## Section U - Hand Tools & Jigs



A

B

С

D

E

F

G

Η

П

J

Κ

L

Μ

Ν

0

Ρ

Q

R

## **SECTION U - TABLE OF CONTENTS**

#### Section U Contents:

Jechon o coments.	
Face Frame & Spring Clamps	2
Pipe Clamps	3
Bar Clamps	4
Clamps/Spreaders	5
I-Beam Clamps	6
Band/Strap & Toggle Clamps	7
Files & Accessories	8-10
Trimmers	11
Laminate & Edgebanding Tools	12-13
Cutting Tools	14-15
Scraping & Marking Tools	16
Marking & Measuring Tools	17
Tape Measures	18-19
Installation Jigs	20-23
3rd Hand Supports	24
Hammers & Nail Sets	25
Wurth Hand Tools	26-86

WüRTH

PONY

JORGENSEN

*FastCap* 

TRUE POSITION

PLASTIC-CUT®

**(reg**)

U - 1



## **FACE FRAME & SPRING CLAMPS**



## Pony<sup>®</sup> Cabinet Claw, Face Frame Clamp

- Combines the multiple steps of face frame cabinet installation into one easy process
- Installs two stiles from 1-1/2" to 2" width and up to 1-1/2" thickness (each) with 4" opening capacity
- Protective rubber pads on clamp faces and alignment plate to
- cushion and protect cabinets
- Aluminum claws and alignment plate

	Item #	Description	
	JP8511 Cabinet Claw (1 Clamp Pack)		
JP8510 Cabinet Claw (2 Clamp Pack)		Cabinet Claw (2 Clamp Pack)	

## **Pony® Spring Clamps**

#### PONY JORGENSEN

- One of the most durable clamps available
- Non-slip jaws become parallel at maximum opening capacities
- Light weight, zinc plated steel jaws

ltem #	Clamping Capacity	Clamping Capacity Throat Depth	
JP3201-HT	1"	1-1/4″	
JP3202-HT	2″	2″	
JP3203-HT	3″	3″	
JP3204-HT	4″	4″	

## **Steel Spring Clamps**

- With vinyl tips and handles
- Vinyl tips prevent marring and vinyl handles offer a non-slip grip
- Features a heavy duty spring for a tight fit and nickel plating to prevent corrosion

Item # Clamping Capacity		Throat Depth	
ΑΚΧΜ5	2″	2-1/4″	
AKXM7	3″	3-5/16″	



## 3 Way Clamp

- Non-marring rubber tips
- Spring clamp and edge clamp in one
- Approximately 30 lb of edge pressure
- Great for all types of edgebanding and general clamping purposes

Item # Clamping Capacity		Clamping Capacity	Throat Depth
	FC3WAYCLAMP	2-1/2″	1-1/2″



FastCap



## **PIPE CLAMPS**









## Pony® Pipe Clamp, Traditional Style

- Multiple-disc-clutch design allows secure
- Hold at any point along pipe
- Clamping capacity only limited by length of pipe used (\*not included)

Item # Handle Style		Black Pipe Diameter*		
JP52	Sliding Pin	1/2″		
JP50	Crank-Type	3/4″		

## **Associated Item:**

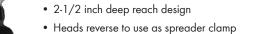
- Clamp pads for protecting work
- Includes: (4) U-Shaped Pads



## Pony<sup>®</sup> Pipe Clamp, H-Style

- Wider and taller stance, taller and wider jaws than traditional style
- Clamping jaws are 2-1/8" and clamps sit 2-1/2" above work surfaces
- Multiple-disc-clutch design allows secure hold at any point along pipe (\*not included)
  - Built in clamp hanger feature

ltem #	Handle Style	Black Pipe Diameter*	
JP55	Crank-Type	3/4″	



• Multiple-disc-clutch design allows secure hold at any point along pipe

Pony<sup>®</sup> Pipe Clamp, Deep Reach Style

• Clamping capacity only limited by length of pipe used (\*not included)

ltem #	Handle Style	Black Pipe Diameter*
JP56	Wing Nut	3/4″

## Pipe Clamp, Traditional Style

- High base improves clearance from the work surface
- Virtually limitless clamping capacity determined by the length of pipe used (\*not included)

ltem #	Black Pipe Diameter*
AKPC12-2	1/2″
AKPC34-2	3/4″



JORGENSEN

BESSE

PONY

Α



#### **BAR CLAMPS** A

B

С

D

E

## Jorgensen<sup>®</sup> Steel Bar Clamps

PONY JORGENSE

- Cold-drawn steel screw with special, smoothly cut acme threads
- Multiple-disc clutch three hardened, plated steel clutch discs and one clutch spring
- Strong, lightweight steel bars are rust-resistant
- Pony® Jorgensen's® own 'multiple-disc- clutch' holds securely at any point along the bar
- Protective pads keep your project free from marring

Item #	Clamping Capacity	Throat Depth	Clamping Force		
Medium Duty	Medium Duty				
JP3706	6″	2-1/2″	600 lb		
JP3712	12″	2-1/2″	600 lb		
JP3718	18″	2-1/2″	600 lb		
JP3724	24″	2-1/2″	600 lb		
JP3730	30″	2-1/2″	600 lb		
JP3736	36″	2-1/2″	600 lb		
Heavy Duty	Heavy Duty				
JP3706-HD	6″	3″	1,000 lb		
JP3712-HD	12″	3″	1,000 lb		
JP3718-HD	18″	3″	1,000 lb		
JP3724-HD	24″	3″	1,000 lb		
JP3730-HD	30″	3"	1,000 lb		
JP3736-HD	36″	3″	1,000 lb		

## **Associated Item:**

- Clamp pads for protecting work
- Includes: (4) round pads and
- (4) U-Shaped Pads
- For use with JP3700 Series Medium Duty clamps only

ltem #
JP7437

## **Clutch Style Bar Clamps**

- Cast iron jaws Durable powder coated cast-iron fixed and sliding jaws
- Secure 2 piece slip-clutch plates keep the jaw sturdy and in place
- · Protective pads Non-marring pads on the top and bottom jaws

Item #	<b>Clamping Capacity</b>	Throat Depth	Clamping Force
AKGSCC2.506	6″	2-1/2″	600 lb
AKGSCC2.512	12″	2-1/2″	600 lb
AKGSCC2.518	18″	2-1/2"	600 lb
AKGSCC2.524	24″	2-1/2″	600 lb
AKGSCC2.530	30″	2-1/2"	600 lb
AKGSCC2.536	36″	2-1/2"	600 lb









## WÜRTH LOUIS AND COMPANY • WWW.WURTHLAC.COM • 800-422-4389



**JORGENSEN** 

## **CLAMPS/SPREADERS**



Join 2 clamps together to make a clamp with more than double the opening capacity of a single clamp!



## Jorgensen<sup>®</sup> E-Z HOLD Medium Duty Spreader/Clamps Expandable

- The contoured comfort grip and quick release lever make it simple to get a firm grip fast
- Can easily be converted into spreader clamps
- Exclusive patented feature allows 2 clamps to be joined together

to make a clamp with more than double the opening capacity of a single clamp

Item #	Clamping Capacity	Spreading Capacity	Throat Depth	Clamping Force
JP33406	6″	12-1/2″	3-1/3″	300 lb
JP33412	12″	18-1/2″	3-1/3″	300 lb
JP33418	18″	24-1/2″	3-1/3″	300 lb
JP33424	24″	30-1/2″	3-1/3″	300 lb
JP33436	36″	42-1/2"	3-1/3″	300 lb

## **One-Handed Clamps, Clamping and Spreading**

- Single-handed clamping and spreading of workpieces up to 445 lb clamping force
- Upper section can quickly convert from clamping to spreading without tools
- Ergonomic handle positioned behind the rail, enabling a powerful grip
- Soft pressure caps optimize material protection and secure clamping
- EZS clamps extend throat depth right to the outside edge of the pads

Item #	Clamping Capacity	Spreading Capacity	Throat Depth	Clamping Force
445 lb Clamping	J Force			
AKEZS15	6″	14″	3-1/2″	445 lb
AKEZS30	12″	20″	3-1/2″	445 lb
AKEZS45	18″	25-3/4″	3-1/2″	445 lb
AKEZS60	24″	31-3/4″	3-1/2″	445 lb
AKEZS90	36″	43-1/2″	3-1/2″	445 lb

## The Jack<sup>™</sup>, Clamp/Spread/Lift

Spread up to 25", clamp up to 18"

• Great for lifting base cabinets to install shims or adjust leg levelers



• Lift up to 18" and 200 lbs. Use to clamp, spread or lift!

lte	m #	Clamping Capacity	Throat Depth	Clamping Force
FC	JACK	18″	2-1/4″	200 lb





JORGENSE

PONY

## I-BEAM CLAMPS

A

B

С

D

E



## Jorgensen® Steel I-Bar Clamp, Crank Handle

- Heavy-duty steel bar clamps, with a resilient fixed-head design
- Bar size 1-1/2" x 7/16"
- Cold-drawn steel screw with special, smoothly cut acme threads
- Ductile cast iron castings, powder coated orange finish
- Capable of withstanding the rigorous daily demands of school shops, commercial woodworking operations, metalworking factories, welding applications and serious woodworking applications

Item #	<b>Clamping Capacity</b>	Throat Depth	Clamping Force
JP7224	24″	1-3/4″	7,000 lb.
JP7230	30″	1-3/4″	7,000 lb
JP7236	36″	1-3/4″	7,000 lb
JP7248	48″	1-3/4″	7,000 lb
JP7260	60″	1-3/4″	7,000 lb
JP7272	72″	1-3/4″	7,000 lb
JP7284	84″	1-3/4″	7,000 lb
JP7296	96″	1-3/4″	7,000 lb

#### Associated Item:

• Clamp pads for protecting work

• Includes: (4) U-Shaped Pads



## **I-Beam Clamp**

- Nickel plated rail resists corrosion
- Crank handle foor tremendous strength and long term durability
- ACME threaded screws With 9/16" spindle diameter
- Jaw Width: 1-3/4"; Bar Width: 1-3/8"; Bar Thickness: 7/16"

ltem #	Clamping Capacity	Throat Depth	Clamping Force
AKIBEAM36	36″	2″	7,000 lb
AKIBEAM48	48″	2″	7,000 lb
AKIBEAM60	60″	2″	7,000 lb



F G Н П J Κ L M Ν 0 Ρ Q R S Т U V W X Y



## **BAND & TOGGLE CLAMPS**



## Pony<sup>®</sup> Rapid Acting Band Clamp, 15'

- Perfect for awkward or irregular shaped clamping projects of odd shapes, including round, polygon or square
- Includes plastic non-marring 1 inch by 1 inch jaws allow for great fit on corners

Item #	Band Length x Width	Range of Angle
JP1225	15' x 1"	Up to 90°



#### Strap Clamp, 23'

- Strap draws simultaneously from both sides ensuring pressure is applied equally on all corners without distortion
- Integrated rewind mechanism is operated with a crank handle which eliminates tangling and damage to the strap
- Vario clip corners with twin-tilting pressure pads auto-adjust from 60° to 180° for easy assembly of most multi-angle projects

Item #	Description	Band Length x Width	Range of Angle
AKVAS23	Strap Clamp with 6 Vario Corner Clips	23' x 1-1/2"	60° to 180°
AKVAC6	Vario Corner Clips (Set of 6)	-	60° to 180°

## Toggle Clamps, Auto Adjust

- Adjustable clamping force based on the adjusting screw in the joint
- Sturdy, tempered metal sheets for a long service life
- Base plate hole pattern suitable for millimeters and inches

	ltem #	Clamping Capacity	Automatic Adjust	Norm Clamp Force Range	Holding Capacity
Inlir	ne Toggle, Flanged	Base Plate			
А	AKSTC-IHH25	5/8″	1/2″	25 - 550 lb	700 lb
Horizontal Toggle with Open Arm, Horizontal Base Plate					
	AKSTC-HH20	13/16″	3/4″	25-250 lb	450 lb
В	AKSTC-HH50	1-9/16″	1-3/8″	25 - 550 lb	700 lb
	AKSTC-HH70	2-3/8″	1-3/8″	25 - 550 lb	700 lb





BESSEY

BESSEY

Α



## A FILES

B

C

D



ALL SYSTERIAS THOUTS IN

## **PLASTI-CUT®** Duplex<sup>®</sup> Laminate Files

- PLASTIC-CUT®
- One side is a "fast cut" and the other side is a "mill cut"
- Wide body provides 10% more cutting surface
- One edge has no teeth for safe corner filing
- Rounded tang design is safer to use and it eliminates the need for a separate handle
- Supplied in protective sleeve to provide longer tool life

ltem #	File Length
PC-8DX	8″
PC-10DX	10″

#### PLASTI-CUT<sup>®</sup> FAST<sup>®</sup> Laminate Files

PLASTIC-CUT<sup>®</sup>

- Designed and manufactured specifically for maximum performance on decorative laminates
- FAST<sup>®</sup> cut files provide a coarse finish
- Supplied in protective sleeve to provide longer tool life

ltem #	File Length
PC-10F	10″
PC-12F	12″
PC-14F	14"

## **PLASTI-CUT® Mill Laminate Files**



- Designed and manufactured specifically for maximum performance on decorative laminates
- Mill cut files provide a smooth finish
- Supplied in protective sleeve to provide longer tool life

ltem #	File Length
PC10M	10″
PC12M	12″
PC-14M	14″







SIMONDS

## FILES



19 19

## Laminate Files, Economy Flat Multi-Kut®

- Combines the performances of Flat and Mill Files
- Obtain almost any required finish simply by changing the feed pressure
- Multi-Kut® Flat Files are single-cut coarse tooth files that taper toward the point in width
- Features a diamond pattern "double chip-breaker" allowing for fast stock removal while leaving a smooth finish

NOTE: 12" files come unsleeved from the manufacturer.

ltem #	File Length
PC-SM10FM	10″
PC-SM12FM	12″

## **All-Purpose Files**

• Double cut on one side for quick removal and rough work; single cut on the other for finish filing

ltem #	File Length
PC-SM10AP	10″

## **Mill Laminate Files**

- Designed for use on decorative laminates
- Mill cut files provide a smooth finish

ltem #	File Length
PC-SM10MC	10″
PC-SM12MC	12″

## All Purpose Files, Black Maxi-Sharp®

- Built-in handle provides maximum versatility
- Double cut on one side and a single cut on the other side
- One edge cut and one edge safe (uncut) for shoulder filing

Item #	File Length
PC8AP	8"
PC10AP	10"

C D E SIMONDS

Α

B



SIMONDS

SIMONDS



## **FILE ACCESSORIES**



## • Sharp temp

- Sharp tempered steel bristles are angled forward, aligned and spaced for good effective cleaning
- Not recommended for use on PLASTIC-CUT® files

ltem #	Length	Туре
PC-FC87	8-1/2″	Standard Duty
PC-FC87B	10″	Heavy Duty

## Wire Brush

- Recommended for cleaning PLASTI-CUT files to preserve tooth sharpness
- For files that are clogged with adhesive, soak in Würth Pitch & Resin Remover (see below), then use the wire brush

ltem #	Overall Length
PC-WB42	14″

## File Card/Brush

- Use brush side for general cleaning and card side for stubborn cleaning
- Sharp tempered steel bristles of the card side are angled forward, aligned and spaced for good effective cleaning
- Wire side NOT recommended for use on PLASTIC-CUT® file

ltem #	Length
PCCB88	10″



ITTERNITION OF THE OWNER

## Pitch & Resin Remover, Eco Friendly

• Designed to quickly dissolve and emulsify materials from your files

Item #	Size
WR0893011201	1 Qt., Ready to Use
WR0893011135	1 Gal, 1:10 Dilution

## PRACTICAL PRODUCTS



# PRACTICAL

WURTH

D E F G Η П J Κ L M Ν 0 Ρ Q R S Т U V W X Y

U - 10

A

B

C



**FastCap**<sup>®</sup>

**FastCap**<sup>®</sup>

## TRIMMERS



## End Nippers<sup>™</sup>

- Trims flush with the surface
- Can be used in a variety of different applications, including trimming the edge of edgebanding/veneers and soft metals
- Will even work on 3mm edgebanding
- Not meant for use on nails

7	2. · ) #

## Mirco Flush Cut Trimmers<sup>™</sup>

- Rounded flush side cutting surface design allows you to get into tight spots when removing brad nails or small slivers
- Gently pull the nail out by rolling the micro flush cut pliers without marring or denting the wood

#### ltem #

Item #

FCENDNIP

FCPLIERSMICRO



## Macro Flush Cut Trimmer™

- For making micro-cuts for "nip and tuck" of edgebanding and laminate
- Works with standard wood and PVC edgebanding .018 .025, not recommended for 3mm

<b><i>EFastCap</i></b> <sup>®</sup>
-------------------------------------

FastCap

ltem#
FCPLIERSFC



## Heavy Duty Flush Cut Trimmers™

- Can be used to cut nails flush
- Comes with 2 FCPOWERMAG magnets to keep the cut item from flying through the air

Item # FCPLIERSHD LAMINATE/EDGEBANDING TOOLS





## **Straight Handle J-Roller**

• 3"W rubber roller is soft enough to avoid marring, but firm enough to smooth out all covering materials

ltem #	Handle Length
PC-JR-78C	12″

## **Extension Roller**

- Three  $2 \cdot 1/4''$  resilient rollers let you cover a lot of territory in a hurry
- Useful for decorative laminate, vinyl, or other adhesive-applied coverings
- With the preferred loop handle grip at the roller section, heavy pressure
  - can be applied right where it is needed at the rollers
- Twist-lock handle quickly adjusts from 18" to 27"

ltem #	Handle Length
PCER	18" - 27"





## Speedroller™

- Ergonomically designed with laminate rollers that can be used in any PSA application
- Non-marring rubber wheels or maximum PSI steel wheels

Item #	Description
FCSPEEDROLLERQUAD	Maximum PSI Steel, Non-Interchangeable
FCROLLERPRO	1 set Maximum PSI Steel and 1 set Non-Marring Rubber, Interchangeable





**FastCap**<sup>®</sup>

Y



**FastCap**<sup>®</sup>

FastCap

EUMATIC

PRACTICAL

PRODUCTS

## LAMINATE/EDGEBANDING TOOLS



## FastBreak<sup>™</sup> Sander

- Uniformly break the edge in sharp melamine, edgebanding,
- plywood and hardwood materials in just one pass
- FastBreak XL is designed for sanding entry doors and larger panel stock
- Extra sandpaper is stored inside and is easily accessed through removable end caps

ltem #	Description	Material Thickness
FCFB	Sander	1/4" - 1"
FCFBXL	Sander	3/4" - 2-3/8"
FCFB80	Sandpaper, 80 Grit (Pack of 10)	-
FCFB180	Sandpaper, 180 Grit (Pack of 10)	-

# A State of the sta

#### FCQPROTRIM

## **NO SPRINGS!**



- Available tungsten carbide blades last 10 times longer than steel blades
- Trims both directions, both sides, top and bottom at once

Item #	Description	Blade Type
FCQTRIM	Standard Trimmer	Carbon Steel
FCQBLADE	Replacement Blade	Carbon Steel
FCQPROTRIM	"Pro" Trimmer	Tungsten Carbide
FCQPROBLADE	Replacement Blade	Tungsten Carbide



## **Double-Sided Edgebanding Trimmer**

- Simultaneously trims both edges of most soft edgebanding materials
- Duplicate blades on both sides will flush or bevel trim panels from 1/2" - 1-1/2" thick
- One side can be used alone as a single-sided trimmer

Item #	Description
PC-ET100	Trimmer
PC-ET100RP	Repl. Blades 6 per pack



STANLEY.

STANLEY.

## **UTILITY KNIVES & BLADES**





## **Utility Knife**

- 3 position retractable blade
- Includes 3 standard utility blades; storage for 5

ltem #	
STN10-099	

# Diverse and the second se

## **Utility Knife, INSTANTCHANGE®**

- Swing out blade storage and integrated string cutter
- Tool-free push-button blade change
- Includes 3 standard utility blades, storage for 10

ltem #
STN10-788



## **Utility Knife Replacement Blades**



ltem #	Blade Thickness	Dispenser Included	Box Qty
stn11-921A	.024″	Yes	100
STN11-921B	.024″	No	400
WR1695106	.025″	No	100



**FastCap**<sup>®</sup>

STANLEY.

WÜRTH

STANLEY.

## **KNIVES & SCRAPERS**



## **TriBlade Utility Knife**

- Heavy duty steel track with retractable blade and auto blade lock
- Comes with 3 blades and holds 2 extras
- Rubberized grip is comfortable to hold

Item #	Description
FCTB	TriBlade Knife with 3 blades
FCTBR	TriBlade replacement blades, pack of 10

## **Razor Blade Scraper**

- Razor blade scraper is constructed of steel and has a fully retractable blade
- Comes with 5 blades

## Item # STN28-500



## Razor Blades, Single-Edge

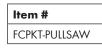
- Blades are individually wrapped for rust and edge protection
- 100 blades per box

Item #	Туре	Blade Thickness	Brand
WR16033010	Standard Duty	.009″	Würth
STN11-515	Standard Duty	.009″	Stanley



## Pocket Pull Saw, Folding

- Super flexible blade is only .015" thick
- Blade length: 3-5/8", overall length: 8-7/8", closed length: 5"
- Compact and safe to store in your pocket when closed
- Locked and ready to use when fully open









STANLEY)

0

A

В

**SCRAPING & MARKING TOOLS** 

#### **Hand Scraper**

- Extra flexible, spring steel blade
- Scraper is 4-3/4" wide

Item # WR0695940912

## **Putty Knife**

- Hardened, tempered and polished steel blade
- Permanently fastened full tang blades

	ltem #	Blade Width	Blade Type	Handle Type
Α	STN28-540	1-1/4″	Flexible	Wood
D	STN28-240	1-1/4″	Flexible	Nylon
В	STN28-140	1-1/4″	Stiff	Nylon

## Long Nose Marker<sup>™</sup>

- Solves the problem of marking inside holes or up against deep wall applications
- The ultimate permanent marker with both a super fine long tip and a wide tip on the reverse side

#### ltem #

FCLONGNOSE

# FatBoy<sup>™</sup> Retractable Pencil

- Built-in eraser and removable clip, lightweight aluminum housing
- 5.5 mm lead
- Sharpens in standard pencil sharpener
- Great for framing and finish-work

Item #	Description
FCFATBOY-PENCIL	Pencil, 3 pieces of lead (1 each standard lead, red & soapstone and 1 eraser)
FCFATBOY-REFILL	5 Lead refills (standard lead), 3 erasers



## WÜRTH LOUIS AND COMPANY • WWW.WURTHLAC.COM • 800-422-4389



📙 WüRTH

FastCap





FastCap®

PRACTICAL

PRODUCTS

## **MARKING & MEASURING TOOLS**



## Reveal Square Door & Window Molding Installation Tool

- Provides 8 different reveal dimensions for installation of door and window moldings
- Side one provides reveals of: 1/8", 1/4", 1/2", and 3/8";
- Side two provides reveals of 3/16", 5/16", 7/16", and 9/16"
- Slide the Reveal Square along the edge of the window or door frame at desired reveal and mark with a pencil line

#### ltem #

FCREVEALSQ

## **Scribing Tool**

• For installing countertops, cabinets, tile, and floor coverings

ltem #	
PC-AS4	





AccuScribe Pro <sup>™</sup>	<b>FastCap</b> <sup>®</sup>
Scribing Tool & Compass	erasicap
<ul> <li>Ideal for scribing the trim on kitchen cabinets, architectural moldings, countertops, splashguards, tile, siding and even flooring</li> </ul>	AccuScribe PRO
<ul><li> Retractable compass point</li><li> Articulating pencil head</li></ul>	,
Item #	





## Pocket Awl, Folding

- Compact and safe to store in your pocket when closed
- Locked and ready to use when fully open

Item # FCPKT-AWL



## 800-422-4389 • WWW.WURTHLAC.COM • WÜRTH LOUIS AND COMPANY



**FastCap**®

## **TAPE MEASURES**











<b>ProCarpenter</b> <sup>™</sup>	Tapes
----------------------------------	-------

- All ProCarpenter tapes feature erasable note pad on tape casing side, built-in pencil sharpener and ergonomic belt clip, 8' standoff, dual thumb and finger locks
- All ProCarpenter tapes have a 1" wide tape (except FCPMS12 which is 5/8" wide)

Old Standby Standard					
ltem #	Description	Length			
FCPS16	Easy to read fraction call outs to 1/16"	16′			
FCPS25	Easy to read fraction call outs to 1/16"	25'			

Standard/Standard Reverse					
ltem #	Description	Length			
FCPSSR16	Right & left reading	16′			
FCPSSR16AL	Right & left reading, Auto-lock	16′			
FCPSSR25	Right & left reading	25'			

Standard Story Pole					
ltem #	Description	Length			
FCPSSP16	Features a blank edge on the blade for writing and standard	16'			
FCPSSP25	measurements on the other edge				

PMS Metric/Standard				
Item # Description				
FCPMS12		12′		
FCPMS16	Easy to read fraction call outs to 1/16" and millimeters	16′		
FCPMS16-AUTO	Easy to read fraction call outs to 1/16" and millimeters, auto-lock	16′		
FCPMS25	Easy to read fraction call outs to 1/16" and millimeters	25'		

TRUE32	i		, in the second	ll	huddan	l	hudun
METRIC	02	09	05	40	30	02	01
DEVEDCE	True 32 0	ue32	) [:Tı	astCap	1 CEF		
NEVENSE	70	CO	50	40	30	20	10
	70	60	50	40	30	20	10

True 32 Metric Reverse				
ltem #	Description	Length		
FCPMMRTRUE32	For use with True 32 Flow manufacturing	5M		



	ltem #	Description					
	FCPMMRTRUE32	For use with True 32 Flow manufacturing	5M				

## Standard Peel & Stick 16' Tape



- Puts a tape measure right where you need it
- The flat 16' long tape measure is printed on both sides allowing for left or right read
- Simply adhere the included SpeedTape to one side of the tape and stick it on

Item #         Description           FCPSSTICK16         Easy to read fraction call outs to 1/16"		Item # Description Length		Length
		16' (Can be cut to 8')		

Y



## TAPE MEASURES/SQUARES



## **Tape Measure, Auto Stop**

- Yellow nylon-coated steel tape with Metric and Inch markings
- Lightweight ABS plastic housing is lightweight and corrosion resistant
- End stop cushions tape when rolled in for longer tape life
- Auto stop when tape pulled out
- Sliding end hook
- Removable belt clip

ltem #	Read	Blade Width	Blade Length	
WR071464575	Metric/Inch	1″	16′	

# **PowerLock®** Tape

#### **Measures**

- Mylar<sup>®</sup> polyester film extends life of entire blade
- Secure blade lock wont creep during measurements
- Tru-zero end hook for accurate measurements



	ltem #	Read	Blade Width	Blade Length	Stud Markings
А	STN33-215	Metric/Inch	1/2″	12′/3.5m	16" and 19.2"
В	STN33-158	Metric/Inch	3/4″	16′/5.0m	16″
С	stn33-116	Inch	3/4″	16′	16" and 19.2"



## SpeedClip<sup>™</sup> Tape Measure Belt Clip

- Clips over pants or belt for quick access to tape measure
- Securely holds a tape measure and a pencil
- Extension keeps tape measure from getting bumped off when bending down
- Built in pencil sharpener
- 2 bench mount holes

ltem #

FCSPCLIP



## **Combination Square**

- Durably etched, hard-chrome-plated blades are rust resistant
- Built-in scriber comes in handy for surface marking
- · High-visibility yellow, die-cast handle with brass hardware for durability
- Graduation in 1/8", 1/16" and 1/32"
- Ruler length is 12" and handle length is 4-1/2" long

Item #
STN46-123

**⊌FastCap**®

STANLEY.



## **KREG JIGS & ACCESSORIES**



## Knuckle Bender<sup>™</sup> Interior Door Installation Tool



(Kreq)

(Kreg

- Used for installing full size residential doors
- Design allows you to get a hammer under the bottom hinge to easily tap out the pin without marring the hinge, door or trim

#### ltem #

FCKNUCKLEBENDER



#### Kreg Jig<sup>®</sup> R3

- Number of Drill Guides: (2) 3/8"Dia. standard Kreg pocket holes
- For Use With: Materials from 1/2"- to 1-1/2" thick
- Drill Guide Spacings: 7/8"
- Clamping Method: Works with any Kreg Face Clamp
- Screw-Centering Ability: 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2"
- Includes: Kreg Jig<sup>®</sup> R3, clamp pad adapter, stepped drill bit, 6" driver bit, depth collar, Allen wrench, starter Kreg screw set, starter Kreg pocket-hole plug set, and Owner's Manual, all inside of a durable, compact carrying case

ltem #	Description	
KRR3	Kreg Jig <sup>®</sup> Jr. (see included contents listed above)	

For Kreg Screws, see Section P



## Kreg Jig<sup>®</sup> Mini

- Number of Drill Guides: (1) 3/8" diameter standard Kreg pocket hole
- For Use With: Materials from 1/2"- to 1-1/2" thick
- Clamping Method: Works with Kreg Face Clamps and a variety of other clamps
- Screw-Centering Ability: 1/2" to unlimited
- Includes: Kreg Jig® Mini, Kreg drill bit, stop collar, Allen wrench, and Owner's Manual

ltem #	Description	
KRMKJKIT	Kreg Jig® Mini Kit (see contents listed above)	

For Kreg Screws, see Section P

U - 20





## **KREG JIGS & ACCESSORIES**



## **Kreg Jig HD®**

- Number of Drill Guides: (2) 1/2"Dia. HD pocket holes
- For Use With: 1-1/2" thick material and up
- Drill Guide Spacings: 1-7/16"
- Clamping Method: Works with Kreg Face Clamps and a variety of other clamps
- Compatibility: Kreg Jig<sup>®</sup> K3, K4, K4MS, and K5 benchtop base
- Includes: HD Drill Guide, stop block, 1/2" diameter HD stepped drill bit, 6" HD driver bit, stop collar, Allen wrench, starter Kreg screw set, and Owner's Manual

ltem #	Description
KRKRHD	Kreg Jig® HD
KRKJDHD	Replacement Drill Bit, HD

For Kreg Screws, see Section P



## **Concealed Hinge Jig**

- Accurate hinge positioning with built-in indexing tabs
- Repeatable results with built-in measuring scales
- Reliable drilling with bit guide and stop collar
- Simple to use with any drill-no special tools needed
- Adjustable cams ensure proper hinge offset
- Durable carbide-tipped drill bit included

Item #	Description
KRKHI-HINGE	Concealed Hinge Jig
KRKHI-BIT	Replacement Bit



## **Cabinet Hardware Jig**

- Install Knobs and Pulls the Worry-Free Way with Easy, Repeatable Accuracy
- Adjustable guides for accurate hole placement
- Built-in measuring scales for repeatable results
- Versatile for mounting single and multi-hole knobs
- Adjustable edge guide for easy positioning
- Durable hardened-steel drill guides

ltem #	Description
KRKHI-PULL	Cabinet Hardware Jig



(Kreg

(reg)

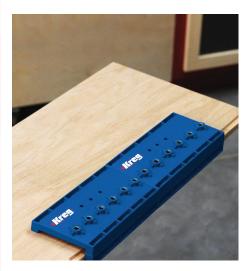
(freg)

Υ



</reg

## **KREG JIGS & ACCESSORIES**



## Shelf Pin Jig

- Dual Position Adjustable Fence requires no tools
- Locating Pin lets you quickly reference the last hole drilled
- Jig Extender allows you to connect multiple jigs together for high speed work
- Standard 32mm hole spacing
- 5mm or 1/4" brad point drill bit included
- Drill bit storage built in to back of jig

Includes: Shelf-Pin Jig, Locating Pin, Jig Extender, 5mm or 1/4" Drill Bit, Depth Collar, Allen Wrench, Four 5mm or 1/4" Shelf Pins, Instructions

Item #	Description
KRKMA3200	Shelf Pin Jig, 1/4″
KRKMA3215	Shelf Pin Jig, 5mm
KRKMA3210	1/4″ Brad Point Drill Bit
KRKMA3220	5mm Brad Point Drill Bit

#### **Drawer Slide Jig**

- Install Drawer Slides the fast, easy way for drawers that fit perfectly every time and slide smoothly
- Accurate slide positioning with built-in indexing tabs
- Repeatable results without measuring and marking
- Versatile for use in cabinets, cases, and more
- Reversible to mount slides to cabinet and drawer box

NOTE: Clamps in picture are not included

ltem #	Description
KRKHI-SLIDE	Drawer Slide Jig



#### Crown-Pro<sup>™</sup>

- Holds trim at the exact angle required, eliminating need for advanced compound miter cuts
- Curved design lets you compensate for a variety of crown molding spring angles (30 to 60 degrees)
- Extension arms let you work with crown up to 5-1/2" wide
- Included angle-finder helps you determine the correct spring angle and wall angle for accurate results; range of 30° - 65°
- 10" saws work with crown up to 3-1/2" wide; 12" saws work with crown up to 5-1/2" wide (both depend on manufacturer)

Includes: Crown-Pro<sup>™</sup>, Double-Sided Angle Finder, and Rubber Feet

ltem #	Description
KRKMA2800	Crown Molding Jig



<kreg.

U - 22



TRUE POSITION

Bushings are backed with a lifetime warranty.

MADE IN THE USA

## **HARDWARE & SHELF PIN JIGS**

	Cabinet Hardware Jig <ul> <li>Install hardware 10x faster</li> </ul>	
	• Minimum c/c: 1-1/8" (28mm)	
	• Maximum c/c: 12" (305mm)	LIME WARPA
	<ul> <li>Saves wasted time making wood templates</li> </ul>	MADE IN THE USA
	<ul> <li>Durable aircraft quality aluminum</li> </ul>	Bushings are backed with a lifetime warranty.
	• 3/16" case hardened steel bushings are replaceable	
	• Includes: Blow Molded Case and standard 3/16" drill bit	
	Item #	
Includes Blow Molded Case	TP-1934	



#### **Includes Blow Molded Case**



# **Cabinet Hardware &**

• Install hardware 10x faster • Minimum c/c: 1-1/8" (28mm)

Item # TP-1935

• Maximum c/c: 30-1/4" (768mm)

• Durable aircraft quality aluminum

• 3/16" case hardened steel bushings are replaceable

• Includes: TP-ERA Extended Ruler Attachment and Blow Molded Case

## **Shelf Pin Jig Accessories**

TRUE POSITION	∧
	۳ سر
	TOOLS

	ltem #	Description			
A	TP-2312	TP-2312 Add on extension bars for JKTP-1934. Convert the hardware jig into a portable line boring unit. Also capable of installing cabinet handles up to 30-1/4" (768mm).			
В	TP-SDG	P-SDG Sliding Drill Guide for all True Position models. Used for quick shelf hole layouts.			
С	TP-SES	Replacement sliding end stop assembly for all True Position models.			
D	TP-5MMSC	Split Ring Stop Collar for 5mm drill bits, adjustable design is made of aluminum.			
E	TP-5MMJ	5mm Ultra Bor Super Premium Drill Bit, Black & Gold 5mm Jobber Length. Hi-Molybdenum tool steel with 135 degree split points for fast penetration and accurate starting without a center punch. Ideal for solid woods.			
	TP-5MMB	5mm Brad Point HSS bit, HSS is ideal for woods and plastics. Brad point for clean holes in melamines, veneers and other woods.			

Т

U

V

W

Х

Υ





**FastCap**®

## **3RD HAND SUPPORTS**

## 3rd Hand Extending Supports, 150 lb Capacity

• Adjustable support systems for a variety of jobs • Useful in the shop and on the jobsite



A Designed to support upper cabinets after the base cabinets are in place

U - 24



**B** Designed to support upper cabinets when the base cabinets are not yet in place



. .

С

Brace, jack, or support whatever you need!

	ltem #	Size	Features	Includes
	FC3HL		<ul> <li>Micro-adjustment</li> </ul>	(1) jack and (2) 6x6 support feet
A	FC3HL-2PC	16.5″ - 23.5″	• Micro-adjustment	(2) jacks and (4) 6x6 support feet and carrying bag
В	FC3H-UPPER	28″ - 60″	Precision pump jack	(1) jack, (2) 6x6 support feet
D	FC3HUPPERHANDKIT	28 - 00	Ball detent for positive lock	(2) jacks and (4) 6x6 support feet and carrying bag
С	FC3H5HD FC3H5HD-2PK	57" - 144"	<ul> <li>Precision pump jack</li> <li>Ball detent for positive lock</li> <li>Micro-adjustment"</li> </ul>	<ul> <li>(1) jack, (2) 3x3 articulating feet,</li> <li>(1) magnetic dust barrier foot</li> <li>(2) jacks, (2) 3x3 articulating feet,</li> <li>(2) magnetic dust barrier feet</li> </ul>



STANLEY.

STANLEY.

STANLEY.

**STANLEY** 

## HAMMERS/NAIL SETS



#### **Rubber Mallet**

- Tough rubber head molded to a lacquered wooden handle
- Rubber head helps minimize marring and surface damage

ltem #	Length	Weight
STN57-522	13-1/4″	18 oz.



## **Dead Blow Hammer**

- Uni-Cast<sup>™</sup> construction of nonferrous materials eliminate sparking and won't absorb liquids
- Dead-blow function uses steel shot to eliminate bounce back

ltem #	Length	Weight
STN57-531	11-1/4″	18 oz.



## **Curve Claw Hammer**

- Forged high-carbon steel head, fully heat-treated and polished bell face
- Hickory handle

Item #	Length	Weight
STN51-616	13-1/4″	16 oz.

#### **3 Piece Steel Nail Set**

- Three piece set has three different tip sizes: 1/32", 2/32" and 3/32"
- Square head to prevent rolling when set down
- Round knurled body
- Alloy steel is hardened and tempered

ltem #
STN58-230



## **WÜRTH HAND TOOLS - TABLE OF CONTENTS**

#### Würth Hand Tools Contents:

Warranty Information	27
Wrenches	
Allen Keys	
Screwdrivers	40-49
Screwdrivers, T-Handle	
Bits & Accessories	
Ratchets	
Sockets	
Ratchet & Socket Assortments	74-75
Pliers & Cutters	76-84
Snips	8 <mark>5-86</mark>



0174 07 563



## WÜRTH LOUIS AND COMPANY – LIMITED WARRANTY POLICY

#### Würth Louis and Company – Limited Warranty Policy

This limited warranty policy ("Limited Warranty Policy") represents Würth Louis and Company's ("the Company") commitment to our customers and our effort in ensuring the quality of our products.

If you are the original purchaser of our product, the Company warrants, for the time period indicated below (the "Warranty Coverage"), each Würth Louis and Company product to be free from defects in materials and workmanship under normal use and service, when installed, adjusted, used, and maintained, in the manner they were intended.

WÜRTH PRODUCT	WARRANTY COVERAGE
• "Zebra" brand hand tools	<b>Limited lifetime warranty</b> Würth Louis and Company warrants these products for its useful life against deficiencies in material and workmanship
• Würth brand hand tools	<b>1-year Limited Warranty</b> Würth Louis and Company warrants these products for one (1) year from the date of purchase of the original purchaser

Please note that the Limited Lifetime Warranty and the 1-year Limited Warranty are subject to the provisions and limitations contained in this Limited Warranty Policy and in any applicable Würth Louis and Company terms and conditions of sale.

Repair, replacement (same or similar product), or credit at the original sale price at Würth Louis and Company's option will be furnished if the product, upon Wurth 's standard investigation process, is found to be properly installed, adjusted, used, maintained, stored, and/or operated.

Any such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation, lodging, meals, and/or other personal costs.

This Limited Warranty Policy does not apply to any malfunctions caused by: (i) normal wear and tear, (ii) unreasonable and/or improper use, misuse, neglect, abuse, improper storage, improper exposure to elements, and/or insufficient maintenance, (iii) repair or service by unauthorized persons, and (iv) modifications and/or alterations made without the express written permission of Würth Louis and Company.

Würth Louis and Company consumable products are free from manufacturer's defect upon delivery but

do not carry any further warranty unless specifically expressed on the product itself.

This limited warranty is non-transferrable and can only be availed by the original purchaser of the product. A proof of purchase is required for all warranty claims. To obtain warranty service, contact your sales representative for warranty assistance or call 1-800-422-4389 for your nearest authorized Würth Louis and Company sales representative.

EXCEPT FOR THE LIMITED WARRANTY PROVIDED HEREIN, TO THE EXTENT PERMITTED BY LAW, WÜRTH DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT THAT ANY IMPLIED WARRANTIES MAY NONETHELESS EXIST BY OPERATION OF LAW, ANY SUCH WARRANTIES ARE EXPRESSLY LIMITED TO THE WARRANTY COVERAGE PERIOD ASSOCIATED WITH EACH PRODUCT STATED HEREIN.

The terms in this Limited Warranty Policy represent Würth Louis and Company's exclusive written warranty. Würth Louis and Company makes no other express warranty, nor is anyone authorized to make any warranties on its behalf.

REPAIR OR REPLACEMENT OF WÜRTH LOUIS PRODUCTS, AS PROVIDED HEREIN, IS YOUR EXCLUSIVE REMEDY. WÜRTH LOUIS AND COMPANY SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, ECONOMIC OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOST REVENUES, LOST PROFITS, STRICT LIABILITY IN TORT AND/OR IN NEGLIGENCE, AND THIRD PARTY CLAIMS, INCIDENTAL OR CONSEQUENTIAL, LABOR COSTS, INSTALLATION CHARGES, TELEPHONE CHARGES, OR TRANSPORTATION CHARGES IN CONNECTION WITH THE REPLACEMENT AND/OR REPAIR OF DEFECTIVE PARTS OR PRODUCTS.

Customer understands that Würth Louis and Company is a distributor only and as such, Würth Louis and Company assumes no liability whatsoever with regard to the original purchaser's compliance or fulfillment of its obligations with respect to any statute, regulation, or by-law.

Please note that while Würth Louis and Company has made diligent efforts to illustrate and describe the products shown in its catalogues and online media, these illustrations and descriptions however, are for the sole purpose of identification and do not express nor imply a warranty or condition that the products shown are merchantable, fit for a particular purpose, nor does it guarantee that the products will necessarily conform to the illustrations and descriptions.

Wurth Louis and Company reserves the right to make changes in design, appearance, and construction of any and all Wurth Louis and Company products and reserves the right to discontinue the availability of any products and/or service to any discontinued products, at any time, at its sole discretion. Wurth Louis and Company assumes no responsibility whatsoever in making such changes in products previously sold and/or transferred. Further, Wurth Louis and Company assumes no obligation in replacing any previously sold, discontinued, and/or transferred product with an updated and/or similar product.



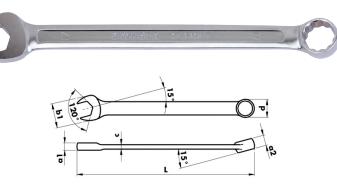
## A WRENCHES

## Limited Warranty Policy - Hand Tools

This limited warranty policy commitment to our customers (original purchaser) and our effort in ensuring the quality of our products. Please contact your Sales Rep or Customer Service Representative for full warranty details.

Würth Hand Tool Product	Warranty Coverage	
Zebra brand hand tools	<b>Limited Lifetime Warranty:</b> Würth Louis and Company warrants these products for its useful life against deficiencies in material and workmanship when used in the manner intended	
	<b>1-year Limited Warranty:</b> Würth Louis and Company warrants these products for one (1) year from the	
Würth brand hand tools	date of purchase of the original purchaser when used in the manner intended.	

## ZEBRA POWERDRIV<sup>®</sup> Combination Wrench - Extra Slim



- Drive: Box end **POWERDRIV**® 12 point
- Standard: DIN 3113A / ISO 3318/7738
- Geometry: Box end 15° angled, open-end position 15°
- Material: Chrome vanadium steel
- Surface: Chrome-plated, matte satin finish

Packing & Sold in: Each

ltem #	(mm)	L (mm)	al (mm)	a2 (mm)	b (mm)	c (mm)	Dia. d (mm)
WR071330908	8	139	4.2	6.5	14.7	2.6	12
WR071330916	16	206	7	12.1	29.2	4.3	22.3
WR071330918	18	233	0	13.1	32.2	4.7	25.3
WR071330919	19	244	8	13.5	33.7	5	26.8

## **ZEBRA** Double Open-End Wrench Assortment



#### Metric

#### 12 pieces, with plastic holder

- Standard: DIN 3110 / ISO 1085
- Material: Chrome-vanadium steel
- Surface finish: Chrome-plated polished heads
- Open-end position 15°, strong heads for heavy duty use Packing & Sold in: Each

ltem #	Set	in mm
WR071330443	12 pieces	6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32

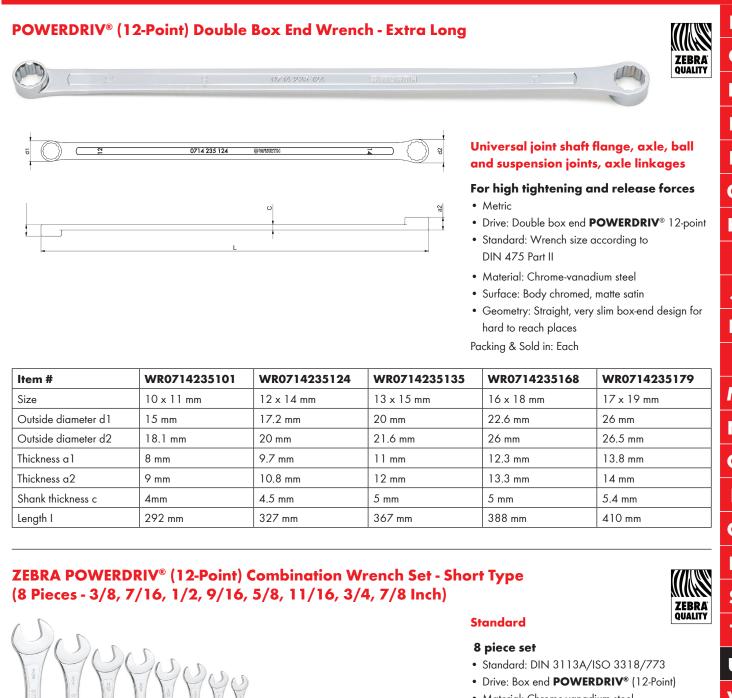


ZEBRA

QUALITY



## **WRENCHES**



- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished • Geometry: Box end angled 15°, open end offset 15°

#### Packing & Sold in: Each

Item #	Inch
WR071330340	3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8

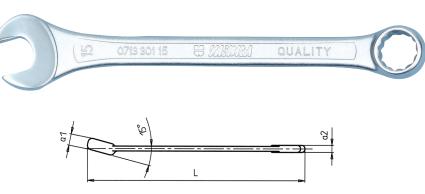
Х



## WRENCHES

A

## ZEBRA POWERDRIV<sup>®</sup> Combination Wrench - Short Type

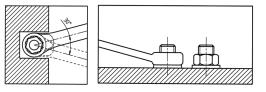




#### Metric

- Standard: DIN 3113A/ISO 3318/7738
- Drive: Box end **POWERDRIV**® (12-Point)
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished heads and ring
- Geometry: Box end angled 15°, head angle 15°

Packing & Sold in: Each



ltem #	(mm) 🔿	L (mm)	b1 (mm)	Dia. d (mm)	al (mm)	a2 (mm)
WR0713301055	5.5	100	14.0	10.5	E E	2.7
WR071330106	6	100	14.0	10.5	5.5	3.7
WR071330107	7	110	16.0	11.8	4.0	
WR071330108	8	120	18.0	13.2	6.0	4.0
WR071330109	9	130	20.0	14.6	7.0	
WR071330110	10	140	22.5	16.1	7.5	4.5
WR071330111	11	150	25.0	17.4	8.0	5.0
WR071330112	12	160	27.0	18.9	8.5	5.5
WR071330113	13	170	29.0	20.4	9.0	5.5
WR071330114	14	180	31.0	21.6	9.5	
WR071330115	15	190	33.5	22.9	10.0	6.0
WR071330116	16	200	36.0	24.6	10.0	
WR071330117	17	205	38.0	26.1	10.5	6.5
WR071330118	18	215	40.0	27.7	11.0	7.0
WR071330119	19	230	42.0	29.9	11.5	7.5
WR071330120	20	240	45.0	30.7	12.0	
WR071330121	21	250	47.0	32.2	12.5	
WR071330122	22	260	49.0	33.7	13.5	8.0
WR071330123	23	270	51.0	35.2	14.0	
WR071330124	24	280	53.0	36.9	14.5	
WR071330125	25	290	55.0	38.5	15.0	
WR071330126	26	300	57.0	39.8	15.5	9.0
WR071330127	27	310	59.0	40.8	— 15.5	
WR071330128	28	320	62.0	42.8	16.0	
WR071330129	29	330	63.5	43.8	16.5	10.0
WR071330130	30	340	65.0	44.8	17.0	10.0
WR071330132	32	350	69.0	47.8	17.5	11.0
WR071330134	34	360	73.0	50.8	18.0	12.0



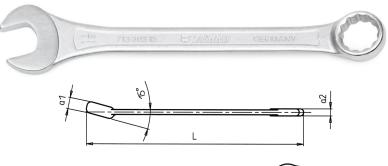
Y



ZEBRA QUALITY

## **WRENCHES**

## Zebra Powerdriv<sup>®</sup> Combination Wrench - Short Type





## Standard

- Standard: DIN 3113A/ISO 3318/773
- Drive: Box end **POWERDRIV**<sup>®</sup>, 12-point
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished
- Geometry: Box end angled 15°, open-end offset 15°

Packing & Sold in: Each

Item #	(in.) 🔘	L (mm)	b1 (mm)	Ø d (mm)	a1 (mm)	a2 (mm)
WR071330303	3/8"	140	22.5	16.1	7.5	4.5
WR071330304	7/16"	150	25	17.4	8	5
WR071330305	1/2"	170	29	20.4	9	5.5
WR071330306	9/16"	180	31	21.6	9.5	6
WR071330307	5/8"	200	36	24.6	10	
WR071330308	11/16"	205	38	26.1	10.5	6.5
WR071330309	3/4"	230	42	29.9	11.5	7.5
WR071330311	7/8"	260	49	33.7	13.5	8

## Zebra Powerdriv<sup>®</sup> Combination Wrench Assortment - Short Type



#### Metric

#### 11 pieces, with plastic holder

- Box end **POWERDRIV**® (12 point)
- Standard: DIN 3113A/ISO 3318/7738
- Material: Chrome-vanadium steel
- Surface Finish: Chrome-plated polished heads
- Open-end position 15°, strong heads for heavy duty use
- 12-Point box-end and open-end position of 15° for an optimal grip ratio, resulting in minimal rotating angle
- The 15° angle of the box end provides more free space for the fingers or to work around obstacles

Packing & Sold in: Each

ltem #	Set	(mm) 🔿
WR071330140	11 pieces	8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 22



ZEBRA

QUALITY

## WRENCHES

Α

## Zebra Powerdriv® (12-Point) Dual Ratchet Combination Wrench





#### Areas of use:

• Designed for union screw joints, e.g. brake lines, injection lines, air conditioning, hydraulics etc.

## Innovative wrench with ratchet function on the box and open sides.

- Drive: Box end POWERDRIV<sup>®</sup> modified
   12 point, open side with open ratchet segment
- Standard: Max. torque as per DIN 899
- Material: Chrome-vanadium steel
- Surface: polished, chrome-plated
- Geometry: Straight on box end, 15° angle on open end
- To change the turning direction, simply turn the wrench around
- Open side features moving ratchet segment
- Enables working without stopping, as the wrench no longer needs to be taken off the nut. Ideal for all line screw joints
- Fine-toothed on ring side, 72 teeth, 5° rotating angle
- Very rugged and strong ratchet for high tightening torques Packing & Sold in: Each

	0		5 _ L	θ <sup>×</sup>	5	
Item #	Sizes (mm)	L (mm)	al (mm)	a2 (mm)	Dia. d (mm)	b1 (mm)
WR071425908	8	140	4.1	6.5	16.8	16.7
WR071425909	9	149	4.3	6.9	18.8	18.7
WR071425910	10	158	4.8	7.3	20.8	20.8
WR071425911	11	165	5.1	7.7	21.8	23.5
WR071425912	12	171	5.3	8.2	22.8	24.6
WR071425913	13	178	5.9	8.6	24.8	26.8
WR071425914	14	190	6.3	9.0	27.8	29.0
WR071425915	15	199	6.6	9.4	28.8	31.0
WR071425916	16	208	6.9	9.9	30.8	33.0
WR071425917	17	225	7.3	10.3	31.8	35.5
WR071425918	18	236	7.8	10.7	32.8	37.5
WR071425919	19	247	8.3	11.2	33.8	39.4
WR071425921	21	289	8.8	13.0	40.0	45.8
WR071425922	22					
WR071425924	24	322	9.8	14.5	46.0	51.8

## Zebra Powerdriv® (12-Point) Dual Ratchet Combination Wrench Assortment





## Innovative wrench with ratchet function on the box and open ends

6 pieces, with plastic holder

• 1 ratchet combination wrench with double-ended ratchet function in each of the following sizes: 8; 10; 12; 13; 17; 19

Packing & Sold in: Each

ltem #	Set	Sizes (mm)
WR071425950	6 pieces	8, 10, 12, 13, 17, 19 mm including plastic holder

WÜRTH LOUIS AND COMPANY • WWW.WURTHLAC.COM • 800-422-4389



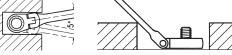
11111

ZEBRA QUALITY

## **WRENCHES**

## Zebra Powerdriv<sup>®</sup> Ratchet Combination Wrench - Flexible Joint





The 180° flexible joint of the box end of the wrench allows for easy access to tight areas.

**Attention:** This is a special tool that may not be subjected to loads in excess of maximum torque values. For that reason, the tool is of limited suitability for loosening of tight screws.

- Flexible joint ratchet head provides greater freedom for fingers and overcomes obstacles
- Very rugged, strong ratchets for high tightening torques
- Design: Metric
- Drive: Box end POWERDRIV<sup>®</sup> 12-point, fine-tooth 72 teeth
- Standard: Max. torque in line with DIN 899
- Material: Chromium-vanadium steel
- Surface: Chrome-plated, matte satin finish
- Geometry: Open-end offset 15°, box end 180° joint, strong heads for heavy-duty applications

Packing & Sold in: Each

	0									
Item #	Sizes (mm)	L (mm)	a1 (mm)	a2 (mm)	d (mm)	b1 (mm)	F max. Nm			
WR071426308	8	140	4.3	6.5	16.1	16.7	35			
WR071426309	9	150	4.6	6.9	17.9	18.8	46			
WR071426310	10	159	5.0	7.3	19.6	20.9	59			
WR071426311	11	165	5.4	7.7	21.4	23.0	74			
WR071426312	12	172	5.8	8.2	22.7	25.1	91			
WR071426313	13	178	6.1	8.6	24.7	27.2	109			
WR071426314	14	191	6.4	9.0	26.4	29.3	131			
WR071426315	15	200	6.9	9.4	27.7	31.3	153			
WR071426316	16	208	7.2	9.9	29.4	33.4	179			
WR071426317	17	226	7.6	10.3	31.2	35.5	205			
WR071426318	18	237	8.0	10.7	32.4	37.6	235			
WR071426319	19	248	8.6	11.2	33.4	39.7	266			
WR071426321	21	274	9.0	13.0	39.7	46.0	330			
WR071426322	22			13.0	37./		368			
WR071426324	24	296	10.0	14.5	45.9	52.3	451			

## Zebra Powerdriv<sup>®</sup> Ratchet Combination Wrench Assortment - Flexible Joint



Flexible Joint

6 pieces, with plastic holder

• 1 ratchet combination wrench in each of the following sizes: 8; 10; 12; 13; 17; 19

Packing & Sold in: Each

ltem #	Set	Sizes (mm)		
WR071426350	6 pieces	8, 10, 12, 13, 17, 19		



ZEBRA

QUALITY

DUALIT

## WRENCHES

A

## Zebra Hexagon Powerdriv<sup>®</sup> Double Open End Line Wrench



- Metric
- Drive: Hexagon **POWERDRIV**®
- Standard: DIN 3118
- Geometry, open end profile angled 15°, open end angled 5°
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished heads
- Packing & Sold in: Each

	00		81	15	1		L	5 B2
ltem #	(mm)	L (mm)	a1 (mm)	a2 (mm)	Dia. d1 (mm)	Dia. d2 (mm)	B1 min. (mm)	B2 min. (mm)
WR0714240079	7 x 9	140	6.5	7.5	17.8	19.3	5	7
WR0714240080	8 x 10	140				19.5	6	
WR0714240113	11 x 13	174	0.5	10.5	22.8	25.3		
WR0714240124	12 x 14	1/4	8.5	10.5	22.0	23.3	9	11
WR0714240179	17 x 19	212	12	13	31.2	33.3	14	15

## Zebra Hexagon Powerdriv<sup>®</sup> Double Open End Line Wrench Assortment



#### Metric

#### 5 pieces, with plastic holder

Drive: Hexagon **POWERDRIV®** 

- Standard: DIN 3118
  1 each of double open end ring wrench size: 7 x 9, 8 x 10, 11 x 13, 12 x 14, 17 x 19
- Packing & Sold in: Each

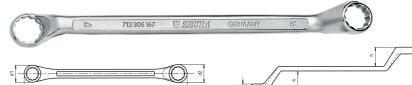
Item #	Set	(mm) 🔿 🔿
WR071424050	5 pieces	7 x 9, 8 x 10, 11 x 13, 12 x 14, 17 x 19

U - 34



## WRENCHES

## Zebra Powerdriv<sup>®</sup> (12-Point) Double Box End Wrench - Deep Offset



- Metric, DIN 838/ISO 3318
- Drive: **POWERDRIV**<sup>®</sup>, 12 point
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished
- Geometry: Box ends offset 18°
- Packing & Sold in: Each

ltem #	(mm) 🔿	L (mm)	al (mm)	a2 (mm)	dia. d1 (mm)	dia. d2 (mm)	h (mm)	
WR0713305067	6x7	174	5.4	5.9	10.8	12.2	21	
WR0713305089	8x9	187	187 6.4		12.0	14.7	23	
WR0713305080	8x10	188	6.9	7.9	13.2	16.3	23	
WR0713305101	10x11	194	7.4	7.9	16.3	17.4	23.5	
WR0713305103	10x13	215	7.9	9.9	16.3	20.7	24.5	
WR0713305123	12x13	217	8.4	9.5	19.0	20.7	25	
WR0713305137	13x17	243		11.8	20.7	26.2	07.5	
WR0713305145	14x15	227	9.9	10.3	22.1	23.4	27.5	
WR0713305167	16x17	247	10.8	11.3	25.4	26.2	0.0	
WR0713305168	16x18	250			25.6	28.2	28	
WR0713305179	17x19	004	11.3	11.8	22.0	20.4	29.5	
WR0713305189	18x19	284			28.0	29.4	30	
WR0713305202	20x22	296	11.8	10.0	31.2	33.1		
WR0713305213	21x23	312	12.3	12.8	32.1	35.5	31	
WR0713305224	22x24	313		14.3	33.0	37.0		
WR0713305246	24x26	328	12.8	13.8	27.0	39.0	2.4	
WR0713305247	24x27	329		14.3	37.0	41.0	34	
WR0713305258	25x28	339	13.8	14.8	37.8	42.0	37	
WR0713305279	27x29	342	14.0	15.0	41.0	44.3	36.3	
WR0713305302	30x32	359	14.8	15.8	45.0	48.2		
WR0713305304	30x34	397	15.8	16.7	45.3	51.2	39	

## Zebra Powerdriv<sup>®</sup> (12-Point) Double Box End Wrench Sets - Deep Offset



Item # WR071330540 Metric, DIN 838/ISO 3318, 8 pieces Sizes (in mm) 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22

- Drive: **POWERDRIV**® (12-point)
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished



Item # WR071330541 Metric, DIN 838/ISO 3318, 10 pieces Sizes (in mm) 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 30x32

• Geometry: Box end offset 18° Packing & Sold in: Each



Item # WR071330542 Metric, DIN 838/ISO 3318, 12 pieces Sizes (in mm) 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32

ZEBRA QUALITY



## **WRENCHES**

B Zebra Powerdriv® (12-Point) Double Box End Ratchet Wrench - 4-In-1

Α

С

D

E

F

G

Η

Π

J

Κ

L

M

Ν

0

Ρ

Q

R

S

Т

U

V

W

Х

- Metric, straight
- Output: Double box end **POWERDRIV®** (12-point)
- Finely toothed, 72 teeth • Single-handed operation via reversing lever for clockwise and
- counterclockwise rotation Material: Chrome-vanadium steel
  - Basic body surface: chrome-plated, high-gloss polished

- Geometry: Straight box end
- 4 sizes in one ratchet wrench
- Most common wrench sizes are covered by only 2 ratchet wrench
- 1/4" bit adapter available
- Simply insert into size 10 mm ratchet wrench to use as a bit ratchet
- For hard-to-access areas
- Narrow ratchet head
- Packing & Sold in: Each

				5	• 	4 4 6		E C
ltem #	(mm)	L (mm)	a1 (mm)	a2 (mm)	b1 (mm)	<b>b2</b> (mm)	d1 (mm)	d2 (mm)
WR0714257013	8x10 + 12x13	150	7.3	8.6	13.8	16.8	20.2	24.8
WR0714257017	10x19 + 13x17	200	9.0	11.0	17.1	01.0	27.2	33.6
WR0714257019	16x17 + 18x19	230	10.3	11.2	20.2	21.9	31.5	33.5

## Zebra Powerdriv<sup>®</sup> (12-Point) Double Box End Ratchet Wrench Set 4-In-1 (3 Pieces)



ZEBRA

QUALITY

core for smooth and secure use.



5° angle of rotation for working in the tightest of spaces. Precision-machined ring

## Innovative double-sided, double-ended ratcheting wrench

- Drive: Double-box end POWERDRIV<sup>®</sup> 12-point, fine-toothed, 72 teeth, one-hand operation via reversing lever for clockwise and counterclockwise use
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, high gloss polish
- · Geometry: box end straight
- Four sizes per ratchet wrench; the most common sizes are covered by only two ratchet wrenches
- 1/4" bit adapter available: simply insert in size 10 mm ratchet wrench, can then be used as a bit ratchet
- Narrow ratchet head for hard-to-reach areas-Packing & Sold in: Each

ltem #	Set (comes in a clear plastic blister pack)	(mm) 💓	Finish
WR071425730	3 pieces	8 x 10 + 12 x 13, 16 x 17 + 18 x 19 Bit adapter: 10 mm 1/4", 20 mm long	Chrome
WR0714257300	3 pieces	8 x 10 + 12 x 13, 16 x 17 + 18 x 19 Bit adapter: 10 mm 1/4", 20 mm long	Black Chromium



WÜRTH LOUIS AND COMPANY • WWW.WURTHLAC.COM • 800-422-4389



MIN.

# **WRENCHES**

# Zebra Double Open-Ended Wrench Assortment - Metric



### Item # WR0965900404

### 8 Pieces

### **Contents:**

### Size (in mm)

- 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22
- Includes foam insert





### Item # WR0965900403

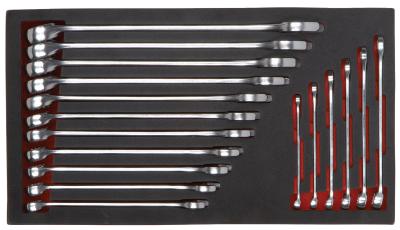
### **11 Pieces**

### Contents:

### Size (in mm)

- 8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 22
- Includes foam insert

# Zebra Combination Wrench Assortment - Metric



### Item # WR0965900401

### **17 Pieces**

### **Contents:**

- Size (in mm)
  6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22
- Includes foam insert



# ALLEN KEYS

A

B

C

D

E

F

# Zebra Allen Keys, Long Version



•	Long	version
---	------	---------

• Bright nickel-plated

• Chamfered front edges Packing & Sold In: Each

ltem #	<b>O</b> (mm)	L1 (mm)	L2 (mm)
WR07153118	2.5	115	21
WR07153119	3.0	129	23
WR07153120	4.0	144	29
WR07153121	5.0	165	33
WR07153122	6.0	186	38
WR07153123	7.0	197	41
WR07153124	8.0	208	44
WR07153125	9.0	219	47
WR07153126	10.0	234	50
WR07153127	11.0	238	53
WR07153128	12.0	262	57
WR07153129	14.0	294	70
WR07153130	17.0	337	80

# Zebra Allen Keys, Short Version

<b>ZEBRA</b> ' QUALITY

ltem #	<b>O</b> (mm)	L1 (mm)	L2 (mm)
WR07153135	1.5	47	16
WR07153136	2.0	52	18
WR07153137	2.5	59	21
WR07153138	3.0	66	23
WR07153139	4.0	74	29
WR071531391	4.5	80	31
WR07153140	5.0	85	33
WR071531401	5.5	90	35
WR07153141	6.0	96	38
WR07153142	7.0	102	41
WR07153143	8.0	108	44
WR07153144	9.0	114	47
WR07153146	11.0	129	53
WR07153147	12.0	137	57
WR07153148	14.0	154	70
WR071531481	16.0	168	73
WR07153149	17.0	177	80
WR07153150	19.0	199	89
WR07153151	22.0	222	102

- Short version
- Bright nickel-plated
- Chamfered front edges

Packing & Sold In: Each



11111

ZEBRA QUALITY

# **ALLEN KEYS**

# Zebra Allen Key Assortments





Long version

- 9 pieces, in plastic holder, short version
- Bright nickel-plated
- Chamfered front edges

ltem #	Set	O <sub>Contents (mm)</sub>
WR071531100	9-pcs	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10

- 10 pieces, in plastic holder, short version
- Bright nickel-plated
- Chamfered front edges

ltem #	Set	O Contents (mm)
WR071531110	10-pcs	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12

- 9 pieces, in plastic holder, long version
- Bright nickel-plated
- Chamfered front edges

Item #	Set	O Contents (mm)
WR071531120	9-pcs	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10

# Zebra Torx Allen Key Assortment



- 8 pieces, in plastic holder
- TX socket
- Round blade
- Bright nickel-plated

ltem #	Set	Contents
WR071536100	8-pcs	TX 9, 10, 15, 20, 25, 27, 30, 40

ZEBRA QUALITY



OUALITY

# SCREWDRIVERS

ZEBRA Pistol Grip Ratchet Screwdriver with 6 Bit Magazine (Bits Not Included)

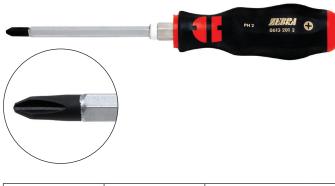


### High-performance ratchet screwdriver

- 3-position adjustment wheel, adjustable with one hand, easy to change direction while working without using the other hand
- Magnet ensures a secure grip on bits and screws
- 45 teeth, max. torque of up to 40 Nm
- 2K grip for optimum ergonomic work
- Can be used as a standard screwdriver in the straight position or as a pistol grip in the 60° position thanks to the adjustable handle LED technology
- Working area is always well lit, lights the screw directly
- Especially suitable for dark areas
- Blade: Short bit holder blade with magnet, brushed chrome-plated
- Output: DIN 3126-D 6.3
- Sealing cap with bit magazine for a total of 6 bits (bits not included)
   Packing & Sold In: Each

Item #	(in.)	A1 (mm)	A2 (mm)	A3 (mm)	B (mm)	C (mm)	D (mm)
WR06136400	1/4"	10	37	40	25	26	113

# **ZEBRA 3K Hex Blade Phillips Head Screwdriver**



# Flexible 3K handle ensures perfect ergonomics, force transmission and working comfort



### Screwdriver, Phillips Head

- Blade: One-piece hexagon blade, brushed chrome-plated; wrench adapter matte nickel-plated, tempered, impact-resistant
- Würth color coding system
- Large impact cap
- Tip: DIN 5260-PH, ISO 8764-PH with black point tip Packing & Sold In: Each

	0			$\bigcirc$	
ltem #		A (mm)	B/C (mm)	(mm)	(in.)
WR06132011	PH 1	80	96/31	5/8	3 1/8"
WR06132012	PH 2	100	106/35	6/10	4"
WR06132013	PH 3	150	114/38	8/13	6"

U - 40

Y



# **SCREWDRIVERS**

# **ZEBRA 3K Hexagon Blade Slotted Head Screwdriver**



Flexible 3K handle ensures perfect ergonomics, force transmission and working comfort.

### Screwdriver, flat slotted

- Blade: One-piece hexagon blade, brushed chrome-plated; torque adjustment matte nickel-plated, tempered, impact-resistant
- Large impact cap
- Output: DIN 5264-A, ISO 2380 with black point tip

Packing & Sold In: Each

ltem #	а в (mm)	A (mm)	B/C (mm)	(mm)	►♡ ব \ (in.)
WR0613200035	0.6 x 3.5	80	83/27	4/-	1/8 x 3 1/16"
WR0613200045	0.8 x 4.5	90	96/31	5/8	3/16 x 3 3/5"
WR0613200055	1.0 x 5.5	100	96/31	6/10	7/32 x 4"
WR061320007	1.2 x 7.0	125	106/35	6/10	9/32 x 5"
WR061320009	1.6 x 9.0	150	114/38	8/13	11/32 x 6"
WR061320010	1.6 x 10.0	175	114/38	8/13	3/8 x 7"
WR061320012	2.0 x 12.0	200	114/38	10/16	1/2 x 8"

# **ZEBRA 3K Slotted and Phillips Head Screwdriver Set - 5 Pieces**



- 5 pieces, with three slotted and two Phillips head screwdrivers for the automotive and metalwork trades
- Flexible 3K handle ensures perfect ergonomics, power transmission and working comfort
- Impact caps
- Packing & Sold In: Each

ltem #	Contents	•		
WR06139015	5-pc. set	1.0x5.5 / 1.2x7.0 / 1.6x9.0 mm	PH 1	PH 2



# ZEBRA® 3K HANDLE

The flexible 3-component handle ensures an optimal, sensitive seat in the hand and allows connection with the robust design also the highest power transmission.

ZEBRA



# **SCREWDRIVERS**

A

B

С

D

E

F

Η

П

J

L

M

Ν

0

Ρ

Q

R

S

Т

U

V

W

X

Y

# **ZEBRA 3K Torx Screwdriver Set (6 Pieces)**



# **ZEBRA Slotted Screwdriver - Round Blade**



- Item # WR06139036 6 piece set
- 6 pieces, with flexible 3K handle for perfect ergonomics, power transmission and operating comfort
- Blade: Round, brushed chrome-plated
- Tip: TX socket with black point tip
- Würth color coding system
- · Screw symbol printed on handle end for quick identification

Packing & Sold In: Each

0			A
	A (mm)	B/C (mm)	(in.)
TX 8	60	00/07	2 3/8"
TX 10	90	83/27	2.1./01
TX 15	80	04/21	3 1/8"
TX 20	100	96/31	411
TX 25	100	104/25	4"
TX 30	115	106/35	4 9/16″

- Round blade
- Blade: Matte chrome-plated
- Tip: DIN 5264-A, ISO 2380, black point tip
- Standard: DIN 5265
- Packing & Sold In: Each

ltem #		A (mm)	B/C (mm)	(in.)
WR061323103	0.5 x 3.0	80	73/20	1/8" x 3 1/8"
WR0613231065	1.2 x 6.5	150	106/35	1/4" x 6"
WR061323110	1.6 x 10.0	200	114/38	3/8" x 8"

# **ZEBRA Slotted Screwdriver - Round Blade, Short**



- Round blade, short
- Blade: Matte chrome-plated
- Tip: DIN 5264-A, ISO 2380, black point tip
- Standard: DIN 5265

Packing & Sold In: Each

Item #	A B	A (mm)	B/C (mm)	(in.)
WR061325108	1.2 x 8.0	25	62/31	5/16 x 1"



ZEBRA QUALITY







ZEBRA

# **SCREWDRIVERS**

# ZEBRA Slotted Screwdriver - Hexagon Blade, Impact Cap, Wrench Adapter

- Hexagon blade, impact cap
- Large impact cap
- Tip: DIN 5264-A, ISO 2380, black point tip
- Wrench adapter
- Packing & Sold In: Each

					A
ltem #		A (mm)	B/C (mm)	(mm)	(in.)
WR0613321045	0.8 x 4.5	90	96/31	5/8	3/16 x 3 3/5"
WR0613321055	1.0 x 5.5	100	90/31	4 / 10	7/32 x 4"
WR061332107	1.2 x 7.0	125	106/35	6/10	9/32 x 5"
WR061332109	1.6 x 9.0	150	114/20	0 / 10	11/32 x 6"
WR061332110	1.6 x 10.0	175	114/38	8/13	3/8 x 7"
WR061332112	2.0 x 12.0	200	120/40.5	10/14	1/2 x 8"
WR061332114	2.5 x 14.0	250		10/16	9/16 x 10"

# ZEBRA Slotted Screwdriver - Hexagon Blade, Wrench Adapter

- Hexagon blade and wrench adapter
- Blade: Matte chrome-plated
- Tip: DIN 5264-A, ISO 2380, black point tip

Packing & Sold In: Each

ltem #				$\bigcirc$	A Y
	A B	A (mm)	B/C (mm)	(mm)	(in.)
WR0613421035	0.6 x 3.5	80	83/27	4 / -	1/8 x 3 1/16"
WR0613421004	0.8 x 4.0	90	04 /21	E / 0	5/32 x 3 5/8"
WR0613421055	1.0 x 5.5	100	96/31	5/8	7/32 x 4"
WR0613421065	1.2 x 6.5	125	106/35	6/10	1/4 x 5"
WR061342108	1.6 x 8.0	150	114/20	0 / 12	5/16 x 6"
WR061342110	1.6 x 10.0	175	114/38	8/13	3/8 x 7"
WR061342112	2.0 x 12.0	200	120/40.5	10/16	1/2 x 8"

# ZEBRA Slotted Screwdriver - Hexagon Blade, Laser-cut Tip

- Laser-cut tip, hexagon blade
- Ultra-secure seating of screwdriver in screw head
- Better screw grip for improved torque transfer
- Improved safety and less damage to screws and sensitive surfaces with less slippage
- No repeated placement when screwing
- Blade: Brushed chromium-plated
- Tip: DIN 5264-A, ISO 2380, laser-cut tip, Black Point Tip

Packing & Sold In: Each



Laser-cut tip profile Laser-cut blade tip for a sharp-edged surface structure

				$\bigcirc$	
Item #	(mm) <sup>ABB</sup>	A (mm)	B/C (mm)	(mm)	(in.)
WR0613424035	0.6 x 3.5	75	83/27	A /	1/8 x 3 1/16"
WR061342404	0.8 x 4.0	90	04 (21	4 / -	5/32 x 3 5/8"
WR0613424055	1.0 x 5.5	100	96/31	5/8	7/32 x 4"
WR0613424065	1.2 x 6.5	125	106/35	6/10	1/4 x 5"
WR061342408	1.6 x 8.0	150	114/20	0 / 10	5/16 x 6"
WR061342410	1.6 x 10.0	175	114/38	8/13	3/8 x 7"

# 800-422-4389 • WWW.WURTHLAC.COM • WÜRTH LOUIS AND COMPANY



# A B С D E F G Н П J Κ L Μ Ν 0 Ρ Q R S Т U V W X Y

# SCREWDRIVERS





- Hexagon blade, impact cap, wrench adapter
- Large impact cap
- Tip: DIN 5260-PH, ISO 8764-PH, black point tip
- Standard: DIN 5262, SMS SS 2831

Packing & Sold In: Each



	•				
ltem #		A (mm)	B/C (mm)	(mm)	(in.)
WR0613322	1 PH 1	80	96/31	5 / 8	3 1/8"
WR06133222	2 PH 2	100	106/35	6/10	4"
WR06133223	3 PH 3	150	114/38	8 / 13	6"
WR06133224	4 PH 4	200	120/40.5	10/16	8"

# ZEBRA Phillips Head Screwdriver - Round Blade - Short



- Round blade, short
- Blade: Matte chrome-plated
- Tip: DIN 5260-PH, ISO 8764-PH, black point tip
- Standard: DIN 5262, SMS SS 2831 Packing & Sold In: Each



	0				
ltem #		A (mm)	B/C (mm)	(in.)	
WR06132521	PH 1	0.5	(0/01	1.0.44	
WR06132522	PH 2	25	62/31	1 3/4"	

# **ZEBRA Phillips Head Screwdriver - Round Blade**



- Round blade
- Blade: Matte chrome-plated
- Tip: DIN 5260-PH, ISO 8764-PH, black point tip
- Standard: DIN 5262, SMS SS 2831
- Packing & Sold In: Each

	0			
ltem #		A (mm)	B/C (mm)	(in.)
WR061323201	PH 1	80	96/31	3 1/8"
WR061323202	PH 2	100	106/35	4"
WR061323203	PH 3	150	114/38	6"
WR061323204	PH 4	200	120/41	8"



U - 44



# **SCREWDRIVERS**

# ZEBRA Phillips Head Screwdriver - Hexagon Blade - Wrench Adapter



- Hexagon blade, wrench adapter
- Blade: Matte chrome-plated
- Tip: DIN 5260-PH, ISO 8764-PH, black point tip Packing & Sold In: Each

Item #	•				A
		A (mm)	B/C (mm)	(mm)	(in.)
WR06134221	PH 1	80	96/31	5/8	3 1/8"
WR06134222	PH 2	100	106/35	6/10	4"
WR06134223	PH 3	150	114/38	8 / 13	6"
WR06134224	PH 4	200	120/40.5	10/16	8"

# ZEBRA Phillips Head Screwdriver -Laser-cut Tip - Hexagon Blade -Wrench Adapter

Laser-cut tip profile



Laser-cut blade tip for a sharp-edged surface structure

- Laser-cut tip, hexagon blade, wrench adapter
- Ultra-secure seating of screwdriver in screw head
- Better screw grip for improved torque transfer
- Less slippage means improved safety as well as less damage to screws and sensitive surfaces
- No repeated placement when screwing
- Blade: Brushed chrome-plated
- Tip: DIN 5260-PH, ISO 8764-PH, laser-cut tip, black point tip Packing & Sold In: Each

	•			$\bigcirc$	
ltem #		A (mm)	B/C (mm)	(mm)	(in.)
WR06134251	PH 1	80	96/31	5/8	3 1/8"
WR06134252	PH 2	100	106/35	6/10	4"
WR06134253	PH 3	150	114/38	8 / 13	6"

# **ZEBRA Torx Screwdriver - Round Blade**



- Blade: Round blade, matte chrome-plated
- Tip: TX socket, black point tip Packing & Sold In: Each

ltem #		Blade Length (mm)
WR061343410	TX 10	80
WR061343415	TX 15	00
WR061343420	TX 20	100
WR061343425	TX 25	100
WR061343427	TX 27	115
WR061343430	TX 30	115
WR061343440	TX 40	120
WR061343445	TX 45	130

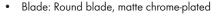
# 800-422-4389 • WWW.WURTHLAC.COM • WÜRTH LOUIS AND COMPANY

ZEBRA QUALITY



# SCREWDRIVERS

# ZEBRA Torx Screwdriver - Round Blade - Long Length



• Tip: TX socket, black point tip

Packing & Sold In: Each



	$\mathbf{\hat{\mathbf{C}}}$			
Item #		A (mm)	B/C (mm)	(in.)
WR061346410	TX 10		83/27	
WR061346420	TX 20	250	96/31	10"
WR061346430	TX 30		106/35	



# ZEBRA Screwdriver Set - Round Blade - Phillips/ Slotted head - 6 Pieces



### Item # WR061392326 6 piece set

0.6 x 3.5 x 100 mm, 1.0 x 5.5 x 125 mm, 1.2 x 6.5 x 150 mm, 1.2 x 8.0 x 175, PH1, PH2
 Packing & Sold In: Each

### Includes:

(mm) <b></b>	•
0.6 x 3.5 x 100	PH 1
1.0 x 5.5 x 125	PH 2
1.2 x 6.5 x 150	
1.2 x 8.0 x 175	

# ZEBRA Screwdriver Set - Hexagon Blade - Phillips/Slotted head -With Wrench Adapter- 6 Pieces



### Item # WR061394226 6 piece set

- Hexagon blade and wrench adapter for automotive and metalwork trades
- Blade: Brushed chrome-plated
- 1 each of slotted screwdriver with hexagon blade and torque adjustment
- 0.6 x 3.5 x 75; 1.0 x 5.5 x 100; 1.2 x 6.5 x 125; 1.6 x 8.0 x 150
- 1 each of PH screwdriver with hexagon blade and torque adjustment PH 1; PH 2

Packing & Sold In: Each

### Includes:

Item #	(mm) 🛑	ltem #	•
WR0613421035	0.6 x 3.5 x 75	WR06134221	PH 1
WR0613421055	1.0 x 5.5 x 100	WR06134222	PH 2
WR0613421065	1.2 x 6.5 x 125		
WR061342108	1.6 x 8.0 x 150		





# **SCREWDRIVERS**

# **ZEBRA Torx Screwdriver Assortment - 7 Pieces**



7 Screwdrivers: TX 10; 15; 20; 25; 27; 30; 40
Foam drawer insert

7 Piece Set Item #: WR0965900502

# **ZEBRA Torx Screwdriver Set 8 Pieces**



- 1 Screwdriver set TX 8 pcs.
- Blade: Round blade, brushed chromium-plated, tip: TX socket, black point tip

### 8 Piece Set

### Item #: WR06139348

0	Blade length (mm)
TX 10	80
TX 15	00
TX 20	100
TX 25	100
TX 27	- 115
TX 30	115
TX 40	120
TX 45	130

# **ZEBRA Multi Screwdriver Assortment - 8 Pieces**



- 6 screwdrivers with one-piece hexagon blade 0.6 x 3.5;
   0.8 x 4.5; 1.2 x 7.0; 1.6 x 9.0; PH1; PH2
- 2 screwdrivers, short, PH1; PH2
- Foam drawer insert

### 8 Piece Set Item #: WR0965900501

Α

B

C

D

E

ZEBRA



T

U

V

W

Х

Υ



# A SCREWDRIVERS

С

D

Ε

F

G

Н

Item #

WR0613430310

### ZEBRA Screwdriver with 1/4" Square Tip - Includes Ratchet Adapter • One-piece blade Blade: Round, bright chrome-plated • 0 0) Tip: DIN 3120-A 6.3 • • With ratchet adapter Packing & Sold In: Each В INCLUDES А ► V RATCHET -С А H T ADAPTER!

A (mm)

110



ZEBRA

# ZEBRA Screwdriver with 1/4" Square Tip

(in.)

1/4"

Contractor of the	Statement of the second second	
1/4"	<b>EEBRA</b> 613 430 311 O	
-		

• Blade: Round, bright chrome-plated

4 3/8"

(in.)

• Tip: DIN 3126-D 6.3

B/C (mm)

106/35

Packing & Sold In: Each

				A
ltem #	(in.) <b>U</b>	A (mm)	B/C (mm)	(in.)
WR0613430311	1/4"	110	106/35	4 3/8"

# ZEBRA Screwdriver with 1/4 Inch Bit Chuck



- Blade: Round with magnet
- Head: Bright nickel-plated
- Tip: DIN 3126-D 6.3

Packing & Sold In: Each

	$\bigcirc$			A A V
Item #	(in.)	A (mm)	B/C (mm)	(in.)
WR061343031	1/4"	100	106/35	4"

# ZEBRA Screwdriver with 1/4 Inch Bit Chuck





ZEBRA





### **SCREWDRIVERS** Α B Zebra Ratchet Magazine Screwdriver (Includes 12 Bits) C D A 1/4″ Item # WR06136103 Designation Tip E • Equipped with 12 bits **Included Bits** • Blade: Circular blade with magnet, bright chrome-plated PH 1 F 0 • Tip: DIN 3126-D 6.3 PH 2 • 28 teeth, max. torque over 20 Nm. TX 10 G Magnetic blade mount for 1/4" bits • Advantage of the ratchet function is no need to reposition TX 15 0 hand. This enables fast efficient operation in any TX 20 Н TX 25 assembly situation. Bit magazine for max. 12 bits TX 30 Π • Extendable, rotating magazine lets you Allen 4 mm find the bit you need quickly. Allen 5 mm 0 J • 1/4" bit with color coding system Allen 6 mm Packing & Sold In: Each Max. 12 bits Κ Slotted, 0.6 x 4.5 mm Easy removal of the desired bit L O 1/4" Μ R2 Ν (in.) A (mm) B1/B2 (mm) **C** (mm) 0 Click 1/4" 80 147/207 37.5 Ρ Secure closing thanks to "snap lock" Q **ZEBRA** Mini Ratchet Screwdriver (Includes 11 Bits) ZEBRA 10-piece bit strip + PH2 bit R Bits included (1 each): 2K handle S 1/4" Blade: Short bit holder blade with magnet, bright chrome-plated 5.5 mm Т Tip: DIN 3126-D 6.3 • For high torque applications in 4 mm, 5 mm U tight spaces 0 PH 1, PH 2 Packing & Sold In: Each V TX 10, TX 15, TX 20, TX 25, TX 30 W A1 в Х A2 Υ Item # A (mm) B (mm) C (mm) A2 (mm) (in.) WR061363050 1/4" 26 70 38 20 800-422-4389 • WWW.WURTHLAC.COM • WÜRTH LOUIS AND COMPANY U - 49



ZEBRA QUALITY

# SCREWDRIVERS, T-HANDLE

# ZEBRA T-Handle Hexagon Socket Wrench





- For hexagon head screws
- Blade: Round, chrome-plated
- Tip: DIN 475/2
- Inner bore for protruding threaded shafts
- Standard: DIN 3125
- Packing & Sold In: Each

	0			
ltem #	(mm)	A (mm)	B/C (mm)	A (in.)
WR061312010	10			
WR061312013	13	105	35/104	5"
WR061312016	16	125		5"
WR061312017	17		39/117	
WR061312108	8	200		8"
WR061312110	10	000		0.0 /1 / 1
WR061312113	13	230	25/104	9 3/16"
WR061312208	8		35/104	
WR061312210	10	300		12"
WR061312213	13			

# **ZEBRA T-Handle Socket Wrench Set (5 Pieces)**



### Item # WR061391205 5 piece set



- Blade: Circular, nickel-plated
- Output: DIN 475/2
- Inner bore for protruding threaded shafts
- Standard: DIN 3125 Packing & Sold In: Each
- 0

### Includes:

ltem #	(mm)	Blade Length (mm)
Only available in set	6	
WR061312007	7	
WR061312008	8	125
WR061312010	10	
WR061312013	13	



Y



# SCREWDRIVERS, T-HANDLE

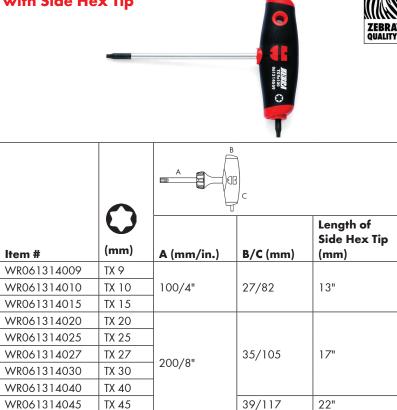
# **ZEBRA T-Handle Torx Head Screwdriver with Side Hex Tip**

- Integrated side tip
- Effortless tightening and loosening of screw connections
- Particularly suitable for rusted and seized screw connections
- High-quality blade
- Matte chrome-plated hexagon blade for optimal corrosion protection and long service life
- High-quality special steel ensures optimal balance of ductility and wear resistance
- One-piece blade
- Resistant even to extremely high stresses
- Multi-component handle comprising solid core and soft casing
- Highly slip-proof special black plastic ensures maximum torque transfer
- Solid core and soft casing ensure rigidity and a secure grip
- Ergonomically adapted handle for a comfortable grip and fatigue-free operation
- Integrated drilled hole for storage on tool rack
- Black point tip
- Higher torque and a precise fit
- Output: For TX socket

Packing & Sold In: Each

# ZEBRA T-Handle Torx Socket Screwdriver Set (6 Pieces)





### Item # WR061391406 6 piece set

- For TX socket, with side output
- Integrated side tip
- Effortless tightening and loosening of screw connections
- High-quality blade
- Matte chrome-plated hexagon blade for optimal corrosion protection and long service life
- Multi-component handle comprising solid core and soft casing
- Highly slip-proof special black plastic ensures maximum torque transfer
- Integrated drilled hole for storage on tool rack.
- Contents: 6 pcs.
- 6 T-handle screwdrivers for TX socket (TX 10, 15, 20, 25, 30, 40) Packing & Sold In: Each

### Includes:

ltem #		Blade Length (mm)
WR061314010	TX 10	100
WR061314015	TX 15	100
WR061314020	TX 20	
WR061314025	TX 25	200
WR061314030	TX 30	200
WR061314040	TX 40	



ZEBR/ QUALITY

CREWDRIVERS, T-HA	NDLE					
<b>ZEBRA T-Handle Ball Head</b>	Tip Screwdriver	with	Side Hexa	gon Tip		
eatures:			f	B		
Integrated side tip		~		E		
High-quality blade		()		C		
One-piece blade			t	7	1	
Multi-component handle comprising		(mm)	A (mm/in.)	B/C (mm)	Length of Side Hex	_
solid core and soft casing	Item #				Tip (mm)	Tip
Black point tip	WR061313005	5	1.50 (/"			
cking & Sold In: Each 🛛 💦 🦲	WR061313006	6	150/6"			
	WR061313008	8		35/105	17	Ball
	WR061313105	5	-			Heo
	WR061313106 WR061313108	6 8	200/8"			Tip
200ELETO 200ELETO	WR061313108	10	-	39/117	22	-
88 B O	VVK001313110	10		39/11/	22	
U		$\cap$		EB C		
O	Item #	(mm)	A (mm/in.)	B/C (mm)	Length of Side Hex Tip (mm)	Tip
	WR0613132025	2.5				
	WR061313203	3		27/82	13	
Soor Line	WR061313204	4	150/6"			
0	WR061313205	5	130/8			
	WR061313206	6		35/105	17	He
	WR061313208	8				He
	WR061313303	3		27/82	13	Tip
	WR061313304	4		27/02	15	
	WR061313305	5	200/8"			
	WR061313306	6	200/0	35/105	17	
	WR061313308	8				
	WR061313310	10		39/117	22	

# ZEBRA T-Handle Hex Blade Screwdriver Set (6 Pieces)

### Item # WR061391306 6 piece set





ltem #	O Contents (mm)	Blade Length (mm)	Тір
WR0613132025	2.5		
WR061313203	3		Hex Head Tip
WR061313204	4	150	
WR061313005	5	150	



Ball Head Tip

U - 52

WÜRTH LOUIS AND COMPANY • WWW.WURTHLAC.COM • 800-422-4389

6

8

WR061313006

WR061313008



А

B

C

D

E

F

G

н

Π

J

Κ

L

Μ

Ν

0

Ρ

Q

R

S

Т

U

V

W

ZEBRA QUALITY

# **SCREWDRIVERS, T-HANDLE**

# ZEBRA T-Handle, Torx Socket Set - In Sheet Steel Rack - 7 Pieces



### Item #: WR06139147 7 piece set

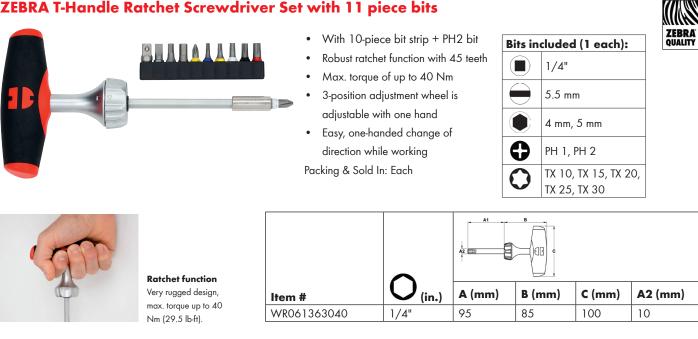
- In sheet steel rack
- Integrated side output
- Effortless tightening and loosening of screw connections
- Particularly suitable for rusted and seized screw connections
- Multi-component handle comprising solid core and soft casing
- Ergonomically adapted handle for a comfortable grip and effortless work
- Integrated drilled hole for storage on tool rack •
- Black Point tip
- Higher torque and a precise fit •
- One-piece blade
- Resistant even to extremely high stresses
- Contents: 7 pieces
- 1 each of T-handle screwdriver TX 10; TX 15; TX 20; TX 25; TX 30; TX 40; TX 45

Packing & Sold In: Each

### Includes:

ltem #	(mm) 🗰	Blade Length (mm)
WR061314010	TX 10	100
WR061314015	TX 15	100
WR061314020	TX 20	
WR061314025	TX 25	
WR061314030	TX 30	200
WR061314040	TX 40	
WR061314045	TX 45	

# **ZEBRA T-Handle Ratchet Screwdriver Set with 11 piece bits**



# 800-422-4389 • WWW.WURTHLAC.COM • WÜRTH LOUIS AND COMPANY



OUALITY

WURTH

# A B C D Ε F G Η Π J Κ L Μ Ν 0 Ρ Q R S Т U V W X Y

Item #

WR071412100

WR07151303

WR061478820

WR061478825

WR061478827 WR061478830

WR061478840

WR061478845

WR061478850

WR061478855

WR0614788120

WR0614788125

WR0614788127

WR0614788130

WR0614788140

WR0614788145

WR0614788150

WR0614788155

# **BITS & ACCESSORIES**

- -

# Item # Drive (in.) Drive Type Tip Size (in.) WR0613713 1/4" Outer Hexagon 1/4" Ratchet Bit Assortment - 38 Pieces Outer Hexagon Induction Image: State of the state of t

Destination

10mm bits

1/2" ratchet

TX 20 with hole

TX 25 with hole

TX 27 with hole

TX 30 with hole

TX 40 with hole

TX 45 with hole

TX 50 with hole

TX 55 with hole

TX 20

TX 25

TX 27

TX 30

TX 40

TX 45

TX 50

TX 55

 $(\mathbf{1})$ 

ZEBRA Ratchet for

ZEBRA Adapter for

Drive

Length

175mm

37mm

30mm

ZEBRA Flexible Bit Holder Length 175mm - 1/4" Drive

# Bit set especially for automobiles and commercial vehicles, 38 pieces

• ZEBRA ratchet for 10 mm bits

Internal Hexagon Socket

Тір Туре

- Additional ZEBRA adapter allows use of a 1/2" ratchet
- Supplied in a metal box with high quality interior foam compartment with clamping effect

Packing & Sold In: Each; Replacement bits sold in multiples of 5 each.

ltem #	Description
WR096512370	Ratchet Bit Set

Length (mm)

175

ltem #	Destination	Drive	Length
WR0614788240	TX 40		
WR0614788245	TX 45	3	120 mm
WR0614788250	TX 50		I 20 mm
WR0614788305	Hexagon socket M5		
WR0614788306	Hexagon socket M6		
WR0614788307	Hexagon socket M7		
WR0614788308	Hexagon socket M8		
WR0614788310	Hexagon socket M10		30 mm
WR0614788312	Hexagon socket M12		
Only Available in Set	Triple Square M5		
WR0614788406	Triple Square M6		
WR0614788408	Triple Square M8	<b>[[]</b>	
WR0614788410	Triple Square M10		30 mm
WR0614788412	Triple Square M12		
Only Available in Set	Triple Square M6		
WR0614788508	Triple Square M8	$\square$	75 mm
WR0614788510	Triple Square M10		/ 3 mm
Only Available in Set	Triple Square M12		
WR0614788902	PH 2		20
WR0614788903	PH 3		30 mm

Ratchet with short 10 mm bit
 1/2" ratchet with adapter



75mm



븢 WüRTH

# **BITS & ACCESSORIES**

# **Drive & Insert Bits**



ltem #	Magnetic	Tip Size	Overall Length	Sold In
Phillips Drive Bits				
WR0614176274	No	#1	1″	1 each
WR0614176461	No	#2	1″	1 each
WU92210	No	#2	1″	1 each
WU92220	No	#2	2"	1 each
WU92230	No	#2	2-3/4"	1 each
WR0614176648	No	#3	1″	1 each
Pozi Drive Bits				
WR0614176652	No	#2	1″	10 each
WR0614176653	No	#3	1″	1 each
Square Drive Bits	i			
LCTBS2X1RS	No	#2	1″	1 each
WU90220	No	#2	2″	1 each
LCTBS2X3RS	No	#2	3″	1 each
WU90240	No	#2	4″	1 each
LCTBS2X6RS	No	#2	6″	1 each
Powerdriv Hex B	its			
WR061417693	No	#3	25mm	1 each
WR061417694	No	#4	25mm	1 each
WR061417695	No	#5	25mm	1 each
WR061417696	No	#6	25mm	1 each
Torx Bits				
WRT20X2	No	T20	2"	1 each

# 븢 WÜRTH

# Painted Square Drive Bits

• Makes it easy to identify the right bit (tip is not painted)



ltem #	Color	Tip Size	Overall Length	Sold In
WU91210	Red	#2	1″	1 each
WU91220	Red	#2	2″	1 each
WU91230	Red	#2	3″	1 each
WU91260	Red	#2	6″	1 each

# **AW<sup>®</sup> ASSY DRIVE Bits**

• For use with ASSY drive screws



ltem #	Tip Size	Overall	Sold In
		Length	
WRAW10	#10 Purple	1″	1 each
WRAW20	#20 Orange	1″	1 each
WRAW20-4	#20 Orange	4″	1 each
WRAW20-6	#20 Orange	6″	1 each
WRAW25	#25 Green	1″	1 each





# **BITS & ACCESSORIES**

# 1/4 Inch Phillips Bit (Hex Quick Change)

Packing & Sold In: Each

-			the second se	H
	the second s	Photosophil and a state of the second	and and an and a second second	Contraction of the local division of the loc

Item #	Designation	Phillips-Head System	Tip	Drive	Length (mm)
WR0614100201		MSVM 2 - Magazine attachment - Makita		1/4″	152
WR0614100111	PH 2	MSVW 1 - Magazine attachment - Wurth / Bosch	U	0	155
WR0614100211	]	MSVW 2 - Magazine attachment - Wurth / Bosch			168
WR0614100212		S50-TB - Magazine screw attachment - Wurth/Kress/Eibenstock			176.5



# Insert Bit Holder with Quick Change Chuck

• A slight forward motion of the locking sleeve unlocks the bit for a quick change

ltem #	Overall Length	
Magnetic		
WU99010	2-1/4″	
WR614176708	3″	
Non-Magnetic		
WR0614176711	2″	



WURTH S

# Insert Bit Holder, Magnetic,

### **One Touch Release**

- Soft push on the button, the bit will shoot forward due to the internal spring for easy removal
- Stainless steel housing

Item #	
WR0614176638	



# Insert Bit Holder, Magnetic

• High energy magnet helps alleviate the problem of lost bits

WÜRTH

🖶 WÜRTH

ltem #	Overall Length	Brand
WR0614176702	3″	Wurth







WURTH

**WURTH** 

# **BITS & ACCESSORIES**



0:0:0:0:0 0:0:0:0:0 0:0:0:0 0:0:0:0

0:0:0:0

# **Right Angle Drill Attachment, Magnetic,** 1/4" Bit Mount with Quick Change Chuck



- Specially hardened steel enables maximum torque, with a maximum speed of 2,000 RPM's
- Secure hold and 360° step-free adjustable handle
- Compact design is perfectly suited for screwing in cramped and hard-to-reach places



# **Magnetic Universal Bit Assortment** (90 Pieces)

- Includes standard drive styles and safety screws, 1/4" drive magnetic ratchet adapter and sturdy metal box
- Comes in foam insert to keep the bits nicely organized

### ltem # WR0614250500

# **ZEBRA Universal Bit Assortment (105 Pieces)**

0:0:0:0:0:0 0:0:000:0 0:0:0

0000







### Item # WR0614250300 105 piece set

Comprehensive 1/4" bit assortment with the most common standard and security bits in short and long versions

- A majority of the bits are for security screws. Used wherever unauthorized loosening is to be prevented
- Includes two bit adapters and one screw hook •
- The solution for virtually all screw types
- In sturdy metal box with foam insert

### Areas of Application:

Public facilities, motor vehicle and motorcycle sector, plumbing applications, construction industry, electrical, electronics and machine sector ZEBRA



# A RATCHETS

# ZEBRA Ratchet with Rotary Disc Reverse





Item #	Description	Tip Size	Length (mm)
WR07120140	Ratchet with rotary disc	1/4"	138
WR07120380	reverse	3/8"	175
WR07120120		1/2″	250

# ZEBRA 1/4 Inch Ball-Head 3-in-1 Ratchet



### **Rotary Disc Reverse**

# Fine tooth rotary disc with 72 teeth; 5° angle of rotation

- Compact, narrow head
- Simple changeover from clockwise to counterclockwise rotation
- Chamfered square easier removal of socket wrench inserts
- Offset ratchet body for more hand freedom
- Packing & Sold In: Each



ZEBRA

- Multi-functional spherical ratchet with adjustable handle
- Drive: 6.3 1/4"
- Standard: DIN 3122, ISO 3315
- Head: 72 teeth, angle of rotation: 5°, joint can be rotated 270°
- Handle: Two-component handle, straight or adjustable 90° as T-handle
- Packing & Sold In: Each

ltem #	Length	Ratchet head	Ratchet
	(mm)	height (mm)	diameter (mm)
WR071201405	145	26.5	20

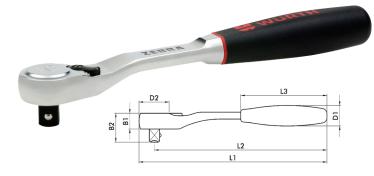


T-handle!



# RATCHETS

# **ZEBRA 1/4 Inch Lever Reversible Ratchet, Dust Protected**



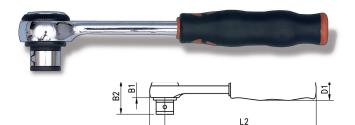
Dust-protected ratchet for a long service life even under difficult working conditions

- Standard: DIN 3122, ISO 3315 •
- Reversing lever for clockwise and counterclockwise rotation •
- Geometry: Ratchet body with depressed center for more . freedom of movement
- Material: Chrome-vanadium steel •
- Grip Handle Material: 2-component plastic •
- With 72 teeth, 5° angle of rotation •

Packing & Sold In: Each

ltem #	Tip Size	L1 (mm)	L2 (mm)	L3 (mm)	B1 (mm)	B2 (mm)	D1 (mm)	D2 (mm)
WR071201403	1/4″	136	125	61	13	22	16	21
WR071203803	3/8"	177	160	79	16	29	21	29
WR071201203	1/2"	253	240	115	19	36	26	38

# ZEBRA 10 mm Ratchet Tool



# **Features:**

- Head: 72 teeth, swivel angle 5°, round, compact head
- Shaft: Chrome-plated, high-grip 2-component handle ٠ Packing & Sold In: Each

Standard: DIN 3122, ISO 3315

be used in any desired position

Joint: Rotatable through 180°, head can

Flexible operation even in obstructed areas Powerful breaking and tightening ability

**Features:** 

Chrome-plated

•

•

Item #	Destination	Drive	L1 mm	L2 mm	B1 mm	B2 mm	D1 mm	D2 mm	Length
WR071412100	Ratchet for 10mm bits	0	175	160	19	33	26	20	175mm
WR07151303	Adapter for 1/2" ratchet	0	-	-	-	-	-	-	37mm

# ZEBRA 1/2 Inch Jointed Handle

•	- 20-2 (1997) - 1997 - 1997 - 1997	

11

			Packing & Sold In: Each			
Item #	Length (mm)	Tip size (in.)	Handle diameter (mm)	Width of head (mm)		
WR0712130102	490	1/2"	35	20		

ZEBRA

ZEBRA QUALITY

A

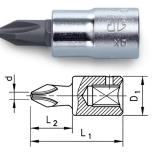
B

С

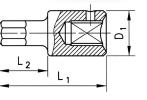
D

# ZEBRA 1/4 Inch Socket Bits

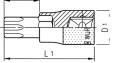












- Socket Wrench, Slotted
  - Surface: Chrome-plated, polished/matte
  - Drive: 1/4" square socket, ball catch groove
- Tip: DIN 5264, slotted
- Packing & Sold In: Each



WURTH

ltem #		L1 (mm)	L2 (mm)	D1 (mm)
WR071511735	0.6 x 3.5			
WR071511755	1.0 x 5.5	20	10	10
WR071511765	1.2 x 6.5	32	12	12
WR071511780	1.2 x 8.0			

- Socket Wrench, Phillips
- Surface: Chrome-plated, polished/matte
- Drive: 1/4" square socket, ball catch groove
- Tip: ISO 8764-PH Packing & Sold In: Each

• Output: For hexagon socket, DIN 7422

Drive: 1/4" square socket, ball catch groove

Tip: For TX screws Packing & Sold In: Each

Packing & Sold In: Each

Item #	(mm) 🔂	L1 (mm)	L2 (mm)	D1 (mm)
WR071511801	PH 1	32	12	12
WR071511802	PH 2			
WR071511803	PH 3			

- Socket Wrench, Hexagon
- Surface: Chrome-plated, polished/matte
- Drive: 1/4" square drive, ball catch groove

ltem #	mm 🔵	L1 (mm)	L2 (mm)	D1 (mm)
WR071511503	3			
WR071511504	4	]		
WR071511505	5	20	10	10
WR071511506	6	32	12	12
WR071511507	7			
WR071511508	8			

- Socket Wrench, Torx
- Surface: Chrome-plated
- Item # (mm) 🖲 L1 (mm) L2 (mm) D2 (mm) WR071511310 2.72 10 WR071511315 3.26 15 WR071511320 3.84 20 WR071511325 25 4.40 32 12 12 WR071511327 4.96 27 WR071511330 5.49 30 WR071511340 40 6.60

•

•



ZEBRA QUALITY







ZEBRA

ZEBRA

W

X

Υ

# **SOCKETS**

# ZEBRA 1/4 Inch Extension



I	-	L	

# ZEBRA 1/2 Inch Angled Extension



•	Surface:	Chrome-plated,	polished
---	----------	----------------	----------

• Drive: 1/4" square drive, ball catch groove Packing & Sold In: Each

ltem #	Length (mm)	D1 (mm)	D2 (mm)
	Lengin (iiiii)		
WR0713118101	25		
WR0713118102	53		
WR0713118104	101	12	8.3
WR0713118106	152		
WR0713118110	250		

### Item #: WR0712138100

- For working in hard-to-reach places
- Standard: DIN 3123, ISO 3316
- Surface: Chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: 1/2" square head
- Length: 50 mm
- Angular movement of up to 8"
- Tip: 1/4" square head
- Packing & Sold In: Each

### ZEBRA 3/8 Inch Extension



### Item #: WR0713128105

• Standard: DIN 3123, ISO 3316

• Standard: DIN 3123, ISO 3316

Surface: Chrome-plated

Tip: 1/2" square head

Packing & Sold In: Each

•

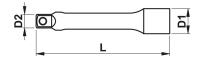
- Surface: Chrome-plated
- Drive: 3/8" square socket, ball catch groove

Drive: 1/2" square socket, ball catch groove

- Tip: 3/8" square head
- Length: 125 mm
- Packing & Sold In: Each

**ZEBRA 1/2 Inch Extension** 





ltem #	Length (mm)	D1 (mm)	D2 (mm)
WR0712138102	53		
WR0712138103	75		1.5
WR0712138105	125	23	15
WR0712138110	250		
WR0712138118	457		17



# SOCKETS

A

B

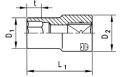
С

D

Ε

# ZEBRA 1/2 Inch PowerDriv (12-Point) Socket





### Metric, short

- Standard: DIN 3124, ISO 2725
- Surface: Chrome-plated, ground/matte
- Drive: 1/2" square socket, ball catch groove
- Tip: POWERDRIV®

Packing & Sold In: Each

ltem #	(mm) 🏶	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)
WR0712133108	8		12.9		7
WR0712133109	9		14		8
WR0712133110	10		15.4		
WR0712133111	11		16.6		10
WR0712133112	12		17.9	21.9	
WR0712133113	13		19.1		
WR0712133114	14	36	20.4		
WR0712133115	15		21		11
WR0712133116	16		22.5		
WR0712133117	17		24	23.2	1
WR0712133118	18		25.4	23.5	
WR0712133119	19		26.5	24.7	16
WR0712133120	20		27.9	25.5	
WR0712133121	21		28.5	26	
WR0712133122	22		29.9	26.5	]
WR0712133123	23	38	31.2	27.7	19
WR0712133124	24		32	29	1
WR0712133126	26		35	31.5	1
WR0712133127	27		36	32.2	
WR0712133128	28	44	37.7	33.5	
WR0712133130	30	44	40	36	24
WR0712133132	32		42	38.1	
WR0712133134	34	47	45.5	40	25
WR0712133136	36	50	48	42	28.5

# ZEBRA 1/2 Inch Socket Bits - Torx



- Torx, short
- Design: Short
- Surface: Chrome-Plated
- Drive: 1/2" square socket, ball catch groove
- Tip: For TX screws

Packing & Sold In: Each

Item #	(mm) 🔿	L1 (mm)	L2 (mm)	D1 (mm)
WR071513320	20			
WR071513325	25			
WR071513327	27			
WR071513330	30			
WR071513340	40			22.5
WR071513345	45	60	20	
WR071513350	50			
WR071513355	55			
WR071513360	60			
WR071513370	70			25
WR071513380	80			28
WR0715133100	100	80	42	26



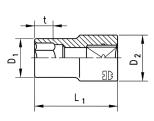
ZEBRA QUALITY



# SOCKETS

# ZEBRA 1/2 Inch PowerDriv (Hexagon) Socket





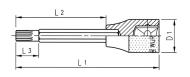
- Metric, long
- Surface: Chrome-plated, polished/matte
- Drive: 1/2" square socket, ball catch groove
- Tip: **POWERDRIV**® (Hexagon)

Packing & Sold In: Each

ltem #	(mm)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)
WR0712132310	10		15.4		
WR0712132311	11	]	16.6		
WR0712132312	12	]	17.9	21.8	25.0
WR0712132313	13	-	19.1		
WR0712132314	14		20.4		
WR0712132315	15		21.6	21.6	
WR0712132316	16	1	22.6	22.6	]
WR0712132317	17		24.1	24.1	-
WR0712132318	18	]	25.4	25.4	
WR0712132319	19		26.5	26.5	]
WR0712132320	20	- 77	27.8	27.8	1
WR0712132321	21	]	28.2	28.2	7
WR0712132322	22		29.7	29.7	35.5
WR0712132323	23	]	31.2	27.0	]
WR0712132324	24		31.7	27.0	
WR0712132326	26		35.4		]
WR0712132327	27	•	35.7	33.0	
WR0712132328	28		37.6	]	
WR0712132330	30	1	39.8	33	1
WR0712132332	32	]	41.9	34	7

# ZEBRA 1/2 Inch Torx Socket Bits, Long





Packing & Sold In: Each					
Item #	(mm) 🜔	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)
WR071513430	30	120		12.5	
WR071513440	40	1			
WR071513445	45	1	80		0.00 5
WR071513450	50			-	22.5
WR071513455	55	140			
WR071513460	60	1	100		
WR071513470	70	1			25

Drive: 1/2" square socket, ball catch groove

ZEBRA

Torx, long

• Tip: For TX screws

Surface: Chrome-plated

•

•

•

A

В

C

D

Ε

F

G

Η

П

J

Κ

L

Μ

Ν

0

# ZEBRA 1/2 Inch Socket Bits

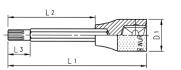


L 1

- ٠ Hexagon
- Surface: Chrome-plated, polished/matte ٠
- Drive: 1/2" square socket, • all catch groove
- DIN 7422

Packing & Sold In: Each.





Item #	(mm) <b>O</b>	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)
WR0715137040	4			6	
WR0715137051	5	60	20	7.5	
WR0715137060	6	]		9	
WR0715137062	6	140	100	9	
WR071513707	7	40	20	10.5	
WR0715137080	8	60	20		22.5
WR0715137082	8	140	100	1	
WR0715137100	10	60	20		
WR0715137102	10	140	100		
WR0715137120	12	60	20	] -	
WR0715137122	12	140	100		
WR071513714	14	40	20	]	25
WR071513717	17	60	20		28

12-Point, Short

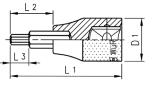
- Surface: Chrome-plated
- Drive: 1/2" square socket, ball catch groove •

Packing & Sold In: Each

ltem #	(mm) 🔘	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)
WR071513805	5			4	
WR071513806	6	60	20	5	
WR071513808	8				
WR0715138081	8	100	60		22.5
WR071513810	10	60	20		
WR0715138101	10	100	40	6	
WR0715138121	12	100	100 60		
WR071513814	14	40	20		25
WR0715138160	16	60	20		28

# ZEBRA 1/2 Inch Hexagon Socket Bit, Short





- Standard •
- Surface: Chrome-plated, polished/matte •
- Drive: 1/2" square socket, ball catch groove





ZEBRA

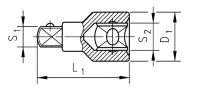
Item #	(in.) O	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)
WR071513751	7/32			8.34	
WR071513752	1/4		20	9.53	22.5
WR071513754	3/8	60			
WR071513756	1/2			-	





# **ZEBRA Step-Down/Up Sockets**





- Standard: DIN 3123, ISO 3316 •
- Surface: Chrome-plated, polished
- Material: Steel •
- Packing & Sold In: Each

ltem #	52 (in)	\$1 (in)	L1 (mm)	D1 (mm)
WR0713118401	1/4"	3/8"	24	12.5
WR0713128401	3/8″	1/4″	27	17
WR0713128402		1/2″	36	20
WR0712138401	1/2″	3/8″	38	23
WR0712138402		3/4″	44	25
WR071514108	3/4″	1/2″	53.5	34

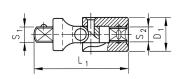
# **Zebra Universal Joints**







- Surface: Chrome-plated, polished •
- Remains in specified position
- Packing & Sold In: Each



ltem #	S2 (in)	\$1 (in)	L1 (mm)	D1 (mm)
WR0713118301	1/4″	1/4″	33	14
WR0713128301	3/8"	3/8"	55	17.5
WR0712138301	1/2"	1/2"	70	25



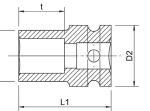
A

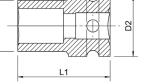
ZEBRA' QUALITY



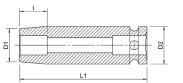
# 1/2 Inch Impact Sockets











- Metric, short •
- For use with electric or pneumatic screwdrivers and impact tools
- Standard: DIN 3129, DIN 3121/ISO 1174 ٠
- Design: Forged, burnished •
- Drive: Square socket 1/2" •
- Tip: Hexagon •

Packing & Sold In: Each

ltem #	(mm) 🜘	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)
WR07141302	9.5		17		12
WR07141303	10	]			10
WR07141304	12		20	25	10
WR07141305	13		21	]	12
WR07141306	14		22.5		12
WR07141307	15	38	23		13.5
WR071413071	16		25	30	12
WR07141308	17		26		12.5
WR071413081	18		27.3		13.5
WR07141309	19		28.5		15
WR071413091	21		30		14
WR07141310	22		32		14.5
WR07141311	24		34		17
WR07141312	27	42	38	]	20
WR07141330	30	42	42		19
WR07141332	32		44		20
WR07141334	34	44	46		21.5
WR07141336	36	48	49		18.5

- Metric, long •
- For use with electric or pneumatic screwdrivers and impact tools •
- Standard: DIN 3129, DIN 3121/ISO 1174 •
- Design: Forged, burnished •
- Drive: Square socket 1/2" •
- Tip: Hexagon •

Packing & Sold In: Each

Item #	(mm) 🜘	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	
WR07141313	13		20.5	25	17	
WR071413131	16	]	24			
WR07141314	17		26	- 30	23	
WR071413142	18	78	27.3			
WR07141315	19		28			
WR071413151	21		30			
WR07141316	22		32			
WR07141317	24		34		30	
WR07141318	27		38		30	



5

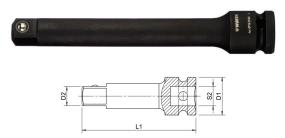
Y



WURTH

# SOCKETS

# 1/2 Inch Impact Extensions



• For use with electric or pneumatic screwdrivers and impact tools

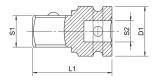
- Standard: DIN 3121/ISO 1174
- Design: Forged, burnished
- Drive: Square socket 1/2"
- Tip: External square drive 1/2", with ball lock

Packing & Sold In: Each

ltem #	S2 (in)	L1 (mm)	D1 (mm)	D2 (in)
WR07141322	1/2"	75	25	1/2"
WR07141323	1/2"	150	25	1/2"

# Impact Step-Up Socket - 1/2 Inch to 3/4 Inch







WURTH

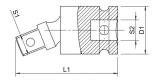
- For all electrical or compressed air-driven screwdrivers and impact tools
- Drop-forged steel guarantees high breaking and wear resistance
- Standard: DIN 3121/ISO 1174
- Design: Forged, burnished
- Drive: 1/2" square socket
- Tip: 3/4" square head

Packing & Sold In: Each

ltem #	S2 (in)	S1 (in)	L1 (mm)	D1 (mm)
WR07141328	1/2"	3/4"	48	30

# 1/2 Inch Impact Universal Joint





•	For use with	electric or	pneumatic	screwdrivers	and	impact	tool	s
---	--------------	-------------	-----------	--------------	-----	--------	------	---

- Standard: DIN 3121/ISO 1174
- Design: Forged, burnished
- Drive: square socket 1/2"
- Tip: External square drive 1/2", with ball lock Packing & Sold In: Each

ltem #	S2 (in)	S1 (in)	L1 (mm)	D1 (mm)
WR0714138351	1/2"	1/2"	63	30



A

B

C

D

E

F

G

Η

J

Κ

L

Μ

Ν

0

P

Q

R

S

T

U

V

W

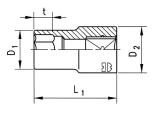
X

Y

# ZEBRA 1/4 Inch Multi-Sockets







- 12-Point
- Surface: Chrome-plated, polished
- Drive: 1/4" square socket
- Tip:12-point
- Packing & Sold In: Each

		Possible Uses							
	Multi-profile	Hexagon/ Bi-hexagon	Hexagon	TX Head	Square				
ltem #	(mm) 🔿	(mm) 🌘 🔿	(in.) 🜘	тх О	(mm) <b>O</b>	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)
WR071311304	4	Size 4	5/32"	E 5	-		6.8		E
WR071311305	5	Size 5	-	-	Size 4		8.1	- 11.9	5
WR0713113055	5.5	Size 5.5	7/32"	-	Size 4.5		8.7		5.5
WR071311306	6	Size 6	-	E 8	Size 5	-	9.3		6 7 10 11
WR071311307	7	Size 7	9/32"	-	-		10.8		
WR071311308	8	Size 8	5/16"	E 10	-		11.9		
WR071311309	9	Size 9	11/32"	-	-	22	13.4	13.4	
WR071311310	10	Size 10	3/8"	E 12	Size 8		14.5	14.5	
WR071311311	11	Size 11	7/16"	E 14	Size 9	-	15.9	15.9	
WR071311312	12	Size 12	15/32"	E 16	Size 10		16.9	16.9	
WR071311313	13	Size 13	1/2"	-	-		18.0	18.0	
WR071311314	14	Size 14	9/16"	E 18	-		19.6	19.6	



# ZEBRA 1/4 Inch Multi-Socket Assortment (32 Pieces)

**MANNER** 

Hexagon

inch



### Item # WR096511032 32 piece set

The multiple profile is suitable for the five most common screw heads (hexagon metric, square metric, bi-hex metric, hexagon inch, TX head)

- Supplied in a metal box with high-quality foam insert compartment with clamping effect
- 12 sockets
- 14 1/4" bits

Packing & Sold In: Each

### Includes:



metric



Bi-hexagonal metric



Square metric

External Torx



Description	Drive	Length
Universal Joint		33 mm
Screwdriver handle		216 mm
Adapter with quick change chuck	0	30 mm
12 multi-use sockets, one each sizes 4-14	0	22 mm
Bit PH 2	0	25 mm
Bit hex, socket size 3	_	
Bit hex, socket size 4	0	
Bit hex, socket size 6	1	
TX 10		
TX 15		
TX 20		Sold in
TX 25	U	muliple of 5 each
TX 27	1	25 mm
TX 30	1	
TX 40		
	Universal Joint Screwdriver handle Adapter with quick change chuck 12 multi-use sockets, one each sizes 4-14 Bit PH 2 Bit hex, socket size 3 Bit hex, socket size 4 Bit hex, socket size 6 TX 10 TX 15 TX 20 TX 20 TX 25 TX 27 TX 30	Universal JointImage: Constraint of the sector



Α

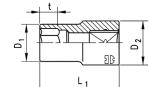


# SOCKETS

A

# ZEBRA 1/4 Inch Multi-Sockets





12-Point

٠

- Surface: chrome-plated, polished
- Drive: 3/8" square socket
- Tip: 12-Point
- Packing & Sold In: Each

	Multi-profile		Possible	e Uses					
	Moni-pronie	6-sd./12-sd.	6-sided	Outer TX	4-sided	1			
ltem #	(mm) 🔿	(mm) 💽 🔿	(in.) 🔘	тх 🔿	(mm) <b>O</b>	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)
WR071312306	6	6 mm	-	E8	5 mm		9.3		
WR0713123063	6.3	6.3 mm	1/4"			]	9.9		7
WR071312307	7	7 mm	9/32"	] -			10.9	- - - - - -	
WR071312308	8	8 mm	5/16"	E10			11.8		
WR071312309	9	9 mm	11/32"	-		25.5	13.4		8
WR071312310	10	10 mm	3/8"	E12	8 mm		14.6		8
WR071312311	11	11 mm	7/16"	E14	9 mm		15.9		8.5
WR071312312	12	12 mm	15/32"	E16	10 mm		17		
WR071312313	13	13 mm	1/2"	-			18.4		8.5
WR071312314	14	14 mm	9/16"	E18	1-		19.6	18	
WR071312315	15	15 mm	19/32"	-	12 mm		20.9	19	]
WR071312316	16	16 mm	5/8"	E20	13 mm	27	22	20	13
WR071312317	17	17 mm		-	14 mm		23.4	21	
WR071312318	18	18 mm	] -	E22			24.5	21.5	
WR071312319	19	19 mm	3/4"	E24	-		25.6	22.5	
WR071312320	20	20 mm	25/32"	-	16 mm	29	26.8	23.5	14
WR071312321	21	21 mm	13/16"	E26	17 mm	<u>]                                    </u>	27.9	24.5	
WR071312322	22	22 mm	7/8"	E28	18 mm	31	29.6	26	16

# ZEBRA 3/8 Inch Multi-Socket Assortment (22 Pieces)



### Item # WR096512022 22 piece set

# Newly developed multi-purpose profile fitting the 5 most common screw heads

- Hexagon metric, square metric, bi-hexagon metric, hexagon inch and external Torx
- Geometry: Short
- Supplied in a metal box with high-quality foam insert compartment
- High-quality multi-use socket bits guarantee a long service life
- Chrome-plated and polished
- Bit: 12-sided, multi-profile





# SOCKETS

# ZEBRA Step-Up And Step-Down Socket Assortment (8 Pieces)



### Item # WR09651280 8 piece set

Combined adapter assortment with most common socket wrench and bit adapters

Socket Wrench Adapters (1 each) 3/4" - 1/2", 1/2" - 3/4", 1/2" - 3/8", 3/8" - 1/4", 1/4" - 3/8", 3/8" - 1/2"

Bit Adapters 1/4" - 1/4", 3/8" - 5/16"

# ZEBRA 1/2 Inch Torx, Multi-Point, and Allen Socket Assortment (31 Pieces)



### Item # WR096513310 31 piece set

Complete 1/2" assortment with short and long Allen, inner TX and multi-point sockets. Contents especially matched to automotive and cargo applications

- Metal box 350 x 260 x 55 mm (13-3/4" x 10-1/4" x 2-3/16")
- 8 TX socket wrenches, short version TX 25, 27, 30, 40, 45, 50, 55, 60
- 4 TX socket wrenches, long version TX 30, 40, 50, 60
- 4 Multi-point socket wrenches, short version M 5, 6, 8, 10
- 3 Multi-point socket wrenches, long version M 8, 10, 12
- 8 Allen socket wrenches, short version 5, 6, 7, 8, 10, 12, 14, 17 mm
- 4 Allen socket wrenches, long version 6, 8, 10, 12 mm







A

В

C

D

E

F

G

Н

П

J

Κ

L

M

Ν

0

Ρ

Q

R

S

Т

U

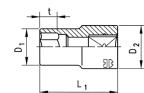
V

X

Y

# ZEBRA 1/2 Inch Multi-Sockets





- 12-Point, Multi-profile for the five most common screw head drives •
- Surface: Chrome-plated, polished •
- Drive: 1/2" square socket ٠
- Tip: 12-point, multi-profile •

Packing & Sold In: Each

	Multi-profile								
	Multi-profile	6-pt./12-pt.	6-pt.	Outer TX	4-pt.				
ltem #	(mm) 🔿	(mm) 💽 🔿	(in.) 🜘	тх О	(mm) <b>O</b>	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)
WR071213410	10	10	3/8"	E 12	8		15.5		9
WR071213411	11	11	7/16"	E 14	9	1	16.7		10
WR071213412	12	12	15/32"	E 16	10		18.0		11
WR071213413	13	13	1/2"	-	-	]	19.2	23.0	11
WR071213414	14	14	9/16"	E 18	-		20.5		13
WR071213415	15	15	19/32"	-	12	36	21.7		
WR071213416	16	16	5/8"	E 20	13		23.0		
WR071213417	17	17	-	-	14		24.2	23.2	
WR071213418	18	18	-	E 22	-		25.5	23.5	
WR071213419	19	19	3/4"	E 24	-		26.7	24.7	
WR071213420	20	20	25/32"	-	16		28.0	25.5	
WR071213421	21	21	13/16"	E 26	17		29.2	26.0	
WR071213422	22	22	7/8"	E 28	18	38	30.5	26.5	16
WR071213424	24	24	15/16"	E 30	19	30	33.0	29.0	- 18
WR071213426	26	26	-	E 32	21		35.5	31.5	Iδ
WR071213427	27	27	1 1/16"	E 34	22		36.7	32.2	- 20
WR071213428	28	28	1 1/8"	E 36	23		38.0	33.5	
WR071213430	30	30	1 3/16"	E 38	24	44	40.5	36.0	22
WR071213432	32	32	1 1/4"	E 40	26		43.0	38.1	24

# ZEBRA 1/2 Inch Standard Hexagon Socket Assortment (21 Pieces)





### Item # WR09651321 21 piece set

- 1 ratchet
- 1 125mm extension ٠
- ٠ 1 250mm extension
- 1 universal joint •
- 17 Socket Wrench Inserts Sizes •
- 3/8", 7/16", 1/2", 9/16", 19/32", 5/8", 11/16", 3/4", 25/32", 13/16", 7/8", 15/16", 1-1/16", 1-1/8", 1-3/16", 1-1/4"



## SOCKETS

## **ZEBRA 1/2 Inch Multi-Socket Assortment (23 Pieces)**



	Item #	Designation	Тір	Length
	WR07120120	Ratchet		250 mm
_	WR0712138105	Extension Bar		125 mm
	WR0712138110	Extension Bar		250 mm
	WR0712138301	Universal Joint	]	70 mm

Supplied in a metal box and a high-quality foam

Box: 405 x 160 x 50 mm (approx.: 16" x 6-5/16" x 2")

Item # WR096513023 23 piece set

insert to hold each piece in place

#### 1/2" Universal Joint

Standard: DIN 3123, ISO 3316 Finish: Chrome-plated Input drive: 1/2", ball groove Output drive: 1/2" Joint: Spring-loaded, stays in set position

#### 1/2" Extension Bars

Standard: DIN 3123, ISO 3316 Finish: chrome-plated Input drive: 1/2" ball groove Output drive: 1/2"



#### **MULTI-PROFILE**



Suitable for the five most common screw head drives:

Hexagon metric Square metric Bi-hexagon metric Hexagon standard TX head

#### 1/2" High-Performance Ratchet

- Easy handling and maximum service life
- Drive: 12.5mm / 1/2" •

•

•

•

- Standard, DIN 3122, ISO 3315
- Head: Fine-toothed, 72 teeth, 5° rotating angle
- Chrome-plated with anti-slip 2-component handle resistant to general workplace oils and cleaners
- Top quality, tested by German TÜV SÜD product service . •

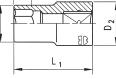
•

•

- Handy directional switch for easy switching, even with oily fingers; can be operated with one hand
- Chamfer on square enables easier pull-off as better gripping is possible
  - Offset ratchet body enables more clearance for gripping with screw connections

			Pos	sible us	es			This is a n				
ncludes:	Multi- profile	6/12 sided/12	6 side	ed	Outside Torx	4 Sided	mate e	izes are c quivalen ork in all o	cies and	may		
							LI	D1	D2	t		
ltem #	in mm	in mm	bolt sz	head sz	in TX	in mm	in mm	in mm	in mm	in mm		
WR071213410	10	10	1/4"	3/8"	E12	8 mm		15.5		9		
WR071213411	11	11	1/4"	7/16"	E14	9 mm	1	16.7		10		
WR071213412	12	12	-	15/32"	E16	10 mm	1	18				
WR071213413	13	13	5/16"	1/2"	-	-	19.2		]	19.2	23	11
WR071213414	14	14	3/8"	9/16"	E18	-	1	20.5	1			
WR071213415	15	15	-	19/32"	-	12 mm	36	21.7		1.0		
WR071213416	16	16	7/16"	5/8"	E20	13 mm	1	23		13		
WR071213417	17	17	-	-	-	14 mm	1	24.2	23.2	1		
WR071213418	18	18	-	-	E22	-	1	25.5	23.5			
WR071213419	19	19	1/2"	"	E24	-	1	26.7	24.7	]		
WR071213420	20	20	-	25/32"	-	16 mm	1	28	25.5	- 14		
WR071213421	21	21	9/16"	13/16"	E26	17 mm		29.2	26	1		
WR071213422	22	22	-	7/8"	E28	18 mm		30.5	26.5	16		
WR071213424	24	24	5/8"	15/16"	E30	19 mm	38	33	29	1.0		
WR071213426	26	26	-	-	E32	21 mm	1	35.5	31.5	- 18		
WR071213427	27	27	-	1-1/16"	E34	22 mm		36.7	32.2			
WR071213428	28	28	3/4"	1-1/8"	E36	23 mm	1	38	33.5	20		
WR071213430	30	30	-	1-3/16"	E38	24 mm	44	40.5	36	22		
WR071213432	32	32	-	-	E40	26 mm	1	43	38.1	24		

ò



A

B

С

800-422-4389 • WWW.WURTHLAC.COM • WÜRTH LOUIS AND COMPANY



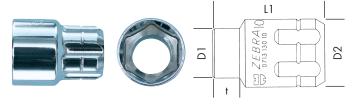
## **RATCHET / SOCKET ASSORTMENT**

## **ZEBRA** Pass-Through Reversible Ratchet Assortment (14 Pieces)



#### Sockets

Bit: Hexagon, metric, POWERDRIV® Model: Chrome-plated, polished



#### Includes:

ltem #	O in mm	L1 mm	t mm	D1 mm	D2 mm
WR071313010	10	32	7	14.7	19.5
WR071313011	11	1		15.4	
WR071313012	12	]		16.6	
WR071313013	13	]	8.5	17.7	
WR071313014	14	]	9.5	18.9	
WR071313015	15	]	11.5	20.1	
WR071313016	16	]	12	21.2	
WR071313017	17			22.4	
WR071313018	18	]		23.6	
WR071313019	19			24.8	

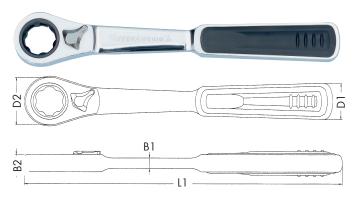
#### Item # WR07131300 14 piece set

- Low-profile allows for access to narrow spaces
- Pass-through feature makes this set ideal for fastening hardware to long bolts and threaded rods
- Included socket adapters (1/4" & 3/6") can be used with any standard wrench
- Includes high-quality metal box for storage and transportation

ltem #	Designation	Length in mm
WR071313001	Ratchet	205
WR071313002	Extension	76
WR071313003	Adapter 1/4"	26
WR071313004	Adapter 3/8"	30
See table below for details	10 sockets, 10-19 mm	32

#### Ratchet

Head: 72 teeth, 5° rotating angle, round, compact head, one-hand operation with reversing lever for clockwise and counter-clockwise operation Model: Chrome-plated, polished, very slim design



ltem #	L1	B1	B2	D1	D2
	mm	mm	mm	mm	mm
WR071313001	205	7	11.5	24.7	32.5



Low height of the through-ratchet as compared to the standard ratchet



Thanks to the through-hole, long bolts and threaded rods can be processed



Through-ratchet with adapter ejector enables an easy removal of the socket spanner





ZEBRA QUALITY

## **RATCHET / SOCKET ASSORTMENT**

### ZEBRA 1/4 Inch Socket Wrench Assortment



#### Item # WR0965900001 33 piece set

#### 33 pcs, with drive tool

#### Contents:

- Hexagon socket wrench inserts: SW 4; 5; 5.5;
  6; 7; 8; 9; 10; 11; 12; 13; 14
- 100 and 150 mm extension
- Universal joint
- Adapter with quick-change chuck
- 1/4 inch Ratchet
- ZEBRA handle
- 3 bits: PH1; PH2; PH3
- 1 bit slotted 0.8 x 5.5mm
- 7 bits TX: TX10; 15; 20; 25; 27; 30; 40mm
- 4 hexagon bits, sizes 3, 4, 5, 6
- Foam insert

### ZEBRA 1/2 Inch Socket Wrench Assortment

#### Item # WR0965900201 17 piece set

#### **17 Pieces**

- Inner TX TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60.
- Outer TX
   E 10, E 11, E 12, E 14, E 16, E 18,
   E 20, E 24
- Foam insert



ZEBRA



## **ZEBRA Combination Pliers**



- 2K grip for gripping, holding and cutting hard and soft wires and cables
- DIN ISO 5746
- High-quality steel construction ensures long tool life and precision of gripping and cutting surfaces
- Extra-long blade also suitable for thicker cables
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer
- Inductively hardened precision blades
- Burner hole for gripping round materials
- Surface: Entirely ground and chrome-plated
- Joint: Lap joint

•

Packing & Sold In: Each

ltem #	Length (in.)	Length (mm)	Medium-hard <b>D</b> wire	Hard wire	Copper and aluming cable	um 💮
WR071401554	6 - 1/2"	170	3.1 mm diameter	2.0 mm diameter	10.0 mm diameter	
WR071401555	7"	180	3.4 mm diameter	2.2 mm diameter	12.0 mm diameter	16 mm <sup>2</sup>
WR071401556	8″	200	3.8 mm diameter	2.5 mm diameter	13.0 mm diameter	]







A

B

C

D

E

F

G

Н

Π

J

Κ

L

Μ

Ν

0

Ρ

Q

R

S

Т

U

V

W

X

Y

ZEBRA

ZEBRA

# **PLIERS / CUTTERS**

## **ZEBRA Wire Stripping Pliers**

**ZEBRA Water Pump Pliers** 



- 2K grip, precise, effortless stripping of cables and wires with plastic or rubber insulation
- High-quality steel construction
- Long service life and precision of cutting surfaces
- For single, multi and fine-wire conductors
- Opening spring opens pliers automatically
- Ergonomic and non-slip 2K comfort handle with narrow collar profile
- Comfortable working and optimum power transmission
- Adjustment screw can be fixed in place with knurled nut
- Surface: Entirely ground and chrome-plated
- Joint: Lap joint
- Packing & Sold In: Each
- ZEBRA

ltem #	Length (in)	Length (mm)	Min./Max. Grip Range
WR071401563	10"	250	16 - 46 mm

- 2K grip, self-locking water pump pliers with push-button adjustment
- DIN ISO 8976
- Rapid and convenient fine adjustment at the push of a button
- Hardened precision teeth
- High wear resistance and secure grip
- Ergonomic and non-slip 2K comfort handle with narrow collar profile
- Comfortable working and optimum power transmission
- Huge gripping capacity with slim design Packing & Sold In: Each





## **ZEBRA Needle Nose Pliers**



- 2K grip for gripping, holding and cutting soft and hard wires and cables
- nd

ZEBRA QUALITY

- DIN ISO 5745
- High-quality steel construction ensures long tool life and precision of gripping and cutting surfaces
- Elastic tips for high stresses, especially under bending forces
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer
- Blades: Additional inductive hardening
- Surface: Entirely ground and chrome-plated
- Gripping surfaces: Toothed
- Joint: Lap joint
- Packing & Sold In: Each

Item #	Length (in)	Length (mm)	Tip Geometry	Jaw sh	iape	L3 (mm)	W3 (mm)	T1 (mm)	W4 (mm)	T2 (mm)	
WR071401557	0.1./4	010				76	175	0.5			
WR071401558	8-1/4"	210			40°		72	17.5	9.5	4	3
WR071401559	4 1 / 41	1.40				50	145		0	0.5	
WR071401562	6-1/4"	160		40°		46	16.5	9	3	2.5	

## **ZEBRA Side Cutters**



- 2K grip for cutting hard and soft wires and cables, including in hard-to-reach places
- DIN ISO 5749
- High-quality tool steel ensures long service life and precision of blades
- Slim head shape for optimum accessibility
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer
- Inductively hardened precision blades
- Surface entirely ground and chrome-plated
- Lap joint
- Packing & Sold In: Each

Item #	Length (in.)	Length (mm)	Soft wire 🕒	Medium-hard wire 🌒	Hard wire
WR071401566	5 - 1/2"	140	1.0	2.5 mm diameter	1.8 mm diameter
WR071401567	6 - 1/4"	160	4.0 mm	2.8 mm diameter	2.0 mm diameter
WR071401568	7"	180	- diameter	3.0 mm diameter	2.5 mm diameter



A

B

С

WÜRTH LOUIS AND COMPANY • WWW.WURTHLAC.COM • 800-422-4389



## **PLIERS / CUTTERS**

### **ZEBRA Power Side Cutters**



- 2K grip for cutting piano wire, hard and soft wire
- **DIN ISO 5749**
- Strength-saving. Milled precision cutting edge for clean cuts •
- High-quality steel ensures long service life and precision of blades •
- Ergonomic and slip-free 2K comfort grip handle with narrow collar profile for comfortable working and optimum force transfer
- Inductively hardened precision blades
- Surface: Ground and chrome-plated •
- Joint: Lap joint, forged-on rivets
- Packing & Sold In: Each

ltem #	Length (in.)	Length (mm)	Soft wire	Medium-hard wire	Hard wire	Piano wire
WR071401551	5 - 1/2"	140		3.1 mm diameter	2.0 mm diameter	1.5 mm diameter
WR071401552	6 - 1/4"	160	4.0 mm diameter	3.4 mm diameter	2.5 mm diameter	2.0 mm diameter
WR071401553	7"	180		3.8 mm diameter	2.7 mm diameter	2.2 mm diameter
WR071401598	8"	200	4.5 mm diameter	4.2 mm diameter	3.0 mm diameter	2.5 mm diameter

### **ZEBRA Heavy-Duty Side Cutters, Reversible**



•	2 tools in one: Side cutters with connectible lever
	transmission

- High cutting power cuts thick cables
- Avoids hard cutting impact found with conventional side cutters
- Precision cutting ensures a long service life
- Manufactured from high-grade steel
- Safe handling
- Ergonomic 2K plastic handle with non-slip surface
- Surface: Chrome-plated
- Joint: Launched
- Packing & Sold In: Each

Item #	Length (in.)	Length (mm)	Soft wire	Medium-hard wire	Hard wire	Piano wire 🌒
WR071401599	8″	200	5 mm diameter	4.5 mm diameter	3.5 mm diameter	3 mm diameter



### **ZEBRA Pliers and Cutters Sets**



#### Item # WR071401560 4 piece set



- 2K grip, set of one of each combination pliers, wire stripping pliers, needle nose pliers, and power side cutters
- High-quality steel construction ensures long service life and precision of gripping and cutting surfaces
- Combination pliers with extra-long blade also suitable for thicker cables
- Wire stripping pliers with opening spring for automatic opening
- Needle nose pliers with tips for high bending stresses
- Heavy-duty side cutters for piano wire, hard and soft wire
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer

#### Includes:

Item # Contents		Length (in)	Length (mm)			
WR071401555	Zebra Combination Pliers	7"	180			
WR071401550	Zebra Wire Stripping Pliers	6-1/4"	160			
WR071401557	Zebra Needle Nose Pliers	8-1/4"	210			
WR071401552	Zebra Power Side Cutters	6-1/4"	160			



#### Item # WR071401565 4 piece set



- 2K grip, set of one of each combination pliers, water pump pliers, needle nose pliers, and power side cutters
- High-quality steel construction ensures long service life and precision of gripping and cutting surfaces
- Combination pliers with extra-long blade also suitable for thicker cables
- Water pump pliers with convenient quick adjustment
- Needle nose pliers with tips for high bending stresses
- Heavy-duty side cutters for piano wire, hard and soft wire
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer

Item #	Contents	Length (in)	Length (mm)
WR071401555	Zebra Combination Pliers	7"	180
WR071401563	Zebra Water Pump Pliers	10"	250
WR071401557	Zebra Needle Nose Pliers	8-1/4"	210
WR071401552	Zebra Power Side Cutters	6-1/4"	160

Y



# **PLIERS / CUTTERS**

### **ZEBRA Pliers Assortment**



Side cutters: 160 mm

Combination pliers: 180 mm

#### Item # WR0965900600 4 piece set

- ٠ 2K Grip
- 4 piece set of 2K grip pliers •
- Foam drawer insert and cutters

#### Includes:

ltem #	Contents	Length (in)	Length (mm)
WR071401555	Zebra Combination Pliers	7"	180
WR071401563	Zebra Water Pump Pliers	10"	250
WR071401557	Zebra Needle Nose Pliers	8-1/4"	210
WR071401552	Zebra Power Side Cutters	6-1/4"	160



Water pump pliers: 250 mm



Needle nose pliers: 210 mm



Optimal power distribution pressure points thanks to special handle geometry





A

B

С

D

E

F

G

Η

Π

J

Κ

### **Circlip Pliers Form A/B**

- For shaft locking rings
- Standard: DIN 5254
- Handle: Plastic-coated
- Guarantees a secure grip, prevents slippage
- Compressed Spring Steel Tip
- Optimized stability for use with tight fitting and seized rings
- Inserted Tips
- Offers maximum strength when loosening tight-fitting/seized rings and allows rings to be installed with minimal distortion
- Screwed and Mounted Joint

- High precision and optimized movement
- Large Contact Surfaces
- Rings mounted with minimal torsion
- **Pliers Head**
- Slim design for optimum access to work piece, especially in hard-to-reach areas
- Internal Spring •
- Lies protected in the internal joint •
- Packing & Sold In: Each

ltem #	Length (mm)		Min./Max. grip range	Tenon diameter (mm)	Jaws length (mm)	Hook length (mm)
WR07140211	140	п	3 - 10	0.9	39	
WR07140212		ΙΛ	10 - 25	1.25	38	
WR07140213	180	1	19 - 60	1.8	56	] -
WR07140214	225		40 - 100	2.25	70	
WR07140215	320	A Straight	85 - 140	3.2	92	
WR07140216	130		3 - 10	0.9	07	10
WR07140217			10 - 25	1.25	- 27	12
WR07140218	165	1 4	19 - 60	1.8	40	15
WR07140219	210	$\triangleleft$	40 - 100	2.25	55	16
WR07140220	305	B 90°	85 - 140	3.2	73	20

## **Circlip Pliers Form C/D**

- For retaining rings (bore circlips)
- Standard: DIN 5256
- Handle: Plastic-coated
- Guarantees a secure grip, slip-resistant
- Compressed Spring Steel Tip •
- Optimized stability for use with tight-fitting and seized rings
- Inserted Tips
- Offers maximum strength when loosening tight-fitting/seized rings and allows rings to be installed with minimal distortion

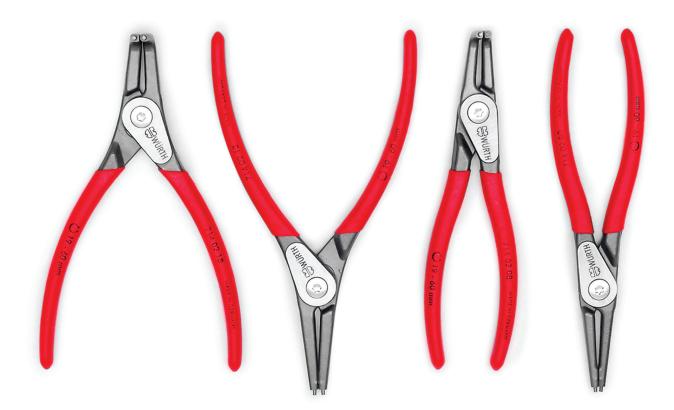
- Screwed and Mounted Joint
- High precision and optimized movement
- Large Contact Surfaces
- Rings mounted with minimal torsion
- **Pliers Head**
- Slim design for optimum access to work piece, • especially in hard-to-reach areas
- Packing & Sold In: Each

ltem #	Length (mm)		Min./Max. grip range	Tenon diameter (mm)	Jaws length (mm)	Hook length (mm)
WR07140201	140	д	8 - 13	0.9	39	
WR07140202			12 - 25	1.25	38	]
WR07140203	180		19 - 60	1.8	54	] –
WR07140204	225		40 - 100	2.25	65	]
WR07140205	320	C Straight	85 - 140	3.2	91	
WR07140206	130		8 - 13	0.9	26	12
WR07140207			12 - 25	1.25	20	12
WR07140208	165	] []	19 - 60	1.8	40	14
WR07140209	210	] []	40 - 100	2.25	49	16
WR07140210	305	D 90°	85 - 140	3.2	73	20

## WÜRTH LOUIS AND COMPANY • WWW.WURTHLAC.COM • 800-422-4389



## **Circlip Plier Set (4 Pieces)**



#### Item # WW07140230 4 piece set

- 4-piece set
- Handle: Plastic-coated
- Guarantees a secure grip, prevents slippage
- Tip from compressed spring steel
- Optimized stability, even with seized rings
- Inserted tips
- Offers maximum strength when loosening seized rings and allows rings to be installed with minimal distortion
- Screwed and mounted joint
- High precision and optimized movement

- Large locating faces
- Rings mounted without torsion
- Pliers head
- Narrow design for optimum access to workpiece, including in hard-to-reach spots

Contents:

Form A Circlip Pliers, 19 - 60 mm grip range Form B Circlip Pliers, 19 - 60 mm grip range Form C Circlip Pliers, 19 - 60 mm grip range Form D Circlip Pliers, 19 - 60 mm grip range

#### Includes:

Item #	Form / Grip Range	
WR07140213	Form A, 19 - 60 mm	
WR07140218	Form B, 19 - 60 mm	
WR07140203	Form C, 19 - 60 mm	
WR07140208	Form D, 19 - 60 mm	

## 800-422-4389 • WWW.WURTHLAC.COM • WÜRTH LOUIS AND COMPANY



ZEBRA QUALITY

# PLIERS / CUTTERS

## Zebra Vice-Grip Locking Pliers

#### Features:

- Effortless release lever with spring mechanism
- One-hand operation pull-action rather than push-action
- Lock nut for fixing clamping width, setting retained for repetitive applications
- Ergonomic design
- Comfortable and effortless handling
- High-quality epoxy coating, welding beads roll off
- 10x better rust resistance than Nickel coatings Packing & Sold In: Each

#### Straight Jaws



ltem #	Length (mm)	Clamping Width (mm)
WR07150909	190	0-42
WR07150910	235	0-63

#### Long Straight Jaws



ltem #	Length (mm)	Clamping Width (mm)
WR07150904	235	0-70

#### Semi-Circular Jaws



ltem #	em # Length Clamping (mm) Width (m	
WR07150906	135	0-30
WR07150907	190	0-42
WR07150908	235	0-63



ZEBRA

## **SNIPS**

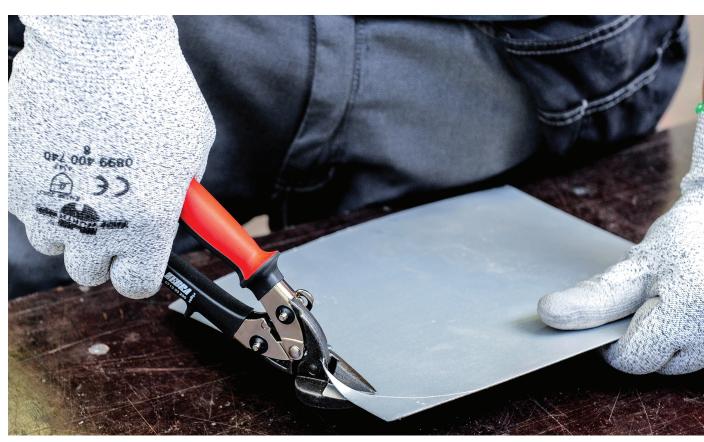
## Zebra Sheet Metal Snips -Short Length



### Maneuverable, powerful and compact

- Double Leverage
- Lower application of force with simultaneously
- increased cutting performance
- No slipping and no serration
- Perfect Design
- Small and lightweight
- Easily stores in most pockets
- Extremely Compact Shearing Head
- Ideal for cutting extremely tight radii and for hard-to-reach places
- Combined lock and stop for improved safety
- Cutting snips can be quickly and easily closed and kept closed
- Ergonomically shaped handle
- Easy to grip
- Allows for lower fatigue
- Packing & Sold In: Each

ltem #	Version	ersion Length (mm)	Cutting capacity (mm)		
			Steel	Stainless Steel	
WR071303200	Right-hand cutting	180	1.2	0.8	





## SNIPS

A

B

C

## Zebra Sheet Metal Snips

### Leverage Sheet Metal Cutting Snips For Continuous And Shaped Cuts

- Rounded grip made from 2-component plastic
- Prevents hands from slipping
- Lower handle made from 1-component plastic
- Simply slide your finger over the lower handle when opening and closing the handle
- Handle heights prevent the cutting snips from slipping out of your hand
- Allows for safe execution
- Long service life

- Cutting head manufactured from stainless steel, die-forged
- Induction hardened cutting edges
- Non-serrated cutting geometry
- Helps prevent sheet metal slipping
- Lever transmission
- High cutting power with less effort
- Packing & Sold In: Each



## Ideal Snips for continuous and figure cutting

Item #	Varian	Length (mm)	Cutting capacity (mm)	
Ifem #	Version	Length (mm)	Steel	<b>Stainless Steel</b>
WR071303100	Right-hand cutting	260	1.0	1.2
WR071303110	Left-hand cutting	200	1.8	

- Longer service life
- Especially suitable for cutting stainless steel

## Ideal Carbide Snips with carbide cutting edges for continuous and figure cutting

Item #	Version	Longth (mm)	Cutting capacity (mm)						
Ifem #	version	Length (mm)	Steel	<b>Stainless Steel</b>					
WR071303130	Right-hand cutting	260	1.8	1.0					
WR071303135	Left-hand cutting	200	1.0	1.2					



### Figure Snips for continuous and tight figure cutting

Item #	Version	Longth (mm)	Cutting capacity (mm)					
mem #	version	Length (mm)	Steel	<b>Stainless Steel</b>				
WR071303115	Right-hand cutting	260	1.0	1.0				
WR071303120	Left-hand cutting	200	1.0	1.2				



# Section U - Hand Tools & Jigs

Notes: A B C D E F G Η J K L M Ν 0 Ρ Q R S Т U V W X Y



# Section U - Hand Tools & Jigs



# A Notes:

B	_	 	 	 		 								
C														
D														
-								 						
E F					 	 		 		 	 			
G			 		 									
н			 			 		 						
L								 						
J K					 					 				
K					 	 	 	 		 	 			
<u> </u>			 			 	 	 			 			
L			 		 		 	 	 	 		 		
L M			 		 	 	 	 		 	 	 		
Ν					 	 		 		 				
N O P			 				 	 		 		 		
0			 			 	 	 		 				
Ρ			 			 	 	 		 		 		
Q			 				 	 	 	 		 		
R			 				 	 		 				
S														
Т					 									
U			 					 						
	F													
V	F						 							
W														
X Y														
v														
1														