, hex: 3mm, 4mm, 5mm, 6mm, 8mm, slotted: 5.5mm), (1) textile storage pouch</li> </ul>	\$128.00				
			O Hex	3.0mm 4.0mm 5.0mm 6.0mm 8.0mm						
			Slotted	5.5mm						
		OPEN	Phillips	#2 #3	<ul> <li>(1) 1/4in t-handle ratchet bitholding screwdriver with Rapidaptor quick-release chuck,</li> <li>(16) 3.5 driver bits (Phillips: #2, #3, torx: T10, T15, T20, T25, T30, T40, hex: 1/8in, 5/32in,</li> </ul>	\$128.00				
			Pozidriv	#2 #3						
<u>05057473001</u>	17		Torx	T10 T15 T20 T25 T30 T40						
			O Hex	1/8in 5/32in 3/16in 7/32in 1/4in	3/16in, 7/32in, 1/4in, square: #2, #3, slotted: 5.5mm), (1) textile storage pouch					
			Slotted	5.5mm						

# Wera Screwdriver Bit Sets



#### **Screwdriver Bit Sets**

Wera bits have been designed for demanding applications in trade and industry. They are able to transfer high torque loads, are safe to use and extremely durable.

Driver Bit Adapter				
Part Number	Description	Price		
TW-DB-ADT-MAG	Wera Rapidaptor driver bit adapter, 1/4 inch drive, overall length 2-1/4 inch, ring magnet. Manufacturer part number: 052490.	\$20.00		

Note: Bit-holders are warranted against manufacturer defect only.





#### **Telescopic Blade**

When the unique telescopic blade is lowered into the handle, fast, easy screw-driving action is possible, even in the tightest spots! By pushing the clamping sleeve, the telescopic blade can be extended out of the handle and the compact tool becomes a full-sized screwdriver. If the clamping sleeve is pushed again the telescopic blade can be taken out of the handle, and be used as a machine bit adapter.



Screwdriver Bit Set				
Part Number	Description	Price		
TW-DB-SET-SD1	Wera Kraftform Kompact driver bit set with screwdriver, 1/4 inch drive. 8 pieces. Durable cloth pouch included. Manufacturer part number 051024.	\$43.00		

Note: Screwdriver bits and bit-holders are warranted against manufacturer defect only.



TW-DB-SET-SD1

TW	-DB-SET-S	D1 Contents
0		act bit-holding bayonet rewdriver
	1/4 Rapidadaptor bit holder	1/4 x 50
	Slotted bit, 25mm long	0.6 x 4.5, 1.0 x 5.5, 1.2 x 6.5
0	Phillips bit, 25mm long	PH1, PH2, PH3

Note: Fractional dimensions are in inches. Whole and decimal dimensions are in millimeters.

## Wera Driver Bit Sets



Impact Driver Set					
Part Number	Description	Price			
<u>05057460055</u>	Wera Kraftform Kompact series driver set with screwdriver, 1/4inch hex socket drive, metric. 52 pieces. Includes Kraftform Kompact bitholding screwdriver and durable cloth pouch. Manufacturer part number: 057460.	\$122.00			

Note: Screwdriver bits, bit-holders and L-keys are warranted against manufacturer defect only.



05057460055Contents						
	1/4 Kraftform K	1/4 Kraftform Kompact bitholding screwdriver				
• •	1/4 Rapidator holder	1/4 x 50				
0	BiTorsion Phillips, 25mm long	(2) PH1, (4) PH2, (2) PH3				
0	Impaktor Phillips bit, 50mm long	(2) PH2, PH3				
0	BiTorsion Pozidriv® bits, 25mm long	(2) PZ1, (4) PZ2, (2) PZ3				
$\bullet$	Impaktor Pozidriv® bits, 50mm long	(2) PZ2, PZ3				
0	BiTorsion Torx® bits	(2) TX10, (2) TX15, (3) TX20, (2) TX25, (2) TX30, TX40				
0	Impaktor Torx® bits, 50mm long	TX25, TX30, TX40				
	BiTorsion® slotted bit, 25mm long	0.8 x 5.5, 1.0 x 5.5				
0	Impaktor Hex-Plus bit, 50mm long	4.0, 5.0, 6.0				
0	Hex Plus L-key	1.5 x 50, 2.0 x 56, 2.5 x 63, 3.0 x 71, 4.0 x 80, 5.0 x 90, 6.0 x 100, 8.0 x 112				

Note: Fractional dimensions are in inches.

Whole and decimal dimensions are in millimeters.

#### Bits, Bitholding Screwdriver and L-Keys in One Tool Set

This 52-piece set packs maximum screw-driving utility into a compact, lightweight set protected by an extremely robust folding textile box:

- BiTorsion bits for long service life
- Impaktor bits for extreme conditions
- Chrome-plated Hex-Plus L-keys with ball-end hex on long arm
- One Rapidaptor bit holder for quick, one-handed bit changes
- One Kraftform Kompact bit-holding screwdriver for that ergonomic Kraftform feel











Image: Second second

#### **Standard Driver Bits**

Wera bits have been designed for demanding applications in trade and industry. They are able to transfer high torque loads, are safe to use and extremely durable.





	Standard Driver Bits									
Part Number	Part Image	Туре	Tip Size	Bit Length	Drive Size	Description	Package Quantity	Price		
<u>TW-DB-PH-1</u>			#1			Wera #1 Phillips general purpose driver bit, 2.75in bit length, 1/4in drive, hexagonal. Package of 10.		\$10.00		
<u>TW-DB-PH-2</u>		Phillips	#2	2.75in	1/4in	Wera #2 Phillips general purpose driver bit, 2.75in bit length, 1/4in drive, hexagonal. Package of 10.	10	\$10.00		
<u>TW-DB-SL-1</u>		Slotted	3.0mm	2in		Wera 3.0mm slotted general purpose driver bit, 2in bit length, 1/4in drive, hexagonal. Package of 10.		\$31.00		

Note: Screwdriver bits are warranted against manufacturer defect only.

## Wera Torque Screwdrivers

#### **Torque Screwdrivers**

Wera torque tools permit torque-controlled tightening to prevent damage to screws or work pieces and to guarantee the safety of screw connection. This makes labor-intensive drilling, re-tapping and production downtimes a thing of the past.

#### **Features**

- Simple setting of the required torque by hand. Easy-to-read scale value.
- Measurement accuracy is  $\pm$  6 % in accordance with the standard EN ISO 6789. Distinctly audible and noticeable excess-load signal when the pre-set torque is reached.
- All Wera torque tools are supplied with a calibration certificate.



Torque Screwdrivers					
Part Number	Part Image	Description	Price		
<u>TW-TD-2-11</u>		Wera Kraftform 7400 series adjustable torque screwdriver, 2.5-11.5 in·lb set point, numerical torque value, 1/4in hex socket drive. Driver bits not included. Manufacturer part number 074710.	\$89.00		
<u>TW-TD-11-29</u>		Wera Kraftform 7400 series adjustable torque screwdriver, 11-29 in·lb set point, numerical torque value, 1/4in hex socket drive. Driver bits not included. Manufacturer part number 074711.	\$89.00		
<u>05074712055</u>		Wera Kraftform 7400 series adjustable torque screwdriver, 25-55 in lb set point, numerical torque value, 1/4in hex socket drive. Driver bits not included. Manufacturer part number 074712.	\$134.00		











Torque Screwdriver Sets						
Part Number	Part Image	Description	Price			
<u>05350451055</u>		Wera Kraftform 7400 series adjustable torque screwdriver set, 1/4in hex socket drive. 27 pieces. Includes sturdy plastic case. Manufacturer part number 350451.	\$326.00			

Note: Screwdriver bits are warranted against manufacturer defect only.

0	05350451055 Contents										
0	Torque scre	wdriver 2.5-11.5 in lb									
0	Torque screwdriver 11-29 in Ib										
0	25-55 in lb pistol grip torque screwdriver										
0	Hex-Plus bits, 25mm long	2, 2.5, 3, 4, 5, 6									
0	Torx® bits, 25mm long	TX6, TX7, TX8, TX9, TX10, TX15, TX20, TX25, TX30									
0	Torx® Plus bits, 25mm long	TX6, TX7, TX8, TX9, TX10, TX15, TX20, TX25, TX30									

## Wera Nutdrivers

#### **Nutdrivers**

Wera nutdrivers have the same Kraftform Plus handles as standard screwdrivers. Shafts are made of chrome-plated steel and are hollow to allow access to nuts on long screws. Available in imperial and metric sets.





		Nutdriv	ers		
Part Number	Number of Pieces	Part Image	Fastening Size	Set Includes	Price
<u>05345230055</u>	7		3/16in 1/4in 5/16in 11/32in 3/8in 7/16in 1/2in	(7) nutdrivers (3/16, 1/4, 5/16, 11/32, 3/8, 7/16 and 1/2in)	\$41.00
<u>05029510055</u>	7		5mm 5.5mm 6mm 7mm 8mm 10mm 13mm	(7) nutdrivers (5, 5.5, 6, 7, 8, 10 and 13mm)	\$41.00

## Wera Micro ESD Driver Bit Set

#### Kraftform Micro ESD Driver Bit Set

When doing screwdriving jobs on electronic components (like e.g., smartphones and tablet PCs), there should be no electrostatic discharge as this could cause malfunctions and a complete failure.

Therefore, tools that are secure against electrostatic discharge are indispensable.

The electric surface resistance of the Wera ESD material is  $\leq 10^{9}$  ohm. This securely protects components against electrostatic energy and associated damage.











#### ESD safe screwdrivers

The requirements for ESD-safe screwdrivers are specified in the European standard DIN EN 613405-1. This standard also includes a handle that has to be out of a defined conductive material. The Wera products in the ESD series satisfy these standards and the even more stringent requirements demanded by some technology companies.



	EPA	
	ESD TOOL	
_	1002	

Micro ESD Driver Bit Set								
Part Number	Description	Price						
<u>05073671055</u>	Wera Kraftform Kompact series driver bit set with Micro ESD bitholding screwdriver, 4mm Halfmoon/HIOS drive, metric. 20 pieces. Durable cloth pouch included. Manufacturer part number 073671.	\$210.00						

Note: Screwdriver bits are warranted against manufacturer defect only.



<u>05</u>	07367105	5 Contents					
$\bigcirc \bigcirc$	Kraftform Micro E	SD bitholding screwdriver					
•	Slotted bit, 44mm long	0.23 x 1.5, 0.40 x 2.0, 0.50 x 3.0					
0	Phillips bit, 44mm long	PH00, PH0, PH1					
0	Hex-Plus bit, 44mm long	1.5, 2.0					
0	Torx® bit, 44mm long	TX1, TX2, TX3, TX4, TX5, TX6					
0	Torx Plus bits	TX1, TX2, TX3, TX4					
0	Five Lobe bit	#1					

Note: Fractional dimensions are in inches. Whole and decimal dimensions are in millimeters.



### **10** SoftFinish Standard Screwdrivers

#### **Standard Screwdrivers**

Wiha standard screwdrivers consist of premium-quality tool steel engineered for performance in high-demand environments pros see every day. Each driver blade is precisely heat-treated delivering years of service life, and the driver tips are precision machined for an exact fit, nearly eliminating the potential for fastener head cam-out. SoftFinish® driver handles feature an 8-edged large-diameter comfort grip for maximum gripping area, giving the user powerful torque and less fatigue.

- SoftFinish® cushion grip handle for comfort and control
- Dual durometer construction for long-lasting durability
- Handle direct molded to blade for permanent bond
- Handle sized proportionate to blade for consistent mechanical advantage
- Parallel flats for roll-off prevention
- Tip profile labeled on cap for easy identification
- Exact fit precision machined tip for reduced cam-out



	Standard Screwdrivers										
Part Number	Part Image	Туре	Tip Size	Overall Length	Shaft Length	Shaft Diameter	Handle Length	Handle Type	Price		
<u>WT31110</u>	wha s	0	#1	7.5in (191mm)	3.1in (80mm)	0.18in (4.6mm)	4.4in (112mm)	SoftFinish cushion	\$7.25		
<u>WT31115</u>	A CONTRACT OF A	Phillips	#2	8.6in (218mm)	3.9in (100mm)	0.24in (6.1mm)	4.7in (119mm)	SoftFinish cushion grip handle	\$9.50		

	Standard Screwdriver Set										
Part Number	Number of Pieces	Part Image	Туре	Tip Size	Set Includes	Price					
		Phillips	#1 #2								
<u>WT30277</u>	5		Slotted	4.5mm 6.5mm 8.0mm	(5) SoftFinish screwdrivers (Phillips #1, #2, slotted 4.5mm, 6.5mm, 8.0mm)	\$39.00					

### SoftFinish Insulated Screwdrivers

#### **Insulated Screwdrivers**

Wiha Insulated SoftFinish<sup>®</sup> Cushion Grip screwdrivers consist of Wiha engineered premium quality tool steel for strength and durability, have black oxide finish for corrosion protection, and feature exact fit precision machined tips for reduced cam-out. All Wiha Insulated screwdrivers are VDE Certified and meet EN/IEC 60900 testing standards for protection against arc flash explosion, ASTM F1505 standard specifications for insulated and insulating hand tools, NFPA-70E standards for electrical safety on the jobsite, and CSA testing benchmarks for safety and performance. SoftFinish<sup>®</sup> driver handles feature an 8-edged large-diameter comfort grip for maximum gripping area giving, the user powerful torque and less fatigue.

- Ergonomic cushion grip handle for comfort and control
- Dual durometer construction for long-lasting durability
- Handle directly molded to the blade for permanent bond
- Handle size proportionate to blade for consistent mechanical advantage
- Parallel flats for roll-off prevention
- Tip profile labeled on cap for easy identification
- Wiha premium quality tool steel for strength and durability
- Black oxide finish for corrosion protection
- Exact fit precision machined tip for reduced cam-out
- Individually tested to 10,000 volts AC and rated to 1,000 volts AC for safety and peace of mind

			Insu	lated Sc	rewdri	vers					
Part Number	Part Image	Туре	Tip Size	Slotted Tip Thickness	Overall Length	Shaft Length	Shaft Diameter	Handle Length	Handle Type	Insulation Rating	Price
<u>WT32005</u>	white		2.0mm	0.4mm	6.5in (165mm)	2.4in (60mm)	0.20in (5.1mm)				\$6.25
<u>WT32010</u>	office S		2.5mm 7.1in 3.0in 0.22in (180mm) (75mm) (5.6mm) 4.1in			\$6.25					
<u>WT32012</u>	The	3.0m	3.0mm	— 0.6mm	8.0in	n 3.9in		(104mm) 4.4in (112mm)	SoftFinish cushion grip handle	1000V	\$6.25
<u>WT32015</u>	entre est	Slotted	3.5mm		(203mm)	(100mm)					\$6.75
<u>WT32017</u>	alua a	-	4.0mm	0.8mm	8.3in (211mm)	3.9in (100mm)	0.29in (7.3mm)				\$8.00
<u>WT32024</u>	and a second sec		4.5mm	1.0mm	9.3in (236mm)	4.9in (125mm)	0.32in (8.1mm)				\$8.25
<u>WT32039</u>	one of		6.5mm	1.2mm	10.6in (269mm)	5.9in (150mm)	0.38in (9.7mm)	4.7in (119mm)			\$11.25



### **Wihd** SoftFinish Insulated Screwdrivers

		ไทรเ	lated S	crewdriv	ers - Co	nt'd				
Part Number	Part Image	Туре	Tip Size	Overall Length	Shaft Length	Shaft Diameter	Handle Length	Handle Type	Insulation Rating	Price
<u>WT32100</u>	withd S	Phillips	#0	6.5in (165mm)	2.4in (60mm)	0.25in (6.4mm)	4.1in	SoftFinish cushion grip handle	1000V -	\$6.75
<u>WT32101</u>	with a s		#1	7.5in (191mm)	3.1in (80mm)	0.30in (7.6mm)	(104mm)			\$8.00
<u>WT32102</u>	who s		#2	8.6in (218mm)	3.9in (100mm)	0.35in (8.9mm)	4.7in (119mm)			\$9.75
<u>WT32103</u>	South Contract of the		#3	10.6in (269mm)	6.0in (150mm)	0.45in (11.4mm)				\$14.25
<u>WT32505</u>	who s	Torx	Τ5	6.5in	2.4in	0.24in	4.1in			\$7.00
<u>WT32531</u>	wha s		T10	(165mm)	(60mm)	(6.1mm)	(104mm)			\$7.00

		In	sulated So	crewdriv	ers Sets			
Part Number	Number of Pieces	Part Image	Туре	Tip Size Insulation Rating		Set Includes	Price	
	<b>F32091</b> 5	Phillips	#1 #2			\$42.25		
<u>WT32091</u>		Slotted	3.0mm 4.5mm 6.5mm	1000V	(5) insulated SoftFinish screwdrivers (Phillips #1, #2, slotted 3.0mm, 4.5mm, 6.5mm)			
		0001999	Phillips	#1 #2 #3		(7) insulated SoftFinish screwdrivers (Phillips		
<u>WT32099</u>	VT32099 7		Slotted	3.0mm 4.0mm 5.5mm 6.5mm		#1, #2, #3, slotted 3.0mm, 4.0mm, 5.5mm, 6.5mm)	\$63.25	

### **A** Precision Screwdrivers

#### **Precision Screwdrivers**

Wiha Precision Screwdrivers feature cushion-grip handles for comfort and control, and the dual durometer material is direct-molded to the blade for a permanent bond. The Precision style includes a hex profile finger grip for precise torque and a tapered handle for rapid rotation. The handles are sized proportionate to the tip and feature an extra-long handle with smooth-turning cap for multiple hand positions. The driver tip profiles are labeled on the handle to quickly and easily identify the driver.

- Handle direct molded to blade for a permanent bond
- Tapered handle for rapid rotation
- Extra-long handle for optimal hand positions and smooth turning
- Tip profile labeled on handle for easy identification
- Handle sized proportionate to the blade for consistent mechanical advantage
- Wiha engineered premium quality tool steel for strength and durability
- Chrome-plated satin finish for corrosion protection
- Exact fit precision machined tip for reduced cam-out



			Precis	sion Scr	ewdriv	ers				
Part Number	Part Image	Туре	Tip Size	Slotted Tip Thickness	Overall Length	Shaft Length	Shaft Diameter	Handle Length	Handle Type	Price
<u>WT26008</u>	atter		0.8mm	0.16mm		1.6in (40mm)	0.08in (2.0mm)			\$7.00
<u>WT26010</u>		Slotted	1.0mm	0.18mm						\$6.50
<u>WT26012</u>	august -		1.2mm	0.2mm	4.7in			3.1in (79mm)	Cushion grip handle with rotating cap	\$5.50
<u>WT26015</u>			1.5mm	0.25mm	(119mm)					\$5.00
<u>WT26018</u>	THE R		1.8mm	0.3mm						\$5.00
<u>WT26020</u>	me									\$4.75
<u>WT26022</u>			2.0mm	0.4mm	5.7in (145mm)	2.0in (50mm)		3.7in (94mm)		\$4.75
<u>WT26023</u>					7.1in (180mm)	3.9in (100mm)		3.1in (79mm)		\$4.75

### Tools that work for you

**Wiha** Precision Screwdrivers

		Pre	ecision	Screwd	rivers -	Cont'd				
Part Number	Part Image	Туре	Tip Size	Slotted Tip Thickness	Overall Length	Shaft Length	Shaft Diameter	Handle Length	Handle Type	Price
<u>WT26025</u>			0.5		5.7in (145mm)	2.0in (50mm)	0.10in	3.7in (94mm)	\$4.50	
<u>WT26027</u>	75		2.5mm	0.4mm	7.7in (196mm)	3.9in (100mm)	(2.5mm) 3.8in (97mm)	3.8in (97mm)	-	\$4.50
<u>WT26030</u>					5.7in (145mm)	2.0in (50mm)	0.12in (3.0mm)	3.7in (94mm)		\$4.25
<u>WT26032</u>	23		3.0mm	0.5mm	6.7in (170mm)	2.4in (60mm)	0.12in (3.0mm)	4.3in (109mm)		\$4.50
<u>WT26033</u>		Slotted			8.3in (211mm)	3.9in (100mm)	0.12in (3.0mm)	4.4in (112mm)		\$5.00
<u>WT26034</u>					10.2in (259mm)	5.9in (150mm)	0.12in (3.0mm)	4.3in (109mm)	Cushion grip handle with rotating cap	\$5.75
<u>WT26035</u>				0.6mm	6.7in (170mm)	2.4in (60mm)	0.14in (3.5mm)	4.3in (109mm)		\$4.75
<u>WT26040</u>			4.0mm	0.8mm		2.4in (60mm)	0.16in (4.0mm)	4.3in (109mm)		\$5.25
<u>WT26074</u>	Common Co		3.5mm	0.6mm	6.3in (160mm)	2.4in (60mm)	0.14in (3.5mm)	3.9in (99mm)		\$6.25
<u>WT26100</u>	WPER		#00		4.7in	1.6in (40mm)	0.08in (2.0mm)	3.1in (79mm)		\$5.25
<u>WT26102</u>	Hite	Phillips	#000	n/a	(119mm)	1.6in (40mm)	0.08in (2.0mm)	3.1in (79mm)		\$6.75
<u>WT26105</u>			#0		5.7in (145mm)	2.0in (50mm)	0.12in (3.0mm)	3.7in (94mm)		\$4.75
<u>WT26108</u>					6.7in (170mm)	3.0in (75mm)	0.12in (3.0mm)	3.7in (94mm)		\$4.50

### Tools that work for you

### **Wiha** Precision Screwdrivers

		Pre	cision Sc	rewdrive	ers - Cor	ıt'd			
Part Number	Part Image	Туре	Tip Size	Overall Length	Shaft Length	Shaft Diameter	Handle Length	Handle Type	Price
<u>WT26110</u>		Phillips	#1	6.7in (170mm)	2.4in (60mm)	0.16in (4.0mm)	4.3in (109mm)		\$5.00
<u>WT26313</u>			1.3mm (.050in)	4.7in (119mm)	1.6in (40mm)	0.10in	3.1in (79mm)		\$4.75
<u>WT26315</u>		O Hex	1.5mm	5.7in	2.0in	(2.5mm)	3.7in	Cushion grip handle with rotating cap	\$4.75
<u>WT26320</u>			2.0mm (5/64in)	(145mm)	(50mm)	0.09in (2.3mm)	(94mm)		\$4.25
<u>WT26325</u>			2.5mm	6.7in (170mm)	2.4in (60mm)	0.11in (2.9mm)	4.3in (109mm)		\$4.25

### 1-800-633-0405 For the latest price

#### SoftFinish Multi-bit Screwdrivers

Wiha SoftFinish Multi-bit screwdrivers include various double-ended bits stored in the driver shaft for easy access. They feature ergonomic cushion grip handles for comfort and control, dual durometer construction for long-lasting durability, parallel flats to prevent table-top roll-off. 6inOne, 11inOne and a conduit reamer with 6inOne multi-bit drivers are available. See table below for bits included.

- SoftFinish® cushion grip handle for comfort and control
- Handle direct molded to blade for permanent bond
- Handle sized proportionate to blade for consistent mechanical advantage
- Dual durometer construction for long-lasting durability
- Interchangeable blade receiver for multi-tool adaptivity
- Wiha premium quality tool steel for strength and durability
- Parallel flats for roll-off prevention



			Multi	-bit Sc	rewdriv	/ers		
Part Number	Number of Pieces	Part Image	Туре	Bit Size	Overall Length	Handle Type	Set Includes	Price
			Phillips	#1			(1) SoftFinish cushion grip handle, (1) reversible	
WT77890	4	wine		#2	_		shaft with 2 nutdriver profiles (1/4in, 5/16in), (1)	\$14.00
			Slotted	3/16 in			Phillips double-ended bit (#1, #2), (1) slotted double-ended bit (3/16in, 1/4in)	ψ14.00
				1/4 in	_			
			Phillips	#1	_			
				#2				
			Slotted	3/16 in			(1) SoftFinish cushion grip handle, (1) reversible shaft with 2 nutdriver profiles (5/16in, 3/8in),	
WT77891	8	wind		1/4 in	_		(2) double-ended bit holders w/ 1/4in nutdriving	\$17.75
<u></u>	Ū		Torx	T20	8.3in	SoftFinish cushion	capacity, (4) double-ended bits (Phillips: #1, #2, slotted: 3/16in, 1/4in, Torx: T20, T25, square: #1,	ψ11.10
				T25	(211mm)	grip handle	#2)	
				#1				
				#2				
				#1				
				#2			(1) SoftFinish cushion grip handle, (1)	
WT77892	5	wihas	Slotted	3/16 in			interchangeable conduit reamer (1/2in, 3/4in, 1in), (1) reversible shaft with 2 nutdriver profiles (1/4in,	\$28.25
<u></u>	5			1/4 in			5/16in), (1) Phillips double-ended bit (#1, #2), (1)	Ψ20.20
			Conduit Reamer	1/2 in 3/4 in 1 in			slotted double-ended bit (3/16in, 1/4in)	



### Insulated Multi-bit Screwdrivers

#### PocketMax Screwdriver

The 6 Piece Insulated SlimLine PocketMax Multi-bit screwdriver is equipped with insulated SlimLine bits. Every single Wiha insulated tool is individually tested to 10,000 volts AC and rated to 1,000 volts AC (1,500 volts DC) for safety and peace of mind in energized applications. Wiha insulated tools are VDE Certified and meet EN/IEC 60900 testing standards for protection against arc flash explosion, ASTM F1505 standard specifications for insulated and insulating hand tools, NFPA-70E standards for electrical safety on the jobsite, and CSA testing benchmarks for safety and performance.

- SoftFinish® cushion grip handle for comfort and control
- Handle direct molded to blade for permanent bond
- SlimLine blades technology up to 33% narrower insulation diameter, ideal for jobs where access is limited
- Dual durometer construction for long-lasting durability
- Magnetic easy open top with all SlimLine bits secured and stowed away
- Parallel flats for roll-off prevention



	Multi-bit Screwdrivers														
Part Number	Number of Pieces	Part Image	Туре	Bit Size	Overall Length	Handle Type	Set Includes	Price							
			Slotted	3.5 mm											
		aha •		6.5 mm		Softfinish	(1) insulated Pocketmax handle with bit storage, (5) insulated SlimLine bits (slotted:								
<u>WT28345</u>	<b>6</b>	WI	Phillips	#1	6.8in (173mm)	cushion grip handle with bit		\$53.25							
				#2		storage	3.5mm, 6.5mm, Phillips: (#1, #2), square: (#2))								
			O Square	#2											

#### **Pliers**

Wiha's pliers feature soft vinyl hand grips handles for comfort and control. Every plier is constructed of premium quality tool steel with induction hardened jaws and cutting edges for superior sharpness and service life. The pliers are designed with Wiha's patented DynamicJoint, experience 40% more gripping power to reduce hand fatigue and make your work easier.

- Wiha patented DynamicJoint for 40% stronger grip and easier cuts
- Induction-hardened cutting edges and jaws for superior sharpness and longevity
- Slip guard handle design for added protection
- Heavy-duty steel riveted joints to withstand high levels of load



					Pliers							
Part Number	Part Image	Pliers Type	Handle Type	Overall Length	Handle Length	Jaw Length	Jaw Opening	Jaw Thickness	Jaw Width	Material	Capacity	Price
<u>WT30905</u>		Combination	Industrial SoftGrip handles	8.0in (203mm)	5.7in (145mm)	2.69in (68.3mm)	1.80in (45.7mm)	0.46in (11.7mm)	1.10in (27.9mm)		7 AWG	\$30.75
<u>WT32616</u>		Linesman's		9.0in (229mm)	4.9in (124mm)	1.80in (45.7mm)	1.91in (48.5mm)	0.59in (15.0mm)	1.16in (29.5mm)		4 AWG	\$41.25
<u>WT32621</u>		Long Nose		8.0in (203mm)	3.0in (76mm)	2.75in (69.9mm)	3.08in (78.2mm)	0.42in (10.7mm)	0.75in (19.1mm)		8 AWG	\$22.75
<u>WT32624</u>	Sic	Linesman's		9.5in (241mm)	5.7in (145mm)	1.60in (40.6mm)	2.00in (50.8mm)	0.35in (8.9mm)	1.30in (33.0mm)	C70 steel	n/a	\$29.50
<u>WT32637</u>	15		Classic grip vinyl handles	10.0in (254mm)	5.2in (132mm)	1.25in (31.8mm)	1.50in (38.1mm)	0.25in (6.4mm)	1.13in (28.7mm)		1.5in round 1-9/16in hex	\$34.25
<u>WT32661</u>		Tongue and Groove		10.0in (254mm)	4.1in (104mm)	2.30.in (58.4mm)	3.30in (83.8mm)	0.28in (7.1mm)	1.11in (28.2mm)		1.75in round 2.0in hex	\$30.75
<u>WT32635</u>			_	10.3in (262mm)	4.7in (119mm)	1.00in (25.4mm)	1.65in (41.9mm)	0.32in (8.1mm)	1.56in (39.6mm)		n/a	\$51.50
<u>WT32636</u>	20	Diagonal		8.0in (203mm)	6.0in (152mm)	0.90in (22.9mm)	0.50in (12.7mm)	0.54in (13.7mm)	1.16in (29.5mm)		n/a	\$36.00

### Insulated Pliers

#### **Insulated Pliers**

Wiha insulated SoftFinish cushion grip pliers and cutters feature ergonomic cushion grip handles for comfort and control, dual durometer construction for long-lasting durability, and handles directly molded to the tool steel for a permanent bond. The grips feature a slip guard handle design for added protection at the front-end and raised rear-finger steps for easy opening at the back-end. They are individually tested to 10,000 volts AC and rated to 1,000 volts AC (1,500 volts DC) for safety and peace of mind in energized applications. All Wiha Insulated tools are VDE Certified and meet EN/IEC 60900 testing standards for protection against arc flash explosion, ASTM F1505 standard specifications for insulated and insulating hand tools, NFPA-70E standards for electrical safety on the job site, and CSA testing benchmarks for safety and performance.

- Individually tested to 10,000 volts AC and rated to 1,000 volts AC for safety and peace of mind
- Induction hardened cutting edges and jaws for superior sharpness and longevity, approximately 64HRC
- Standard industrial brushed finish for surface endurance
- Slip guard handle design for added protection
- Premium quality C70 tool steel for strength and durability
- · Heavy duty steel riveted joints to withstand high levels of load



				Insu	lated I	Pliers						
Part Number	Part Image	Pliers Type	Handle Type	Overall Length	Handle Length	Jaw Length	Jaw Opening	Jaw Thickness	Jaw Width	Material	Capacity	Price
<u>WT32923</u>		Long Nose		8.0in (203mm)	4.4in (112mm)	2.75in (69.9mm)	3.08in (78.2mm)	0.42in (10.7mm)	0.75in (19.1mm)		8 AWG	\$36.00
<u>WT32926</u>				6.3in	3.9in	1.87in (47.5mm)	2.17in (55.1mm)	0.35in	0.69in (17.5mm)		10 AWG	\$28.75
<u>WT32928</u>		Bent Nose		(160mm)	(99mm)	1.77in (45.0mm)	1.70in (43.2mm)	(8.9mm)	0.67in (17.0mm)		n/a	Retired
<u>WT32930</u>		Combination	Insulated cushion grip handles	8.0in (203mm)	6.0in (152mm)	1.80in (45.7mm)	1.91in (48.5mm)	0.59in (15.0mm)	1.16in (29.5mm)	C70 steel	4 AWG	\$36.00
<u>WT32941</u>		Long Flat Nose			3.9in (99mm)	2.00in (50.8mm)	2.32in (58.9mm)	0.24in (6.0mm)	0.67in (17.0mm)		n/a	\$27.50
<u>WT32947</u>	-	Wire Stripping		6.3in (160mm)	4.4in (112mm)	1.28in (32.5mm)	1.59in (40.4mm)	0.36in (9.1mm)	1.49in (37.8mm)		28-8 AWG	\$30.75
<u>WT32954</u>		Tongue and Groove		10.0in (254mm)	4.7in (119mm)		2.00in (50.8mm)	0.28in (7.1mm)	0.27in (6.9mm)		n/a	\$39.00

### Wihd 🐵 Precision Pliers

#### **Precision Pliers**

Tools that work for you

1-800-633-0405

Wiha's precision pliers feature soft touch satin grips for maximum comfort and control. Every plier is constructed of premium quality tool steel with induction hardened jaws and cutting edges for superior sharpness and service life.

- Soft Touch satin grips for maximum comfort
- Black anti-glare finish, precise cutting edges
- Soft Touch tension return springs
- Induction hardened cutting edges and jaws for superior sharpness and longevity, approximately  ${\rm 64HRC}$
- Premium quality C70 tool steel for strength and durability



	Precision Pliers														
Part Number	Part Image	Pliers Type	Handle Type	Overall Length	Handle Length	Jaw Length	Jaw Thickness	Jaw Width	Material	Price					
<u>WT56801</u>		Pointed Short Nose		5.5in (140mm)		0.79in (20.0mm)	0.24in (6.0mm)	0.51in (13.0mm)		\$34.75					
<u>WT56812</u>		Precision Diagonal	Electronic cushion grip handles	4.5in (114mm)	3.9in (99mm)	0.32in	0.16in (4.0mm)	0.37in (9.5mm)	C70 steel	\$34.00					
<u>WT56813</u>		Precision Diagonal Full Flush		5.0in (127mm)		(8.0mm)	0.20in (5.0mm)	0.39in (10.0mm)		\$37.50					

#### 1-800-633-0405 **Pliers Sets** Tools that work for you

#### **Pliers Sets**

	Part Number Number Part Image Set Type Pliers Type Capacity Set Includes Price												
Part Number	Number of Pieces	Part Image	Set Type	Pliers Type	Capacity	Set Includes	Price						
<u>WT32601</u>	4	wiha		Combination Long Nose Tongue and Groove Diagonal	10 AWG	<ul> <li>(1) combination pliers 8in, (1) long nose pliers w/ cutters</li> <li>6.3in, (1) diagonal cutters</li> <li>6.3in, (1) V-Jaw tongue and</li> <li>groove pliers</li> <li>10in, roll-up tool pouch</li> </ul>	\$89.50						
<u>WT32608</u>	8		Pliers set	Combination Long Nose Long Flat Nose Long Round Nose Diagonal High Leverage Diagonal	4 AWG	<ol> <li>combination pliers 6.3in, (1) high leverage combination pliers 9in, long nose pliers w/ cutters 6.3in, (1) long nose pliers w/ cutters 8in, (1) long flat nose pliers 6.3in, (1) long round nose pliers 6.3in, (1) diagonal cutters 6.3in, (1) high leverage diagonal cutters 8in, (1) pouch canvas</li> </ol>	\$170.75						
<u>WT32626</u>	5			Internal Snap Ring	n/a	(5) classic grip internal ring pliers (12.2in - 3.2mm tip, 5.5in - 0.9mm tip, 5.5in - 1.3mm tip, 7in - 1.5mm tip, 8.9in -2.3mm tip)	\$133.75						
<u>WT32634</u>	3			Long Nose High Leverage Diagonal Linesman's	4 AWG	(1) classic grip long nose pliers 8in, (1) high leverage diagonal cutters 8in, (1) NE Style Lineman's Pliers 9. 5in	\$72.00						
<u>WT32647</u>	4		Pliers and cutters set	Combination Long Nose Tongue and Groove Diagonal	9 AM/C	(1) classic grip combination pliers 8in, (1) classic grip long nose pliers w/ cutters 8in, classic grip diagonal cutter 6.3in, classic grip V-jaw tongue and groove pliers 10in	\$115.00						
<u>WT32648</u>	2			Long Nose Diagonal	8 AWG	(1) classic grip long nose pliers w/ cutters 8in, (1) classic grip diagonal cutters 6.3in	\$44.25						

#### 1-800-633-0405 **Pliers Sets** Tools that work for you

				Pliers Sets - c	ont'd		
Part Number	Number of Pieces	Part Image	Set Type	Pliers Type	Capacity	Set Includes	Price
<u>WT32653</u>			Pliers and cutters set	Combination Long Nose High Leverage Diagonal	4 AWG	(1) classic grip combination pliers 8in, (1) classic grip long nose pliers w/ cutters 8in, classic grip high leverage diagonal cutter 8in, belt pack pouch	\$77.25
<u>WT32669</u>	. 3	wind wind wind wind	Pliers set	Adjustable Push Button	n/a	(3) V-jaw tongue and groove adjustable push button pliers (7in, 10in, 12in)	\$103.00
<u>WT32670</u>			1 11013 301	Tongue and Groove	1//a	(3) V-jaw tongue and groove pliers (7in, 10in, 12in)	\$92.50
<u>WT32698</u>		vites	Pliers and cutters set	Combination Long Nose Diagonal	10 AWG	(1) classic grip combination pliers 7in, (1) classic grip long nose pliers w/cutters 6.3in, (1) classic grip diagonal cutters 6.3in	\$60.50
<u>WT32699</u>	2		Pliers set	Long Nose Linesman's	8 AWG	(1) long nose pliers 8in, (1) NE style lineman's pliers 9.5in	\$60.50
<u>WT32968</u>	3		Pliers and cutters set	Long Nose Linesman's High Leverage Diagonal	4 AWG	(1) industrial long nose pliers 8in (1) NE style lineman's pliers 9.5in, (1) industrial high leverage diagonal cutters 8in	\$113.25
<u>WT57830</u>	3		Pliers set	Wire Stripping Crimping Wire Cutting	22-10 AWG	(1) classic grip wire combination strippers/crimpers 8.25in, 10AWG max capacity, (1) classic grip wire strippers and cutters 6in, 10AWG max capacity, (1) classic grip wire stripper dual NM-B cable 7.75in, 12AWG max capacity	\$70.00

#### **Tool Sets**

Tool Sets													
Part Number	Number of Pieces	Part Image	Set Type	Pliers Type	Screwdriver Type	Tip Sizes	Set Includes	Price					
					Philips	#00 #0 #	(7) precision screwdrivers (Phillips: #00, #0, #1,						
<u>WT26190</u>	0		Screwdriver and pliers set	Long Nose	Slotted	1.5mm 2.0mm 3.0mm	slotted: 1.5mm, 2.0mm, 2.5mm, 3.0mm), (1) 6.3in	\$48.75					
	8		Screwdriver	Classia	Philips	#00 #0 #1	(7) precision screwdrivers (Phillips #00, #0, #1,						
<u>WT26191</u>			and cutters set	Classic Diagonal	Slotted	1.5mm 2.0mm 3.0mm	slotted 1.5mm, 2.0mm, 2.5mm, 3.0mm), (1) 5in classic grip precision diagonal cutters	\$52.75					
		with a set of the set			Philips	#2	-						
<u>WT32872</u>	5		Screwdriver, pliers, and cutters set	Long Nose Diagonal	Slotted	3.0mm 4.0mm	<ul> <li>(1) 6.3in diagonal cutters, (1) 8in long nose pliers, (3) insulated SoftFinished screwdrivers (slotted 3.0mm, 4.5, Phillips #2), belt pack pouch</li> </ul>	\$105.50					
<u>WT32875</u>				Linesman's Long Nose	<ul><li>Philips</li><li>Slotted</li></ul>	#2 4.5mm 6.5mm		\$158.25					
					Philips	#2							
<u>WT32984</u>	6			Combination Long Nose	Slotted	3.0mm 4.5mm		\$105.50					
		vite • with: • with: •			O Square	#2							
		an all and all all all all all all all all all al	Screwdriver and pliers set		Philips	#1 #2							
<u>WT32985</u>	7			Combination Long Nose Diagonal	Slotted	3.0mm 4.5mm	(4) insulated SoftFinish screwdrivers (slotted 3.0mm, 4.5mm, Phillips #1, #2), (1) industrial long nose pliers 6.3in, (1) industrial combination pliers 8in, (1) industrial diagonal cutters 6.3in, belt pack pouch	\$137.00					
		191900			Philips	#1 #2	(1) long nose pliers 6.3in, (1) combination pliers 8in,						
<u>WT32986</u>	11	wiha		Long Nose Combination Diagonal Wire Stripping	Slotted	3.0mm 4.5mm 5.5mm	.0mm (1) diagonal cutters 6.3in, (1) stripping pliers 6.3in, .5mm (7) insulated SoftFinish screwdrivers (slotted 3.0mm, .5mm, 5.5mm, Phillips #1, #2, square #1, #2),						
		0008			O Square	#1 #2	roll-up tool pouch						

### Tools that work for you

### **Impact Driver Bits**

#### **Impact Driver bits**

Wiha driver bits are impact rated for power tools and rigorously heat-treated to produce a bit lasting 120 times the service life compared to standard bits. Wiha's specially designed torsion zone absorbs the impact energy, allowing a maximum torsion flex that goes unmatched. With TerminatorBlue Impact Bits you get the tightest-fit precision-machined driver tips from the company that sets the standard for precision. Wiha's exact-fit tips eliminate excessive bit-wobble for increased driver accuracy. The result is a highly stable engagement with the screw head and a reduction in fastener cam-out that can lead to injury or damage to finished materials.

- TST™ Torsion Stabilizing Technology for maximum flex and reduced tip stress
- · Computer-controlled heat treatment for 120 times service-life over Wiha standard bits
- Tuned torsion zone for maximum flex and reduced tip stress
- CVM premium quality tool steel for strength and durability
- Exact fit precision machined tips for reduced cam-out
- Fit with a standard 1/4 inch hex drive
- Bit lengths available: 1-inch; 2-inch; 3.5-inch
- Impact-rated for power tool applications
- Minimum hardness tolerance of 61 RHC +/- 1



Impact Driver Bits													
Part Number	Part Image	Туре	Tip Size	Bit Length	Drive Size	Description	Package Quantity	Price					
<u>WT70002</u>		Phillips	#2			Wiha TerminatorBlue #2 Phillips impact driver bit, 1in bit length, 1/4in drive, hexagonal. Package of 2.	2	\$3.50					
<u>WT70020</u>		O Torx	T25	1in		Wiha TerminatorBlue T25 Torx impact driver bit, 1in bit length, 1/4in drive, hexagonal. Package of 2.	2	\$3.50					
<u>WT70042</u>			#2			Wiha TerminatorBlue #2 Phillips impact driver bit, 1in bit length, 1/4in drive, hexagonal. Package of 20.	20	\$15.00					
<u>WT70201</u>		Phillips	#1			Wiha TerminatorBlue #1 Phillips impact driver bit, 2in bit length, 1/4in drive, hexagonal. Package of 2.		\$4.00					
<u>WT70202</u>			#2			Wiha TerminatorBlue #2 Phillips impact driver bit, 2in bit length, 1/4in drive, hexagonal. Package of 2.		\$4.00					
<u>WT70203</u>		-	#3		1/4in	Wiha TerminatorBlue #3 Phillips impact driver bit, 2in bit length, 1/4in drive, hexagonal. Package of 2.	2	\$4.00					
<u>WT70220</u>			T25	2in		Wiha TerminatorBlue T25 Torx impact driver bit, 2in bit length, 1/4in drive, hexagonal. Package of 2.	L	\$4.00					
<u>WT70222</u>		Torx	Т30	2		Wiha TerminatorBlue T30 Torx impact driver bit, 2in bit length, 1/4in drive, hexagonal. Package of 2.		\$4.00					
<u>WT70223</u>			T40			Wiha TerminatorBlue T40 Torx impact driver bit, 2in bit length, 1/4in drive, hexagonal. Package of 2.		\$4.00					
<u>WT70269</u>		Phillips	#2			Wiha TerminatorBlue #2 Phillips impact driver bit, 2in bit length, 1/4in drive, hexagonal. Package of 5.	5	\$9.00					
<u>WT70302</u>				3.5in		Wiha TerminatorBlue #2 Phillips impact driver bit, 3.5in bit length, 1/4in drive, hexagonal. Package of 2.	2	\$5.00					

### 1-800-633-0405 Impact Driver Bits Tools that work for you Impact Driver Bit Sets

				Impact Driv	ver <u>Bit</u>	Se <u>ts</u>																				
Part Number	Number of Pieces	Part Image	Туре	Bit Size Tip Size x Length	Bit Quantity Included	Drive Size	Set Includes	Price																		
			Phillips	#1 x 1in #2 x 1in																						
		<b>WHHHHH</b>		T20 x 1in																						
<u>WT70098</u>	8		Torx	T25 x 1in	1		(2) 1in Phillips bits (#1, #2), (3) 1in torx bits (T20, T25, T30), (2) 1in square bits (#1, #2), plastic case	\$13.00																		
		wiha *		T30 x 1in #1 x 1in																						
			<b>O</b> Square	#1 x 1in																						
				#1 x 1in																						
				#2 x 1in	5																					
			Phillips	#3 x 1in #1 x 2in	1																					
				#1 x 2in #2 x 2in	3	-																				
				#3 x 2in	0	1																				
				#2 x 3.5in	1																					
				T15 x 1in																						
				T20 x 1in	2 5																					
				T25 x 1in T30 x 1in		1																				
		TST		T20 x 2in	1		(7) 1in Phillips bits (#1, (5) #2, #3), (5) 2in Phillips bits																			
			Torx	T25 x 2in	2	1	(#1, (3) #2, #3), (1) 3.5in Phillips bit (#2), (3) 1in square bits (#1, (2) #2, #3), (2) 2in square bits (#1, #2), (1) 3.5in																			
<u>WT70297</u>	40		<b>v</b>	Ŭ						v				V	v	V				•		T30 x 2in		1/4in	square bits (#3), (9) 1in Torx bits (T15, (2) T20, (5) T25,	\$32.50
		HUIHHIL LLAL		T40 x 2in T20 x 3.5in			T30), (5) 2in Torx bits (T20, (2) T25, T30, T40), (3) 3.5in																			
				T25 x 3.5in	1		Torx bits (T20, T25, T30), (2) nut setters (5/16in, 3/8in), (1) bit holder (1/4in), plastic case																			
				T30 x 3.5in																						
				#1 x 1in																						
				#2 x 1in	2	-																				
			O Square	#3 x 1in #1 x 2in																						
			_	#2 x 2in																						
				3/8 x 3.5in	1																					
			Nut Setter	3/8 x 3in	1																					
				5/16 x 3in																						
			Bit Holder	1/4 x 2.4in																						
			Phillips	#1 x 2in		]																				
		ותדרתה		#2 x 2in																						
WT70298	7	wiha 🕌	Torx	T20 x 2in T25 x 2in	1		(2) 2in Phillips bits (#1, #2), (2) 2in square bits (#1, #2),	\$13.00																		
11110290	'			T30 x 2in	I		(3) 2in torx bits (T20, T25, T30), plastic case	\$13.00																		
			Square	#1 x 2in																						
			<b>O</b> Square	#2 x 2in																						

#### 1-800-633-0405 **Driver Bits** Tools that work for you

			Im	pact Driver	Bit Set	s - C(	ont'd	
Part Number	Number of Pieces	Part Image	Туре	Bit Size Tip Size x Length	Bit Quantity Included	Drive Size	Set Includes	Price
				#1 x 1in	•			
			Phillips	#2 x 1in #3 x 1in	2			
				T10 x 1in				
				T15 x 1in				
				T20 x 1in				
			Torx	T25 x 1in				
				T27 x 1in	-			
			T30 x 1in	_				
			T40 x 1in			(1) Mini ratchet 1/4in hex to 1/4in square adapter, (1) 1/4in		
			#1 x 1in					
			O Square	#2 x 1in			drive locking magnetic bit holder, (6) Phillips bits ((2) #1,	
W/T70000	20			#3 x 1in		4/4:	(2) #2, (2) #3), (3) square bits (#1, #2, #3), (7) torx bits	<b>¢</b> 00.75
<u>WT76889</u>	32	AND		1/8 x 1in		1/4in	(T10, T15, T20, T25, T27, T30, T40), (4) hex metric bits (3.0mm, 4.0mm, 5.0mm, 6.0mm), (7) hex imperial bits (1/8,	\$33.75
		Contra Contra		9/64 x 1in	1		9/64, 5/32, 3/16, 7/32, 1/4in), (3) Pozidriv bits (#1, #2, #3),	
				5/32 x 1in			plastic case	
		Or .		3/16 x 1in				
			O Hex	7/32 x 1in				
				1/4 x 1in				
				3.0 mm x 1in				
			4.0 mm x 1in					
				5.0 mm x 1in				
				6.0 mm x 1in				
				#1 x 1in				
			Pozidriv	#2 x 1in #3 x 1in				
				#3 X IIN				

	Driver Bit Holders											
Part Number	Part Image	Overall Length	Shaft Length	Handle Type	Description	Price						
<u>WT38800</u>		7.3in (184mm)	4.9in (125mm)	Classic grip t-handle	Wiha t-handle bit holder, 1/4in, 4.9in (125mm) shaft length, classic grip t-handle.	\$12.00						
<u>WT70096</u>		2.4in (61mm)	n/a	n/a	Wiha TerminatorBlue quick-release driver bit adapter, 1/4in drive, 2.4in (61mm) overall length. Impact-rated for power tool applications.	\$8.00						

### 1-800-633-0405 With Colls that work for you

#### **Nut Setters**

Wiha's color coded nut setters are designed with high-visibility color-coding and laser-engraved size callouts for quick and easy identification. The nut setters have a solid shaft to provide strength and durability for long-lasting repetitive use. Wiha color coded nut setters are impact-rated for use in power tools. The nut setters feature industrial-strength magnets that securely retain fasteners to give you the freedom of one-handed work applications. Color coded nut setters are made of premium quality CrMo tool steel and have a durable finish for corrosion protection. Nut setters are precision-formed for exact-fit to reduce fastener cam-out that can lead to injury or damage to finished materials. The socket openings feature a beveled rim for easy fastener engagement with a broached and smooth finish for prolonged life.

- High-visibility color coding for quick and easy size identification
- Industrial strength magnetic tip for secure fastener hold
- Impact rated to 700 in/lbs for maximum performance with Li-ion impact drivers
- Exact fit precision machined tip for reduced cam-out
- Standard 1/4-inch hex drive for universal application
- 6-inch (152mm) overall length for extended reach
- Radiused corners for preventing fastener head round-off
- Broached and clear-coated openings for added corrosion protection
- Cold forged from Chromium-molybdenum alloy steel (CrMo) for strength and durability

witha	wing 316	WING	
7/16	3/8		

Nut Setters											
Part Number	Number of Pieces	Part Image	Set Type	Overall Length	Set Includes	Price					
<u>WT70486</u>	6		Imperial	6in (152.4mm)	(6) color-coded 6in nut setters (1/4in, 5/16in, 3/8in, 7/16in, 1/2in, 9/16in)	\$47.50					
<u>WT70487</u>			Metric		(6) color-coded 6in nut setters (8mm, 10mm, 11mm, 12mm, 13mm, 14mm)	\$47.50					

#### 1-800-633-0405 **With** Hex Keys Tools that work for you

#### Hex Keys

Wiha PocketStar Fold-Out Hex Key Sets are compact at 4.7-inches in length featuring an engineered polymer handle casing to provide both durable storage and secure grip. Hex key sizes are marked on the handle and we've eliminated the struggle of accessing the key you need with an innovative key extractor. Simply engage the pushbutton key extractor to lift the hex keys for easy access and selection. Each hex key consists of premium-quality tool steel and feature a satin finish for corrosion protection. The tips are fit with a chamfered end for smooth fastener engagement with CNC precisionmachined tips for a tight fit and reduced cam-out.

#### **Features**

- Hex keys fold into handle for compact, organized, and secure storage
- Pushbutton key extractor for easy selection
- Engineered polymer handle casing for high-impact environments
- CNC precision-machined for reduced cam-out
- High visibility size markings for clear identification
- Chamfered end for smooth fastener engagement no cut-off distortions
- Chrome-plated satin finish for corrosion protection
- · Heat-treated premium quality tool steel for maximum durability



	Hex Keys									
Part Number	nber of Pieces Part Image Set Type Overall Length Set Includes				Set Includes	Price				
<u>WT35195</u>	7	vita 1	Metric		(1) PocketStar fold-out hex storage handle, (7) integrated metric hex bits (2.0mm, 2.5mm, 3.0mm, 4.0mm, 5.0mm, 6.0mm, 8.0mm)	\$27.75				
<u>WT35197</u>	9	e e wiba	Imperial	- 6.0in (152mm)	(1) PocketStar fold-out hex storage handle, (9) integrated Imperial hex bits (5/64in, 3/32in, 7/64in, 1/8in, 9/64in, 5/32in, 3/16in, 7/32in, 1/4in)	\$27.75				

## 1-800-633-0405 For the latest

#### **Control Cabinet Keys**

Control cabinet keys are used for limiting access to control cabinets and shut-off systems that supply electricity, natural gas, and electricity. They are also for use with air conditioning and ventilation systems, shutoff valves, and in water main supply systems. Wiha's control cabinet keys are designed, engineered, and manufactured by Wiha Germany.

#### **Features**

- For applications with all common switch cabinets and locking systems
- Pen style or cross style
- Consists of keys and profiles integrated into one compact, lightweight tool
- Includes adapter for driver bits for convenient screwdriver function



				Control Ca	ibinet Keys	
Part Number	Number of Pieces	Part Image	Style Lock Types Includes			
<u>WT21103</u>			Cross Style	5mm double-bit.	cross wrench with 5 key profiles: (1) double bit key (5mm/internal and 9mm/external), (1) triangular 9mm, (3) square (5mm, 6mm, 8mm), (1) 1/4in drive adapter, (1) double-ended driver bit (#1 Phillips, 7mm slotted)	\$38.00
<u>WT21105</u>	3		Pen Style	5mm square, 6mm square, 8mm square, 9mm triangular	collapsible cross wrench with 5 key profiles: (3) square (5mm, 6mm, 7mm, 8mm), (1) triangular (9mm), (1) double bit key (5mm/internal and 9mm/ external); (2) universal 1/4in adapter with magnetic bit holder, (2) double- ended bits (7mm slotted/#2 Phillips and Torx T20/T25)	\$51.75

1-800-633-0405

## **MEGAPRO Screwdrivers**



6EXT-SL6

-

	MEGAPRO Screwdrivers	
Part Number	Description	Price
211R2C36RD	211 Ratcheting Bit Driver	\$34.00
151NAS	151 NAS Bit Driver	\$22.00
151ELEC	151 Electronics Bit Driver	\$30.00
151HX	151 Hex Bit Driver	\$25.00
151AUTO	151 Automotive Bit Driver	\$25.00
151SL44	151SL44 Locking Bit Driver	\$27.00
6EXT-SL6	6" Extension	\$12.00
251PRECISION	251 Precision Bit Driver	\$30.00

#### 1-800-633-0405 MEGAPRO Screwdrivers

#### 151NAS Screwdriver \$22.00

Custom loaded multi-bit screwdriver with 7 double-ended **S2 steel hex bits** commonly used for everyday tasks. Made in the USA.



#### 151ELEC Screwdriver \$30.00

Custom loaded multi-bit screwdriver with 7 double-ended **S2 steel bits** commonly used in the electronic industry. Made in the USA.



Double-Ended Bits						
Tool	Description					
	Dbl-End Flat 4-6					
$\mathbf{O}$	Dbl-End Phillips 0-3					
0	Dbl-End Phillips 1-2					
0	Dbl-End Square 1-2					
	Dbl-End Spanner 6-8					
	Dbl-End Spanner 10-12					
0	Dbl-End Torx (Star) 10-15					

#### **Features**

- The double-ended bit load includes Philips 0, 1, 2, 3; Square 0, 1, 2, 3; Flat 4, 6; Torx 10, 15, 20, 25
- Industrial grade S2 steel bits perfect for any job
- Shaft serves as a 1/4" Hex Nut Driver
- Retractable cartridge for easy bit access
- Palm-Saver Technology improves comfort in use
- The EZ Guide collar helps maintain full contact between the bit and the screw for easier screw driving
- The Shaft is made of 12T14 alloy steel
- The handle is made from engineered (Ultra-strong) Triax 1120 resin, an ABS-Nylon alloy
- Lifetime warranty\*
- Weight: 0.5 lb.
- Dimensions: 8.74 x 1.4 x 1.4 in.

\* Warranty refers to manufacturer's defects and do not cover normal wear and tear, product abuse, or product modification.

#### Bit Handle Storage



#### Features

- The double-ended bit load contains, Phillips 0, 1, 2, 3; Flat (slotted) 4, 6; Square (Robertson) 1, 2; Torx pin (Star pin) 10, 15; Spanner 6, 8, 10, 12.
- Industrial grade S2 steel bits perfect for any job.
- Shaft serves as a 1/4" Hex Nut Driver.
- Retractable cartridge for easy bit access.
- Palm-Saver Technology improves comfort in use.
- The EZ Guide collar helps maintain full contact between the bit and the screw for easier screw driving.
- The Shaft is made of 12T14 alloy steel.
- The handle is made from engineered (Ultra-strong) Triax 1120 resin, an ABS-Nylon alloy.
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- Weight: 0.5 lb.
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\* Warranty refers to manufacturer's defects and do not cover normal wear and tear, product abuse, or product modification.

#### Bit Handle Storage



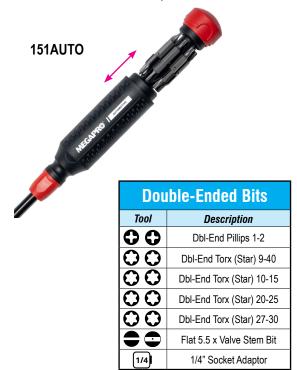
#### 1-800-633-0405 **MEGAPRO Screwdrivers** 151HX Screwdriver \$25.00

Custom loaded multi-bit screwdriver with 7 double-ended **S2 steel hex bits** commonly used to assemble and repair furniture. Made in the USA.



#### 151AUTO SpeciDications \$25.00

Custom loaded multi-bit screwdriver with 6 doubleended bits and a 1/4" socket adapter commonly used in the automotive industry. Made in the USA.



#### **Features**

- The double-ended bit load includes 7 double-ended ball bearing bits: Hex (Allen) 2, 3, 4, 5, 5.5, 6, 3/33, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4.
- Industrial grade S2 steel bits perfect for any job.
- Shaft serves as a 1/4" Hex Nut Driver.
- Retractable cartridge for easy bit access.
- Palm-Saver Technology improves comfort in use.
- The EZ Guide collar helps maintain full contact between the bit and the screw for easier screw driving.
- The Shaft is 12T14 alloy steel.
- The handle is made from engineered (Ultra-strong) Triax 1120 resin, an ABS-Nylon alloy.
- Lifetime warranty\*
- Weight: 0.5 lb.
- Dimensions: 8.74 x 1.4 x 1.4 in.

\* Warranty refers to manufacturer's defects and do not cover normal wear and tear, product abuse, or product modification.

#### Bit Handle Storage



#### **Features**

- The bit load includes Philips 1, 2; Torx (Star) 9, 10, 15, 20, 25, 27, 30, 40; Flat 5.5; Valve Stem; 1/4" Socket adapter; and 1/4" Hex Nut Driver shaft.
- Industrial grade S2 steel bits.
- Shaft serves as a 1/4" Hex Nut Driver.
- Retractable cartridge for easy bit access.
- Palm-Saver Technology improves comfort in use.
- The EZ Guide collar helps maintain full contact between the bit and the screw for easier screw driving.
- The Shaft is made of 12T14 alloy steel.
- The handle is made from engineered (Ultra-strong) Triax 1120 resin, an ABS-Nylon alloy.
- Lifetime warranty\*.
- Weight: 0.5 lb.
- Dimensions: 8.74 x 1.4 x 1.4 in.

\* Warranty refers to manufacturer's defects and do not cover normal wear and tear, product abuse, or product modification.

#### Bit Handle Storage



#### 1-800-633-0405 MEGAPRO Screwdrivers

#### 151SL44 Speci Dications \$27.00

Multi-bit Screwdriver with patented locking mechanism that holds your bit tight. Loaded with the most widely used bits. Made in the USA.



	Double-Ended Bits						
Tool	Description						
0	Shaftlok Dbl-End Square 0-3						
0	Shaftlok Dbl-End Square 1-2						
0	Shaftlok Dbl-End Phillips 0-3						
0	Shaftlok Dbl-End Phillips 1-2						
	Shaftlok Dbl-End Flat 4-6						
0	Shaftlok Dbl-End Torx (Star)						
0	Shaftlok Dbl-End Torx (Star)						

#### 6EXT-SL6 SpeciDications \$12.00

A slim profile 6" extension that locks into the ShaftLOK<sup>™</sup> 15-in-1 Multi-Bit Screwdriver. Made with one solid steel piece with .375" (9.6mm) clearance. The Megapro ShaftLOK<sup>™</sup> extensions can also be used in power drills and multiple extensions can be locked together for extra long reach.

#### Features

- The double-ended bit load includes Flat 4, 6; Philips 0, 1, 2, 3; Square 0, 1, 2, 3; Torx 10, 15, 20, 25.
- Industrial grade S2 steel bits perfect for any job.
- Shaft serves as a 1/4" Hex Nut Driver.
- The ShaftLOK<sup>™</sup> bit locking mechanism eliminates the hassle of bits falling out of the shaft when getting partially "stuck" in the fastener as the screwdriver is pulled away.
- The ShaftLOK<sup>™</sup> has a 6" extension add-on using the same locking technique for a much longer reach.
- Retractable cartridge for easy bit access.
- Palm-Saver Technology improves comfort in use.
- The EZ Guide collar helps maintain full contact between the bit and the screw for easier screw driving.
- The Shaft is made of 12T14 alloy steel; specially modified S2 Steel.
- The handle is made from engineered (Ultra-strong) Triax 1120 resin, an ABS-Nylon alloy.
- Lifetime warranty.\*
- Weight: 0.5 lb.
- Dimensions: 8.74 x 1.4 x 1.4 in.

\* Warranty refers to manufacturer's defects and do not cover normal wear and tear, product abuse, or product modification.

#### **Bits Handle Storage**



#### **Features**

- Black Steel Oxide.
- Patented Locking Mechanism.
- Weight: 0.20 lb.
- Dimensions: 6 x 0.375 x 0.375 in.
- Made in USA.



#### 1-800-633-0405 **MEGAPRO Screwdrivers** 251PRECISION Speci⊡ication \$30.00

**24 laser engraved Precision bit tips** all in one comfortable driver. Patented Retractable Bit Cartridge and Palm-saver Cap<sup>™</sup>. Rubberized handle for comfortable use. Made in Taiwan.

#### 251PRECISION

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Double-Ended Bits							
Та	ool	Description					
0	0	Dbl-End Hex 1.5-2.0					
0	0	Dbl-End Hex 2.5-3.0					
0	0	Dbl-End Pentalobe 2 - 5					
0	0	Dbl-End Phillips 1-000					
$\mathbf{O}$		Dbl-End Phillips 2-00					
$\mathbf{c}$		Dbl-End Flat 1.5-2.0					
		Dbl-End Flat 2.5-3.0					
θ	0	Spanner 2.6 -Triangle 2.3					
0	$\odot$	Dbl-End Torx (Star) 3 -Torx (Star) Pin 6					
0	$\odot$	Dbl-End Torx (Star) 4 -Torx (Star) Pin 8					
0	0	Dbl-End Torx 10 - Phillips 0					
$\odot$	$\odot$	Dbl-End Torx (Star) Pin 10-15					

#### 211R2C36RD SpeciDications \$34.00

Ratcheting multi-bit screwdriver loaded with 12 commonly used double-ended bits. Patented zinc alloy solid-core mechanism that delivers more control and torque. Made in the USA.



#### **Features**

- The bit assortment includes: Hex 1.5, 2.0, 2.5, 3.0; Pentalobe 2, 5; Phillips 1, 000, 2, 00, 0; Slot 1.5, 2.0, 2.5, 3.0; Spanner 2.6; Tri-Angle 2.3; Torx 3, 4, 5; Torx tamperproof 6, 8, 10, 15.
- Industrial grade S2 steel bits.
- Retractable cartridge for easy bit access.
- Palm-Saver Technology improves comfort in use.
- Rubber grips on the collar provide even further control and comfort, maximizing speed and efficiency.
- 3-year warranty\*
- Weight: 0.15 lb.
- Dimensions: 6.27 x 1.08 x 1.08 in.
- \* Warranty refers to manufacturer's defects and do not cover normal wear and tear, product abuse, or product modification.

#### Bit Handle Storage



#### Features

- The double-ended bit load includes Philips 0, 1, 2, 3; Square (Robertson) 1, 2; Flat (Slot) 4, 6; Star (Torx) 10, 15, 20, 25.
- Industrial grade S2 steel bits perfect for any job.
- Shaft serves as a 1/4" Hex Nut Driver.
- Chamfered solid shaft for long life and durability.
- The 28-tooth ratchet with a patented zinc alloy solidcore mechanism gives you greater control and delivers more than 225 in/lbs of torque.
- Cushion grip, tapered designed handle provides extra comfort.
- Retractable cartridge for easy bit access.
- Palm-Saver Technology improves comfort in use.
- The handle is made from engineered (Ultra-strong) Triax 1120 resin, an ABS-Nylon alloy.
- Lifetime warranty\*
- Weight: 0.66 lb.
- Dimensions: 9.84 x 1.97 x 1.97 in.

\* Warranty refers to manufacturer's defects and do not cover normal wear and tear, product abuse, or product modification.

#### Bit Handle Storage



# Wera Wrenches

#### **Insulated Adjustable Wrenches**

Wera Joker VDE insulated adjustable wrenches are Individually tested tools as per IEC 60900 at 10,000 V for safe working at the approved voltage of 1,000V. The adjustable VDE spanner continuously and automatically grips all hexagonal sizes in the indicated range of dimensions - metric and imperial. The integrated lever mechanism securely clamps the hexagon screw or bolt between the jaws, which significantly reduces the risk of slippage or damage. The ratchet feature ensures fast and consistent screwdriving without removing the tool. The single-arm design, in conjunction with the ratchet feature and the corner-width prism, makes it possible to work even in confined spaces. Safety is increased by the anti-slip protection at the front end of the handle. The sliding function offers contactless and safe opening of the non-insulated jaws, thereby providing extra protection.

#### **Features**

- Individually tested with insulated handles for safe working up to 1,000 volt, with anti-slip protection and sliding function forcontactless and safe opening of the non-insulated jaws
- Automatic and continuous grip of hexagon screws and bolts
- Lever mechanism when gripping avoids slipping and damage
- Fast and consistent screwdriving without removing the wrench thanks to mechanical ratchet function
- Return angle of only  $30^\circ$  through placement in the corner-width rectangular prisms in the mouth





	Insulated Adjustable Ratcheting Combination Wrenches									
Part Number	Wrench Type	Fastening Size	Jaw Thickness	Overall Length	Wrench Features	Price				
<u>05020150001</u>		1/4-3/8in	0.30in (7.7mm)	4.7in (119mm)		\$49.00				
<u>05020151001</u>	Advertable	7/16-1/2in	0.39in (10.0mm)	6.1in (155mm)	Automatic and continuous self-setting, 30 degree low return	\$54.00				
<u>05020152001</u>	Adjustable	1/2-5/8in	0.49in (12.4mm)	7.5in (190mm)	angle, and contactless jaw opening feature	\$61.00				
<u>05020153001</u>	1	5/8-3/4in	0.55in (14.0mm)	8.9in (226mm)		\$76.00				

	Insulated Adjustable Ratcheting Combination Wrench Sets								
Part Number	Number of Pieces	Part Image	Set Includes	Price					
<u>05020170001</u>	4		(4) Joker VDE adjustable wrenches (1/4-3/8in capacity, 7/16-1/2in capacity, 1/2-5/8in capacity, 5/8-3/4in capacity)	\$245.00					

# Wera Wrenches

#### **Metric Ratcheting Combination Wrenches**

Joker metric combination ratchet wrenches revolutionize the humble wrench. The 12-point open end features a unique 6-point stop plate that enables easier turning of bolts and also provides improved grip for loosening stubborn bolts. The fine tooth ratchet mechanism is exceptional for working in tight spaces. Joker wrenches feature chrome molybdenum steel construction with a nickel-chrome coating for corrosion protection.















	Ν	Aetric Ratchet	ing Combina	tion Wrenches		
Part Number	Wrench Type	Fastening Size	Jaw Thickness	Overall Length	Wrench Features	Price
<u>05073268055</u>		8mm	0.22in (5.5mm)	9.3in (235mm)		\$21.00
<u>05073270055</u>	Combination	10mm	0.2211 (0.01111)	6.7in (171mm)	Special nut holding feature Fine tooth ratchet	\$22.00
<u>05073271055</u>		11mm	0.25in (6.3mm)	6.3in (159mm)		\$23.00
<u>05073272055</u>		12mm	0.26in (6.6mm)	7.4in (188mm)		\$24.00
<u>05073273055</u>		13mm	0.28in (7.0mm)	6.5in (165mm)		\$24.00
<u>05073274055</u>		14mm	0.30in (7.7mm)	9.7in (246mm)		\$25.00
<u>05073275055</u>		15mm	0.31in (7.8mm)	8.3in (212mm)		\$27.00
<u>05073276055</u>		16mm	0.32in (8.2mm)	7.0in (177mm)		\$28.00
<u>05073277055</u>		17mm	0.33in (8.5mm)	6.5in (165mm)		\$31.00
<u>05073278055</u>		18mm	0.35in (9.0mm)	6.3in (159mm)		\$32.00
<u>05073279055</u>		19mm	0.37in (9.5mm)	7.4in (188mm)		\$35.00

Metric Ratcheting Combination Wrench Sets								
Part Number	Number of Pieces	Part Image	Set Includes	Price				
<u>05073290055</u>	4	88 88 88 88	(4) ratcheting combination wrenches (10, 13, 17 and 19mm), durable cloth pouch	\$107.00				
<u>05020013055</u>	11	. Selection	(8) ratcheting combination wrenches (8, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19mm), durable cloth pouch	\$287.00				

## Wera Wrenches

#### **Imperial Ratcheting Combination Wrenches**

Joker imperial combination ratchet wrenches revolutionize the humble wrench. The 12-point open end features a unique 6-point stop plate that enables easier turning of bolts and also provides improved grip for loosening stubborn bolts. The fine tooth ratchet mechanism is exceptional for working in tight spaces. Joker wrenches feature chrome molybdenum steel construction with a nickel-chrome coating for corrosion protection.













	Imperial Ratcheting Combination Wrenches									
Part Number	Wrench Type	Fastening Size	Jaw Thickness	Overall Length	Wrench Features	Price				
<u>05073280055</u>		5/16in	0.22in (5.5mm)	5.7in (144mm)		\$21.00				
<u>05073281055</u>		3/8in	0.2211 (3.31111)	7.9in (200mm)		\$22.00				
<u>05073282055</u>		7/16in	0.25in (6.3mm)	5.7in (144mm)		\$24.00				
<u>05073283055</u>		1/2in	0.28in (7.0mm)	4.7in (119mm)	Special nut holding	\$24.00				
<u>05073284055</u>	Combination	9/16in	0.30in (7.7mm)	9.3in (235mm)	feature Fine tooth ratchet	\$25.00				
<u>05073285055</u>		5/8in	0.32in (8.2mm)	7.0in (177mm)		\$28.00				
<u>05073286055</u>		11/16in	0.35in (9.0mm)	9.7in (246mm)	·	\$32.00				
<u>05073287055</u>		3/4in	0.37in (9.5mm)	8.3in (212mm)		\$35.00				

Imperial Ratcheting Combination Wrench Sets								
Part Number	Number of Pieces	Part Image	Set Includes	Price				
<u>05073295055</u>	4	88#88 ·	(4) ratcheting combination wrenches (7/16, 1/2, 9/16 and 3/4in), durable cloth pouch	\$107.00				
<u>05020012055</u>	8	ALL AGA C	(8) ratcheting combination wrenches (5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16 and 3/4in), durable cloth pouch	\$205.00				

www.automationdirect.com



### Zyklop Metal Ratchet



#### Small return angle

The fine 72 tooth ratchet mechanism has a low return angle of 5°. This short stroke allows fast and precise work in small spaces.



Meta 24Kiop 8003 B 34

#### Extremely slim Long leverage

Forged, chrome-molybdenum steel ratchet has no torque limitation and is designed to fit in tight areas.



## Secure socket lock mechanism

The ball lock holds sockets and attachments securely, ensuring safe operation. To release the socket simply press the release button.

Wera Metal Ratchets and Ratchet Sets			
Part Number	Description	Pcs/ Pkg	Price
<u>05004004055</u>	Wera Zyklop Metal ratchet, switch lever, 1/4 inch drive, 5 degree return angle, all metal construction, secure socket lock mechanism.	1	\$46.00
<u>05004034055</u>	Wera Zyklop Metal ratchet, switch lever, 3/8 inch drive, 5 degree return angle, all metal construction, secure socket lock mechanism.	1	\$53.00
<u>05004064055</u>	Wera Zyklop Metal ratchet, switch lever, 1/2 inch drive, 5 degree return angle, all metal construction, secure socket lock mechanism.	1	\$61.00



Switch Lever Switch lever for convenient change of direction.

11 2 100 800€ C 1/2

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### Wera Zyklop Metal Ratchet and Socket Sets



#### 1/4 inch Drive Imperial and Metric Ratchet Sets



1/4 inch Drive Metal Ratchet Sets		
Part Number	Description	Price
<u>05004021055</u>	Wera socket set with Zyklop Metal switch lever ratchet, 1/4 inch drive, SAE. 28 pieces. Durable cloth pouch included. Manufacturer part number: 004021.	\$109.00
<u>05004018055</u>	Wera socket set with Zyklop Metal switch lever ratchet, 1/4 inch drive, metric. 28 pieces. Durable cloth pouch included. Manufacturer part number: 004018.	\$109.00

Note: Screwdriver bits and bit-holders are warranted against manufacturer defect only.





Wera socket set with Zyklop Metal switch lever ratchet, 1/4 inch drive, SAE, 28 pieces. Includes the pieces listed in the table below.

050	04021055	Contents	
0	1/4 Zyklop Metal ratchet		
۲	6-point socket, 23mm long	3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2	
	Extension	1/4 x 150	
	Wobble Extension	1/4 x 56	
	Bit adapter	1/4 x 1/4 x 37	
0	Hex-Plus bit, 25mm long	3, 4, 5, 6	
0	Phillips bit, 25mm long	PH1, PH2, PH3	
0	Posidriv® bit, 25mm long	PZ1, PZ2	
0	Torx® bit, 25mm long	TX10, TX15, TX20, TX25, TX27, TX30	

Note: Fractional dimensions are in inches. Whole and decimal dimensions are in millimeters.



Wera socket set with Zyklop Metal switch lever ratchet, 1/4 inch drive, metric, 28 pieces. Includes the pieces listed in the table below.

050	04018055	Contents	
0	1/4 Zyklop Metal ratchet		
۲	6-point socket, 23mm long	5, 5.5, 6, 7, 8, 10, 11, 12, 13	
	Extension	1/4 x 150	
	Wobble Extension	1/4 x 56	
	Bit adapter	1/4 x 1/4 x 37	
0	Hex-Plus bit, 25mm long	3, 4, 5, 6	
0	Phillips bit, 25mm long	PH1, PH2, PH3	
0	Posidriv® bit, 25mm long	PZ1, PZ2	
0	Torx® bit, 25mm long	TX10, TX15, TX20, TX25, TX27, TX30	

Note: Fractional dimensions are in inches. Whole and decimal dimensions are in millimeters.

#### 1-800-633-0405

## Wera Zyklop Metal Ratchet and Socket Sets



#### 3/8 inch Drive Imperial and Metric Ratchet Sets



3/8 inch Drive Metal Ratchet Sets		
Part Number	Description	Price
<u>05004051055</u>	Wera socket set with Zyklop Metal switch lever ratchet, 3/8 inch drive, SAE. 29 pieces. Durable cloth pouch included. Manufacturer part number 004051.	\$140.00
<u>05004048055</u>	Wera socket set with Zyklop Metal switch lever ratchet, 1/2 inch drive, metric. 28 pieces. Durable cloth pouch included. Manufacturer part number 004078.	\$140.00

Note: Screwdriver bits and bit-holders are warranted against manufacturer defect.





Wera socket set with Zyklop Metal switch lever ratchet, 3/8 inch drive, SAE, 29 pieces. Includes the pieces listed in the table below.

05	00405105	55 Contents	
0	3/8 Zyklop Metal ratchet		
۲	6-point socket	1/4 x 29, 5/16 x 29, 3/8 x 29, 7/16 x 29, 1/2 x 29, 9/16 x 29, 5/8 x 30, 11/16 x 30, 3/4 x 30	
	Extension	3/8 x 200	
	Wobble Extension	3/8 x 76	
	Bit adaptor	3/8 x 1/4 x 44	
0	Hex-plus bit, 25mm long	5/32, 3/16, 7/32, 1/4, 5/16	
0	Phillips bit, 25mm long	PH1, PH2, PH3	
O	Posidriv® bit, 25mm long	PZ1, PZ2	
0	Torx® bit, 25mm long	TX 15, TX 20, TX 25, TX 27, TX 30, TX 40	

Note: Fractional dimensions are in inches. Whole and decimal dimensions are in millimeters.



Wera socket set with Zyklop Metal switch lever ratchet, 3/8 inch drive, metric, 29 pieces. Includes the pieces listed in the table below.

050	00404805	5 Contents	
0	3/8 Zyklop Metal ratchet		
۲	6-point socket	8 x 29, 10 x 29, 12 x 29, 13 x 29, 15 x 29, 16 x 30, 17 x 30, 18 x 30, 19 x 30	
	Extension	3/8 x 200	
	Wobble Extension	3/8 x 76	
	Bit adaptor	3/8 x 1/4 x 44	
0	Hex-Plus bit, 25mm long	3, 4, 5, 6, 8	
0	Phillips bit, 25mm long	PH1, PH2, PH3	
0	Posidriv® bit, 25mm long	PZ1, PZ2	
0	Torx® bit, 25mm long	TX 15, TX 20, TX 25, TX 27, TX 30, TX 40	

Note: Fractional dimensions are in inches. Whole and decimal dimensions are in millimeters.

### 1-800-633-0405 Wera Zyklop Metal Ratchet and Socket Sets

#### 1/2 inch Drive Imperial and Metric Ratchet Sets



0	C
EXTRA Slim	UNLOCK

1/2 inch Drive Metal Ratchet Sets		
Part Number	Description	Price
<u>05004081055</u>	Wera socket set with Zyklop Metal switch lever ratchet, 1/2 inch drive, SAE. 28 pieces. Durable cloth pouch included. Manufacturer part number 004081.	\$203.00
<u>05004078055</u>	Wera socket set with Zyklop Metal switch lever ratchet, 1/2 inch drive, metric. 28 pieces. Durable cloth pouch included. Manufacturer part number 004078.	\$203.00

Note: Screwdriver bits and bit-holders are warranted against manufacturer defect.



Wera socket set with Zyklop Metal switch lever ratchet, 1/2 inch drive, SAE, 28 pieces. Includes the pieces listed in the table below.

050	04081055	Contents	
0	1/2 Zyklop Metal ratchet		
۲	6-point socket, 37mm long	3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16	
	Extension	1/2 x 250	
	Wobble Extension	1/2 x 52	
	Bit adaptor	1/2 x 5/16 x 50	
0	Hex-Plus bit, 30mm long	7/32, 1/4, 5/16, 3/8	
0	Phillips bit, 32mm long	PH2, PH3	
0	Torx® bit, 35mm long	TX20, TX25, TX27, TX30, TX40, TX45, TX50, TX55	

Note: Fractional dimensions are in inches. Whole and decimal dimensions are in millimeters.



Wera socket set with Zyklop Metal switch lever ratchet, 1/2 inch drive, metric, 28 pieces. Includes the pieces listed in the table below.

050	04078055	Contents	
0	1/2 Zyklor	1/2 Zyklop Metal ratchet	
	6-point socket, 37mm long	10, 11, 12, 13, 14, 15, 16, 17, 18, 19	
•	Extension	1/2 x 250	
	Wobble Extension	1/2 x 52	
	Bit adaptor	1/2 x 5/16 x 50	
0	Hex-Plus bit, 30mm long	5, 6, 8, 10	
0	Phillips bit, 32mm long	PH2, PH3	
0	Torx® bit, 35mm long	TX20, TX25, TX27, TX30, TX40, TX45, TX50, TX55	

Note: Fractional dimensions are in inches. Whole and decimal dimensions are in millimeters.





#### **Zyklop Speed Ratchet**



#### Small return angle

The fine 72 tooth ratchet mechanism has a low return angle of 5°. This short stroke allows fast and precise work in small spaces.



#### Swivel ratchet head

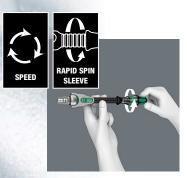
The ratchet head pivots freely and locks at 0°, 15° and 90°, making it possible to work in confined spaces with ample hand clearance.



#### Simple direction change

Rotating the large thumbwheel quickly changes rotation from clockwise to counterclockwise from any position of the ratchet head.

Wera Speed Ratchets		
Part Number	Description	Price
<u>05003500055</u>	Wera Zyklop Speed ratchet, 1/4 inch drive, with locking swivel head and ergonomic grip handle. Manufacturer part number 003500.	\$76.00
<u>05003550055</u>	Wera Zyklop Speed ratchet, 3/8 inch drive, with locking swivel head and ergonomic grip handle. Manufacturer part number 003550.	\$85.00
<u>05003600055</u>	Wera Zyklop Speed ratchet, 1/2 inch drive, with locking swivel head and ergonomic grip handle. Manufacturer part number 003600.	\$93.00



#### **Unbelievably fast**

The gyrating mass design along with the Kraftform handle and free-turning sleeve allow for rapid rotation when used as a screwdriver.

## Wera Zyklop Speed Ratchet and Socket Sets



#### 1/4 inch Drive Metric Ratchet Sets





1/4 inch Drive Metric Ratchet Sets			
Part Number Description Pr			
O5051045055         Wera driver bit and socket set with Zyklop Speed ratchet, 1/4 inch drive, metric, 26 pieces. Durable cloth pouch included. Manufacturer part number 051045.		\$126.00	
Note: Screwdriver bits and bit-holders are warranted against manufacturer defect only.			



Wera driver bit and socket set with Zyklop Speed ratchet, 1/4 inch drive, metric, 26 pieces. Includes the pieces listed in the table below.

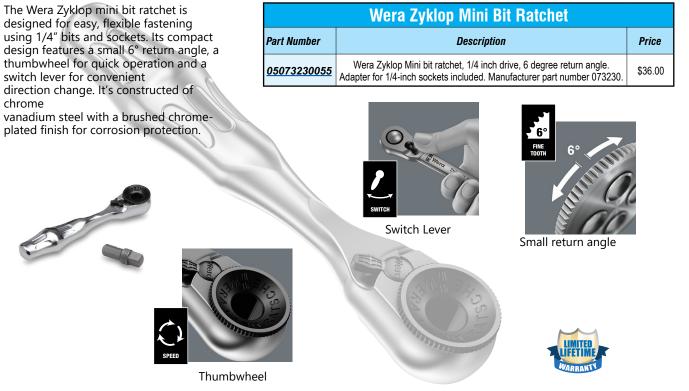
	05051045055 Contents			
0	1/4 Zyklop Speed ratchet			
۲	6-point socket	5.5, 6, 7, 8, 10, 12, 13		
	Lockable extension	1/4 x 150		
	Bit adaptor	1/4 x 37		
•	Slotted bit	1.0 x 5.5 x 50		
0	Hex-Plus bit, 50mm long	3, 4, 5, 6		
0	Phillips bit, 50mm long	PH1, PH2, PH3		
Ø	Posidriv® bit, 50mm long	PZ1, PZ2		
0	Torx® bit, 50mm long	TX10, TX15, TX20, TX25, TX30, TX40		

Note: Fractional dimensions are in inches. Whole and decimal dimensions are in millimeters.





#### **Zyklop Mini Ratchet**



## Wera Zyklop Mini Bit Ratchet Sets

Zyklop Mini Bit Ratchet Sets				
Part Number Description				
Wera Tool-Check driver bit and socket set with Zyklop Mini bit ratchet, 1/4 inch drive, metric. 38 pieces. Plastic case included. Manufacturer part number 073220.				
05056491001         Wera Tool-Check standard socket and driver bit set, 39 pieces, 1in bit length, 1/4in drive, imperial.				
TW-DB-SET-28R	Wera Bit-Check driver bit set with Zyklop Mini bit ratchet, 1/4 inch drive, SAE. 31 pieces. Plastic case included. Manufacturer part number 346293.	\$77.00		

Note: Screwdriver bits are warranted against manufacturer defect.



Wera Tool-Check driver bit and socket set with Zyklop Mini bit ratchet, 1/4 inch drive, SAE, 38 pieces. Includes the pieces listed in the table below.

05073220055 Contents			
0	Zyklop N	/ini bit ratchet	
• •	Rapidaptor bit holder	1/4 x 50	
00	1/4 socket adaptor	1/4 x 25	
•	Slotted	1.0 x 5.5 x 25	
0	Hex-Plus bit, 25mm long	3, 4, 5, 6, 8	
0	Phillips bit, 25mm long	(2) PH1, (3) PH2, PH3	
0	Torx® bit, 25mm long	TX10, TX15, TX20, TX25, TX30, TX40	
$\odot$	Tamper-proof Torx® bit, 25mm long	TX10, TX15, TX20, TX25, TX30	
0	Posidriv® bit, 25mm long	PZ1, (3) PZ2, PZ3	
	6-point socket	5.5, 6.0, 7.0, 8.0 10.0, 12.0, 13.0	

Wera Bit-Check driver bit set with Zyklop Mini bit ratchet, 1/4 inch drive, SAE, 31 pieces. Includes the pieces listed in the table below.

TW-DB-SET-28R Contents			
0	Zyklop Mini bit ratchet		
00	1/4 Rapidaptor bit holder 1/4 x 50		
	1/4 socket adaptor	1/4 x 25	
0	Phillips bit, 25mm long	(2) PH1, (3) PH2, PH3	
0	Torx® bit, 25mm long	TX10, TX15, TX20, TX25, TX30, TX40	
$\odot$	Tamperproof Torx® bit, 25mm long	TX10, TX15, TX20, TX25, TX30	
	Slotted bit	1.0 x 5.5 x 25	
0	Hex-Plus bit, 25mm long	3/32, 1/8, 5/32, 3/16, 1/4	
	Square bit, 25mm long	#1, (3) #2, #3	



05056491001

Wera Tool-Check PLUS Imperial standard socket and driver bit set with mini bit ratchet; 1/4in drive, and Kraftform screwdriver handle. Includes the pieces listed in the table below:

05056491001 Contents			
0	Zyklop Mini bit ratchet		
00	1/4 Rapidaptor bit holder	1/4 x 50	
• •	1/4 socket adaptor	1/4 x 25	
0	Phillips bit, 25mm long	(2) PH1, (3) PH2, PH3	
0	Torx® bit, 25mm long	TX10, TX15, TX20, TX25, TX30, TX40	
$\odot$	Tamperproof Torx® bit, 25mm long	TX10, TX15, TX20, TX25, TX30	
•	Slotted bit	1.0 x 5.5 x 25	
0	Hex-Plus bit, 25mm long	3/32, 1/8, 5/32, 3/16, 1/4	
۲	6-point socket	3/16, 1/4, 5/16, 11/32, 3/8, 7/16, 1/2	

Note: Fractional dimensions are in inches. Whole and decimal dimensions are in millimeters.

# Wera Zyklop Pocket Sets

#### Overview

Compact Zyklop ratchet with bit magazine for the pocket. Magnetic direct mounting for 1/4" bits and 3/8" sockets. Rapid tool change thanks to the non-locking mounting. As the head is lockable at 0°, 15° and 90°, the tool can be used as a ratchet and as a ratchet screwdriver. The fine toothing with 72 teeth allows for a low return angle of 5°. Wide range of applications thanks to 12 bits integrated in the handle. The robust ratchet mechanism allows for ample torque. Perfect combination of a Zyklop ratchet with a 12-piece screwdriver set. The 75 mm long universal holder for 1/4" bits can be used as an extension. Including sockets in the most common imperial or metric dimensions. One robust textile holster to be attached to the belt and docked onto the Wera 2go system.

#### **Features**

- Compact Zyklop ratchet with integrated bit magazine
- The magnetic direct mounting simultaneously turns the 3/8" ratchet into a bit ratchet screwdriver with 1/4" bit mounting
- Freely pivoting ratchet head with 5 predefined locking positions
- Fine tooth reversible ratchet (72 teeth) for a low return angle of only 5°
- Captive and freely swivelling bit magazine for easy removal and secure storage of the bits





	Zyklop Pocket Sets				
Part Number	Number Number of Pieces Image Set Includes			Price	
<u>05004281001</u>	18		<ul> <li>(1) Zyklop pocket ratchet with bit storage handle, (1) 1/4in universal bit holder extension, (12) 1in standard bits (Phillips: #1, #2, Poizidriv: #1, #2, torx: T10, T15, T20, T25, hex: 3mm, 4mm, 5mm, 6mm), (3) Zyklop 3/8in sockets (8mm, 10mm, 13mm), (1) Zyklop pocket holster</li> </ul>	\$141.00	
<u>05004283001</u>	18		(1) Zyklop pocket ratchet with bit storage handle, (1) 1/4in universal bit holder extension, (12) 1in standard bits (Phillips: #1, #2, torx: T10, T15, T20, T25, hex: 1/8in. 5/32in, 3/16in, 1/4in, square: #1, #2), (3) Zyklop 3/8in sockets (5/16in, 3/8in, 1/2in), (1) Zyklop pocket holster	\$141.00	



### **CH Ellis Tool Cases**

#### **Rolling Tool Case**



#### Features

- High Density Polyethylene, 25% thicker than standard cases
- Includes 40 inch locking telescoping handle, replaceable
- 3" diameter edgecaster wheels, replaceable
- Wide temperature range -40°F to +185°F
- Resists gasoline, chemicals and most solvents
- 8 external protective bumpers to protect hardware and contents
- Gasketed tongue-and-groove frame resists moisture and dirt
- 2 quarter-turn military style latches that resist lateral movement
- 2 padlock loops for optional TSA padlock
- 2 spring-loaded handles
- 2 mechanical lid stays to hold lid open, bult-in feet, full piano hinge
- Ribbing increases strength of plastic case
- Plenty of room in base for extra items such as meters, drills, soldering iron or spare parts boxes

Part Number	Description	<u>Weight</u> (Ibs)	Price
CH958586	High-impact plastic, 19.0 x 16.0 x 13.0 in., 50 compartments.	14	Retired

Specifications		
Parameter Description		
<b>Extermal Dims</b> 19.0 x 16.0 x 13.0 in.		
Intermal Dims 18.0 x 15.0 x 12.0 in.		
Color	Black	

#### Made in America





**Removable Tool Pallets** 

### C.H. Ellis CH Ellis Tool Cases

#### Hardcase Tool Carrying Case



Base Depth - 5.00" Lid Depth - 4.00"

#### **Features**

- High Density Polyethylene 25% thicker than standard cases
- Top and bottom removable pocket panels, 50 slot/pocket total
- Wide temperature range -40°F to+185°F
- Resists gasoline, chemicals and most solvents
- 8 external protective bumpers to protect hardware and contents
- · Gasketed tongue-and-groove frame resists moisture and dirt
- 2 quarter-turn military style, resist lateral movement
- 2 padlock loops for optional TSA padlock
- Spring-loaded handle
- Full length piano hinge
- 2 mechanical lid stays to hold lid open
- Built-in feet
- Ribbed case for increased durability
- Plenty of room in base for extra items such as meters, drills, soldering iron or spare parts boxes

Part Number	Description	<u>Weight</u> (Ibs)	Price
CH958583	High-impact plastic, 19.0 x 16.0 x 10.5 in., 50 compartments.	<u>11</u>	\$288.00

Specifications		
Parameter Description		
Extermal Dims	19.0 x 16.0 x 10.5 in.	
Intermal Dims	18.0 x 15.0 x 9.0 in.	
Color	Black	

#### Made in America





**Removable Tool Pallets** 

## C.H. Ellis CH Ellis Tool Cases

#### Attache' Tool Case



Base Depth - 3.50" Lid Depth - 2.50"

#### **Features**

- Hi impact plastic shell with molded in feet
- Resists gasoline, most chemicals and solvents.
- Temperature range: -40°F to +185°F
- Ribbed case provides additional strength
- Mill aluminum valance with tonge-and-groove frame, resists water and dirt intrusion
- Top and bottom panels (replaceable), 50 tool pockets total
- Full length piano hinge
- 2 mechanical lid stays to hold case open while working
- Comes with padded handle and two keyed chrome latches
- Case includes document pouch in lid

Part Number	Description	<u>Weight</u> (Ibs)	Price
CH958570	High-impact plastic, 18.0 x 13.5 x 6.5 in. 50 compartments.	6	\$227.00

	Specifications								
Parameter	Description								
Extermal Dims	18.0 x 13.5 x 6.5 in.								
Intermal Dims	17.5 x 12.5 x 6.0 in.								
Color	Black								

#### Made in America





**Removable Tool Pallets** 



## C.H. Ellis CH Ellis Tool Cases

#### **Mechanic's Tool Bag**





Side Pocket w/Snapping Flap

#### **Features**

- Black ballistic nylon bag
- 2 strap-style carry handles
- D-rings for optional shoulder strap
- 3 exterior pockets on each side, (a 5.88" middle pocket, bordered
- by 2" pockets; each 4.50" deep) with a 2-snap cover flap
- 4 interior pockets on each side (1.25" wide and 3.50" deep)
- · Roomy interior for tools, meters or spare parts
- Stores easily in desk, case, or drawer



**Interior Pockets** 

Part Number	r Description		Price
CH037071D	Mechanic Tool Bag, 12.0 x 6.0 x 6.0 in., made of nylon cloth with 14 tool compartments	6	\$41.00

Specifications								
Parameter	Description							
Extermal Dims	12.0 x 6.0 x 6.0 in.							
Intermal Dims	12.0 x 6.0 x 6.0 in.							
Color	Black							



#### **Electrician's Shoulder Pouch**



#### **Features**

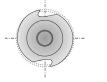
- Lightweight, durable bag that can be carried, slung over your shoulder or attached to a belt.
- · Constructed from 2400d ballistic weave for durability
- 11 inside and 5 outside pockets for a total of 16 tool storage pockets
- Side pocket with Flip LidTM Spill Guard provides secure easy access to small parts such as wire nuts or screws
- Electrical Tape Strap
- Adjustable Hammer/Flashlight Loop
- 3 different carrying options: Padded shoulder strap, Tunnel loop for belt access, or Padded carry handle
- Two rubber feet keep it stable when setting on a workbench or out on the factory floor.

Part Number	Description	Weight (lbs)	Price
BAGESP	Southwire tool bag, 2400 denier ballistic weave nylon, 16 compartments.	2	\$40.00



#### **Split Point Step Drills**

The spiral flutes of RUKO high-performance step drills are CBN-ground from the solid hardened form. Because CBN (cubical boron nitride) is a much harder abrasive than even silicon carbide or corundum, a better and sharper cutting edge is achieved without burrs. Because of this higher dimensional precision, the drills will last considerably longer while maintaining precise process tolerances. Drill bits are available in High Speed Steel, Cobalt 5 alloy High Speed Steel and Titanium Nitride-coated High Speed Steel. HSS-Co5 bits are the best choice for cutting stainless steels. The added titanium nitride coating increases the surface hardness to approximately 2300 HV and the heat resistance to 1100°F (600°C).

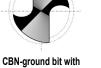




Radially adjusted relief produced by CBN grinding



**CBN-ground flute** 



split point DIN 1412C



Axial relief produced by CBN grinding



#### Features

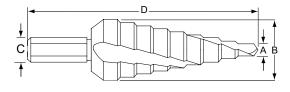
What makes these step drills special?

- CBN-ground flutes without burrs mean a superior cutting edge and longer tool life.
- · Each step has a radially adjusted relief produced by CBN grinding, relating directly to the diameter of the step, so the cutting edge is always the highest point of the diameter.
- Each step is axially CBN relief-ground, meaning the cutting edge is also the highest point of the axial cutting axis.
- The cutting edge of each step has relief angle, meaning the cutting edge is also the highest point in advance direction.
- The CBN-ground point ensures centering and spot-drilling, even in thin-walled material.
- Point Cut: split point DIN 1412 C
- Point angle: 118°
- Step angle: 90°
- Right-hand cutting



**CBN-ground relief angle** 

							Self-S	tart	ing Ste	ep D	rill Bits				
	Part # High Speed Steel	Pcs /Pk	Price	Part # Titanium Coated	Pcs /Pk	Price	Part # Cobalt 5	Pcs /Pk	Price	Drill Size	Steps	Min Drill Size A (in.)	Max Drill Size B (in.)	Shank Diameter C (in.)	Overall Length D (in.)
	<u>101701</u>	1	\$20.50	<u>101701T</u>	1	\$34.50	<u>101701E</u>	1	\$29.00	1	3/16" to 1/2" in 1/16" increments	3/16	1/2	1/4	3-1/8
	<u>101702</u>	1	\$24.00	<u>101702T</u>	1	\$37.50	<u>101702E</u>	1	\$33.50	2	1/8" to 1/2" in 1/32" increments	1/8	1/2	1/4	2-7/8
nal	<u>101703</u>	1	\$29.50	<u>101703T</u>	1	\$47.00	<u>101703E</u>	1	\$41.00	3	1/4" to 3/4" in 1/16" increments	1/4	3/4	3/8	2-7/8
action	<u>101704</u>	1	\$40.00	<u>101704T</u>	1	\$53.00	<u>101704E</u>	1	\$46.00	4	3/16" to 7/8" in 1/16" increments	3/16	7/8	3/8	3-1/4
Fra	<u>101705</u>	1	\$40.50	<u>101705T</u>	1	\$56.00	<u>101705E</u>	1	\$48.50	5	13/32", 9/16" to 1" in 1/16" increments	1/4	1	3/8	3-1/16
	<u>101706</u>	1	\$57.00	<u>101706T</u>	1	\$88.00	<u>101706E</u>	1	\$78.00	6	7/8", 1-1/8", 1-7/32", 1-1/4", 1-3/8"	1/4	1-3/8	3/8	3
	<u>101707</u>	1	Retired	<u>101707T</u>	1	Retired	<u>101707E</u>	1	Retired	7	3/8", 1/2"	3/16	1/2	1/4	1-7/8
	<u>101708</u>	1	\$35.50	<u>101708T</u>	1	\$49.50	not availab	ole	-	8	7/8"	11/64	7/8	3/8	2
	<u>101709</u>	1	\$46.00	<u>101709T</u>	1	\$73.00	<u>101709E</u>	1	\$63.00	9	7/8", 1-1/8"	1/4	1-1/8	3/8	2-7/16



Spiral flute step drill bit

## Tools – Black & Gold Jobber Length Drill Bits **Black & Gold Drills**

These high performance twist

drills are suitable for all normal

High Speed Steel bits with 5%

drilling in conventional materials.

Cobalt alloy (HSS-Co5) and a black oxide surface treatment on the

bevel decreases cutting forces and

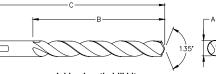
increases wear resistance of the bit.



#### **Application**

Use black & gold HSS-Co5 drills for:

- · Alloyed and unalloyed steel
- (up to strength of 1200 N/mm2)
- · Steel resistant to rust and acid
- Cast iron
- Aluminum
- · Aluminum alloys
- Copper
- Brass and bronze



Jobber length drill bit

#### **Features**

RUKO black & gold drills 5/32 and larger feature a 3-surface shank that helps align the bit in the chuck and eliminates bit spinning to provide ideal power transmission. A 135° cutting edge precisely aligns the bit and helps prevent drill bit walking. The black oxide surface treatment on the bevel increases wear resistance, preventing cold welding and edge build up and helps reduce current draw on the machine. The 40° helix angle enables fast chip removal and allows a high cutting speed with bit stability.

- Point Cut: from 1/16" dia. with split point DIN 1412 C
- Shank: 5/32 and larger, three-surface shank
- Point angle: 135°
- Helix angle: 40°
- Right hand cutting

		Jobber Le	ength Drill B	its - Fractio	nal Sizes		
Part # Black and Gold HSS-Co5	Pcs/ Pkg	Price	Drill Size (Gauge) (in.)	Ø Size (A) (in.)	Flute Length (B) (in.)	Overall Length (C) (in.)	For Tapping Use With
228801	10	Retired 1/16		0.0625	7/8	1-7/8	
228802	10	Retired	5/64	0.0781	1	2	
228803	10	Retired	3/32	0.0938	1 1/4	2-1/4	
228804	10	Retired	7/64	0.1094	1 1/2	2-5/8	
228805	10	Retired	1/8	0.1250	1-5/8	2-3/4	
228806	10	Retired	9/64	0.1406	1-3/4	2-7/8	
228807	10	Retired	5/32	0.1562	2	3-1/8	
228808	10	Retired	11/64	0.1719	2-1/8	3-1/4	
228809	10	Retired	3/16	0.1875	2-5/16	3-1/2	
228810	10	Retired	13/64	0.2031	2-7/16	3-5/8	
228811	10	Retired	7/32	0.2188	2-1/2	3-3/4	
228812	10	Retired	15/64	0.2344	2-5/8	3-7/8	
228813	10	Retired		4			
228813 228814 228815	10	Retired	17/64	0.2656	2-7/8	4-1/8	
228815	10	Retired	9/32	0.2813	2-15/16	4-1/4	
228816	10	Retired	19/64	0.2969	3-1/16	4-3/8	
228817	10	Retired	5/16	0.3125	3-3/16	4-1/2	265038UNC
228818	10	Retired	21/64	0.3281	3-5/16	4-5/8	
228819	10	Retired	11/32	0.3438	3-7/16	4-3/4	
228820	10	Retired	23/64	0.3594	3-1/2	4-7/8	
228821	10	Retired	3/8	0.3750	3-5/8	5	
228822	10	Retired	25/64	0.3906	3-3/4	5-1/8	
228823	10	Retired	13/32	0.4062	3-7/8	5-1/4	
228824	5 Retired	27/64	0.4219	3-15/16	5-3/8		
228825	5	Retired	7/16	0.4375	4-1/16	5-1/2	
228826	5	Retired	29/64	0.4531	4-3/16	5-5/8	
228827	5	Retired	15/32	0.4688	4-5/16	5-3/4	
228828	5	Retired	31/64	0.4844	4-3/8	5-7/8	
228829	5	Retired	1/2	0.5000	4-1/2	6	

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## **UKO** Tools – Jobber Length Drill Bits



#### **Application**

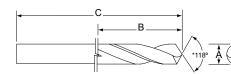
Use HSS, HSS-Co5 and HSS-TiN coated drills for:

- · Steel and stainless steel
- Alloyed and unalloyed cast iron (up to strength of 13,000 psi)
- Grey, malleable, ductile and die-cast iron
- Sintered iron, nickel silver, graphite
- Short chipping aluminum alloys
- Brass and bronze

#### **Jobber Length Drills**

These high performance twist drills are suitable for all normal drilling in conventional materials. Drill bits are available in High Speed Steel (HSS), High Speed Steel with 5% Colbalt alloy (HSS-Co5) and Titanium Nitride-coated High Speed Steel (HSS-TiN).

- Point Cut: 1/8" dia. with split point DIN 1412 C
- Point angle: 118° HSS & HSS-TiN / 135° HSS-Co5
- Helix angle: 20° to 30°
- Right hand cutting



Jobber length drill bit

#### **Features**

The HSS ground twist drill is made of heavyduty high-speed steel. The fully ground twist drill has a more precise concentricity. HSS-Co5 drills are ideally suited for materials that are especially difficult to drill such as stainlesss steel and for higher chip loading. HSS-TiN models add a titanium nitride coating to increase the surface hardness to approximately 2300 HV and the heat resistance to 1100°F (600°C). This also provides longer tool life with increased cutting speeds.

\*Point angle for HSS-Co5 bits is 135°

				Jo	bbe	r Leng	th Dril	l Bit	s - Fra	actiona	al Sizes			
	Part # High Speed Steel	Pcs /Pkg	Price	Part # Titanium Coated	Pcs/ Pkg	Price	Part # Cobalt 5	Pcs/ Pkg	Price	Drill Size (Gauge) (in.)	Ø Size (A) (in.)	Flute Length (B) (in.)	Overall Length (C) (in.)	For Tapping Use With
	<u>214801</u>	10	Retired				<u>215801</u>	10	Retired	1/16	0.0625	7/8	1-7/8	
	<u>214802</u>	10	\$5.50				<u>215802</u>	10	Retired	5/64	0.0781	1	2	
	<u>214803</u>	10	\$6.00				<u>215803</u>	10	Retired	3/32	0.0938	1 1/4	2-1/4	
	<u>214804</u>	10	\$6.75	<u>250804T</u>	10	Retired	<u>215804</u>	10	Retired	7/64	0.1094	1 1/2	2-5/8	
	<u>214805</u>	10	\$7.75				<u>215805</u>	10	Retired	1/8	0.1250	1-5/8	2-3/4	
	<u>214806</u>	10	\$8.25				<u>215806</u>	10	Retired	9/64	0.1406	1-3/4	2-7/8	
	<u>214807</u>	10	\$8.25	<u>250807T</u>	10	Retired	<u>215807</u>	10	Retired	5/32	0.1562	2	3-1/8	
	<u>214808</u>	10	\$9.00	<u>250808T</u>	10	Retired	<u>215808</u>	10	Retired	11/64	0.1719	2-1/8	3-1/4	
	<u>214809</u>	10	\$11.00	<u>250809T</u>	10	Retired	<u>215809</u>	10	Retired	3/16	0.1875	2-5/16	3-1/2	
	<u>214810</u>	10	\$12.00				<u>215810</u>	10	Retired	13/64	0.2031	2-7/16	3-5/8	
	<u>214811</u>	10	\$13.00	<u>250811T</u>	10	Retired	<u>215811</u>	10	Retired	7/32	0.2188	2-1/2	3-3/4	
-	<u>214812</u>	10	Retired	<u>250812T</u>	10	Retired	<u>215812</u>	10	Retired	15/64	0.2344	2-5/8	3-7/8	
Fractional	<u>214813</u>	10	\$14.00				<u>215813</u>	10	Retired	1/4	0.2500	2-3/4	4	
raci	<u>214814</u>	10	\$17.00	<u>250814T</u>	10	Retired	<u>215814</u>	10	Retired	17/64	0.2656	2-7/8	4-1/8	
<b>_</b>	<u>214815</u>	10	\$18.00	<u>250815T</u>	10	Retired	<u>215815</u>	10	Retired	9/32	0.2813	2-15/16	4-1/4	
	<u>214816</u>	10	Retired	<u>250816T</u>	10	Retired	<u>215816</u>	10	Retired	19/64	0.2969	3-1/16	4-3/8	
	<u>214817</u>	10	\$19.00	<u>250817T</u>	10	Retired	<u>215817</u>	10	Retired	5/16	0.3125	3-3/16	4-1/2	265038UNC
	<u>214818</u>	10	Retired				<u>215818</u>	10	Retired	21/64	0.3281	3-5/16	4-5/8	
	<u>214819</u>	10	\$26.00	<u>250819T</u>	10	Retired	<u>215819</u>	10	Retired	11/32	0.3438	3-7/16	4-3/4	
	<u>214820</u>	10	Retired	<u>250820T</u>	10	Retired	<u>215820</u>	10	Retired	23/64	0.3594	3-1/2	4-7/8	
	<u>214821</u>	10	\$31.00	<u>250821T</u>	10	Retired	<u>215821</u>	10	Retired	3/8	0.3750	3-5/8	5	
	<u>214822</u>	10	\$32.00	<u>250822T</u>	10	Retired	<u>215822</u>	10	Retired	25/64	0.3906	3-3/4	5-1/8	
	<u>214823</u>	10	Retired	<u>250823T</u>	10	Retired	<u>215823</u>	10	Retired	13/32	0.4062	3-7/8	5-1/4	
	<u>214824</u>	5	Retired	<u>250824T</u>	5	Retired	<u>215824</u>	5	Retired	27/64	0.4219	3-15/16	5-3/8	
	<u>214825</u>	5	\$21.50	<u>250825T</u>	5	Retired	<u>215825</u>	5	Retired	7/16	0.4375	4-1/16	5-1/2	
	<u>214826</u>	5	Retired	<u>250826T</u>	5	Retired	<u>215826</u>	5	Retired	29/64	0.4531	4-3/16	5-5/8	
	<u>214827</u>	5	Retired	<u>250827T</u>	5	Retired	<u>215827</u>	5	Retired	15/32	0.4688	4-5/16	5-3/4	
	<u>214828</u>	5	Retired	<u>250828T</u>	5	Retired	<u>215828</u>	5	Retired	31/64	0.4844	4-3/8	5-7/8	
	<u>214829</u>	5	\$27.00	<u>250829T</u>	5	Retired	<u>215829</u>	5	Retired	1/2	0.5000	4-1/2	6	

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								<u>214816</u>
			Jobb	er Length	Drill Bits -	Number and	Letter Sizes	
	Part # High Speed Steel	Pcs/ Pkg	Price	Drill Size (Gauge)	Ø Size A (in. dec.)	Flute Length B (in.)	Overall Length C (in.)	For Tapping Use With
	<u>2149003</u>	10	Retired	3	0.2130	2-1/4	3-3/4	<u>265014UNF</u>
	<u>2149007</u>	10	\$12.00	7	0.2010	2	3-3/8	<u>265014UNC</u>
	<u>2149014</u>	10	Retired	14	0.1820	1-11/16	3-1/8	<u>265120UNF</u>
	<u>2149016</u>	10	Retired	16	0.1770	1-7/8	3-1/8	265120UNC
5	<u>2149021</u>	10	\$9.00	21	0.1590	1-5/8	2-15/16	<u>265100UNF</u>
Number	<u>2149025</u>	10	\$8.25	25	0.1495	1-5/8	2-15/16	265100UNC
Z	<u>2149029</u>	10	\$7.75	29	0.1360	1-9/16	2-7/8	265080UNC, 265080UNF
	<u>2149033</u>	10	Retired	33	0.1130	1-5/16	2-3/8	265060UNF
	<u>2149036</u>	10	\$8.25	36	0.1065	1-1/4	2-3/8	265060UNC
	<u>2149037</u>	10	Retired	37	0.1040	1-1/4	2-1/4	265050UNF
	2149038	10	Retired	38	0.1015	1-1/4	2-1/4	265050UNC
	2149042	10	Retired	42	0.0935	1-1/4	2-1/4	265040UNF
	<u>2149043</u>	10	Retired	43	0.0890	1-1/16	2-1/16	265040UNC
	214900F	10	\$14.50	F	0.2570	2-3/8	4	265516UNC
ter	<u>2149001</u>	10	Retired	I	0.2720	2-3/4	4-1/4	265516UNF
Letter	214900Q	10	Retired	Q	0.3320	3	4-5/8	265038UNF
	214900R	10	\$39.00	R	0.3390	3-7/16	4-3/4	<u>231018NPT</u>

			Ja	bber Leng	gth Drill	Bits - M	etric Sizes		
	Part # High Speed Steel	Pcs/Pkg	Price	Part # Cobalt 5	Pcs/Pkg	Price	Drill Size A (mm)	Flute Length B (mm)	Overall Length C (mm)
	<u>214010</u>	10	Retired	<u>215010</u>	10	Retired	1.0	12.0	34.0
	<u>214015</u>	10	Retired	<u>215015</u>	10	\$13.50	1.5	18.0	40.0
	<u>214020</u>	10	Retired	<u>215020</u>	10	Retired	2.0	24.0	49.0
	<u>214025</u>	10	Retired	<u>215025</u>	10	Retired	2.5	30.0	57.0
	<u>214030</u>	10	Retired	<u>215030</u>	10	Retired	3.0	33.0	61.0
	<u>214033</u>	10	Retired	<u>215033</u>	10	Retired	3.3	36.0	65.0
Metric	<u>214035</u>	10	Retired	<u>215035</u>	10	Retired	3.5	39.0	70.0
Mei	<u>214040</u>	10	Retired	<u>215040</u>	10	Retired	4.0	43.0	75.0
	<u>214042</u>	10	Retired	<u>215042</u>	10	Retired	4.2	43.0	75.0
	<u>214045</u>	10	Retired	<u>215045</u>	10	Retired	4.5	47.0	80.0
	<u>214050</u>	10	Retired	<u>215050</u>	10	Retired	5.0	52.0	86.0
	<u>214055</u>	10	Retired	<u>215055</u>	10	Retired	5.5	57.0	93.0
	<u>214060</u>	10	Retired	<u>215060</u>	10	Retired	6.0	57.0	93.0
	<u>214065</u>	10	Retired	<u>215065</u>	10	Retired	6.5	63.0	101.0
	<u>214068</u>	10	Retired	<u>215068</u>	10	Retired	6.8	69.0	109.0
	<u>214070</u>	10	Retired	<u>215070</u>	10	Retired	7.0	69.0	109.0

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			Jobber	Length Dri	ll Bits -	<b>Metric</b>	Sizes Contini	led	
	Part # High Speed Steel	Pcs/Pkg	Price	Part # Cobalt 5	Pcs/Pkg	Price	Drill Size A (mm)	Flute Length B (mm)	Overall Length C (mm)
	<u>214075</u>	10	Retired	<u>215075</u>	10	Retired	7.5	69.0	109.0
	<u>214080</u>	10	Retired	<u>215080</u>	10	Retired	8.0	75.0	117.0
	<u>214085</u>	10	Retired	<u>215085</u>	10	Retired	8.5	75.0	117.0
	<u>214090</u>	10	Retired	<u>215090</u>	10	Retired	9.0	81.0	125.0
	<u>214095</u>	10	Retired	<u>215095</u>	10	Retired	9.5	81.0	125.0
Metric	<u>214100</u>	10	Retired	<u>215100</u>	10	Retired	10.0	87.0	133.0
2	<u>214102</u>	10	Retired	<u>215102</u>	10	Retired	10.2	87.0	133.0
	<u>214105</u>	5	Retired	<u>215105</u>	5	Retired	10.5	87.0	133.0
	<u>214110</u>	5	Retired	<u>215110</u>	5	Retired	11.0	94.0	142.0
	<u>214115</u>	5	Retired	<u>215115</u>	5	\$62.00	11.5	94.0	142.0
	<u>214120</u>	5	Retired	<u>215120</u>	5	\$64.00	12.0	101.0	151.0
	214125	5	Retired	<u>215125</u>	5	\$71.00	12.5	101.0	151.0
	<u>214130</u>	5	Retired	<u>215130</u>	5	\$73.00	13.0	101.0	151.0

### 1-800-633-0405 **RUKO** Tools – Drill Bit Sets



214214RO

		Drill Bit Sets
Part #	Price	Description
<u>101026USRO</u>	\$76.00	Three-piece Step Drill Bit Set High Speed Steel, bright finish, spiral fluted with split point. Drill size 1: 6 steps from 3/16" to 1/2" with 1/16" increments. Shank size 1/4" Drill size 2: 13 steps from 1/8 to 1/2" with 1/32" increments. Shank size 1/4" Drill size 3: 9 steps from 1/4" to 3/4" with 1/16" increments. Shank size 3/8"
<u>101026USERO</u>	\$109.00	Three-piece Step Drill Bit Set HSS-Co5 spiral fluted with split point. Drill size 1: 6 steps from 3/16" to 1/2" with 1/16" increments. Shank size 1/4" Drill size 2: 13 steps from 1/8 to 1/2" with 1/32" increments. Shank size 1/4" Drill size 3: 9 steps from 1/4" to 3/4" with 1/16" increments. Shank size 3/8"
<u>101026USTRO</u>	\$120.00	Three-piece Step Drill Bit Set HSS-TiN coated spiral fluted with split point. Drill size 1: 6 steps from 3/16" to 1/2" with 1/16" increments. Shank size 1/4" Drill size 2: 13 steps from 1/8 to 1/2" with 1/32" increments. Shank size 1/4" Drill size 3: 9 steps from 1/4" to 3/4" with 1/16" increments. Shank size 3/8"
<u>214215RO</u>	Retired	25-piece jobber Length Drill Set Metric sizes 1.0 to 13.0 mm in increments of 0.5 mm High-speed steel, 118 degrees point
<u>214850RO</u>	\$40.50	21-piece jobber Length Drill Set Fractional sizes 1/16" to 3/8" in increments of 1/64" High-speed steel, 118 degrees point
<u>214851RO</u>	\$66.00	29-piece jobber Length Drill Set Fractional sizes 1/16" to 1/2" in increments of 1/64" High-speed steel, 118 degrees point.



#### **Machine Taps**

Choose from nine sizes in coarse or fine thread machine taps.

- High-speed steel cobalt-alloyed (HSS-Co5)
- Spiral point
- Chamfer type B, 4-5 threads with progressive tip
- Reinforced shank for through threads



	High-Speed Steel Machine Taps														
	Part #	Pcs/ Pkg	Price	Thread Size	Use With		Part #	Pcs/ Pkg	Price	Thread Size	Use With				
5	265040UNC	1	\$11.00	4-40	<u>2149043</u>		265040UNF	1	Retired	4-48	<u>2149042</u>				
Thread	265050UNC	1	Retired	5-40	2149038	ead	265050UNF	1	Retired	5-44	<u>2149037</u>				
പ	265060UNC	1	\$9.00	6-32	2149036	Thread	265060UNF	1	Retired	6-40	<u>2149033</u>				
oars	265080UNC	1	\$9.00	8-32	<u>2149029</u>	Fine	265080UNF	1	Retired	8-36	<u>2149029</u>				
CO I	265100UNC	1	\$9.00	10-24	2149025		265100UNF	1	\$9.00	10-32	<u>2149021</u>				
Unified	265120UNC	1	\$9.25	12-24	<u>2149016</u>	Unified	265120UNF	1	Retired	12-28	<u>2149014</u>				
5	265014UNC	1	\$10.00	1/4-20	2149007	] ]	265014UNF	1	\$11.00	1/4-28	2149003				
	265516UNC	1	\$11.50	5/16-18	214900F		265516UNF	1	Retired	5/16-24	<u>2149001</u>				
	265038UNC	1	\$13.00	3/8-16	<u>214817, 250817T</u>		265038UNF	1	Retired	3/8-24	<u>214900Q</u>				

		Dril	and Tap S	election Guide	
Machine Screw Size	Tap Drill Size	Drill P/N	Tap P/N	Clearance Hole (in.)	Clearance Drill P/N
#4-40	#43	<u>2149043</u>	265040UNC	0.125	<u>214805, 250805T, 215805</u>
#4-48	#42	<u>2149042</u>	265040UNF	0.125	<u>214805, 250805T, 215805</u>
#5-40	#38	<u>2149038</u>	265050UNC	0.136	<u>2149029</u>
#5-44	#37	<u>2149037</u>	265050UNF	0.136	<u>2149029</u>
#6-32	#36	<u>2149036</u>	265060UNC	0.149	<u>2149025</u>
#6-40	#33	<u>2149033</u>	265060UNF	0.149	<u>2149025</u>
#8-32	#29	<u>2149029</u>	265080UNC	0.187	<u>214809, 250809T, 215809</u>
#8-36	#29	<u>2149029</u>	265080UNF	0.187	<u>214809, 250809T, 215809</u>
#10-24	#25	<u>2149025</u>	265100UNC	0.219	<u>214811, 250811T, 215811</u>
#10-32	#21	<u>2149021</u>	265100UNF	0.219	<u>214811, 250811T, 215811</u>
#12-24	#16	<u>2149016</u>	265120UNC	0.234	<u>214812, 250812T, 215812</u>
#12-28	#14	<u>2149014</u>	265120UNF	0.234	<u>214812, 250812T, 215812</u>
1/4-20	#7	<u>2149007</u>	265014UNC	0.281	<u>214815, 250815T, 215815</u>
1/4-28	#3	<u>2149003</u>	265014UNF	0.281	<u>214815, 250815T, 215815</u>
5/16-18	LTR F	214900F	265516UNC	0.344	<u>214819, 250819T, 215819</u>
5/16-24	LTR I	<u>2149001</u>	265516UNF	0.344	<u>214819, 250819T, 215819</u>
3/8-16	5/16	<u>214817,</u> 250817T	<u>265038UNC</u>	0.406	<u>214823, 250823T,</u> <u>215823215823</u>
3/8-24	LTR Q	<u>214900Q</u>	265038UNF	0.406	<u>214823, 250823T, 215823</u>



#### Fractional and Metric Thread Hand

#### Taps

High-speed steel fractional and metric size hand taps.



	High-Speed Steel Fractional Size Hand Taps												
ead	Part #	Pcs/ Pkg	Price	Thread Size	Overall Length (in.)	Use With	5	Part #	Pcs/ Pkg	Price	Thread Size	Overall Length (in.)	Use With
Thre	246080UNC3	1	\$10.50	8-32 UNC	1.77	<u>2149029</u>	hrea	246100UNF2	1	\$10.50	10-32 UNF	1.77	<u>2149021</u>
se	246100UNC3	1	\$10.50	10-24 UNC	1.97	<u>2149025</u>	e 11						
Coal	246014UNC3	1	\$6.25	1/4-20 UNC	1.97	<u>2149007</u>	E	246516UNF2	1	Retired	5/16-24 UNF	2.20	<u>2149001</u>
	246516UNC3	1	\$6.25	5/16-18 UNC	2.20	<u>214900F</u>							

	High-Speed Steel Metric Hand Taps												
	Part #	Pcs/ Pkg	Price	Thread Size	Overall Length (mm)	Use With		Part #	Pcs/ Pkg	Price	Thread Size	Overall Length (mm)	Use With
	<u>231030</u>	1	\$4.25	M3x0.5	40.0	<u>214025, 215025</u>		235041-2	1	\$8.50	M4x0.5	45.0	<u>214035, 215035</u>
'ead	<u>231040</u>	1	\$4.25	M4x0.7	45.0	<u>214033, 215033</u>	pe	235050-2	1	\$9.00	M5x0.5	50.0	<u>214045, 215045</u>
Thr	<u>231050</u>	1	\$4.25	M5x0.8	50.0	<u>214042, 215042</u>	Threa	235081-2	1	\$11.00	M8x1	56.0	<u>214070, 215070</u>
rse	<u>231060</u>	1	\$4.50	M6X1	50.0	<u>214050, 215050</u>	Fine T	235122-2	1	\$12.00	M12x1	70.0	<u>214110, 215110</u>
Соа	<u>231080</u>	1	\$5.00	M8x1.25	56.0	<u>214068, 215068</u>	Fii	<u>235181-2</u>	1	\$23.50	M18x1	80.0	17.0 mm
	231100	1	\$7.00	M10x1.5	70.0	<u>214085, 215085</u>		235301-2	1	\$48.50	M30x1.5	90.0	28.5 mm
	<u>231120</u>	1	\$8.50	M12x1.75	75.0	<u>214102, 215102</u>							

#### NPT Thread Hand Taps

High-speed steel National Pipe Taper hand taps.

	High-Speed Steel NPT Hand Taps								
Part #	Pcs/Pkg	Price	Thread Size	Overall Length (in.)	Use With				
<u>231116NPT</u>	1	\$16.00	1/16-27 NPT	2.56	<u>214813, 250813T, 215813</u>				
<u>231018NPT</u>	1	\$14.50	1/8-27 NPT	2.56	<u>214900R</u>				
<u>231014NPT</u>	1	\$15.50	1/4-18 NPT	2.76	<u>214825, 250825T, 215825</u>				
<u>231038NPT</u>	1	\$22.00	3/8-18 NPT	2.95	37/64"				
<u>231012NPT</u>	1	\$27.00	1/2-14 NPT	3.15	23/32"				



#### **Conduit Thread Hand Taps**

High-speed steel DIN 40430 conduit thread hand taps.

H	High-Speed Steel Conduit Thread Hand Taps								
Part #	Pcs/Pkg	Price	Thread Size	Overall Length (mm)	Use With				
<u>264009</u>	1	\$21.50	PG-9	70.0	14.0 mm				
264011	1	\$29.50	PG-11	80.0	17.25 mm				
264016	1	\$42.00	PG-16	80.0	21.25 mm				
264021	1	\$63.00	PG-21	90.0	26.75 mm				
<u>264029</u>	1	\$97.00	PG-29	100.0	35.5 mm				



**RUKO** Tools – Hand Taps



1-800-633-0405

245004RO

	Drill and Hand Tap Sets						
Part #	Price	Description					
<u>245004RO</u>	\$78.00	RUKO hand tap set, high-speed steel (HSS), 15-piece set includes: (7) metric size taps (M3, M4, M5, M6, M8, M10, M12), (7) jobber length drill bits (one for each tap), (1) tap wrench with two-jaw chuck. Includes heavy-duty plastic case.					
<u>245004USRO</u>	\$93.00	RUKO hand tap set, high-speed steel (HSS), 15-piece set includes: (7) SAE taps (8-32 UNC, 10-24 UNC, 10-32 UNF, 1/4-20 UNC, 1/4-28 UNF, 5/16-18 UNC, 5/16-24 UNF), (7) jobber length drill bits (one for each tap), (1) tap wrench with two-jaw chuck. Includes heavy-duty plastic case.					



#### Hand Tap Wrenches



	Hand Tap Wrenches									
Part #	Pcs/ Pkg	Price	Description	Construction Material	Use With					
<u>241010</u>	1	\$26.00	Sliding T-handle ratcheting tap wrench	Chrome plated steel	M3 to M10, 1/8" to 3/8" taps					
<u>241020</u>	1	\$29.50	Sliding T-handle ratcheting tap wrench	Chrome plated steel	M5 to M12, 7/32" to 1/2" taps					
<u>241103</u>	1	Retired	Two-jaw chuck tap wrench	Die cast zinc housing, steel handles, hardened chuck jaws	M5 to M20, 1/4" to 3/4" taps					
<u>241112</u>	1	\$7.50	Two-jaw chuck tap wrench	Die cast zinc housing, steel handles, hardened chuck jaws	M1 to M12, 1/8" to 1/2" taps					



RUKO countersinks are CBN ground from fully hardened, High-Speed Steel (HSS) blanks. Since CBN (cubic crystalline boron nitride) is a much harder abrasive than either silicon carbide or corumdum, CBN grinding of the fully hardened material creates a sharper and more durable cutting edge with precise tolerances.

Radially-adjusted relief grinding ensures that the cutting edge is always the highest point. Combined with the axial relief grinding, this guarantees a smooth, lowheat, chatter-free cut up to 30% faster than competing countersink bits. This tough tool is suitable for all standard industrial materials: steel, cast iron, stainless steel, non-ferrous metal, thermoplastics, and duroplastics. Best results are achieved at low cutting speeds. Use of cutting oil or paste will provide longer tool life and superior quality work.

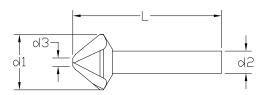
Available in both  $82^{\circ}$  taper for UNC and UNF fasteners and DIN 335 Type C  $90^{\circ}$  taper for metric fasteners.

RUKO	RUKO Countersink Bits - Metric with 3-Flat Shank - 90° Taper							
Part #	Price	Countersink Diameter (d1)	Nose Diameter (d3)	Total Length (L)	Shank Diameter (d2)			
<u>102714</u>	Retired	10.4 mm [0.41 in]	2.5 mm [0.10 in]	50.0 mm [1.97 in]	6.0 mm [0.24 in]			
<u>102723</u>	Retired	25.0 mm [0.98 in]	3.8 mm [0.15 in]	67.0 mm [2.64 in]	10.0 mm [0.39 in]			
<u>102153</u>	Retired	5-piece, 90° Cou	5-piece, 90° Countersink set - Includes: 102714, 102716, 102721, 102723					

RUKO C	RUKO Countersink Bits - Inch with Round Shank - 82° Taper								
Part #	Price	Countersink Diameter (d1)	Nose Diameter (d3)	Total Length (L)	Shank Diameter (d2)				
<u>102182</u>	Retired	1/4 in [6.4 mm]	3/64 in [1.2 mm]	1.77 in [45 mm]	0.2 in [5 mm]				
<u>102183</u>	Retired	5/16 in [7.9 mm]	1/16 in [1.6 mm]	1.97 in [50 mm]	0.24 in [6 mm]				
<u>102184</u>	Retired	3/8 in [9.5 mm]	5/64 in [2 mm]	1.97 in [50 mm]	0.24 in [6 mm]				
<u>102188</u>	Retired	5/8 in [15.9 mm]	7/64 in [2.8 mm]	2.36 in [60 mm]	0.39 in [10 mm]				
<u>102189</u>	Retired	3/4 in [19.1 mm]	1/8 in [3.2 mm]	2.48 in [63 mm]	0.39 in [10 mm]				
<u>102190</u>	Retired	7/8 in [22.2 mm]	9/64 in [4.3 mm]	2.64 in [67 mm]	0.39 in [10 mm]				
<u>102191</u>	Retired	1 in [25.4 mm]	9/64 in [4.3 mm]	2.99 in [76 mm]	0.39 in [10 mm]				



<u>102153</u>





#### **Knockout Punches**

RUKO's knockout punch hole-cutting tool includes punch, die and draw bolt (without ball bearing). Use for sheet steel, stainless-steel sheets, non-ferrous and light metals, and plastics. Replacement bolts are offered in three of the most popular sizes.

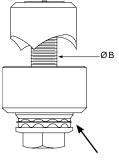
#### **Features**

- Cuts holes in thin materials quickly, easily, cleanly and without burrs.
- 3-point cut ensures less deformation of the punched parts, preventing damage to the draw-in bolt.
- The optional ball bearing between draw-in bolt and die plate makes handling simpler and quicker, reducing the force required by approx. 67% (replacement bolt part numbers, <u>103110K</u>, <u>103112K</u>, and <u>103116K</u>).
- The metric draw-in bolts are of the highest quality and are designed for extreme loads. If lost, they can be replaced for short periods of time by standard metric fine threaded bolts.



<u>109220</u>

				Knockout Pur	iches		
Part #	Pcs/Pkg	Price	Description	Actual Hole Size (Ø A)	Draw Bolt Size (Ø B)	Trade Hole Size	Works With
<u>109220</u>	1	\$28.50		22 mm	M10	22 mm	<u>101703, 103110K</u>
<u>109225</u>	1	\$27.00		22.5 mm	M10	22.5 mm	<u>101703, 103110K</u>
<u>109300</u>	1	\$37.00		30 mm	M12	30 mm	<u>101703, 103112K</u>
<u>109305</u>	1	\$34.50		30.5 mm	M12	30.5 mm	<u>101703, 103112K</u>
<u>1097012</u>	1	\$28.50		0.875 inch	M10	1/2 inch	<u>101703, 103110K</u> <u>RPS-16G, RPS-16K,</u> CUR-16G, CUR-16K
<u>1097034</u>	1	\$31.50	Knockout punch hole-cutting	1.115 inch	M12	3/4 inch	<u>101703, 103112K</u> <u>RPS-20G, RPS-20K,</u> CUR-20G, CUR-20K
<u>1097010</u>	1	\$39.00	tool	1.362 inch	M12	1 inch	<u>101703, 103112K,</u> <u>RPS-25G, RPS-25K,</u> CUR-25G, CUR-25K
<u>1097114</u>	1	\$46.00		1.6875 inch	M16	1-1/4 inch	<u>101703, 103116K,</u> <u>RPS-32G,RPS-32K,</u> CUR-32G, CUR-32K
<u>1097112</u>	1	\$56.00		1.9375 inch	M16	1-1/2 inch	<u>101703, 103116K</u>
<u>1097020</u>	1	\$59.00		2.375 inch	M16	2 inch	<u>101703, 103116K</u>
			Rep	lacement Dr	aw Bo <u>lts</u>	<u> </u>	
<u>103110K</u>	1	\$23.00		nent bolt with ball-bear		22 mm, 22.5 mm 1/2 inch	<u>109220, 109225, 1097012</u>
<u>103112K</u>	1	\$25.00	M12 replacer	nent bolt with ball-bear	ing bushing	30 mm, 30.5 mm 3/4 to 1 inch	<u>109300, 109305, 1097010 1097034</u>



ØA

Ball bearing only available with replacement draw bolts P/N 103110K, 103112K

Note: Part number <u>109225</u> is recommended when punching holes for 22mm pilot devices. Part number <u>109305</u> is recommended when punching holes for 30mm pilot devices

	Hole Punch Recommendations						
Draw-In Bolt	Sheet Steel	Pilot Hole Ø	Stainless Steel Sheets	Non-Ferrous/Light Metals	Plastics		
M8 x 1.0 mm	14 Ga, 2 mm	7/16"	18 Ga, 1 mm	8 Ga, 4 mm	8 Ga, 4 mm		
M10 x 1.0 mm	14 Ga, 2 mm	9/16"	18 Ga, 1 mm	8 Ga, 4 mm	8 Ga, 4 mm		
M12 x 1.5 mm	11 Ga, 3 mm	19/32"	14 Ga, 2 mm	8 Ga, 4 mm	8 Ga, 4 mm		
M16 x 1.5 mm	11 Ga, 3 mm	3/4"	14 Ga, 2 mm	8 Ga, 4 mm	8 Ga, 4 mm		



#### Hydraulic Knockout Punch Kit

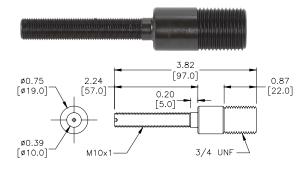
RUKO's squeeze activated hydraulic knockout punch kit allows a user to quickly and precisely punch clean holes in sheet metal and plastic up to 5/32 inch thick. For use with RUKO knockout punches, sold separately.

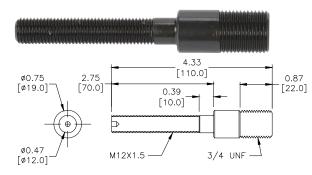
#### **Features**

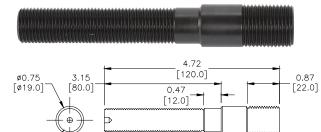
- Compact design
- Manually actuated pistol grip
- 50kN (11,000 lbf) of punching force
- Use with RUKO knockout punches, sold separately.



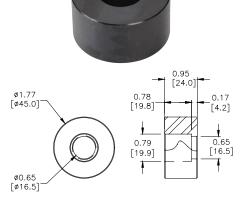
	RUKO Hydraulic Knockout Punch Kit							
Part #	Price	Description						
<u>109101</u>	\$1,028.00	RUKO compact hydraulic punch, manual, pistol-grip, 50kN (11,000 lbf). Distance sleeve, adapter bolts and heavy-duty plastic case included.						
	Spare Parts							
109000	Retired	RUKO distance sleeve, replacement. For use with 109101.						
<u>109110</u>	Retired	RUKO adapter bolt, replacement, MF 10 x 1.0 x 52, 3/4 UNF. For use with punches having MF 10 x 1.0 threads.						
<u>109112</u>	Retired	RUKO adapter bolt, replacement, MF 12 x 1.5 x 60, 3/4 UNF. For use with punches having MF 12 x 1.5 threads.						
<u>109116</u>	Retired	RUKO adapter bolt, replacement, MF 16 x 1.5 x 70, 3/4 UNF. For use with punches having MF 16 x 1.5 threads.						







3/4 UNF



M16X1.5

ø0.63

[ø16.0]

RUKO



#### Bi-Metal Hole Saws • Applications

Use High Speed Steel saws with varied cutting teeth for easily cut materials, such as unalloyed steel (up to 101,521 psi strength), non-ferrous and light metals, plastics, plasterboard and light building boards, fiberboard, plywood and wood.

Use High Speed Steel Cobalt 8 saws with fine cutting teeth for cutting metals such as alloyed and non-alloyed steels (up to 145,037 psi strength), high chromium alloyed steels, such as stainless steel, steels resistant to rusts and acids, non-ferrous and light metals.

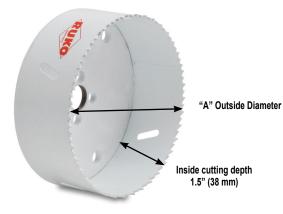
		<b>RUKO Ho</b>	le Sa	ws Sele	ection G	iuide		
Part # High Speed Steel	Price	Part # High Speed Steel Cobalt 8	Price	Diameter (mm) A	Diameter (inch) A	Conduit Size	Pipe Size (inch)	Arbor Holders
<u>106014</u>	Retired	<u>126014</u>	Retired	14	9/16	-	-	A1 / A5
<u>106016</u>	Retired	<u>126016</u>	Retired	16	5/8	-	-	A1 / A5
<u>106017</u>	Retired	not available		17	11/16	-	-	A1 / A5
<u>106019</u>	Retired	<u>126019</u>	Retired	19	3/4	-	3/8	A1 / A5
<u>106020</u>	Retired	not available		20	25/32	-	-	A1 / A5
<u>106021</u>	Retired	not available		21	13/16	-	-	A1 / A5
<u>106022</u>	Retired	<u>126022</u>	\$7.50	22	7/8	1/2	1/2	A1 / A5
<u>106024</u>	Retired	<u>126024</u>	Retired	24	15/16	-	-	A1 / A5
<u>106025</u>	Retired	<u>126025</u>	Retired	25	1	_	-	A1 / A5
<u>106027</u>	Retired	<u>126027</u>	Retired	27	1-1/16	_	-	A1 / A5
<u>106029</u>	Retired	<u>126029</u>	Retired	29	1-1/8	3/4	3/4	A1 / A5
<u>106030</u>	Retired	<u>126030</u>	Retired	30	1-3/16	-	-	A1 / A5
<u>106032</u>	Retired	<u>126032</u>	Retired	32	1-1/4	-	-	A2 / A6
<u>106033</u>	Retired	not available		33	1-5/16	-	-	A2 / A6
<u>106035</u>	Retired	<u>126035</u>	Retired	35	1-3/8	1	1	A2 / A6
<u>106036</u>	Retired	not available		36	1-13/32	-	-	A2 / A6
106037	Retired	not available		37	1-7/16	-	-	A2 / A6
<u>106038</u>	Retired	<u>126038</u>	Retired	38	1-1/2	-	-	A2 / A6
<u>106040</u>	Retired	not available		40	1 9/16	-	-	A2 / A6
<u>106041</u>	Retired	<u>126041</u>	Retired	41	1-5/8	-	-	A2 / A6
<u>106043</u>	Retired	<u>126043</u>	Retired	43	1-11/16	-	-	A2 / A6
<u>106044</u>	Retired	<u>126044</u>	Retired	44	1-3/4	1-1/4	1-1/4	A2 / A6
106046	Retired	<u>126046</u>	Retired	46	1-13/16	_	-	A2 / A6
<u>106048</u>	Retired	<u>126048</u>	Retired	48	1-7/8	_	-	A2 / A6
<u>106051</u>	Retired	<u>126051</u>	Retired	51	2	1-1/2	1-1/2	A2 / A6
106052	Retired	not available		52	2-1/16	-	-	A2 / A6
106054	Retired	126054	Retired	54	2-1/8	_	_	A2 / A6
106055	Retired	not available		55	2-11/64	_	_	A2 / A6
106057	Retired	<u>126057</u>	Retired	57	2-1/4	-	-	A2 / A6
106059	Retired	not available		59	2-5/16	-	-	A2 / A6

#### **Features**

- Cutting edges of HSS or HSS Co 8
- Alloyed steel 6135 jacket
- Cutting depth up to 1-1/2" (38 mm)
- High rotational precision
- Sturdy construction
- Hole saw and shank in two parts, so hole saws of different diameters can be exchanged and fitted faster
- Positive chipping and cutting angles ensure more aggressive cutting
- Teeth welded onto steel jacket
- HSS hole saws have 5 teeth per inch, Co 8 hole saws have 6 teeth per inch
- Good chip removal
- Slots in the jacket side aid in removal of cutouts
- Exchangeable centering drill
- Right-hand cutting
- Arbors are sold separately

# **RUKO** Tools – Hole Saws

#### Dimensions



#### **Important Operating Notes**

- These saws are unsuitable for hammer drill operation
- Only slight pressure required to start drilling
- Drill with light, steady pressure
- Avoid pendulum movements while drilling
- Follow table of cutting speeds
- · Use cooling agents recommended for material
- Arbors are sold separately

Note: For pushbuttons, use RUKO knockout punches listed in previous pages.

	RUK	O Hole Sav	vs Seleo	ction G	uide, co	ntinue	d	
Part # High Speed Steel	Price	Part # High Speed Steel Cobalt 8	Price	Diameter (mm) A	Diameter (inch) A	Conduit Size	Pipe Size (inch)	For Arbor Holders
<u>106060</u>	Retired	<u>126060</u>	Retired	60	2-3/8	_	_	A2 / A6
<u>106063</u>	Retired	not available		63	2-15/32	_	-	A2 / A6
<u>106064</u>	Retired	<u>126064</u>	Retired	64	2-1/2	2	2	A2 / A6
<u>106065</u>	Retired	not available		65	2-9/16	-	-	A2 / A6
<u>106067</u>	Retired	<u>126067</u>	Retired	67	2-5/8	-	-	A2 / A6
<u>106068</u>	Retired	not available		68	2-11/16	-	-	A2 / A6
<u>106070</u>	Retired	<u>126070</u>	Retired	70	2-3/4	-	-	A2 / A6
<u>106073</u>	Retired	<u>126073</u>	Retired	73	2-7/8	_	-	A2 / A6
<u>106076</u>	Retired	<u>126076</u>	Retired	76	3	2-1/2	2-1/2	A2 / A6
<u>106079</u>	Retired	<u>126079</u>	Retired	79	3-1/8	-	-	A2 / A6
<u>106083</u>	Retired	<u>126083</u>	Retired	83	3-1/4	-	-	A2 / A6
<u>106086</u>	Retired	<u>126086</u>	Retired	86	3-3/8	-	-	A2 / A6
106089	Retired	<u>126089</u>	Retired	89	3-1/2	-	-	A2 / A6
106092	Retired	<u>126092</u>	Retired	92	3-5/8	3	3	A2 / A6
106095	Retired	<u>126095</u>	Retired	95	3-3/4	_	-	A2 / A6
<u>106098</u>	Retired	<u>126098</u>	Retired	98	3-7/8	-	-	A2 / A6
106102	Retired	<u>126102</u>	Retired	102	4	-	-	A2 / A6
106105	Retired	not available		105	4-1/8	3-1/2	3-1/2	A2 / A6
106108	Retired	<u>126108</u>	Retired	108	4-1/4	-	-	A2 / A6
<u>106111</u>	Retired	<u>126111</u>	Retired	111	4-3/8	-	-	A2 / A6
106114	Retired	<u>126114</u>	Retired	114	4-1/2	4	4	A2 / A6
<u>106121</u>	Retired	<u>126121</u>	\$32.00	121	4-3/4	-	-	A2 / A6
<u>106127</u>	Retired	<u>126127</u>	Retired	127	5	-	-	A2 / A6
<u>106133</u>	Retired	not available		133	5-1/4	-	-	A2 / A6
106140	Retired	<u>126140</u>	Retired	140	5-1/2	-	5	A2 / A6
106152	Retired	<u>126152</u>	Retired	152	6	-	-	A2 / A6
106160	Retired	126160	Retired	160	6-5/16	-	-	A2 / A6
106168	Retired	<u>126168</u>	Retired	168	6-5/8	-	-	A2 / A6
<u>106177</u>	Retired	not available		177	6-31/32	-	-	A2 / A6
106200	Retired	<u>126200</u>	Retired	210	8-1/4	_	_	A2 / A6



#### Arbor Holders with Pilot Drill

To select the correct arbor size, find the arbors that are compatible with your hole saw diameter.

From those, choose one with a shank size that fits into your drill chuck.

Arbors include HSS pilot bit, ejector spring and 4 mm allen wrench.

	R	UKO Arb	or Holders v	vith Pilot D	rill for HSS	Hole Saw	S
	Part # High Speed Steel	Price	Hole Saws Diameter (inch)	Arbor Holders Type	Shank Diameter (inch) A	Shank Shape	Thread
Comments and	<u>106201</u>	\$7.50	9/16 - 1-3/16	A1	7/16	Hex	1/2in x 20 thread
	<u>106202</u>	\$14.00	1-1/4 - 8-1/4	A2	7/16	Hex	5/8in x 18 thread
Charles a	<u>106209</u>	\$14.00	1-1/4 - 8-1/4	A6	3/8	Hex	5/8in x 18 thread
Part Numbers <u>106202, 106209</u>	<u>106210</u>	\$10.00	9/16 - 1-3/16	A5	3/8	Hex	1/2in x 20 thread
ret	ractable collar		Part Numb	ers <u>106201, 10621</u>	0		
		A	Pilot drill: 6 35	mm (1/4") x 82 mr	n (3.1/4")		ÎÎ A
Pilot drill: 6.35 mm (1/4") x 82 mm (3-1/4")			F 1101 UI 111. 0.35	11111 (1/ <del>4</del> ) X 02 1111	ii (3-1/ <del>4</del> -)		

#### **Pilot Drills**



	RUKO Pilot Drill for HSS and HSS Co8 Hole Saws							
Part # High Speed Steel	Price	Part # High Speed Steel Cobalt 8	Price	Arbor Holders Type	Description			
<u>106206</u>	\$4.50	<u>126206</u>	\$8.25	A1, A2, A5, A6	Pilot drill HSS / HSS Co 5, ground, Ø 6.35 mm x 82 mm and split point in accordance with DIN 1412 C			

## **RUKO** Tools – Hole Saw Kits

Bi-Metal hole saw kits include either 6, 10 or 15 High-speed steel or Colbalt 8 hole saws of various sizes in a plastic case.



RUKO Bi-Metal Hole Saw Kits								
Part # HSS Varied Tooth	Price	Part # HSS-Co8 Fine Tooth	Price	Туре	Hole Saw Diameters Included inches (mm)	Arbors Included	Pcs / Pkg	
<u>106302</u>	\$90.00	<u>126302</u>	\$92.00	Electricians	7/8, 1-1/8, 1-3/8, 1-3/4, 2, 2-11/16 (22.0, 29.0, 35.0, 44.0, 51.0, 68.0)	A2, A4	8	
<u>106304</u>	Retired	<u>126304</u>	\$137.00	Super	7/8, 1, 1-1/4, 1-3/8, 1-5/8, 1-3/4, 2, 2-1/8, 2-3/8, 2-1/2 (22.0, 25.0, 32.0, 35.0, 41.0 44.0, 51.0, 54.0, 60.0, 64.0)	A2, A4	12	
<u>106318</u>	Retired	<u>126318</u> *	\$277.00	Premium	5/8, 3/4, 13/16, 15/16, 1, 1-1/8, 1-1/4, 1-7/16, 1-9/16, 1-7/8, 2, 2-1/8, 2-3/8, 2-7/8, 3-1/4 (16.0, 19.0, 21.0, 24.0, 25.0, 29.0, 32.0, 37.0, 40.0, 48.0, 51.0, 54.0, 60.0, 73.0, 83.0)	A1, A2	19	

\*Includes 1/4" pilot drill and 11.81 inch long extension

# Tools – Hole Saws Recommended Cutting Speeds

			<b>RUKO</b> Hol	e Saws Re	ecommend	ed Cutting	Speeds		
Mater	High carbon Structural steel up to 101,521 psi		Alloyed steel up to 145,037 psi	Cast iron over 36,259 psi	CuZn alloy	Aluminium alloy up to 11% Silicon	Thermo-plastics	Duro-plastics	Wood
Vc = m/	/min	30	20	10	35	30	20	15	40
Coola	int	Cutting spray	Cutting spray	Compressed air	Compressed air	Cutting spray	Water	Compressed air	Compressed air
Ø inch	Ømm	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.
9/16	14	682	455	227	796	682	455	341	910
5/8	16	597	398	199	697	597	398	299	796
11/16	17	562	375	187	656	562	375	281	749
3/4	19	503	335	168	587	503	335	251	670
25/32	20	477	318	159	557	477	318	239	637
13/16	21	455	303	152	531	455	303	227	607
7/8	22	434	290	145	507	434	290	217	579
15/16	24	398	265	133	464	398	265	199	531
1	25	382	255	127	446	382	255	191	510
1-1/16	27	354	236	118	413	354	236	177	472
1-1/8	29	329	220	110	384	329	220	165	439
1-3/16	30	318	212	106	372	318	212	159	425
1-1/4	32	299	199	100	348	299	199	149	398
1-5/16	33	290	193	97	338	290	193	145	386
1-3/8	35	273	182	91	318	273	182	136	364
1-13/32	36	265	177	88	310	265	177	133	354
1-7/16	37	258	172	86	301	258	172	129	344
1-1/2	38	251	168	84	293	251	168	126	335
1-9/16	40	239	159	80	279	239	159	119	318
1-5/8	41	233	155	78	272	233	155	117	311
1-11/16	43	200	148	76	259	200	148	111	296
1-3/4	44	217	145	72	253	217	145	109	290
1-13/16	46	208	138	69	233	208	138	103	230
1-13/10	48	199	133	66	242	199	133	104	265
2	51	199	125	62	232	199	135	94	203
2-1/16	52	184	123	61	219	184	123	94	230
2-1/10	52	177	122	59	206	104	122	88	245
2-1/6	55	174	116	58	200	177	116	87	230
2-11/04	55	174	110	56	196	174	110	84	231
2-1/4	57	168	108	50	196	168	112	84	223
2-5/16	60		108	54	189	-	108	81	216
		159				159			
2-15/32 2-1/2	63	152 149	101	51	177 174	152 149	101	76	202
	64			50			100	75	
2-9/16	65	147	98	49	171	147	98	73	196
2-5/8	67	143	95	48	166	143	95	71	190
2-11/16	68	141	94	47	164	141	94	70	187
2-3/4	70	136	91	45	159	136	91	68	182
2-7/8	73	131	87	44	153	131	87	65	175
3	76	126	84	42	147	126	84	63	168
3-1/8	79	121	81	40	141	121	81	60	161
3-1/4	83	115	77	38	134	115	77	58	153
3-3/8	86	111	74	37	130	111	74	56	148
3-1/2	89	107	72	36	125	107	72	54	143

## Tools – Hole Saws – Recommended Cutting Speeds, continued

		RUK	O Hole Saw	is Recomn	nended Cu	tting Spe	eds, continu	ied	
Mater	rial	High carbon structural steel up to 101,521 psi	Alloyed steel up to 145,037 psi	Cast iron over 36,259 psi	CuZn alloy	Aluminium alloy up to 11% Silicon	Thermo-plastics	Duro-plastics	Wood
Vc = m	/min	30	20	10	35	30	20	15	40
Coola	ant	Cutting spray	Cutting spray	Compressed air	Compressed air	Cutting spray	Water	Compressed air	Compressed air
Ø inch	Ømm	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.
3-5/8	92	104	69	35	121	104	69	52	138
3-3/4	95	101	67	34	117	101	67	50	134
3-7/8	98	97	65	32	114	97	65	49	130
4	102	94	62	31	109	94	62	47	125
4-1/8	105	91	61	30	106	91	61	45	121
4-1/4	108	88	59	29	103	88	59	44	118
4-3/8	111	86	57	29	100	86	57	43	115
4-1/2	114	84	56	28	98	84	56	42	112
4-3/4	121	79	53	26	92	79	53	39	105
5	127	75	50	25	88	75	50	38	100
5-1/4	133	72	48	24	84	72	48	36	96
5-1/2	140	68	45	23	80	68	45	34	91
6	152	63	42	21	73	63	42	31	84
6-5/16	160	60	40	20	70	60	40	30	80
6-5/8	168	57	38	19	66	57	38	28	76
6-31/32	177	54	36	18	63	54	36	27	72
8-1/4	210	45	30	15	53	45	30	23	61

Note: Vc equals the recommended maximum linear speed of hole saw for each material.

## **RUKO** Tools – Jig Saw Blades

RUKO T-shank jig saw blades in 5 or 20 piece sets for a variety of applications. Fits power tools by Bosch®, Atlas Copco®, AEG®, Makita®, Metabo®, Black and Decker® and Hitachi®.

- All models have a wavy side set to prevent clamping of the saw blade in the work piece.
- Narrow blades (7.1 mm height) are suitable for profiled cuts.
- Bi-metal blades have a high-speed steel (HSS) cutting edge and high carbon steel (HCS) spine. This makes them highly flexible with high cutting performance and long service life for conditions where the saw blade is subjected to extreme stresses.

	1	Σ	<u>32180</u>	))) HSS 09	Wavy	Side Set			
	Jig Saw Blades								
Part #	Pcs/ Pkg	Price	Construction	Tooth Spacing	<b>Recommended Applications</b>	Dimensions Length x Height x Thickness			
<u>3218009</u>	5	Retired			Metals up to 5/64in [2mm]				
<u>3238009</u>	20	Retired	HSS	24 teeth/in	Fiberglass up to 5/32in [4mm] Hard plastics, hard fabrics, pressed materials and insulation materials up to 5/16in [8mm]	77.0 x 7.1 x 1.0 mm [3.03 x 9/32 x 0.04 in]			
<u>3218011</u>	5	Retired			Mild steel up to 5/16in [4mm]	77.0 x 7.9 x 1.0 mm			
<u>3238011</u>	20	Retired	HSS	14 teeth/in	Stainless steel up to 7/64in [3mm] Non-ferrous metals up to 3/8in [9.5 mm]	[3.03 x 5/16 x 0.04 in]			
<u>3218033</u> <u>3238033</u>	5 20	Retired Retired	Bi-metal	21 teeth/in	Mild steel, stainless steel and non-ferrous metals 1/16 to 5/32in [1.5 to 4 mm]	77.0 x 7.9 x 1.0 mm [3.03 x 5/16 x 0.04 in]			

Note - Competitive blade specifications may vary. www.automationdirect.com



				Deburring Tools	
Part #	Pcs/ Pkg	Price	Description	Common Uses	
<u>107010</u>	1	\$6.25	Universal deburring Handle, with spare blade storage compartment	-	RUKO
107011	1		Steel blade holder for B blades	-	
<u>107012</u>	1	\$11.50	Deburring blade - B10	HSS blade most commonly used for internal and external deburring work on long-chipping materials such as steel, aluminum, plastics etc.	
<u>107014</u>	1	Retired	Deburring blade - B20	HSS blade used for short-chipping materials such as brass and cast iron. Can be used in both directions.	
<u>107015</u>	1	\$13.00	Deburring blade - B30	HSS blade suitable for the simultaneous deburring of inside and outside bores in material up to 5/32" thick.	
<u>107016</u>	1	Retired	Deburring blade - B50	Scriber with carbide-tipped point, regrindable.	-
<u>107019</u>	1	Retired	Steel blade holder for C blades	_	
<u>107020</u>	1	Retired	Deburring blade - C40	Small HSS triangular scraper for precision work on surfaces up to 5/32" wide.	
<u>107021</u>	1	Retired	Deburring blade - C42	Large HSS triangular scraper for precision work on surfaces up to 5/16" wide.	
<u>107025</u>	1	Retired	Steel blade holder for E blades	-	
<u>107026</u>	1	\$13.00	Deburring blade - E100	HSS blade with B 10 cutting edge, long shank only. For internal and external deburring work on long-chipping materials such as steel, aluminum, plastics etc.	
<u>107027</u>	1	Retired	Deburring blade - E200	HSS blade with B 20 cutting edge, long shank only. For short-chipping materials such as brass and cast iron. Usable in both directions.	
<u>107028</u>	1	Retired	Deburring blade - E300	HSS blade with B 30 cutting edge, long shank only. For simultaneous deburring of internal and external bores in materials up to 5/32" thick.	
<u>107029</u>	1	Retired	Deburring blade - E350	HSS blade suitable for deburring straight edges, keyways etc.	
<u>107031</u>	1	Retired	Steel blade holder for F countersinks	-	
<u>107032</u>	1	Retired	Countersink F12	HSS countersink for deburring holes up to 1/2" Dia	
<u>107033</u>	1	Retired	Countersink F20	HSS countersink for deburring holes up to 3/4" Dia	
<u>107034</u>	1	Retired	Countersink F30	HSS countersink for deburring holes up to 1-3/16" Dia	
<u>107054</u>	1	\$10.00	Deburring tool with changeable E100 Blade	Internal and External deburring on long-chipping materials such as steel, aluminum and plastic.	



				Deburring Tool Kits	
Part #	Pcs/Pkg	Price	Description	Includes	
<u>107003</u>	1	\$12.50	Deburring Kit including Universal Handle, B Holder, B10 and B20 Blades	<u>107010, 107011, 107012, 107014</u>	
<u>107004</u>	1	Retired	Deburring Kit including Universal Handle, C Holder, and C42 Blade	<u>107010, 107019, 107021</u>	RUND
<u>107006</u>	1	\$14.50	Deburring Kit including Universal Handle, E Holder, E100, E200, and E300 Blades	<u>107010, 107025, 107026, 107027,</u> <u>107028</u>	
<u>107007</u>	1	\$29.00	Deburring Kit including Universal Handle, F Holder and F20 Countersink	<u>107010, 107031, 107033</u>	RUKO



**TOOLS & EQUIPMENT** 

#### Overview

Measure AC/DC voltage, current, resistance, continuity, capacitance, frequency, duty cycle, or temperature with one of these tough Southwire meters. Trust that all these Southwire meters meet or exceed the UL's various testing equipment standards and carry the UL mark. Regardless if just testing for the presence of voltage, or troubleshooting the toughest problem, we have you covered.

## Multimeters and Clamp Meter

For the latest prices, please check AutomationDirect.com.

#### **Features**

- Up to CAT IV safety ratings
- Test for AC/DC voltage, current, resistance, continuity, and more
- Auto and manual ranging
- Models available with non-contact voltage and detectors; built-in LED flashlight
- Models available with temperature function and include the thermocouple and adapter
- All include batteries and test leads



<u>16020N</u>

	Multimeters and Clamp Meter								
Part Number	Description	Price	Weight (lbs)	Qty/Pkg					
<u>10031S</u>	Southwire General Purpose manual ranging digital multimeter, AC/DC voltage, DC current, resistance, continuity and battery tester, CAT III 600V. Test leads included.	\$35.00	0.91	1					
<u>10041N</u>	Southwire General Purpose autoranging digital multimeter, AC/DC voltage, AC/DC current, resistance, continuity, capacitance, frequency, non-contact AC voltage detection, battery tester and temperature, CAT III 600V. Test leads included.	\$56.50	0.97	1					
<u>14060S</u>	Southwire TechnicianPRO autoranging digital multimeter, AC/DC voltage, AC/DC current, resistance, continuity, capacitance, frequency and temperature, CAT IV 600V/CAT III 1000V. Test leads included.	\$119.00	1.7	1					
<u>16020N</u>	Southwire Compact Series autoranging digital multimeter, AC/DC voltage, AC/DC current, resistance, continuity, capacitance, frequency and non- contact AC voltage detection, CAT I VAC 600V. Built-in test leads included.	\$42.50	0.64	1					
<u>23070T</u>	Southwire MaintenancePRO clamp-on multimeter, True RMS AC/DC voltage, AC/DC current, resistance, continuity, capacitance and frequency, CAT IV 600V/CAT III 1000V. Test leads included.	\$199.00	1.84	1					



	Safety (	Category Ratings
Category Rating	Brief Description	Typical Applications
CAT IV	Connection point to utility power and outdoor conductors	<ul> <li>Electricity meters, primary overcurrent protection equipment</li> <li>Outside and service entrance, service drop from pole to building, run between meter and panel</li> <li>Overhead line to detached building, underground line to well pump</li> </ul>
CAT III	Three-phase circuits and single phase lighting circuits in commercial buildings	<ul> <li>Equipment in fixed installations, such as switchgear and polyphase motors         <ul> <li>Bus and feeder in industrial plants</li> <li>Feeders and short branch circuits, distribution panel devices                 <ul> <li>Lighting systems in larger buildings</li> <li>Appliance outlets with short connections to service entrance</li> </ul> </li> </ul> </li> </ul>
CAT II	Single-phase receptacles and connected loads	<ul> <li>Appliance, portable tools, and other household and similar loads <ul> <li>Outlet and long branch circuits</li> </ul> </li> <li>Outlets at more than 10 meters (30 feet) from CAT III source</li> <li>Outlets at more that 20 meters (60 feet) from CAT IV source</li> </ul>
CATI	Electronics	Protected electronic equipment     Equipment connected to (source) circuits in which measures are taken to limit transient     overvoltages to an appropriately low level

The measurement category (CAT) rating and voltage rating is determined by a combination of the meter, test probes and any accessories connected to the meter and test probes. The combination rating is the LOWEST of any individual component.

Work on de-energized circuits whenever possible. Use proper lock-out/tag-out procedures. Always assume a circuit is live until verified otherwise. When working on live power circuits the protection of flame resistant clothing, safety glasses or safety face shield, and insulated gloves should be worn at a minimum.

As a rule of thumb the closer the tested device is to the power source the higher the Category Level should be. Category Levels (CAT) are determined by UL & IEC and are explained in detail in IEC61010.

Multimeters Specifications						
Family	TechnicianPRO™	Compact Series	General Purpose			
Model Number	<u>14060S</u>	<u>16020N</u>	<u>10041N</u>	<u>10031S</u>		
Safety Rating	CAT IV 600V, CAT III 1000V	CAT IV 600V	CAT III 600V	CAT III 300V CAT II 600V		
AC/DC Voltage	1000V	600V	600V	600V		
AC/DC Current	10A	200mA	10A	10A (DC only)		
Input Impedance	10MΩ AC/DC Voltage	> 7.5MΩ AC/DC Voltage	> 10MΩ AC/DC Voltage			
Backlighting	Controls, Display	Display	Display	-		
MAX/MIN	Х	-	-	-		
Temperature	Х	-	Х	-		
Built-in NCV*	-	100V-600V	50V-600V	-		
Peak Hold	-	-	-	-		
Resistance	60ΜΩ	40ΜΩ	40ΜΩ	2.0 MΩ		
Diode Test	Х	Х	Х	-		
Capacitance	4000µF	100µF	100µF	-		
Frequency	10kHz	10kHz	10kHz	-		
Duty Cycle	Х	Х	х	-		
Built-in-Worklight	Х	Х	-	-		
Drop Protection	2m	2m	2m	2m		

\* NCV - Non-Contact Voltage



## Southwire<sup>™</sup> TOOLS & EQUIPMENT Clamp Meter

#### **Overview**

The Southwire23070T MaintenancePRO<sup>™</sup> 1000A TrueRMS AC/ DC clamp meter measures AC and DC current up to 1000A and with a UL listed safety rating of CAT IV 600V / CAT III 1000V, this clamp meter is built to get the tough jobs done. Other functions include: AC and DC Voltage, Resistance, Continuity, Capacitance, Frequency, Duty Cycle, Temperature, and Diode Test. A built-in non-contact AC voltage detector and flashlight provide added convenience.

#### Features

- CAT IV 600V / CAT III 1000V
- 11 measuring functions
- Clamp-On function reads both AC and DC current up to 1000  $\mbox{Amps}$
- Built in non-contact AC voltage detector
- Powerful LED work light
- Includes test leads, Type K temperature probe with banana plug adapter, carrying case, and 9 volt battery



Clamp Meter Specifications				
Model Number	<u>23070T</u>			
Safety Rating	CAT IV 600V CAT III 1000V			
AC/DC Voltage	1000V			
AC Current	1000A			
DC Current	1000A			
True RMS	Х			
Input Impedance	10MΩ AC/DC Voltage			
Worklight	Х			
Backlit Display	Х			
Drop Protection	1.5m			
Display Count	6000			
Bar Graph	X			
MAX/MIN/AVG	MAX/MIN			
Temperature	Х			
Built-in NCV*	100-1000V			
Resistance	60ΜΩ			
Continuity	Х			
Diode Test	Х			
Capacitance	6000µF			
Frequency	10MHz			
Duty Cycle	Х			
Auto Power Off	-			

\* NCV - Non-Contact Voltage





40126N

Southwire<sup>M</sup> TOOLS & EQUIPMENT Voltage Testers

#### 40126N NCV Dual Range 24-600V & 100-600V AC

- Green LED means power on, flashing red LED with beeper means voltage detected
- Low battery self-test
- Two modes: green means high voltage mode, yellow means low voltage mode
- Bright LED flashlight
- Thinner probe tip for working with wall outlets
- On/Off power switch
- Pocket clip for easy storage

Voltage Tester						
Part Number	Description	Price	Weight (lbs)	Qty/Pkg		
<u>40126N</u>	Southwire voltage tester, non-contact AC voltage detection, CAT IV 600V.	\$21.00	0.21	1		
* NCV - Non-Contact Voltage						

Voltage Tester Specifications				
Model #	<u>40126N</u>			
Safety Rating	CAT IV 600V			
Voltage Measurement Range	24-600 VAC			
NCV* Detection Range	24-600 VAC			
Input Impedance	-			
Frequency Range	50/60 Hz			
Display	-			
Worklight	Yes			
Test Leads	-			
On/Off Button	Yes			
Low Batt Self Test	Yes			
Auto Power Off	Yes			
Drop Protection	1.5m			
Operating Temperature	32 to 104°F [0 to 40°C]			
Storage Temperature	14 to 140°F [-10 to 60°C]			
Maximum altitude	2000m			
Humidity	Max 80% RH (NC)			
Power	Two AAA batteries (included)			



### **Cable and** TOOLS & EQUIPMENT **Continuity Testers**

For the latest prices, please check AutomationDirect.com.

#### **Overview**

The Southwire 40040S provides a simple way of checking continuity on wires and cables. The bright LEDs and loud beeper provide a positive indication of continuity and polarity. The M550 gives instant continuity status for category and coaxial cables. Featuring rugged double molded tester body and easyto-interpret LED display. Both have a detachable remote that allows cables and wires to be tested after installation.



40040S

#### Features

- 40040S can trace up to 3 cables at a time
- Detachable remote indicator
- LEDs provide visual indication of continuity
- Audible beeper on 40040S provides additional verification of electrical connections
- M550data/video cable tester detects issues with network and coaxial cables
- M550 test for correct wiring, opens, shorts, reversals, miswires, split pairs, and shielded cables
- The M550 removable remote allows for the testing of installed cable
- Both units come with leads and cable required to connect to any number of cable types
- Batteries included

Continuity Tester Specifications					
Model #	<u>40040S</u>	<u>M550</u>			
Indicators	LED	LED			
Maximum Cable Length	10,000 feet (3000m)	1000 feet (305m)			
On/Off Button	Yes				
Auto Power Off	No				
Operating Temperature	10 to 113°F 32 to 122°F [-12 to 45°C] [0 to 50°C]				
Storage Temperature	-4 to 140°F [-2	20 to 60°C]			
Humidity	Max 90% RH (NC) Max 80% RH (NC)				
Power	One 9 volt battery	Two AAA batteries (included)			

	Testers Selection Table					
Part Number	Description	Price	Weight (lbs)	QtyPkg		
<u>40040S</u>	Southwire continuity tester, remote included, for individual wires and multiconductor cables.	\$30.00	0.46  lb	1		
<u>M550</u>	Southwire data/video cable tester, for Cat 7, Cat 7a, Cat 6a, Cat 6, Cat 5e, Cat 5, Cat 4, Cat 3 and Coax.	\$44.00	0.51  lb	1		





#### **Features**

TOOLS & EQUIPMENT Test Kit

- The <u>10031S</u> multimeter measures AC/DC voltage, DC current, resistance, and functions as a battery tester with a safety rating of CAT III 600V. This makes this specific multimeter a must-have for every toolbox
- The 40117N Non-Contact AC Voltage Detector has flashing green LED to indicate it is on, which changes to red and a beeper sounds if voltage is detected
- Convenient LED Flashlight in the 40117N saves space in your pocket or tool pouch
- Auto power-off feature for both the <u>10031S</u> and 40117N to conserve and extend battery life
- Receptacle tester detects wiring configurations and indicates correct wiring, open ground, open hot, open neutral, hot/ground reversed and hot/neutral reversed
- Includes test leads and batteries for <u>10031S</u> and 40117N

Test Kit						
Part Number	Description	Price	Weight (lbs)	Qty/Pkg		
<u>10037K</u>	Southwire electrical test kit, includes 10031S manual-ranging multimeter, a non-contact AC voltage detector and receptacle tester.	\$39.00	1.2	1		

Test Kit Specifications					
Model #	<u>10031S</u>	40117N	40012S		
Safety Rating	CAT III 300V CAT II 600V	CAT IV 1000V	-		
Voltage Measurement Range	600V	-	110-125VAC		
DC Current	20mA/200mA/10A (fused)	-	-		
NCV* Detection Range	-	90VAC - 1000VAC	-		
Frequency Range	45 Hz - 400 Hz	50/60 Hz	60 Hz		
Display / Indicator	LCD	Red/Green LEDS	Reg/Amber LEDS		
Worklight	-	Yes	-		
Test Leads	Removable	-	-		
On/Off Button	Rotary Switch	Momentary Button	-		
Hold	Manual (Button)	-	-		
Low Batt Self Test	-	Х	-		
Auto Power Off	>15 minutes	>5 minutes	-		
Operating Temperature		32 to 104°F [0 to 40°C]			
Storage Temperature	14 to 122°F [-10 to 50°C]				
Maximum altitude	2133m	2000	)m		
Humidity		Max 80% RH (NC)			
Power	One 9V battery (included)	Two AAA batteries (included)	-		

\* NCV - Non-Contact Voltage



For the latest prices, please check AutomationDirect.com.

### Wire Cutters/Pliers TOOLS & EQUIPMENT **Strippers/Shears**

#### Overview

Southwire's pliers and cutters are made from American forged steel and assembled with hot rivet technology. These tools are built to withstand the wear-and-tear of any job. The inclusion of beveled cutting edges with heattreated steel and comfortable handles make working with all gauges or wire and cable effortless.



	Wire Cutters/Pliers/Strippers/Shears					
Part Number	Description	Tool Length	Qty/Pkg	Weight (lbs)	Price	
<u> S1020SOLUS</u>	Southwire multi-purpose cutting and stripping tool, beveled cutting edges, 22-10 AWG capacity.	6in	1	0.31	\$12.50	
DCPA8D-US	Southwire diagonal cutters, 8.0in (203mm) overall length, induction hardened beveled cutting edges, 15-degree angled head, comfort grip handles.	8in	1	0.63	\$37.00	
<u>CCP9D-US</u>	Southwire cable shears, 9.0in (229mm) overall length, induction hardened shear cutting edges, comfort grip handles.	9in	1	1.03	\$37.50	
SCP9TPCD-US	Southwire linesmans pliers, 9.0in (229mm) overall length, induction hardened beveled cutting edges, comfort grip handles. Additional features include fish tape pulling and conduit reaming.	9in	1	1.07	\$41.50	
TCC9D-US	Southwire crimping pliers, multiple profile, 22-10 AWG capacity, compatible with insulated and non- insulated terminals and connectors.	9in	1	0.96	\$33.00	



- Strips and cuts up to 10-20 AWG solid and 12-22 AWG stranded wire
- Double-dipped grip for comfortable fit
- · Serrated nose holds cable for easy twisting and pulling
- · Spring-loaded for selfopeining action

S1020SOLUS



- · Effectively cuts most hardened wire, ACSR, bolts, screws and nails
- High-leverage design provides maximum cutting power
- Angled head allows for easy work in confined spaces

DCPA8D-US

- Cuts up to 4/0 AWG aluminum, 2/0 AWG copper, and 100-pair 24 AWG communications cable
- · Induction hardened blades for maximum durability
- Dipped handles for comfort

CCP9D-US



- High-leverage design provides maximum cutting power Induction hardened cutting
- blades ensure efficient and lasting cutting surfaces for hard and soft wire
- · Features a crimper, fish tape puller and reaming head for added versatility



· Crimps insulated and noninsulated terminals and connectors

- Specially hardened wire cutter in nose
- Tapered nose for working in confined spaces

TCC9D-US



# TOOLS & EQUIPMENT Cable Shears and Pliers

#### **Overview**

Southwire's cable shears and pliers are built to withstand wear-and-tear of any job. The inclusion of beveled cutting edges with heat-treated steel and comfortable handles make working with all gauges or wire and cable effortless.

	Cable Shears and Pliers						
Part Number	Part Number Description Tool Length Qty/Pkg Weight (lbs) Price						
<u>MP61</u>	Southwire multi-purpose crimping pliers, multiple profile, 22-10 AWG capacity, compatible with insulated and non- insulated terminals and connectors.	9in	1	0.49	\$22.00		



#### Features

- Strips and cuts: 8-22 AWG solid or 10-24 AWG stranded
- Crimps: insulated and non-insulated terminals/connectors
- Shears & re-threads: 10-24, 10-32, 8-32, 6-32, and 4-40 screws



## **Nutdriver Sets**

# Southwire

ND6N1HD

Nut Drivers and Set					
Part Number	Description	Pcs/ Pkg	Weight (lbs)	Price	
ND6N1HD	Southwire multi-bit reversible shaft nutdriver, 4 pieces, imperial, cushion grip handle, 1.4in (36mm) shaft length.	4	1	\$21.50	

#### ND6N1HD Nutdriver Set

- 6 IN 1 Multi-driver with 3/16", 1/4", 5/16", 3/8", 7/16", 9/16" nut drivers.
- · Heavy Duty steel shanks with bolsters for wrench assisted turning
- Comfort grip handle provides extra comfort and maximum torque
- Color coded ends for quick identification of sizes
- Chrome plated finish for corrosion resistance
- Hollow shafts for screw shank clearance

**Overview** 



TOOLS & EQUIPMENT Fish Tape

Southwire's SIM*pull*<sup>™</sup> fish tape makes pulling wire or cable through a filled or empty conduit up to 2 inches in diameter easily. The low friction design allows these fish tapes to easily glide through the conduit without binding at turns, joints, or couplings. Spiral extruded polymer reduces the amount of effort required to push or pull the fish tape through EMT, IMC, Rigid or PVC conduit and as an added bonus polymer fish tapes will not rust. Do not confuse these polymer tapes with a fiberglass tape. A polymer fish tape offers greater flexibility than fiberglass fish tapes. These fish tapes will not break when folded or leave uncomfortable splinters. With the swiveling flexible metal leader and the polymer nonconductive tape makes the job SIM*pull*.

#### Features

- Spiral extruded polymer design reduces the amount of effort required to push or pull the fish tape.
- · Swiveling flexible metal leader easily glides through bends
- Low friction material reduces binding at joints, couplings, or 90-degree bends
- Two lengths 75 or 125 feet
- 580 lbs. tensile strength
- 4.5mm diameter tape
- Weighs less than a steel tape



Pcs/ Weight Description Price Part Number Pkg (lbs) Southwire SIMpull fish tape, 75ft length, spiral extruded FTSP45-75FML 1 2.77 \$60.00 polymer, swiveling flexible metal leader, 580lb tensile strength. Southwire SIMpull fish tape, 125ft length, spiral extruded FTSP45-125FML 1 3.35 \$90.00 polymer, swiveling flexible metal leader, 580lb tensile strength.

Fish Tape

FTSP45-75FML



FTSP45-125FML



#### **Features**

- UL listed CAT IV 600V, CAT III 1000V Test Leads
- 39in test leads
- 1000V AC/DC (Max)
- 10 Amp Current (Max)
- Includes removable CAT III 600V Alligator Clips

Miscellaneous Sets					
Part Number	Description	Pcs/Pkg	Weight (Ibs)	Price	
<u>60010S</u>	Southwire test lead set, CAT IV 600V/CAT III 1000V, 48in length. Alligator clip adapters included.	1	0.31	\$16.00	

<u>60010S</u>

#### For the latest prices, please check AutomationDirect.com.



## Southwire<sup>TM</sup> TOOLS & EQUIPMENT TOOL Accessories

## **EDGEFORCE™** Hawk Bill Knife

- Premium D2 Stainless Steel Holds an edge
- Curved blade for pull cuts and splicing
- Rugged metal handle
- Stonewash black oxide coated blade
- Liner lock keeps blade secure
- Comfort grip for maximum hold and comfort
- Reversible belt clip

### **Folding Utility Knife**

- Quick open button for easy one hand operation
- Durable metal body with comfort grip for secure hold
- Easy blade replacement
- Rugged metal handle
- Comfort grip for maximum hold and comfort
- Quick open/close button
- · Lanyard hole
- Belt clip

Accessories Selection			
Part Number	Description	Weight (lbs)	Price
<u>HBKND2</u>	Southwire EDGEFORCE folding knife, hawkbill, 2.60in blade length, 7.24in overall length, metal body with comfort grip and pocket clip.	0.3	\$29.50
<u>UTILQO</u>	Southwire EDGEFORCE folding knife, common replaceable 2 point utility blade, utility blade length, 6.01in overall length, metal body with comfort grip and pocket clip.	0.4	\$13.00



HBKND2

