

# 2021 **PRODUCT CATALOGUE**

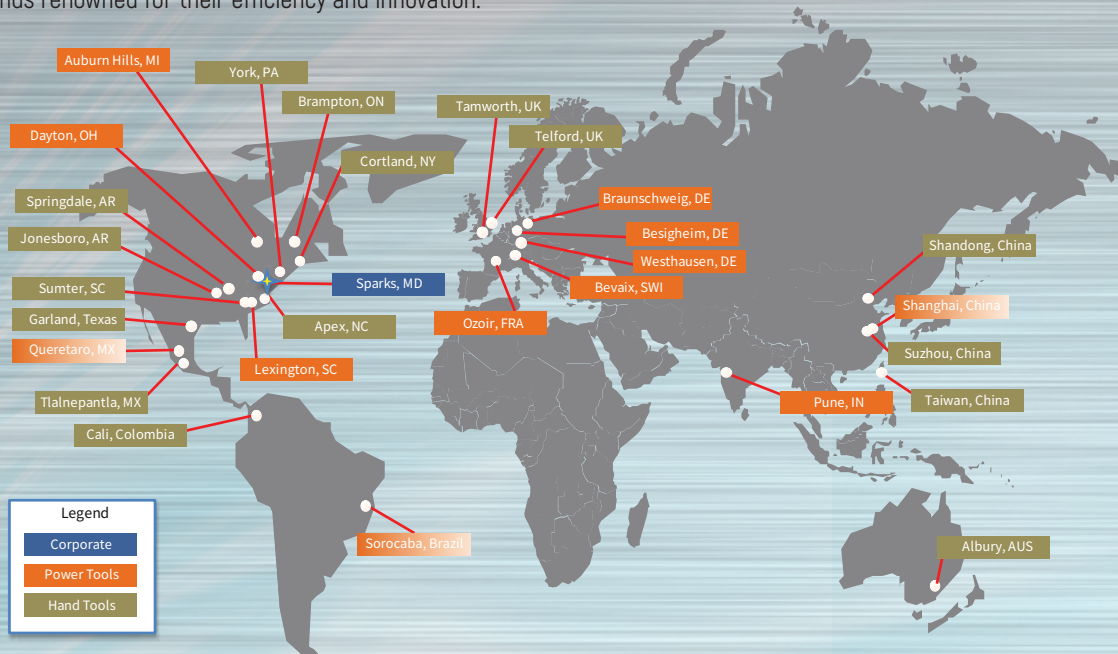




APEX Tool Group(ATG) is one of the world's leading manufacturers of professional hand and power tools, providing professional products and first-class services for aerospace manufacturing, automotive assembly lines, electronic production lines, vehicle maintenance, construction and other industries.

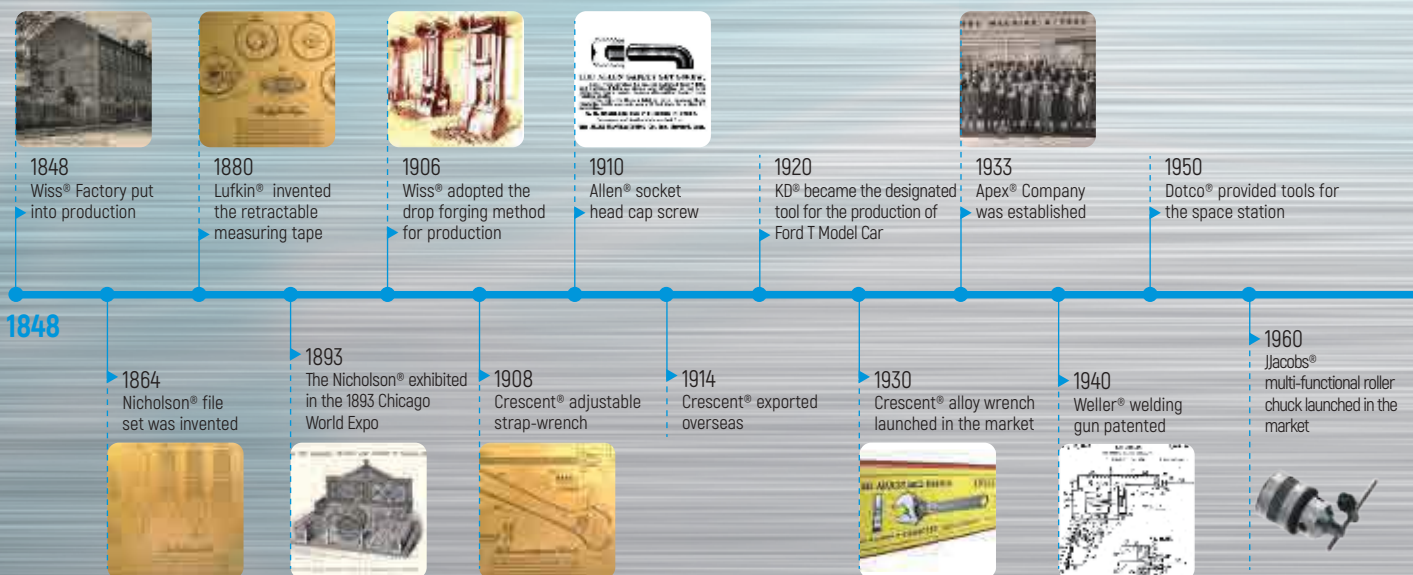
We have over 30 well-known brands, most of which are industry or category leaders, such as SATA®, GEARWRENCH®, Cleco®, Weller®, Crescent®, Wiss®, Lufkin® and APEX.

Globally, our tools represent quality, innovation and value and are committed to solving difficulties for our customers with a long time of the Group's brands renowned for their efficiency and innovation.



ATG operates in more than 30 countries and regions around the world with over 20 factories in North America, South America, Europe, Australia, Asia and other region and more than 8,000 employees, 4 R&D centers in the United States, Germany, France and China, its businesses covering 120 countries around the world. ATG works closely with distributors, retailers and KA customers across the globe to ensure that our end-users have tools to solve real problems. Our unique category management provides our customers with terminal data, customer research and market feedback that helps with inventory flow, product display and promotion decisions. At the same time, ATG's global footprint enjoys a better advantage in service than any regional enterprise so as to meet different needs of customers.

## Apex Memorabilia



# APEX Tool Group



Hand Tools



Power Tools



Auto Equipmet



1965  
GEARWRENCH®  
Taiwan Factory put  
into operation

1987  
Armstrong®  
established a  
world-class brand  
position of wrench



1995  
Ratchet wrench brand  
GEARWRENCH® was  
established

2002  
SATA® become the  
largest tool brand in  
China by market share



2005  
SATA Shandong Factory  
put into production

2014  
• Nicholson®'s 150th  
anniversary  
• Designed a drive tool for  
the MorTorq® super Helix  
Drive  
• Crescent® established Pivot  
Pro™ pliers brand  
• KD® Tools joined  
GearWrenche® family



2017  
Cleco® introduced  
the NeoTek tools

2020

1983  
Armstrong® sleeve  
become the  
world-class brand

1992  
SATA® Shanghai Factory  
put into operation



1997  
Brand of SATA®  
established in China



2002  
Over 100,000,000  
GearWrench®  
wrenches sold



2013  
Bain Capital acquired  
APEX Group



2015  
SATA acquired Shanghai  
Yicheng Automotive  
Technology Co., Ltd.



2019  
• SATA Automotive  
Technology (Shanghai)  
Co., Ltd. was established



• Crescent APEX®  
Dual-brand socket bit  
launched in the market





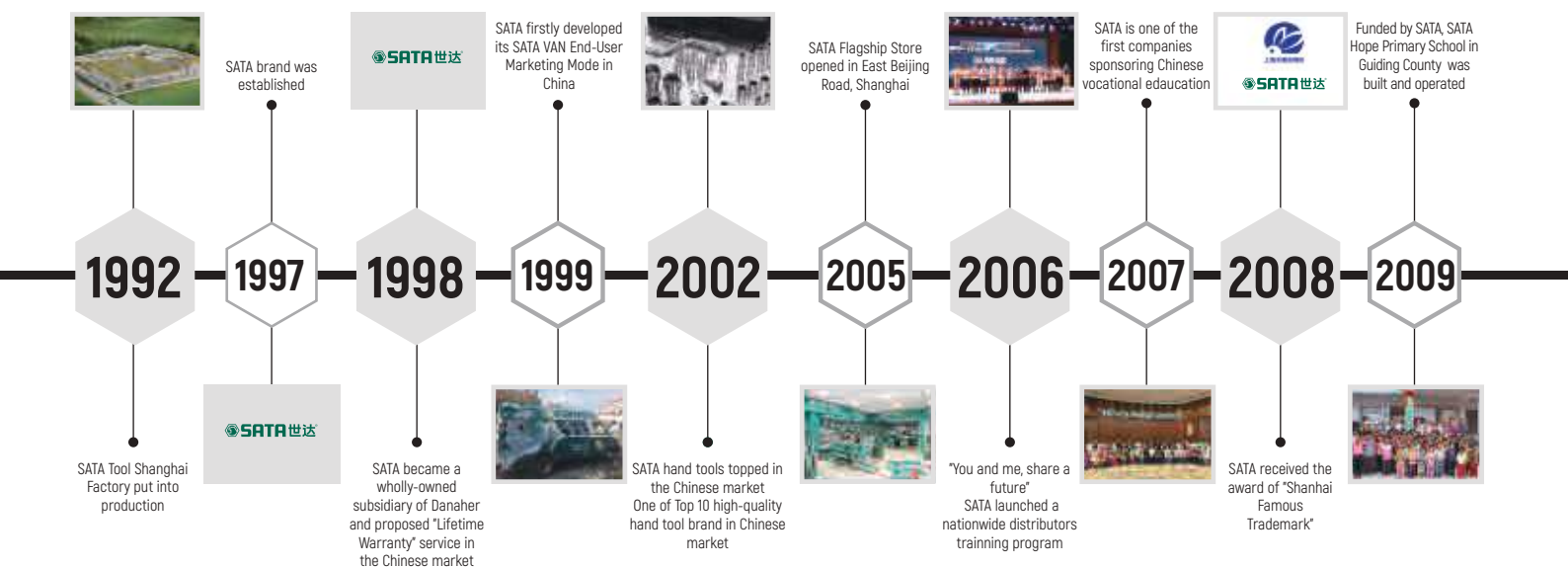


**SATA** is a wholly-owned subsidiary of US-based Apex Tool Group set up to meet the demand of medium-end & high-end tools Internationally.

SATA mainly engages in medium-end & high end hand tools, auto equipment and personal protective equipment, which are widely used in energy construction, rail transit, machinery manufacturing, electronics, automobile repair and professional personnel training and many other industries.

SATA provides a full range of integrated solutions for International markets, including hand tools, power tools, auto equipment and personal protective equipment.

## **SATA**® Development History





# INDUSTRY APPLICATION



**SATA**® provides users with more than 4000 types of products, including professional hand tools, special tools for automobile repair, power tools, auto equipment, hydraulic lifting tools, and personal protective equipment. These products are widely used in energy construction, rail transit, machinery manufacturing, electronics, automobile repair and professional personnel training and many other industries.



**Auto Equipment**



**Energy Industry**



**Rail Transit**



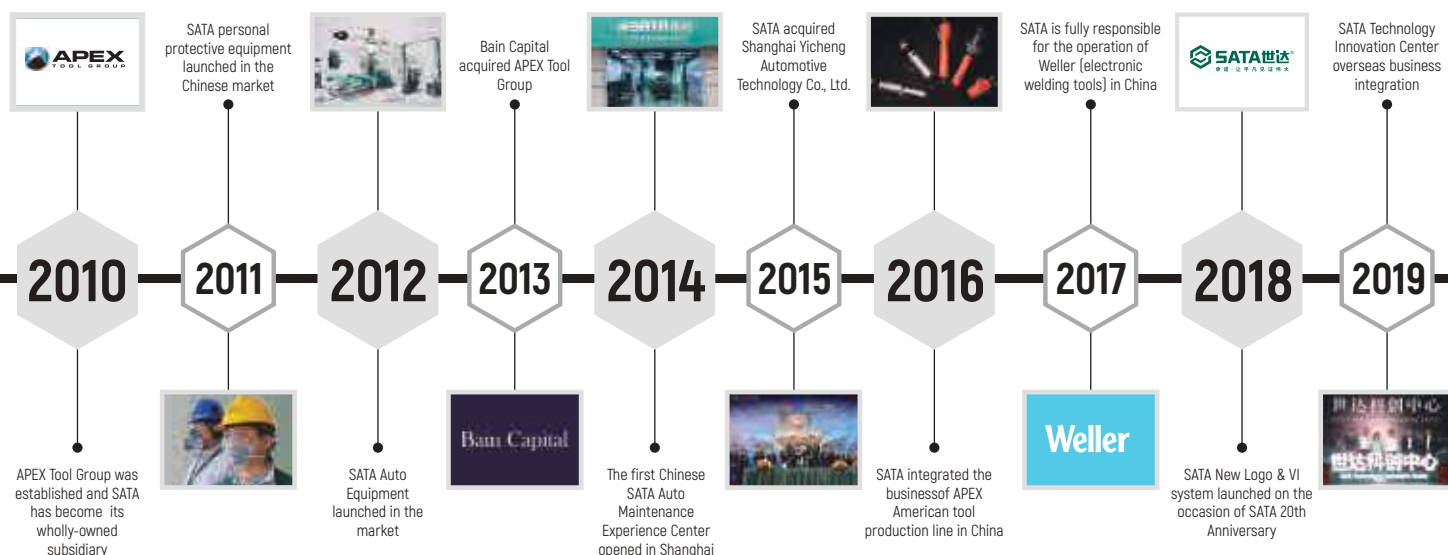
**Machinery Manufacturing**



**Electronics**



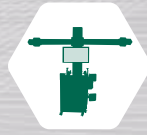
**Personnel Training**



# SATA Champion Store



SATA Champion  
Store Set-Up  
Consultation



SATA Auto  
Equipment  
One-Stop Solution



Store  
Management



Staff Training



After-Sales  
Guarantee

We sincerely invite you to join us!  
SATA Incentive Program for SATA  
full-series auto equipment



SATA full-series auto equipment include:

- |                           |                            |                            |                                        |                        |
|---------------------------|----------------------------|----------------------------|----------------------------------------|------------------------|
| 1 Pneumatic Tire Spreader | 5 3D Four-Wheel Aligner    | 9 Modular Hose Reel        | 13 Horizontal Hydraulic Jack           | 17 Waste Oil Collector |
| 2 Tire Changer            | 6 Tool Storage             | 10 Vertical Tire Inflator  | 14 Ultrathin Scissor Lift              | 18 2-Ton Pickup Crane  |
| 3 Wheel Balancer          | 7 Scissor Lift for Aligner | 11 Automatic Tire Inflator | 15 Pose Lift with Electric Control Box | 19 20-Ton Press        |
| 4 Screw Air Compressor    | 8 Piston Air Compressor    | 12 Porta Power Kit         | 16 Digital Tire Inflating Gun          | 20 Gearbox Bracket     |



SATA Auto Equipment



## Wireless-Charging Work Light Series



See P258-P260 for details

## Toolkit Series



See P24-P25 for details

## Explosion-Proof Series ( Beryllium Bronze)



See P235-P237 for details

## Dampproof Trolley Stackable Box



See P26 for details

## Circular Saw Blades



See P159 for details

## Zirconia Flap Discs



See P158 for details

## Automatic Air Hose Reel

## 3-Core Cable Reel



See P284 for details

## Adjustable Wrench with Wide Jaw and Short Shank



See P73 for details

Ø085 Hydraulic Cutter 5T



Hydraulic Cutter (hard type)

See P336 for details

9pc G-Series Extra Long Ball Point Hex Key Set



See P98 for details

Digital Caliper



Digital Outside Micrometer



See P201-P202 for details

Adjustable constant-temperature long-life electric soldering iron 60W



See P239 for details

Professional Laser Distance Meter



See P203 for details

Heavy-Duty Ductile Iron Bench Vice



See P207 for details

Industrial Infrared Thermometer 800



High-Precision Infrared Thermometer 3.5-42


















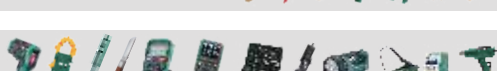

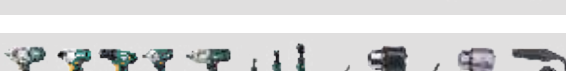
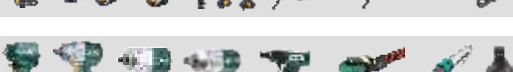

See P251 for details





















176pc Industrial Production and Repair Mater Tool Set (Including 5-Drawer Roll Cabinet)




See P16 for details





A	
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# List of Fasteners:

	Cross Recessed Pan Head Screw (GB/T818-2000)		Cross Recessed Countersunk Head Screw (GB/T819-2000)		Cross Recessed Half-Countersunk Head Screw (GB/T820-2000)		Cross Recessed Cheese Head Screw (GB/T822-2000)		Cross Recessed Small Pan Head Screw (GB/T823-1988)
M1.6	PH0	PZ0	PH0	PZ0	PH0	PZ0	-	-	-
M2	PH0	PZ0	PH0	PZ0	PH0	PZ0	-	-	PH1
M2.5	PH1	PZ1	PH1	PZ1	PH1	PZ1	PH1	PZ1	PH1
M3	PH1	PZ1	PH1	PZ1	PH1	PZ1	PH2	PZ2	PH2
M3.5	-	-	PH2	PZ2	PH2	PZ2	PH2	PZ2	PH2
M4	PH2	PZ2	PH2	PZ2	PH2	PZ2	PH2	PZ2	PH2
M5	PH2	PZ2	PH2	PZ2	PH2	PZ2	PH2	PZ2	PH3
M6	PH3	PZ3	PH3	PZ3	PH3	PZ3	PH3	PZ3	PH3

	Cross Recessed Tapping Screw A (GB/T845-1985)		Cross Recessed Tapping Screw B (GB/T846-1985)		Cross Recessed Tapping Screw C (GB/T847-1985)		Cross Recessed Tapping Screw for Fastener of Precision Machinery (GB/T13806.2-1992)		Wallboard Tapping Screw (GB/T14210-1993)
ST1.5	-	-	-	-	-	-	PH0	-	-
ST1.9	-	-	-	-	-	-	PH0	-	-
ST2.2	PH0	PZ0	PH0	PZ0	PH0	PZ0	PH0	-	-
ST2.6	-	-	-	-	-	-	PH1	-	-
ST2.9	PH1	PZ1	PH1	PZ1	PH1	PZ1	PH1	-	-
ST3.5	PH2	PZ2	PH2	PZ2	PH2	PZ2	PH2	-	PH2
ST3.9	-	-	-	-	-	-	-	-	PH2
ST4.2	PH2	PZ2	PH2	PZ2	PH2	PZ2	PH2	-	PH2
ST4.8	PH2	PZ2	PH2	PZ2	PH2	PZ2	-	-	-
ST5.5	PH3	PZ3	PH3	PZ3	PH3	PZ3	-	-	-
ST6.3	PH3	PZ3	PH3	PZ3	PH3	PZ3	-	-	-

	Slotted Cheese Head Screw (GB/T65-2000)			Slotted Countersunk Head Screw (GB/T819-2000)			Slotted Half-Countersunk Head Screw (GB/T820-2000)			Slotted Cheese Head Screw (GB/T822-2000)			Slotted Small Pan Head Screw (GB/T823-1988)		
	Slot Thickness	Corresponding Slot Specification		Slot Thickness	Corresponding Slot Specification		Slot Thickness	Corresponding Slot Specification		Slot Thickness	Corresponding Slot Specification		Slot Thickness	Corresponding Slot Specification	
M2	0.5	3MM/3.2MM		0.5	3MM/3.2MM		0.5	3MM/3.2MM		0.5	3MM/3.2MM		0.5	3MM/3.2MM	
M2.5	0.6	3MM/3.2MM		0.6	3MM/3.2MM		0.6	3MM/3.2MM		0.6	3MM/3.2MM		0.6	3MM/3.2MM	
M3	0.8	5MM		0.8	5MM		0.8	5MM		0.8	5MM		0.8	5MM	
M4	1.2	6MM/8MM		1.2	6MM/8MM		1.2	6MM/8MM		1.2	6MM/8MM		1	6MM/8MM	
M5	1.2	6MM/8MM		1.2	6MM/8MM		1.2	6MM/8MM		1.2	6MM/8MM		1.2	6MM/8MM	
M6	1.6	8MM		1.6	8MM		1.6	8MM		1.6	8MM		1.5	8MM	

	Slotted Tapping Screw A (GB/T5282-1985)			Slotted Tapping Screw B (GB/T5283-1985)			Slotted Tapping Screw C (GB/T5284-1985)		
	Slot Thickness	Corresponding Slot Specification		Slot Thickness	Corresponding Slot Specification		Slot Thickness	Corresponding Slot Specification	
ST2.2	0.5	3MM/3.2MM		0.5	3MM/3.2MM		0.5	3MM/3.2MM	
ST2.9	0.8	5MM		0.8	5MM		0.8	5MM	
ST3.5	1	6MM/8MM		1	6MM/8MM		1	6MM/8MM	
ST4.2	1.2	6MM/8MM		1.2	6MM/8MM		1.2	6MM/8MM	
ST4.8	1.2	6MM/8MM		1.2	6MM/8MM		1.2	6MM/8MM	
ST5.5	1.6	8MM		1.6	8MM		1.6	8MM	
ST6.3	1.6	8MM		1.6	8MM		1.6	8MM	

	Hex Torx® Pan Head Screw (GB/T2672-2004)			Hex Torx® Countersunk Head Screw (GB/T2673-1986)			Hex Torx® Half-Countersunk Head Screw (GB/T2674-2004)			Hex Torx® Low Cheese Head Screw (GB/T26711-2004)			Hex Torx® Cheese Head Screw (GB/T2671.2-2004)		
	Torx® slot No.	Width A (Reference Value)		Torx® slot No.	Width A (Reference Value)		Torx® slot No.	Width A (Reference Value)		Torx® slot No.	Width A (Reference Value)		Torx® slot No.	Width A (Reference Value)	
M2	T6	1.75	-	-	-	-	T6	1.75	-	T6	1.75	-	T6	1.75	-
M2.5	T8	2.4	-	-	-	-	T8	2.4	-	T8	2.4	-	T8	2.4	-
M3	T10	2.8	-	-	-	-	T10	2.8	-	T10	2.8	-	T10	2.8	-
M3.5	T15	3.35	-	-	-	-	T15	3.35	-	T15	3.35	-	-	-	-
M4	T20	3.95	-	-	-	-	T20	3.95	-	T20	3.95	-	T20	3.95	-
M5	T25	4.5	-	-	-	-	T25	4.5	-	T25	4.5	-	T25	4.5	-
M6	T30	5.6	-	-	-	-	T30	5.6	-	T30	5.6	-	T30	5.6	-
M8	T45	7.95	-	-	-	-	T45	7.95	-	T45	7.95	-	T45	7.95	-
M10	T50	8.95	-	-	-	-	T50	8.95	-	T50	8.95	-	-	-	-



## Customer First!

SATA provides you with customized solutions

SATA provides enterprises with personalized combined tool solution according to specific needs, work station, industry and operation environment, including fashionable and decent gift tools and driver's emergency tools. In addition, SATA experts can develop tool sets for specific work type and station as well as corresponding storage tools as per customers' requirements on work efficiency, orderly storage, safety management.



06004 Basic Household and Property Management Repair Tool Set



09516 Mechanical Equipment Repair Tool Set



03780 Electrician's Tool Set



06011 Driver's Tool Set



09551 Elevator Maintenance Tool Set



09509 Auto Repair Master Tool Set



Special Electrician Table Tool Set for Enterprises




Various Protective Pads



Solid Metal Toolbox


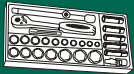


Please call our national free service hotline: 400-820-3885 (for mobile phone) / 800-820-3885 (for fixed-line telephone) if you require further information about customization.

 provides you with customized solutions



# Master Tool Set

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	Combined Tool Set	<b>3-6</b>
	Tool Holder Set	<b>7-17</b>
	Mobile Repair Tool Set	<b>13-14</b>
	Basic Repair Tool Set	<b>11-19</b>



# Master Tool Set

## 09510 150Pc. 1/4"×3/8"×1/2" Dr. Mechanics Tool Set



- 10Pc. 1/4" Dr. 6Pt Socket (4,5,6,7,8,9,10,11,12,13mm)
- 10Pc. 1/4 Dr. 6Pt Socket (5/32",3/16",7/32",1/4",9/32",5/16",11/32",3/8",7/16",1/2")
- 6Pc. 1/4 Dr. 6Pt. Deep Socket (4,5,6,7,8,9mm)
- 1Pc. 1/4 Dr. Quick Release Ratchet 5"
- 2Pc. 1/4 Dr. Extension Bar (2",4")
- 1Pc. 1/4 Dr. Universal Joint
- 1Pc. 1/4 Dr. Spinner Handle
- 1Pc. 1/4 Dr. Bit Adaptor 14Fx/4Hexagon
- 7Pc. 1/4 Hex Shank Bits 25mm Length, Tamper-Proof Torx (TT10,TT15,TT20,TT25,TT27,TT30,TT40)
- 11Pc. 3/8 Dr. 6PL Socke (9,10,11,12,13,14,15,16,17,18,19mm)
- 9Pc. 3/8" Dr. 6Pt. Socket (3/8",7/16",1/2",9/16",5/8",11/16",3/4",13/16",7/8")
- 6Pc. 3/8" Dr. 6PL. Deep Socket (10,11,12,13,14,15mm)
- 8Pc. 3/8" Dr. Torn Socket (E8,E10,E11,E12,E14,E16,E18,E20)
- 2Pc. 3/8 Dr. Spark Plug Socket (16,21mm)
- 3Pc. 3/8" Dr. Bit Socket, Sotted (4,5,5,6,5MM)
- 6Pc. 3/8" Dr. Bit Socket Pillilis (#1,#2,#3)x2pc
- 6Pc. 3/8 Dr. Bit Socket Hexagon (3,4,5,6,8,10mm)
- 3Pc. 3/8 Dr. Bit Socket Tonx (T20,T30,T40)
- 4Pc. 3/8" Dr. Bit Socket, 50mm Length, Tamper-Proof Torx (TT45,TT50,TT55,TT60)
- 1Pc. 3/8 Dr. Quick Release Ratchet 8"
- 2Pc. 3/8 Dr. Locking Extension Bar (3",6")
- 1Pc. 3/8 Dr. Universal Joint
- 6Pc. 1/2 Dr. 6Pt. Deep Socket (10,12,13,14,17,19mm)
- 8Pc. V/2 Dr.12PL Socket (20,21,22,24,27,30,32,34mm)
- 4Pc. 1/2 Dr. 12Pt Socke (15/16",1",1-1/16",1-1/4")
- 1Pc. 1/2 Dr. Quick Release Ratchet 10"
- 2Pc. 1/2 Dr. Extension Bar (5",10")
- 1Pc. 1/2 Dr. Universal Joint
- 12Pc. Combination Wrench (8,9,10,11,12,13,14,15,16,17,18,19mm)
- 3Pc. BOx End Ratcheting Wrench (8x10,12x13,17x19mm)
- 9Pc. Long Arm Ball Point Hex Key Set (1.5,2.2,5,3,4,5,6,8,10mm)
- 2Pc. Go-Through Screwdriver, Sotted (6x150,8x200mm)
- 1Pc. Go-Through Screwdriver, Pillilis #2x150mm

## 09013 88Pc. 1/4"×1/2" Dr. Socket Set



- 13Pc. 1/4 Dr. 6Pt. Socket (3,5,4,4,5,5,5,6,7,8,9,10,11,12,13mm)
- 6Pc. 1/4 Dr. 6Pt. Deep Socket (8,9,10,11,12,13mm)
- 3Pc. 1/4 Dr. Bit Socket, Slotted (4,5,5,6,5mm)
- 4Pc. 1/4 Dr. Bit Socket, Pillis (#1,#2)x2pc
- 4Pc. 1/4" Dr. Bit Socket, Hexagon (3,4,5,6mm)
- 6Pc. 1/4 Dr. Bit Socket, Torx (T8,T10,T15,T20,T25,T30)
- 1Pc. 1/4 Dr. Quick Release Ratchet 5"
- 2Pc. 1/4" Dr. Extension Bar (2",4")
- 1Pc. 1/4" Dr. Sliding T-Handle 4"
- 1Pc. 1/4 Dr. Universal Joint
- 1Pc. 1/4 Dr. Spinner Handle
- 17Pc. 1/2" Dr. 6Pt. Socket (10,11,12,13,14,15,16,17,18,19,20,21,22,24,27,30,32mm)
- 6Pc. 1/2" Dr. 6Pt. Deep Socket (14,15,16,17,18,19mm)
- 2Pc. 1/2" Dr. Spark Plug Socket (16,21mm)
- 1Pc. 1/2" Dr. Quick Release Ratchet 10"
- 2Pc. 1/2" Dr. Extension Bar (5",10")
- 1Pc. 1/2" Dr. Universal Joint
- 1Pc. 3/8" Dr. 3-Way Socket Adaptor
- 1Pc. 1/2" Dr. Bit Adaptor 1/2"Fx5/16 Hexagon
- 3Pc. 5/16" Hex Shank Bits, 30mm Length, Slotted (8,10,12mm)
- 4Pc. 5/16" Hex Shank Bits, 30mm Length, Pillilis (#3,#4)x2pc
- 4Pc. 5/16" Hex Shank Bits, 30mm Length, Hexagon (8,10,12,14mm)
- 4Pc. 5/16" Hex Shank Bits, 30mm Length, Torx (T40,T45,T50,T55)

No.			
09510	-	1	13.6

▲ Please comply with the warranty terms for each open stock product in the set

No.			
09013	-	3	19.7

▲ Please comply with the warranty terms for each open stock product in the set



**09014 124Pc. 1/4"×3/8"×1/2" Dr. Mechanics Tool Set**

- 10Pc. 1/4" Dr. 6Pt. Socket {4,5,6,7,8,9,10,11,12,13mm}
- 10Pc. 1/4" Dr. 6Pt. Socket {5/32",3/16",7/32",1/4",9/32",5/16",11/32",3/8",7/16",1/2"}
- 3Pc. 1/4" Dr. 6Pt. Deep Socket {8,10,12mm}
- 1Pc. 1/4" Dr. Quick Release Ratchet 5"
- 1Pc. 1/4" Dr. Extension Bar 2"
- 1Pc. 1/4" Dr. Universal Joint
- 1Pc. 1/4" Dr. Spinner Handle
- 1Pc. 1/4" Dr. Bit Adaptor 1/4"Fx1/4"Hexagon
- 7Pc. 1/4" Hex Shank Bits, 25mm Length, Tamper-Proof Torx® {TT10,TT15,TT20,TT25,TT27,TT30,TT40}
- 11Pc. 3/8" Dr. 6Pt. Socket {9,10,11,12,13,14,15,16,17,18,19mm}
- 9Pc. 3/8" Dr. 6Pt. Socket {3/8",7/16",1/2",9/16",5/8",11/16",3/4",13/16",7/8"}
- 7Pc. 3/8" Dr. 6Pt. Deep Socket {13,14,15,16,17,18,19mm}
- 2Pc. 3/8" Dr. Bit Socket, Slotted {5,5.6,5mm}
- 4Pc. 3/8" Dr. Bit Socket, Phillips {#1,#2}x2pc
- 4Pc. 3/8" Dr. Bit Socket, Hexagon {3,4,5,6mm}
- 3Pc. 3/8" Dr. Bit Socket, Torx® {T20,T30,T40}
- 4Pc. 3/8" Dr. Bit Socket, 50mm Length, Tamper-Proof Torx® {TT45,TT50,TT55,TT60}
- 1Pc. 3/8" Dr. Quick Release Ratchet 8"
- 2Pc. 3/8" Dr. Extension Bar {3",6"}
- 1Pc. 3/8" Dr. Universal Joint
- 1Pc. 3/8" Dr. Socket Adaptor 3/8"Fx1/4"M
- 1Pc. 3/8" Dr. 3-Way Socker Adaptor
- 8Pc. 1/2" Dr. 6Pt. Socket {20,21,22,24,27,30,32,34mm}
- 4Pc. 1/2" Dr. 6Pt. Socket {15/16",1",1-1/16",1-1/4"}
- 1Pc. 1/2" Dr. Quick Release Ratchet 10"
- 2Pc. 1/2" Dr. Extension Bar {5",10"}
- 1Pc. 1/2" Dr. Universal Joint
- 1Pc. 1/2" Dr. Socket Adaptor 1/2"Fx3/8"M
- 1Pc. 1/2" Dr. 3-Way Socket Adaptor
- 12Pc. Combination Wrench {8,9,10,11,12,13,14,15,16,17,18,19mm}
- 1Pc. Adjustable Wrench 10"
- 2Pc. Go-Through Screwdriver, Slotted {6x150,8x200mm}
- 1Pc. Go-Through Screwdriver, Phillips #2x150mm
- 5Pc. Coarse Threaded Extractor Set

No.			
09014	-	2	20.5

▲ Please comply with the warranty terms for each open stock product in the set

**09403 80Pc. 1/4" & 1/2"Dr. Socket Wrench Set**

- 1Pc. 1/2" Dr. 6Pt. Socket 10mm
- 1Pc. 1/2" Dr. 6Pt. Socket 12mm
- 1Pc. 1/2" Dr. 6Pt. Socket 13mm
- 1Pc. 1/2" Dr. 6Pt. Socket 14mm
- 1Pc. 1/2" Dr. 6Pt. Socket 15mm
- 1Pc. 1/2" Dr. 6Pt. Socket 17mm
- 1Pc. 1/2" Dr. 6Pt. Socket 19mm
- 1Pc. 1/2" Dr. 6Pt. Socket 21mm
- 1Pc. 1/2" Dr. 6Pt. Socket 22mm
- 1Pc. 1/2" Dr. 6Pt. Socket 24mm
- 1Pc. 1/2" Dr. 6Pt. Socket 27mm
- 1Pc. 1/2" Dr. 6Pt. Socket 30mm
- 1Pc. 1/2" Dr. 6Pt. Socket 32mm
- 1Pc. 1/2" Dr. Spark Plug Socket 16mm
- 1Pc. 1/2" Dr. Spark Plug Socket 21mm
- 1Pc. 1/2" Dr. Extension Bar 5"
- 1Pc. 1/2" Dr. Extension Bar 10"
- 1Pc. 1/2" Dr. Quick Release Ratchet 10"
- 1Pc. 3/8" Dr. 3-Way Socket Adaptor 3/8"Fx1/2"M
- 1Pc. 1/2" Dr. Universal Joint
- 1Pc. 1/4" Dr. 6Pt. Socket 4mm
- 1Pc. 1/4" Dr. 6Pt. Socket 5mm
- 1Pc. 1/4" Dr. 6Pt. Socket 6mm
- 1Pc. 1/4" Dr. 6Pt. Socket 7mm
- 1Pc. 1/4" Dr. 6Pt. Socket 8mm
- 1Pc. 1/4" Dr. 6Pt. Socket 9mm
- 1Pc. 1/4" Dr. 6Pt. Socket 10mm
- 1Pc. 1/4" Dr. 6Pt. Socket 11mm
- 1Pc. 1/4" Dr. 6Pt. Socket 12mm
- 1Pc. 1/4" Dr. 6Pt. Deep Socket 8mm
- 1Pc. 1/4" Dr. 6Pt. Deep Socket 10mm
- 1Pc. 1/4" Dr. 6Pt. Deep Socket 12mm
- 1Pc. 1/4" Dr. 6Pt. Deep Socket 13mm
- 1Pc. 1/4" Dr. Extension Bar 4"
- 1Pc. 1/4" Dr. Flexible Extension Bar 6"
- 1Pc. 1/4" Dr. Quick Release Ratchet 5"
- 1Pc. 1/4" Dr. Sliding T-Handle 4"
- 1Pc. 1/4" Dr. Spinner Handle
- 1Pc. 1/4" Dr. Universal Joint
- 1Pc. 1/4" Dr. Bit Adaptor 1/4"Fx1/4"Hexagon
- 1Pc. 1/4" Shank 25mm Bits, Slotted 4mm
- 1Pc. 1/4" Shank 25mm Bits, Slotted 5.5mm
- 1Pc. 1/4" Shank 25mm Bits, Slotted 6.5mm
- 1Pc. 1/4" Shank 25mm Bits, Hex 3mm
- 1Pc. 1/4" Shank 25mm Bits, Hex 4mm
- 1Pc. 1/4" Shank 25mm Bits, Hex 5mm
- 1Pc. 1/4" Shank 25mm Bits, Hex 6mm
- 1Pc. 1/4" Shank 25mm Bits, Torx T10
- 1Pc. 1/4" Shank 25mm Bits, Torx T15
- 1Pc. 1/4" Shank 25mm Bits, Torx T20
- 1Pc. 1/4" Shank 25mm Bits, Torx T25
- 1Pc. 1/4" Shank 25mm Bits, Torx T27
- 1Pc. 1/4" Shank 25mm Bits, Torx T30
- 1Pc. 1/4" Shank 25mm Bits, Torx T40
- 1Pc. 1/4" Shank 25mm Bits, Phillips #1
- 1Pc. 1/4" Shank 25mm Bits, Phillips #2
- 1Pc. 1/4" Shank 25mm Bits, Phillips #3
- 1Pc. Combination Wrench 8mm
- 1Pc. Combination Wrench 10mm
- 1Pc. Combination Wrench 12mm
- 1Pc. Combination Wrench 13mm
- 1Pc. Combination Wrench 14mm
- 1Pc. Combination Wrench 15mm
- 1Pc. Combination Wrench 17mm
- 1Pc. Combination Wrench 19mm
- 1Pc. Long Arm Hex Key 1.5mm
- 1Pc. Long Arm Hex Key 2mm
- 1Pc. Long Arm Hex Key 2.5mm
- 1Pc. Long Arm Hex Key 3mm
- 1Pc. Long Arm Hex Key 4mm
- 1Pc. Long Arm Hex Key 5mm
- 1Pc. Long Arm Hex Key 6mm
- 1Pc. Screwdriver,Slotted 5x75mm
- 1Pc. Screwdriver,Slotted 6x150mm
- 1Pc. Screwdriver,Phillips #1x75mm
- 1Pc. Screwdriver,Phillips #2x150mm
- 1Pc. Groove Joint Pliers 10"
- 1Pc. Combination Pliers 7"
- 1Pc. Hickory Engineers Hammer 500g
- 1Pc. Diagonal Pliers 6"

No.			
09403	-	2	18.4

▲ Please comply with the warranty terms for each open stock product in the set



## 09404 101Pc. 1/4" & 1/2" Dr. Socket Wrench Set



- 1Pc. 1/2" Dr. 6Pt. Socket 8mm
- 1Pc. 1/2" Dr. 6Pt. Socket 9mm
- 1Pc. 1/2" Dr. 6Pt. Socket 10mm
- 1Pc. 1/2" Dr. 6Pt. Socket 11mm
- 1Pc. 1/2" Dr. 6Pt. Socket 12mm
- 1Pc. 1/2" Dr. 6Pt. Socket 13mm
- 1Pc. 1/2" Dr. 6Pt. Socket 14mm
- 1Pc. 1/2" Dr. 6Pt. Socket 15mm
- 1Pc. 1/2" Dr. 6Pt. Socket 16mm
- 1Pc. 1/2" Dr. 6Pt. Socket 17mm
- 1Pc. 1/2" Dr. 6Pt. Socket 18mm
- 1Pc. 1/2" Dr. 6Pt. Socket 19mm
- 1Pc. 1/2" Dr. 6Pt. Socket 20mm
- 1Pc. 1/2" Dr. 6Pt. Socket 21mm
- 1Pc. 1/2" Dr. 6Pt. Socket 22mm
- 1Pc. 1/2" Dr. 6Pt. Socket 23mm
- 1Pc. 1/2" Dr. 6Pt. Socket 24mm
- 1Pc. 1/2" Dr. 6Pt. Socket 27mm
- 1Pc. 1/2" Dr. 6Pt. Socket 30mm
- 1Pc. 1/2" Dr. 6Pt. Socket 32mm
- 1Pc. 1/2" Dr. Spark Plug Socket 16mm
- 1Pc. 1/2" Dr. Spark Plug Socket 21mm
- 1Pc. 1/2" Dr. Extension Bar 10"
- 1Pc. 1/2" Dr. Locking Extension Bar 5"
- 1Pc. 1/2" Dr. Quick Release Ratchet 10"
- 1Pc. 1/2" Dr. Sliding T-Handle 10"
- 1Pc. 1/2" Dr. Universal Joint
- 1Pc. 1/4" Dr. 6Pt. Socket 3.5mm
- 1Pc. 1/4" Dr. 6Pt. Socket 4mm
- 1Pc. 1/4" Dr. 6Pt. Socket 4.5mm
- 1Pc. 1/4" Dr. 6Pt. Socket 5mm
- 1Pc. 1/4" Dr. 6Pt. Socket 5.5mm
- 1Pc. 1/4" Dr. 6Pt. Socket 6mm
- 1Pc. 1/4" Dr. 6Pt. Socket 7mm
- 1Pc. 1/4" Dr. 6Pt. Socket 8mm
- 1Pc. 1/4" Dr. 6Pt. Socket 9mm
- 1Pc. 1/4" Dr. 6Pt. Socket 10mm
- 1Pc. 1/4" Dr. 6Pt. Socket 11mm
- 1Pc. 1/4" Dr. 6Pt. Socket 12mm
- 1Pc. 1/4" Dr. Universal Joint
- 1Pc. 1/4" Dr. Sliding T-Handle 4"
- 1Pc. 1/4" Dr. Quick Release Ratchet 5"
- 1Pc. 1/4" Dr. Flexible Extension Bar 6"
- 1Pc. 1/4" Dr. Extension Bar 4"
- 1Pc. 1/4" Dr. Bit Adaptor 1/4"Fx1/4"Hexagon
- 1Pc. 1/4" Dr. Spinner Handle
- 1Pc. 1/4" Shank 25mm Bits, Slotted 4mm
- 1Pc. 1/4" Shank 25mm Bits, Slotted 5.5mm
- 1Pc. 1/4" Shank 25mm Bits, Slotted 6.5mm
- 1Pc. 1/4" Shank 25mm Bits, Phillips #0
- 1Pc. 1/4" Shank 25mm Bits, Phillips #1

- 1Pc. 1/4" Shank 25mm Bits, Phillips #2
- 1Pc. 1/4" Shank 25mm Bits, Phillips #3
- 1Pc. 1/4" Shank 25mm Bits, Torx T10
- 1Pc. 1/4" Shank 25mm Bits, Torx T15
- 1Pc. 1/4" Shank 25mm Bits, Torx T20
- 1Pc. 1/4" Shank 25mm Bits, Torx T25
- 1Pc. 1/4" Shank 25mm Bits, Torx T27
- 1Pc. 1/4" Shank 25mm Bits, Torx T30
- 1Pc. 1/4" Shank 25mm Bits, Torx T40
- 1Pc. 1/4" Shank 25mm Bits, Hex 2mm
- 1Pc. 1/4" Shank 25mm Bits, Hex 3mm
- 1Pc. 1/4" Shank 25mm Bits, Hex 4mm
- 1Pc. 1/4" Shank 25mm Bits, Hex 5mm
- 1Pc. 1/4" Shank 25mm Bits, Hex 6mm
- 1Pc. Combination Wrench 8mm
- 1Pc. Combination Wrench 10mm
- 1Pc. Combination Wrench 11mm
- 1Pc. Combination Wrench 12mm
- 1Pc. Combination Wrench 13mm
- 1Pc. Combination Wrench 14mm
- 1Pc. Combination Wrench 15mm
- 1Pc. Combination Wrench 17mm
- 1Pc. Combination Wrench 19mm
- 1Pc. Combination Wrench 22mm
- 1Pc. Flare Nut Wrench 8x10mm
- 1Pc. Flare Nut Wrench 10x12mm
- 1Pc. Flare Nut Wrench 13x14mm
- 1Pc. Flare Nut Wrench 16x17mm
- 1Pc. Screwdriver, Slotted 5x75mm
- 1Pc. Screwdriver, Slotted 6x150mm
- 1Pc. Screwdriver, Phillips #1x75mm
- 1Pc. Screwdriver, Phillips #2x150mm
- 1Pc. Groove Joint Pliers 10"
- 1Pc. Combination Pliers 7"
- 1Pc. Hickory Engineers Hammer 500g
- 1Pc. Diagonal Pliers 6"
- 1Pc. Long Nose Pliers 6"
- 1Pc. Adjustable Wrench 8"
- 1Pc. Magnetic Pickup Tool 380mm
- 1Pc. Long Arm Hex Key 1.5mm
- 1Pc. Long Arm Hex Key 2mm
- 1Pc. Long Arm Hex Key 2.5mm
- 1Pc. Long Arm Hex Key 3mm
- 1Pc. Long Arm Hex Key 4mm
- 1Pc. Long Arm Hex Key 5mm
- 1Pc. Long Arm Hex Key 6mm
- 1Pc. Long Arm Hex Key 8mm
- 1Pc. Long Arm Hex Key 10mm
- 1Pc. Cold Chisel 15mm
- 1Pc. Centre Punch 4x120mm

## 09516 58Pc. Mechanics Tool Set



- 14Pc. 3/8" Dr. 6pt. Socket (6,7,8,9,10,11,12,13,14,15,16,17,18,19mm)
- 1Pc. 3/8" Dr. Quick Release Ratchet 8"
- 1Pc. 3/8" Dr. Universal Joint
- 1Pc. Adjustable Wrench 10"
- 3Pc. Combination Ratcheting Wrench (13,14,17mm)
- 12Pc. Combination Wrench (8,9,10,11,12,13, 14,15,16,17,18,19mm)
- 9Pc. Extra Long Ball Point Hex Key Set (1.5,2,2.5,3,4,5,6,8,10mm)
- 1Pc. Combination Pliers 8"
- 1Pc. Long Nose Pliers 6"
- 1Pc. German Style External Snap Ring Pliers 5", Straight Tips
- 1Pc. German Style Internal Snap Ring Pliers 5", Straight Tips
- 3Pc. Screwdriver, Slotted (3.2x75,5x100,6x38mm)
- 4Pc. Screwdriver, Phillips (#0x75,#1x100, #2x38,#2x150mm)
- 1Pc. Magnetic Pickup Tool 380mm
- 1Pc. Plastic Snap-off Knife, 8-Point, 18x100mm
- 1Pc. Tape Measure 5mx19mm
- 23Pc. Feeler Gauges Set 0.02-1.00mm, Metric & SAE
- 1Pc. Steel Rules 300mm
- 1Pc. Fiberglass Handle Ball Pein Hammer 1Lb.

No.			
09404	-	1	12.6

▲ Please comply with the warranty terms for each open stock product in the set

No.			
09516	-	2	13.8

▲ Please comply with the warranty terms for each open stock product in the set





**09517 76Pc. 1/4"×1/2" Dr. Mechanics Tool Set**



- 12Pc. 1/4" Dr. 6Pt. Socket (4,4.5,5.5,5.6,7,8,9,10,11,12,13mm)
- 1Pc. 1/4" Dr. Quick Release Ratchet 5"
- 1Pc. 1/4" Dr. Spinner Handle
- 1Pc. 1/4" Dr. Bit Adaptor 1/4"Fx1/4"Hexagon
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Slotted (4,5.5,6.5mm)
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Phillips (#1,#2,#3)
- 6Pc. 1/4" Hex Shank Bits, 25mm Length, Hexagon (2.2,5,3,4,5,6mm)
- 6Pc. 1/4" Hex Shank Bits, 25mm Length, Torx® (T10,T15,T20,T25,T27,T30)
- 9Pc. 1/2" Dr. 6Pt. Socket (10,12,13,14,15,16,17,19,22mm)
- 1Pc. 1/2" Dr. Universal Joint
- 1Pc. 1/2" Dr. Quick Release Ratchet 10"
- 1Pc. 1/2" Dr. Extension Bar 5"
- 1Pc. Adjustable Wrench 10"
- 7Pc. Combination Wrench (11,12,13,14,15,17,19mm)
- 9Pc. Long Arm Ball Point Hex Key Set (1.5,2,2.5,3,4,5,6,8,10mm)
- 2Pc. Screwdriver, Slotted (6x38,6x100mm)
- 2Pc. Screwdriver, Phillips (#2x38,#2x100mm)
- 1Pc. Combination Pliers 7"
- 1Pc. Long Nose Pliers 6"
- 1Pc. Groove Joint Pliers 10"
- 1Pc. Locking Pliers 10", Straight Jaw
- 1Pc. Hickory Ball Pein Hammer 1Lb.
- 1Pc. Mini Hacksaw 6"
- 1Pc. Wood Handle Copper Brush
- 1Pc. Plastic Snap-off Knife, 8-Point, 18x100mm
- 1Pc. Tape Measure 5mx19mm
- 14Pc. Feeler Gauges Set 0.05-1.00mm

No.			
09517	-	2	15

▲ Please comply with the warranty terms for each open stock product in the set

**09519 76Pc. 1/4" & 1/2"Dr. Socket Wrench Set**



- 2Pc. 1/4", 1/2" Dr. Quick-Release Ratchets
- 7Pc. 1/4" Dr. 6pt. Metric Sockets 8, 9, 10, 11, 12, 13, 14 mm
- 18Pc. 1/4" Dr. Bit Sockets
  - Slotted 4, 5.5, 6.5 mm
  - Phillips #1, #2
  - Pozidriv #1, #2
  - Torx® T8, T10, T15,T20, T25, T30, T40
  - Hex 3, 4, 5, 6 mm
- 12Pc. 1/2" Dr. 6pt. Metric Sockets 8, 10, 12, 13, 14, 17, 19, 22, 24, 27, 30, 32 mm
- 9Pc. Combination Wrenches 8, 10, 11, 12, 13, 14, 17, 19, 22 mm
- 15Pc. 5/16" Shank 30L Bits
  - Slotted 8, 10, 12 mm
  - Phillips #3, #4
  - Pozidriv #3, #4
  - Torx® T40, T45, T50, T55
  - Hex 8, 10, 12, 14 mm
- 2Pc. 1/2" Dr. Spark Plug Sockets 16, 21 mm
- 11Pc. Accessories
  - 1/4" Dr. T-Handle
  - 1/4" Dr. Flex Extension
  - 1/4" Dr. Wobble Extension Bars 2", 4"
  - 1/2" Dr. Wobble Extension Bars 5", 10"
  - 1/4", 1/2" Dr. Universal Joints
  - 1/4" Dr. Spinner Handle
  - 1/2" Dr. T-Handle
  - 5/16" Shank x 1/2" Dr. Bit Adapter

No.			
09519	0	3	20.6

▲ Please comply with the warranty terms for each open stock product in the set



## 09901 66Pc. 1/4" Dr. Socket Set

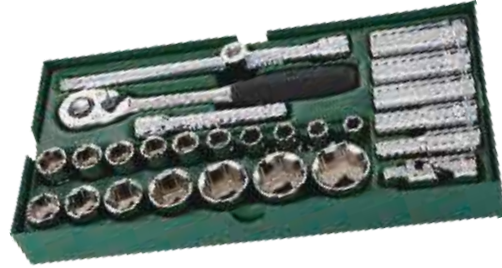


- 14Pc. 1/4" Dr. 6pt Socket [3,5,4,4,5,5,5,5,6,7,8,9,10,11,12,13,14MM]
- 12Pc. 1/4" Dr. 6pt Long Socket [4,4,5,5,5,5,6,7,8,9,10,11,12,13MM]
- 23Pc. 1/4" Dr. Bits Socket Slotted [4,5,5,6,5MM] Phillip [#1,#2,#3] Pozi [#1,#2,#3] Torx [T-8,T-10,T-15,T-20,T-25,T-27,T-30,T-40] Hex [3,4,5,6,7,8MM]
- 8Pc. 1/4" Dr. 25MM Bits, Slotted [3,4,5,6MM] Phillip [#0,#1,#2,#3]
- 1Pc. 1/4" Dr. Spinner Handle
- 1Pc. 1/4" Dr. Quick Release Ratchet 5"
- 1Pc. 1/4" Dr. Extension Bar 2"
- 1Pc. 1/4" Dr. Extension Bar 4"
- 1Pc. 1/4" Dr. Sliding T-Handle 4"
- 1Pc. 1/4" Dr. Universal Joint
- 1Pc. 1/4" Dr. Flexible Extension Bar 6"
- 1Pc. 1/4" Dr. Magnetic Quick Change Bit Holder
- 1Pc. 1/4" Dr. Bit Holder
- Designed for tool management in workshop, fit to lie in the drawers of SATA tool cart
- Functional tray sets help to quicken pick up and return back tools
- Multiple tray sets available for customer to select for proper usage

No.	L×W×H(mm)			
09901	375×185×45	-	4	8.8

▲ Please comply with the warranty terms for each open stock product in the set

## 09903 27Pc. 1/2" Dr. Socket Set



- 17Pc. 1/2" Dr. 6pt Socket [10,11,12,13,14,15,16,17,18,19,21,22,24,27,30,32,34MM]
- 5Pc. 1/2" Dr. 6pt Long Socket [10,13,17,19,22MM]
- 1Pc. 1/2" Dr. Quick Release Ratchet 10"
- 1Pc. 1/2" Dr. Extension Bar 10"
- 1Pc. 1/2" Dr. Universal Joint
- 1Pc. 1/2" Dr. Locking Extension Bar 5"
- 1Pc. 1/2" Dr. 3-Way Socket Adaptor 1/2"Fx3/8" M
- Designed for tool management in workshop, fit to lie in the drawers of SATA tool cart
- Functional tray sets help to quicken pick up and return back tools
- Multiple tray sets available for customer to select for proper usage

No.	L×W×H(mm)			
09903	375×185×45	-	4	18

▲ Please comply with the warranty terms for each open stock product in the set

## 09902 33Pc. 3/8" Dr. Socket Set



- 15Pc. 3/8" Dr. 6pt Socket [8,9,10,11,12,13,14,15,16,17,18,19,21,22,24MM]
- 8Pc. 3/8" Dr. 6pt Long Socket [10,11,12,13,14,15,17,19MM]
- 3Pc. 3/8" Dr. 3/8" Dr. Spark Plug Socket [16,18,21MM]
- 1Pc. 3/8" Dr. Quick Release Ratchet 8"
- 1Pc. 3/8" Dr. Extension Bar 10"
- 1Pc. 3/8" Dr. Socket Adaptor 3/8"Fx1/4" M
- 1Pc. 3/8" Dr. Universal Joint
- 1Pc. 3/8" Dr. Bit Adaptor 3/8"Fx1/4" Hexagon
- 1Pc. 3/8" Dr. Locking Extension Bar 3"
- 1Pc. 3/8" Dr. 3-Way Socket Adaptor 3/8"Fx1/2" M
- Designed for tool management in workshop, fit to lie in the drawers of SATA tool cart
- Functional tray sets help to quicken pick up and return back tools
- Multiple tray sets available for customer to select for proper usage

No.	L×W×H(mm)			
09902	375×185×45	-	4	12.7

▲ Please comply with the warranty terms for each open stock product in the set

**SATA®**

SATA tool holder sets 09901-09915 provide modular tool combination, with each drawer 3 groups of modules to meet different requirements of enterprises and work stations and facilitate 5S management.



## 09904 10Pc. Open End & Combination Wrench Set



- 43206 Combination Ratcheting Wrench 13mm
- 43207 Combination Ratcheting Wrench 14mm
- 41201 Open End Wrench 6x7mm
- 41202 Open End Wrench 8x10mm
- 41203 Open End Wrench 10x12mm
- 41204 Open End Wrench 11x13mm
- 41205 Open End Wrench 12x14mm
- 41210 Open End Wrench 22x24mm
- 41212 Open End Wrench 24x27mm
- 41213 Open End Wrench 30x32mm
- Designed for tool management in workshop, fit to lie in the drawers of SATA tool cart
- Functional tray sets help to quicken pick up and return back tools
- Multiple tray sets available for customer to select for proper usage

No.	L×W×H(mm)			
09904	375×185×45	-	4	10.1

▲ Please comply with the warranty terms for each open stock product in the set

## 09905 10Pc. Metric Offset Box Wrench Tray Set

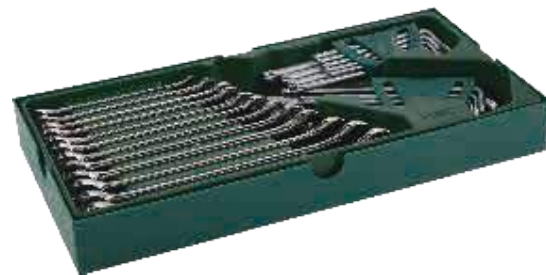


- 42213 Box End Wrench 6x7mm
- 42201 Box End Wrench 8x10mm
- 42202 Box End Wrench 10x12mm
- 42203 Box End Wrench 11x13mm
- 42204 Box End Wrench 12x14mm
- 42205 Box End Wrench 14x17mm
- 42206 Box End Wrench 17x19mm
- 42207 Box End Wrench 19x21mm
- 42208 Box End Wrench 21x23mm
- 42211 Box End Wrench 24x27mm
- Designed for tool management in workshop, fit to lie in the drawers of SATA tool cart
- Functional tray sets help to quicken pick up and return back tools
- Multiple tray sets available for customer to select for proper usage

No.	L×W×H(mm)			
09905	375×185×45	-	4	9.4

▲ Please comply with the warranty terms for each open stock product in the set

## 09906 30Pc. Combination Wrench & Hex Key Set



- 40203 Combination Wrench 8mm
- 40204 Combination Wrench 9mm
- 40205 Combination Wrench 10mm
- 40206 Combination Wrench 11mm
- 40207 Combination Wrench 12mm
- 40208 Combination Wrench 13mm
- 40209 Combination Wrench 14mm
- 40210 Combination Wrench 15mm
- 40211 Combination Wrench 16mm
- 40212 Combination Wrench 17mm
- 40213 Combination Wrench 18mm
- 40214 Combination Wrench 19mm
- 09101 9Pc. Extra Long Ball Point Hex Key Set (1.5,2,2.5,3,4,5,6,8,10mm)
- 09702 9Pc. Long Arm Tamper-Proof Torx® Key Set (T10,T15,T20,T25,T27,T30,T40,T45,T50)
- Designed for tool management in workshop, fit to lie in the drawers of SATA tool cart
- Functional tray sets help to quicken pick up and return back tools
- Multiple tray sets available for customer to select for proper usage

No.	L×W×H(mm)			
09906	375×185×45	-	4	9.9

▲ Please comply with the warranty terms for each open stock product in the set

## 09907 8Pc. Metric Combination Wrench Tray Set



- 40233 Combination Wrench 5.5mm
- 40201 Combination Wrench 6mm
- 40202 Combination Wrench 7mm
- 40215 Combination Wrench 20mm
- 40216 Combination Wrench 21mm
- 40217 Combination Wrench 22mm
- 40218 Combination Wrench 23mm
- 40219 Combination Wrench 24mm
- Designed for tool management in workshop, fit to lie in the drawers of SATA tool cart
- Functional tray sets help to quicken pick up and return back tools
- Multiple tray sets available for customer to select for proper usage

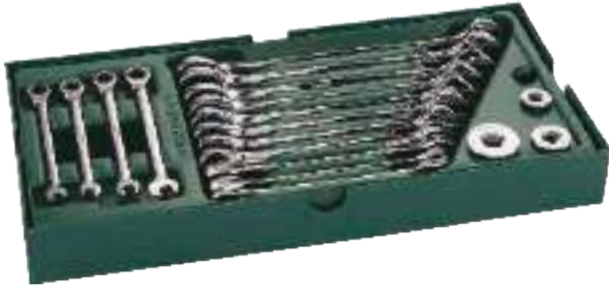
No.	L×W×H(mm)			
09907	375×185×45	-	4	8.7

▲ Please comply with the warranty terms for each open stock product in the set





## 09908 19Pc. Combination Ratcheting Wrench Set



- 43220 Combination Ratcheting Wrench 5.5mm
- 43221 Combination Ratcheting Wrench 6mm
- 43222 Combination Ratcheting Wrench 7mm
- 43201 Combination Ratcheting Wrench 8mm
- 43202 Combination Ratcheting Wrench 9mm
- 43203 Combination Ratcheting Wrench 10mm
- 43204 Combination Ratcheting Wrench 11mm
- 43205 Combination Ratcheting Wrench 12mm
- 43206 Combination Ratcheting Wrench 13mm
- 43207 Combination Ratcheting Wrench 14mm
- 43208 Combination Ratcheting Wrench 15mm
- 43209 Combination Ratcheting Wrench 16mm
- 43210 Combination Ratcheting Wrench 17mm
- 43211 Combination Ratcheting Wrench 18mm
- 43212 Combination Ratcheting Wrench 19mm
- 46654 1/4" Dr. Quick Release Adaptor for 10mm Ratcheting Wrench
- 46655 3/8" Dr. Quick Release Adaptor for 13mm Ratcheting Wrench
- 46656 1/2" Dr. Quick Release Adaptor for 19mm Ratcheting Wrench
- 46657 Bit Adaptor for 10mm Ratcheting Wrench
- Designed for tool management in workshop, fit to lie in the drawers of SATA tool cart
- Functional tray sets help to quicken pick up and return back tools
- Multiple tray sets available for customer to select for proper usage

No.	L×W×H(mm)			
09908	375×185×45	-	4	9.2

▲ Please comply with the warranty terms for each open stock product in the set

## 09910 8Pc. Files Set



- 03916 Flat Second Cut File 8"
- 03936 Half Round Second Cut File 8"
- 03956 Square Second Cut File 8"
- 03972 Round Second Cut File 8"
- 03992 Three Square Second Cut File 8"
- 03811 Diamond Flat Needle File 3x140mm
- 03812 Diamond Pointed Half Round Needle File 3x140mm
- 03815 Diamond Pointed Round Needle File 3x140mm
- Designed for tool management in workshop, fit to lie in the drawers of SATA tool cart
- Functional tray sets help to quicken pick up and return back tools
- Multiple tray sets available for customer to select for proper usage

No.	L×W×H(mm)			
09910	375×185×45	-	4	6

▲ Please comply with the warranty terms for each open stock product in the set

## 09909 5Pc. Adjustable Wrench and Pliers Tray Set



- 47203 Adjustable Wrench 8"
- 47204 Adjustable Wrench 10"
- 70101 Long Nose Pliers 6"
- 71102 Locking Pliers 7", Curved Jaw
- 71301 Locking Pliers 6", Long Nose
- Designed for tool management in workshop, fit to lie in the drawers of SATA tool cart
- Functional tray sets help to quicken pick up and return back tools
- Multiple tray sets available for customer to select for proper usage

No.	L×W×H(mm)			
09909	375×185×45	-	4	8.2

▲ Please comply with the warranty terms for each open stock product in the set

## 09911 4Pc. Snap Ring Pliers Tray Set



- 72001 External Snap Ring Pliers 7", Straight Tips
- 72002 External Snap Ring Pliers 7", Curved Tips
- 72004 Internal Snap Ring Pliers 7", Straight Tips
- 72005 Internal Snap Ring Pliers 7", Curved Tips
- Designed for tool management in workshop, fit to lie in the drawers of SATA tool cart
- Functional tray sets help to quicken pick up and return back tools
- Multiple tray sets available for customer to select for proper usage

No.	L×W×H(mm)			
09911	375×185×45	-	4	5.3

▲ Please comply with the warranty terms for each open stock product in the set



## 09912 4Pc. Pliers Tray Set



- 70101A Long Nose Pliers 6"
- 70202A Diagonal Pliers 6"
- 70303A Combination Pliers 8"
- 70642 Flush Cutting Pliers 6"
- Designed for tool management in workshop, fit to lie in the drawers of SATA tool cart
- Functional tray sets help to quicken pick up and return back tools
- Multiple tray sets available for customer to select for proper usage

No.	L×W×H(mm)			
09912	375×185×45	-	4	6.3

▲ Please comply with the warranty terms for each open stock product in the set

## 09913 13Pc. Combination Screwdriver Tray Set



- 62802 Precision Screwdriver, Slotted 1.0x40mm
- 62807 Precision Screwdriver, Slotted 2.0x50mm
- 62808 Precision Screwdriver, Slotted 2.4x40mm
- 62809 Precision Screwdriver, Slotted 3.0x40mm
- 62903 Precision Screwdriver, Phillips #000x40mm
- 62905 Precision Screwdriver, Phillips #0x40mm
- 63402 Screwdriver, Slotted 3x75mm
- 63407 Screwdriver, Slotted 5x75mm
- 63412 Screwdriver, Slotted 6x100mm
- 63502 Screwdriver, Phillips #0x75mm
- 63507 Screwdriver, Phillips #1x75mm
- 63512 Screwdriver, Phillips #2x100mm
- 63516 Screwdriver, Phillips #3x150mm
- Designed for tool management in workshop, fit to lie in the drawers of SATA tool cart
- Functional tray sets help to quicken pick up and return back tools
- Multiple tray sets available for customer to select for proper usage

No.	L×W×H(mm)			
09913	375×185×45	-	4	5.2

▲ Please comply with the warranty terms for each open stock product in the set

## 09914 36Pc. 3/8" × 1/2" Dr. 6 Point Metric Impact Socket Tray Set



- 16Pc. 1/2" Dr. Impact Socket (10,11,12,13,14,15,16,17,18,19,21,22,24,27,30,32mm)
- 13Pc. 3/8" Dr. Impact Socket (7, 8, 9, 10,11,12,13,14,15,16,17,18,19mm)
- 1Pc. 3/8" Dr. Impact Extension Bar 75mm
- 1Pc. Impact Socket Adaptor 3/8" x 1/4" (MxF)
- 1Pc. Impact Socket Adaptor 3/8" x 1/2" (MxF)
- 1Pc. 1/2" Dr. Impact Extension Bar 150mm
- 1Pc. Impact Socket Adaptor 1/2" x 3/8" (MxF)
- 1Pc. Impact Socket Adaptor 1/2" x 3/4" (MxF)
- 1Pc. Impact Universal Joint 1/2" x 1/2" (MxF)
- Designed for tool management in workshop, fit to lie in the drawers of SATA tool cart
- Functional tray sets help to quicken pick up and return back tools
- Multiple tray sets available for customer to select for proper usage

No.	L×W×H(mm)			
09914	375×185×45	-	4	174

▲ Please comply with the warranty terms for each open stock product in the set

## 09915 26Pc. 1/2" Dr. 6 Point Metric Socket Tray Set



- 20Pc. 1/2" Dr. 6pt Socket (8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,27,30,32mm)
- 5Pc. 1/2" Dr. 6pt Long Socket (14,17,19,21,24mm)
- 1Pc. 1/2" Dr. Quick Release Ratchet 10"
- Designed for tool management in workshop, fit to lie in the drawers of SATA tool cart
- Functional tray sets help to quicken pick up and return back tools
- Multiple tray sets available for customer to select for proper usage

No.	L×W×H(mm)			
09915	375×185×45	-	4	15.4

▲ Please comply with the warranty terms for each open stock product in the set





## 09925A 19Pc. Metric Double Ratcheting Combination Wrench Tray Set



- 15Pc. Double Ratcheting Combination Wrenches (5,5.6,7,8,9,10,11,12,13,14,15,16,17,18,19mm)
- 1Pc. 1/4"Dr. x 10 mm Quick Release Adapter
- 1Pc. 3/8"Dr. x 13 mm Quick Release Adapter
- 1Pc. 1/2"Dr. x 19 mm Quick Release Adapter
- 1Pc. 1/4"Dr. x 10 mm Bit Adapter

No.	L×W×H(mm)			
09925A	375×185×45	-	4	9.2

## 09932A 4Pc. Striking Tool Tray Set



- 1Set 5 Pc. Punch Set
- 1Set 32 Pc. Feeler Gauge Set
- 1Pc. Hickory Ball Pein Hammer 24oz
- 1Pc. Hickory Soft Face Hammer 35mm

No.	L×W×H(mm)			
09932A	375×185×45	-	4	15.5

## 04110 19Pc. Basic Tool Set



- 1Pc. Combination Pliers 6"
- 8Pc. Long Arm Hex Key Wrench (1.5,2,2.5,3,4,5,6,8mm)
- 1Pc. Hickory Claw Hammer 0.5Lb.
- 1Pc. Mini Hack Saw 6"
- 2Pc. Screwdriver, Slotted 3x75mm; Screwdriver, Slotted 6x100mm
- 2Pc. Screwdriver, Phillips #0x75mm; Screwdriver, Phillips #2x100mm
- 1Pc. Measuring Tape 3Mx16mm
- 1Pc. Circuit Tester 145mm
- 1Pc. Snap-Off Knife 9x80mm
- 1Pc. Adjustable Wrench, Dipping Handle 8"
- Special designed for engineers and technicians for multipurpose working
- Adding the anti-freezing components into bag fabric to avoid split in winter and offering a comfortable touch feeling
- Adding the reinforced lining to avoid deformation when used

No.			
04110	-	6	13.5

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set

## 06001 7Pc. Basic Tool Set



- 1Pc. Combination Pliers 7"
- 1Pc. Adjustable Wrench, Dipping Handle 8"
- 1Pc. T Series Double-end Screwdriver #2 & 6mmx100mm
- 1Pc. Circuit Tester 145mm
- 1Pc. Measuring Tape 2Mx13mm
- 1Pc. Snap-Off Knife 8-Point 18x100mm
- 1Pc. Tubular Steel Handle Claw Hammer 0.5 Lbs
- Special designed for engineers and technicians for multipurpose working
- Adding the anti-freezing components into bag fabric to avoid split in winter and offering a comfortable touch feeling
- Adding the reinforced lining to avoid deformation when used

No.			
06001	-	8	13.4

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set



## 06002 5Pc. Basic Tool Set



- 1Pc. Adjustable Wrench, Dipping Handle 8"
- 1Pc. T Series Double-end Screwdriver #2 & 6mmx100mm
- 1Pc. Long Nose Pliers 6"
- 1Pc. Measuring Tape 3Mx16mm
- 1Pc. Snap-Off Knife 18x100mm
- Special designed for engineers and technicians for multipurpose working
- Adding the anti-freezing components into bag fabric to avoid split in winter and offering a comfortable touch feeling
- Adding the reinforced lining to avoid deformation when used

No.			
06002	-	12	11.1

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set

## 06003 11Pc. Basic Tool Set



- 1Pc. Adjustable Wrench, Dipping Handle 8"
- 1Pc. T Series Double-end Screwdriver #1 & 5mmx100mm
- 1Pc. T Series Double-end Screwdriver #2 & 6mmx150mm
- 1Pc. Circuit Tester 185mm
- 1Pc. Combination Pliers 7"
- 1Pc. Long Nose Pliers 6"
- 1Pc. Measuring Tape 3Mx16mm
- 1Pc. Snap-Off Knife 8-Point 18x100mm
- 1Pc. Tubular Steel Handle Claw Hammer 0.5 Lbs
- 1Pc. Mini Hack Saw 6"
- 1Pc. Aluminum Flashlight, 2-Cell AA
- Special designed for engineers and technicians for multipurpose working
- Adding the anti-freezing components into bag fabric to avoid split in winter and offering a comfortable touch feeling
- Adding the reinforced lining to avoid deformation when used

No.			
06003	-	6	13.2

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set

## 06004 9Pc. Basic Tool Set



- 1Pc. Adjustable Wrench, Dipping Handle 8"
- 1Pc. T Series Double-end Screwdriver #2 & 6mmx100mm
- 1Pc. Combination Pliers 6"
- 1Pc. Long Nose Pliers 6"
- 1Pc. Measuring Tape 3Mx16mm
- 1Pc. Tubular Steel Handle Claw Hammer 0.5 Lbs
- 1Pc. Circuit Tester 145mm
- 1Pc. Aluminum Flashlight, 2-Cell AA
- 1Pc. Snap-Off Knife 8-Point 18x100mm
- Special designed for engineers and technicians for multipurpose working
- Adding the anti-freezing components into bag fabric to avoid split in winter and offering a comfortable touch feeling
- Adding the reinforced lining to avoid deformation when used

No.			
06004	-	8	13.4

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set

## 06005 27Pc. Basic Tool Set



- 1Pc. Adjustable Wrench, Dipping Handle 8"
- 1Pc. T Series Double-end Screwdriver #2 & 6mm x 38mm
- 1Pc. T Series Double-end Screwdriver #1 & 5mm x 100mm
- 6Pc. Precision Screwdriver Set, Slotted & Phillips Tips
- 8Pc. Folding Hex Key Set
- 1Pc. Combination Pliers 6"
- 1Pc. Long Nose Pliers 6"
- 1Pc. Snap-Off Knife 8-Point 18x100mm
- 1Pc. Mini Flat Second Cut File 215mm
- 1Pc. Mini Hack Saw 6"
- 1Pc. Tubular Steel Handle Claw Hammer 0.5 Lbs
- 1Pc. Measuring Tape 3M x 16mm
- 1Pc. PVC Insulated Rubber Tape
- 1Pc. Circuit Tester 145mm
- 1Pc. Aluminum Flashlight, 2-Cell AA
- Special designed for engineers and technicians for multipurpose working
- Adding the anti-freezing components into bag fabric to avoid split in winter and offering a comfortable touch feeling
- Adding the reinforced lining to avoid deformation when used

No.			
06005	-	6	14.9

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set



## 06008 25Pc. Basic Tool Set



- 1Pc. Adjustable Wrench 8"
- 8Pc. Folding Hex Key Set (1.5,2,2.5,3,4,5,6,8mm)
- 1Pc. Long Nose Pliers 6"
- 1Pc. Combination Pliers 6"
- 1Pc. Screwdriver, Slotted 5x100mm
- 1Pc. Screwdriver, Phillips #1x100mm
- 1Pc. Circuit Tester 145mm
- 1Pc. PVC Insulated Rubber Tape
- 1Pc. Hickory Claw Hammer 0.5 Lbs
- 1Pc. Mini Hack Saw 6"
- 2Pc. Mini Saw Blade 6"
- 1Pc. Stainless Steel Scissors
- 1Pc. Snap-Off Knife 8-Point 18x100mm
- 1Pc. Measuring Tape 5Mx19mm
- 1Pc. Fine Pointed Tips Tweezers 125mm
- 1Pc. Plastic Box
- 1Pc. Aluminum Flashlight, 2-Cell AA
- Suitable for repair or maintenance jobs at office and home

No.			
06008	-	4	12.5

▲ Please comply with the warranty terms for each open stock product in the set

## 06011 11Pc. Driver's Tool Set



- 1Pc. 1/2" Dr. L-Shaped Lug Wrench
- 1Pc. 1/2" Dr. Double-End Socket 17x19mm
- 1Pc. 1/2" Dr. Double-End Socket 21x23mm
- 1Pc. Adjustable Wrench, Dipping Handle 8"
- 1Pc. Combination Pliers 7"
- 1Pc. Long Nose Pliers 6"
- 1Pc. Screwdriver, Slotted 6x100mm
- 1Pc. Screwdriver, Phillips #2x100mm
- 1Pc. Measuring Tape 3x16mm
- 1Pc. Snap-Off Knife
- 1Pc. Aluminum Flashlight, 3-Cell AAA
- Special designed for car drivers to change tire and normal household maintenance
- Adding the anti-freezing components into bag fabric to avoid split in winter and offering a comfortable touch feeling
- Adding the reinforced lining to avoid deformation when used

No.			
06011	-	4	11.6

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set

## 09551 33Pc. Elevator Repair Tool Set



- 1Pc. Adjustable Wrench, Dipping Handle 10"
- 4Pc. Combination Wrench 10,13,16,18mm
- 3Pc. Open End Wrench 8x10,12x14,17x19mm
- 1Pc. T Series Go-through Screwdriver, Slotted 8x200mm
- 2Pc. T Series Screwdriver, Slotted 5x75mm,6x150mm
- 2Pc. T Series Screwdriver, Phillips #1x75mm,#2x150mm
- 1Pc. T Handle Hex key 5mm
- 9Pc. Long Arm Hex key (1.5,2,2.5,3,4,5,6,8,10mm)
- 1Pc. Japannish Combination Pliers 8"
- 1Pc. Japannish Multipurpose Long Nose Pliers 6"
- 1Pc. Japannish Diagonal Pliers 5"
- 1Pc. External Snap Ring Pliers 7", Curved Tips
- 1Pc. Measuring Tape 5Mx19mm
- 1Pc. Steel Ruler 150mm
- 1Pc. Snap-Off Knife 8-Point 18x100mm
- 1Pc. Wood Handle Brush 2"
- 1Pc. Circuit Tester 185mm
- 1Pc. Aluminum Flashlight, 3-Cell AAA
- Applicable for elevator installation, daily maintenance and repair
- Solid and durable blow mold case provided for elevator tool set, suitable for field construction and property management

No.			
09551	-	2	10.9

## 09555 23Pc. Service Technicians Tool Set



- 1Pc. Open End Wrench 8x10mm
- 1Pc. Open End Wrench 12x14mm
- 1Pc. Adjustable Wrench 8"
- 1Pc. Long Nose Pliers 6"
- 1Pc. Combination Pliers 7"
- 9Pc. Long Arm Ball Point Hex Key 1.5,2,2.5,3,4,5,6,8,10mm
- 1Pc. A Series Screwdriver, Slotted 3.2x75mm
- 1Pc. A Series Screwdriver, Slotted 6x150mm
- 1Pc. A Series Screwdriver, Phillips #0x75mm
- 1Pc. A Series Screwdriver, Phillips #2x150mm
- 1Pc. Snap-Off Knife 8-Point 18x100mm
- 1Pc. Hickory Handle Claw Hammer 0.8 Lbs
- 1Pc. Measuring Tape 5Mx19mm
- 1Pc. Circuit Tester 145mm
- 1Pc. Insulated Rubber Tape
- Special designed for service technicians and household, used for electric appliance installation and repair
- The waterproof tool bag is thickening and durable
- Reserved space for placing power tool and other spare parts in the tool bag

No.	L×W×H(mm)			
09555	390×145×270	-	6	14

▲ Zipper case is not covered under lifetime warranty. Refer to individual tools for warranty conditions.





## 09556 32Pc. Service Technicians Tool Set



- 1Pc. Mini Digital Multimeter
- 1Pc. Combination Wrench 8mm
- 1Pc. Combination Wrench 10mm
- 1Pc. Combination Wrench 12mm
- 1Pc. Combination Wrench 13mm
- 1Pc. Combination Wrench 14mm
- 1Pc. Adjustable Wrench 8"
- 1Pc. Long Nose Pliers 6"
- 1Pc. Combination Pliers 7"
- 9Pc. Long Arm Ball Point Hex Key (1.5, 2.2, 2.5, 3, 4, 5, 6, 8, 10mm)
- 1Pc. A Series Screwdriver, Slotted 3.2x75mm
- 1Pc. A Series Screwdriver, Slotted 6x38mm
- 1Pc. A Series Screwdriver, Slotted 6x150mm
- 1Pc. A Series Screwdriver, Phillips #0x75mm
- 1Pc. A Series Screwdriver, Phillips #2x38mm
- 1Pc. A Series Screwdriver, Phillips #2x150mm
- 1Pc. Snap-Off Knife 8-Point 18x100mm
- 1Pc. Hickory Claw Hammer 0.8 Lbs
- 1Pc. Measuring Tape 5Mx19mm
- 1Pc. Digital Circuit Tester
- 1Pc. Aluminum Flashlight, 2-Cell AA
- 1Pc. Steel Ruler 150mm
- 1Pc. Scissor
- 1Pc. Insulated Rubber Tape
- Special designed for service technicians and household, used for electric appliance installation and repair
- The waterproof tool bag is thickening and durable
- Reserved space for placing power tool and other spare parts in the tool bag

No.	L×W×H(mm)			
09556	370×225×250	-	4	9

▲ Zipper case is not covered under lifetime warranty.  
Refer to individual tools for warranty conditions.

## 09916A 98Pc. Tool Storage and Tray Set



- 95107 31" 7 Drawer Roller Cabinet
- 09903 27Pc. 1/2" Drive 6 Point Metric Socket Tray Set
- 09906 30Pc. Metric Combination Wrench and Hex Key Tray Set
- 09911 4Pc. Snap Ring Pliers Tray Set
- 09912 4Pc. Pliers Tray Set
- 09913 13Pc. Combination Screwdriver Tray Set
- 09925A 19Pc. Metric Double Ratcheting Combination Wrench Tray Set
- Total trolley capacity should not exceed 240kg
- Each drawer capacity should not exceed 35kg
- High durability roller track enable smooth sliding
- PVC handle for comfortable grip
- Screwdriver compartment for easy and convenience storage
- Two swivel (with stopper) and two fixed casters with pin rolling bearings
- 1.2mm thickness steel body for strong and lasting usage
- \* Tray set and tool trolley are packed separately

No.	L×W×H(mm)			
09916A	680×458×860	-	1	78.5

## 09917A 212Pc. Tool Storage and Tray Set



- 95107 31" 7 Drawer Roller Cabinet
- 09901 66Pc. 1/4" Drive 6 Point Metric Socket Tray Set
- 09902 33Pc. 3/8" Drive 6 Point Metric Socket Tray Set
- 09903 27Pc. 1/2" Drive 6 Point Metric Socket Tray Set
- 09905 10Pc. Metric Offset Box Wrench Tray Set
- 09906 30Pc. Metric Combination Wrench and Hex Key Tray Set
- 09909 5Pc. Adjustable Wrench and Pliers Tray Set
- 09910 8Pc. File Tray Set
- 09913 13Pc. Combination Screwdriver Tray Set
- 09925A 19Pc. Metric Double Ratcheting Combination Wrench Tray Set
- Total trolley capacity should not exceed 240kg
- Each drawer capacity should not exceed 35kg
- High durability roller track enable smooth sliding
- PVC handle for comfortable grip
- Screwdriver compartment for easy and convenience storage
- Two swivel (with stopper) and two fixed casters with pin rolling bearings
- 1.2mm thickness steel body for strong and lasting usage
- \* Tray set and tool trolley are packed separately

No.	L×W×H(mm)			
09917A	680×458×860	0	1	78.5



## 09918A 246Pc. Tool Storage and Tray Set



- 95107 31" 7 Drawer Roller Cabinet
- 09901 66Pc. 1/4" Drive 6 Point Metric Socket Tray Set
- 09902 33Pc. 3/8" Drive 6 Point Metric Socket Tray Set
- 09904 10Pc. Metric Open End and Combination Wrench Tray Set
- 09905 10Pc. Metric Offset Box Wrench Tray Set
- 09906 30Pc. Metric Combination Wrench and Hex Key Tray Set
- 09909 5Pc. Adjustable Wrench and Pliers Tray Set
- 09910 8Pc. File Tray Set
- 09911 4Pc. Snap Ring Pliers Tray Set
- 09912 4Pc. Pliers Tray Set
- 09913 13Pc. Combination Screwdriver Tray Set
- 09914 36Pc. 3/8" and 1/2" Drive 6 Point Metric Impact Socket Tray Set
- 09915 26Pc. 1/2" Drive 6 Point Metric Socket Tray Set
- Total trolley capacity should not exceed 240kg
- Each drawer capacity should not exceed 35kg
- High durability roller track enable smooth sliding
- PVC handle for comfortable grip
- Screwdriver compartment for easy and convenience storage
- Two swivel (with stopper) and two fixed casters with pin rolling bearings
- 1.2mm thickness steel body for strong and lasting usage
- \* Tray set and tool trolley are packed separately

No.	L×W×H(mm)			
09918A	680×458×860	0	1	78.5

## 70Pc. Tool Chest & Tray Set



- 1Pc. 5" Cantilever Tool Box
- 1Pc. 1/2" Dr. Quick-Release Ratchet
- 17Pc. 1/2" Dr. Metric Sockets\* (8,9,10,11,12,13,14,17,19,20,21,22,23,24,27,30,32mm)
- 3Pc. 1/2" Dr. Metric Deep Sockets\* (17,19,21mm)
- 11Pc. Combination Wrenches (8,9,10,11,12,13,14,17,19,21,24mm)
- 4Pc. Acetate Screwdrivers  
Slotted 5x75mm, 6x150mm; Phillips #1x75mm, #2x150mm
- 1Pc. Adjustable Wrench 12"
- 1Pc. Long Nose Pliers 6"
- 1Pc. Diagonal Pliers 6"
- 1Pc. Linesman Pliers 7"
- 1Pc. Hickory Ball Pein Hammer 24 oz
- 28Pc. Accessories
- 2Pc. 1/2" Dr. Wobble Extension Bars 5", 10"
- 1Pc. 1/2" Dr. Universal Joint
- 1Pc. 1/2" Dr. Offset Handle 260 mm
- 8Pc. Metric Foldup Hex Key Set
- 16Pc. Feeler Gauge Set

\* 95104A-70: 12 Point Metric Standard and Deep Sockets  
95104A-70-6: 6 Point Metric Standard and Deep Sockets

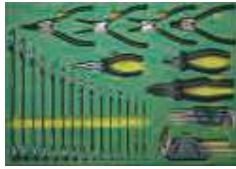
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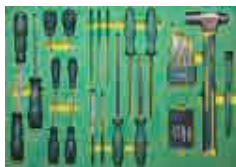
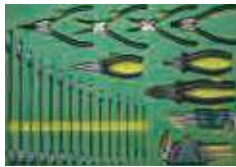


## Tool Set



No.	Product Name	L(mm)	W(mm)			
09919	157Pc. Mechanics Tool Set	560	400	-	1	22

No.	Product Name	L(mm)	W(mm)			
09920	94Pc. Tire Service Station Tool Set	560	400	-	1	22



No.	Product Name	L(mm)	W(mm)			
09921	163Pc. Auto Body Repair Tool Set	560	400	-	1	24

No.	Product Name	L(mm)	W(mm)			
09922	121Pc. Auto Repair Tool Set	560	400	-	1	12

- Affordable tool tray set with common auto repair tools provided one-stop purchasing for auto repair shops
- Healthy, eco-friendly, tasteless and non-toxic EVA foam lining made from BASF raw materials for long service life
- Work efficiency improved with tool tray and SATA tool trolley 09919, 09920 and 09921 suitable for tool trolley 95121, and 09922 for 95121 and 95123

### 09919-157pc Mechanics Tool Set

No.	Product Name
11902	1/4" Dr. Quick Release Ratchet 5"
12902	3/8" Dr. Quick Release Ratchet 8"
13902	1/2" Dr. Quick Release Ratchet 10"
13904	1/2" Dr. Extension Bar 5"
13905	1/2" Dr. Extension Bar 10"
12903	3/8" Dr. Extension Bar 3"
12904	3/8" Dr. Extension Bar 6"
11903	1/4" Dr. Extension Bar 2"
11911	1/4" Dr. Spinner Handle
11914	1/4" Bit Joint (1/4" Bit Jack)
11912	1/4" Dr. Universal Joint
12912	3/8" Dr. Universal Joint
13912	1/2" Dr. Universal Joint
11304	1/4" Dr. 6Pt. Socket 5mm
11305	1/4" Dr. 6Pt. Socket 5.5mm
11306	1/4" Dr. 6Pt. Socket 6mm
11307	1/4" Dr. 6Pt. Socket 7mm
11308	1/4" Dr. 6Pt. Socket 8mm
11309	1/4" Dr. 6Pt. Socket 9mm
11310	1/4" Dr. 6Pt. Socket 10mm
11311	1/4" Dr. 6Pt. Socket 11mm
11312	1/4" Dr. 6Pt. Socket 12mm
12930	3/8" Dr. 3-Way Socket Adaptor (3/8" Fx1/2" M)
13930	1/2" Dr. 3-Way Socket Adaptor (1/2" Fx3/8" M)
12913	3/8" Dr. Socket Adaptor (3/8" Fx1/4" M)
12304	3/8" Dr. 6Pt. Socket 9mm
12305	3/8" Dr. 6Pt. Socket 10mm
12306	3/8" Dr. 6Pt. Socket 11mm
12307	3/8" Dr. 6Pt. Socket 12mm
12308	3/8" Dr. 6Pt. Socket 13mm
12309	3/8" Dr. 6Pt. Socket 14mm
12310	3/8" Dr. 6Pt. Socket 15mm
12311	3/8" Dr. 6Pt. Socket 16mm
12312	3/8" Dr. 6Pt. Socket 17mm

No.	Product Name
12313	3/8" Dr. 6Pt. Socket 18mm
97619	Bit Socket for Engine Cover Screws
13410	1/2" Dr. 6Pt. Deep Socket 19mm
13412	1/2" Dr. 6Pt. Deep Socket 21mm
13408	1/2" Dr. 6Pt. Deep Socket 17mm
12915	3/8" Dr. Spark Plug Socket 16mm
12916	3/8" Dr. Spark Plug Socket 21mm
12408	3/8" Dr. 6Pt. Deep Socket 15mm
12406	3/8" Dr. 6Pt. Deep Socket 13mm
12407	3/8" Dr. 6Pt. Deep Socket 14mm
11405	1/4" Dr. 6Pt. Deep Socket 8mm
11406	1/4" Dr. 6Pt. Deep Socket 9mm
11407	1/4" Dr. 6Pt. Deep Socket 10mm
11409	1/4" Dr. 6Pt. Deep Socket 12mm
22202	3/8" Dr. Bit Socket, Hexagon 4mm
22203	3/8" Dr. Bit Socket, Hexagon 5mm
22204	3/8" Dr. Bit Socket, Hexagon 7mm
22205	3/8" Dr. Bit Socket, Hexagon 9mm
22206	3/8" Dr. Bit Socket, Hexagon 11mm
22104	3/8" Dr. Bit Socket, Torx® T25
22105	3/8" Dr. Bit Socket, Torx® T27
22106	3/8" Dr. Bit Socket, Torx® T30
22107	3/8" Dr. Bit Socket, Torx® T40
12707	3/8" Dr. Torx@ Socket E11
12708	3/8" Dr. Torx@ Socket E12
12709	3/8" Dr. Torx@ Socket E14
12710	3/8" Dr. Torx@ Socket E16
12711	3/8" Dr. Torx@ Socket E18
12712	3/8" Dr. Torx@ Socket E20
13308	1/2" Dr. 6Pt. Socket 17mm
13309	1/2" Dr. 6Pt. Socket 18mm
13310	1/2" Dr. 6Pt. Socket 19mm
13311	1/2" Dr. 6Pt. Socket 20mm
13312	1/2" Dr. 6Pt. Socket 21mm

No.	Product Name
13313	1/2" Dr. 6Pt. Socket 22mm
13315	1/2" Dr. 6Pt. Socket 24mm
13316	1/2" Dr. 6Pt. Socket 27mm
13317	1/2" Dr. 6Pt. Socket 30mm
13318	1/2" Dr. 6Pt. Socket 32mm
34310	1/2" Dr. 6Pt. Impact Socket 17mm
34312	1/2" Dr. 6Pt. Impact Socket 19mm
34314	1/2" Dr. 6Pt. Impact Socket 21mm
34315	1/2" Dr. 6Pt. Impact Socket 22mm
97631	1/2" Bit Socket for Oil Pan Screw M16
97635	1/2" Bit Socket for Oil Pan Screw H17
97104	Shock Absorber Removal Socket
97422	Universal 3-Jaw Oil Filter Wrench 63-102mm
40203	Combination Wrench 8mm
40204	Combination Wrench 9mm
40205	Combination Wrench 10mm
40206	Combination Wrench 11mm
40207	Combination Wrench 12mm
40208	Combination Wrench 13mm
40209	Combination Wrench 14mm
40210	Combination Wrench 15mm
40211	Combination Wrench 16mm
40212	Combination Wrench 17mm
40213	Combination Wrench 18mm
40214	Combination Wrench 19mm
40216	Combination Wrench 21mm
40217	Combination Wrench 22mm
40219	Combination Wrench 24mm
70101A	Long Nose Pliers 6"
70202A	Diagonal Pliers 6"
70303A	Combination Pliers 8"
72012	External Snap Ring Pliers, Straight Tips 7"
72022	External Snap Ring Pliers, Curved Tips 7"
72032	Internal Snap Ring Pliers 7", Straight Tips

No.	Product Name
72042	Internal Snap Ring Pliers 7", Curved Tips
09702	9pc Long Arm Tamper-Proof Torx® Key Set
09107	9pc Long Arm Hex Key Set
61603	Go-Through Screwdriver, Slotted 6x100mm
61703	Go-Through Screwdriver, Phillips #2x100mm
61706	Go-Through Screwdriver, Phillips #3x150mm
62202	Screwdriver, Slotted 3.2x75mm
62207	Screwdriver, Slotted 5x75mm
62302	Screwdriver, Phillips #0x75mm
62307	Screwdriver, Phillips #1x75mm
62211	Screwdriver, Slotted 6x38mm
62311	Screwdriver, Phillips #2x38mm
70812	Heavy Duty Pipe Wrench 8"
47204	Adjustable Wrench 10"
71103	Locking Pliers, Curved Jaw 10"
70512	Slip Joint Pliers 8"
97427	Oil Filter Wrench 55-75mm
97428	Oil Filter Wrench 75-95mm
48200	Flare Nut Wrench 8x10mm
48201	Flare Nut Wrench 9x11mm
48202	Flare Nut Wrench 13x14mm
48204	Flare Nut Wrench 10x12mm
90741A	Aluminum Flashlight 3-Cell AAA
03007	Mini Digital Multimeter with Frequency Test
62503	Automotive Circuit Tester 6V/12V/24V
09161	SpC Punch Set
90784	Cold Chisel 20x200mm
09704	SpC Fine Threaded Extractor Set
0113A	1/2" Professional Strong Dr. Air Impact Wrench
92302	Fiberglass Handle Ball Pein Hammer 1 Pound
02515	Air Tire Buffer





## Tool Set

No.	Product Name			
95207S	171Pc. Mechanics Tool Set	-	1	28
95208S	103Pc. Auto Body Repair Tool Set	-	1	23

- Universal tools available
- Quality SATA two-tone EVA foam lining included in each tool set for improved work efficiency
- Custom SATA EVA tool set recognized by various users with sales volume of more than 100,000 sets so far

### 95207S-171pc Mechanics Tool Set

No.	Product Name
01113A	1/2" Air Impact Wrench
09105	9pc Long Arm Ball Point Hex Key Set
09402	16pc Feeler Gauge Set 0.05-1.00mm
11304	1/4" Dr. 6Pt. Socket 5mm
11305	1/4" Dr. 6Pt. Socket 5.5mm
11306	1/4" Dr. 6Pt. Socket 6mm
11307	1/4" Dr. 6Pt. Socket 7mm
11308	1/4" Dr. 6Pt. Socket 8mm
11309	1/4" Dr. 6Pt. Socket 9mm
11310	1/4" Dr. 6Pt. Socket 10mm
11311	1/4" Dr. 6Pt. Socket 11mm
11312	1/4" Dr. 6Pt. Socket 12mm
11313	1/4" Dr. 6Pt. Socket 13mm
11403	1/4" Dr. 6Pt. Deep Socket 6mm
11404	1/4" Dr. 6Pt. Deep Socket 7mm
11407	1/4" Dr. 6Pt. Deep Socket 10mm
11902	1/4" Dr. Quick Release Ratchet 5"
11903	1/4" Dr. Extension Bar 2"
11904	1/4" Dr. Extension Bar 4"
11911	1/4" Dr. Spinner Handle
11912	1/4" Dr. Universal Joint
11922	1/4" Dr. Flexible Extension Bar 6"
12303	3/8" Dr. 6Pt. Socket 8mm
12304	3/8" Dr. 6Pt. Socket 9mm
12305	3/8" Dr. 6Pt. Socket 10mm
12306	3/8" Dr. 6Pt. Socket 11mm
12307	3/8" Dr. 6Pt. Socket 12mm
12308	3/8" Dr. 6Pt. Socket 13mm
12309	3/8" Dr. 6Pt. Socket 14mm
12310	3/8" Dr. 6Pt. Socket 15mm
12311	3/8" Dr. 6Pt. Socket 16mm
12406	3/8" Dr. 6Pt. Deep Socket 13mm
12408	3/8" Dr. 6Pt. Deep Socket 15mm
12409	3/8" Dr. 6Pt. Deep Socket 16mm
12902	3/8" Dr. Quick Release Ratchet 8"
12907	3/8" Dr. Locking Extension Bar
12908	3/8" Dr. Locking Extension Bar
12912	3/8" Dr. Universal Joint
12913	3/8" Dr. Socket Adaptor (3/8" Fx1/4" M)
12915	3/8" Dr. Spark Plug Socket 16mm
12916	3/8" Dr. Spark Plug Socket 21mm
12922	3/8" Dr. Flexible Extension Bar 8"
13301	1/2" Dr. 6Pt. Socket 10mm

No.	Product Name
13305	1/2" Dr. 6Pt. Socket 14mm
13306	1/2" Dr. 6Pt. Socket 15mm
13307	1/2" Dr. 6Pt. Socket 16mm
13308	1/2" Dr. 6Pt. Socket 17mm
13309	1/2" Dr. 6Pt. Socket 18mm
13310	1/2" Dr. 6Pt. Socket 19mm
13312	1/2" Dr. 6Pt. Socket 21mm
13313	1/2" Dr. 6Pt. Socket 22mm
13316	1/2" Dr. 6Pt. Socket 27mm
13408	1/2" Dr. 6Pt. Deep Socket 17mm
13410	1/2" Dr. 6Pt. Deep Socket 19mm
13601	1/2" Dr. 12Pt. Socket 3/8"
13602	1/2" Dr. 12Pt. Socket 11mm
13603	1/2" Dr. 12Pt. Socket 12mm
13604	1/2" Dr. 12Pt. Socket 13mm
13608	1/2" Dr. 12Pt. Socket 17mm
13610	1/2" Dr. 12Pt. Socket 19mm
13611	1/2" Dr. 12Pt. Socket 20mm
13613	1/2" Dr. 12Pt. Socket 22mm
13615	1/2" Dr. 12Pt. Socket 24mm
13617	1/2" Dr. 12Pt. Socket 30mm
13618	1/2" Dr. 12Pt. Socket 32mm
13902	1/2" Dr. Quick Release Ratchet 10"
13904	1/2" Dr. Extension Bar 5"
13905	1/2" Dr. Extension Bar 10"
13910	1/2" Dr. Sliding T-Handle 10"
13912	1/2" Dr. Universal Joint
13913	1/2" Dr. Socket Adaptor (1/2" Fx3/8" M)
12103	1/4" Dr. Bit Socket, Hexagon 5mm
12104	1/4" Dr. Bit Socket, Hexagon 6mm
12105	1/4" Dr. Bit Socket, Pozidriv #2
12102	1/4" Dr. Bit Socket, Slotted 5.5mm
12101	3/8" Dr. Bit Socket, Torx® T10
12102	3/8" Dr. Bit Socket, Torx® T15
12103	3/8" Dr. Bit Socket, Torx® T20
12104	3/8" Dr. Bit Socket, Torx® T25
12106	3/8" Dr. Bit Socket, Torx® T30
12402	1/2" Dr. Bit Socket, 50mm Length, Hexagon 5mm
12403	1/2" Dr. Bit Socket, 50mm Length, Hexagon 6mm
12404	1/2" Dr. Bit Socket, 50mm Length, Hexagon 7mm
12405	1/2" Dr. Bit Socket, 50mm Length, Hexagon 8mm
12406	1/2" Dr. Bit Socket, 50mm Length, Hexagon 10mm
125102	1/2" Dr. Bit Socket, 100mm Length, Torx® T25

No.	Product Name
25103	1/2" Dr. Bit Socket, 100mm Length, Torx® T27
25104	1/2" Dr. Bit Socket, 100mm Length, Torx® T30
25106	1/2" Dr. Bit Socket, 100mm Length, Torx® T45
25202	1/2" Dr. Bit Socket, 100mm Length, Hexagon 5mm
25203	1/2" Dr. Bit Socket, 100mm Length, Hexagon 6mm
25204	1/2" Dr. Bit Socket, 100mm Length, Hexagon 7mm
25205	1/2" Dr. Bit Socket, 100mm Length, Hexagon 8mm
25207	1/2" Dr. Bit Socket, 100mm Length, Hexagon 12mm
25208	1/2" Dr. Bit Socket, 100mm Length, Hexagon 14mm
25802	1/2" Dr. Bit Socket, 100mm Length, Triple Square M6
25803	1/2" Dr. Bit Socket, 100mm Length, Triple Square M8
25804	1/2" Dr. Bit Socket, 100mm Length, Triple Square M10
29422	Japanese Plug-External Thread R1/4"
34310	1/2" Dr. 6Pt. Impact Socket 17mm
34312	1/2" Dr. 6Pt. Impact Socket 19mm
34314	1/2" Dr. 6Pt. Impact Socket 21mm
34315	1/2" Dr. 6Pt. Impact Socket 22mm
40202	Combination Wrench 7mm
40205	Combination Wrench 10mm
40206	Combination Wrench 11mm
40207	Combination Wrench 12mm
40208	Combination Wrench 13mm
40209	Combination Wrench 14mm
40210	Combination Wrench 15mm
40211	Combination Wrench 16mm
40212	Combination Wrench 17mm
40214	Combination Wrench 19mm
40215	Combination Wrench 20mm
40216	Combination Wrench 21mm
40217	Combination Wrench 22mm
40218	Combination Wrench 23mm
40219	Combination Wrench 24mm
40221	Combination Wrench 27mm
41202	Open End Wrench 8x10mm
41203	Open End Wrench 10x12mm
41204	Open End Wrench 11x13mm
41205	Open End Wrench 12x14mm
41206	Open End Wrench 14x17mm
41207	Open End Wrench 17x19mm
41209	Open End Wrench 21x23mm
41210	Open End Wrench 22x24mm
41214	Open End Wrench 16x18mm
42302	Deep Offset Box End Wrench 8x9mm

No.	Product Name
42303	Deep Offset Box End Wrench 10x11mm
42304	Deep Offset Box End Wrench 12x13mm
42305	Deep Offset Box End Wrench 14x15mm
42307	Deep Offset Box End Wrench 18x19mm
42309	Deep Offset Box End Wrench 20x22mm
42312	Deep Offset Box End Wrench 24x27mm
47703	T-Handle 6Pt. Socket Wrench 10mm
48111	Flat Beam Torque Wrench
61101	Screwdriver, Torx® T10x100mm
61102	Screwdriver, Torx® T15x100mm
61103	Screwdriver, Torx® T20x100mm
61104	Screwdriver, Torx® T25x100mm
61105	Screwdriver, Torx® T27x100mm
61106	Screwdriver, Torx® T30x100mm
62211	Screwdriver, Slotted 6x38mm
62202	Screwdriver, Slotted 3.2x75mm
62208	Screwdriver, Slotted 5x100mm
62213	Screwdriver, Slotted 6x150mm
62216	Screwdriver, Slotted 8x150mm
62307	Screwdriver, Phillips #1x75mm
62311	Screwdriver, Phillips #2x38mm
62312	Screwdriver, Phillips #2x100mm
62316	Screwdriver, Phillips #3x150mm
64011	Flexible Magnetic Pickup Tool 400mmx1.0KG
70512	Slip Joint Pliers 8"
72001	External Snap Ring Pliers 7", Straight Tips
72002	External Snap Ring Pliers 7", Curved Tips
72004	Internal Snap Ring Pliers 7", Straight Tips
72005	Internal Snap Ring Pliers 7", Curved Tips
92313	Hickory Ball Pein Hammer 1.5 Pounds
97221	Air Blow Gun 100mm
97401	End Cap Oil Filter Wrench 65mm, 14-Flute
97403	End Cap Oil Filter Wrench 74mm, 15-Flute
97404	End Cap Oil Filter Wrench 76mm, 14-Flute
97406	End Cap Oil Filter Wrench 90mm, 15-Flute
97407	End Cap Oil Filter Wrench 93mm, 15-Flute
97422	Universal 3-Jaw Oil Filter Wrench 63-102mm
97428	Oil Filter Wrench 75-95mm
71011A	Long Nose Pliers 5"
70201A	Diagonal Pliers 5"
70302A	Combination Pliers 7"

### 95208S-103pc Auto Body Repair Tool Set

No.	Product Name
03931	Half Round Bastard Cut File 6"
03939	Half Round Smooth Cut File 6"
03971	Round Second Cut File 6"
03991	Three Square Second Cut File 6"
09105	9pc Long Arm Ball Point Hex Key Set
09408	Auto Clips Removal Pliers
11304	1/4" Dr. 6Pt. Socket 5mm
11305	1/4" Dr. 6Pt. Socket 5.5mm
11306	1/4" Dr. 6Pt. Socket 6mm
11307	1/4" Dr. 6Pt. Socket 7mm
11308	1/4" Dr. 6Pt. Socket 8mm
11309	1/4" Dr. 6Pt. Socket 9mm
11310	1/4" Dr. 6Pt. Socket 10mm
11901	1/4" Dr. Quick Release Ratchet 5"
11903	1/4" Dr. Extension Bar 2"
11904	1/4" Dr. Extension Bar 4"
11910	1/4" Dr. Sliding T-Handle 4"
11911	1/4" Dr. Spinner Handle
11912	1/4" Dr. Universal Joint
13408	1/2" Dr. 6Pt. Deep Socket 17mm
13601	1/2" Dr. 12Pt. Socket 10mm
13602	1/2" Dr. 12Pt. Socket 11mm
13603	1/2" Dr. 12Pt. Socket 12mm
13604	1/2" Dr. 12Pt. Socket 13mm
13608	1/2" Dr. 12Pt. Socket 17mm
13610	1/2" Dr. 12Pt. Socket 19mm

No.	Product Name
13611	1/2" Dr. 12Pt. Socket 20mm
13613	1/2" Dr. 12Pt. Socket 22mm
13615	1/2" Dr. 12Pt. Socket 24mm
13617	1/2" Dr. 12Pt. Socket 30mm
13618	1/2" Dr. 12Pt. Socket 32mm
13619	1/2" Dr. 12Pt. Socket 8mm
13902	1/2" Dr. Quick Release Ratchet 10"
13904	1/2" Dr. Extension Bar 5"
13905	1/2" Dr. Extension Bar 10"
13910	1/2" Dr. Sliding T-Handle 10"
13912	1/2" Universal Joint
12102	1/4" Dr. Bit Socket, Torx® T10
12103	1/4" Dr. Bit Socket, Torx® T15
12104	1/4" Dr. Bit Socket, Torx® T20
12105	1/4" Dr. Bit Socket, Torx® T25
12106	1/4" Dr. Bit Socket, Torx® T30
12107	1/4" Dr. Bit Socket, Torx® T40
12201	1/4" Dr. Bit Socket, Hexagon 5mm
12202	1/4" Dr. Bit Socket, Hexagon 4mm
12203	1/4" Dr. Bit Socket, Hexagon 5mm
12204	1/4" Dr. Bit Socket, Hexagon 6mm
12205	1/4" Dr. Bit Socket, Hexagon 8mm
12301	1/4" Dr. Bit Socket, Phillips #1
12302	1/4" Dr. Bit Socket, Phillips #2
12501	1/4" Dr. Bit Socket, Slotted 4mm
12502	1/4" Dr. Bit Socket, Slotted 5.5mm




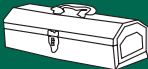
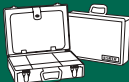
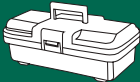

No.	Product Name
21503	1/4" Dr. Bit Socket, Slotted 6.5mm
21502	1/2" Dr. Bit Socket, 100mm Length, Torx® T25
21503	1/2" Dr. Bit Socket, 100mm Length, Torx® T25
21504	1/2" Dr. Bit Socket, 100mm Length, Torx® T30
21505	1/2" Dr. Bit Socket, 100mm Length, Torx® T40
25202	1/2" Dr. Bit Socket, 100mm Length, Hexagon 5mm
25203	1/2" Dr. Bit Socket, 100mm Length, Hexagon 6mm
25204	1/2" Dr. Bit Socket, 100mm Length, Hexagon 7mm
25205	1/2" Dr. Bit Socket, 100mm Length, Hexagon 8mm
25207	1/2" Dr. Bit Socket, 100mm Length, Hexagon 12mm
25208	1/2" Dr. Bit Socket, 100mm Length, Hexagon 14mm
41202	Open End Wrench 8x10mm
41203	Open End Wrench 10x12mm
41204	Open End Wrench 11x13mm
41205	Open End Wrench 12x14mm
41206	Open End Wrench 14x17mm
41207	Open End Wrench 17x19mm
41209	Open End Wrench 21x23mm
41210	Open End Wrench 22x24mm
41214	Open End Wrench 16x18mm
47250	Dipping Handle Adjustable Wrench 8"
61101	Screwdriver, Torx® T10x100mm
61102	Screwdriver, Torx® T15x100mm
61103	Screwdriver, Torx® T20x100mm
61104	Screwdriver, Torx® T25x100mm
61105	Screwdriver, Torx® T27x100mm

No.	Product Name
61106	Screwdriver, Torx® T30x100mm
62211	Screwdriver, Slotted 6x38mm
62202	Screwdriver, Slotted 3.2x75mm
62208	Screwdriver, Slotted 5x100mm
62213	Screwdriver, Slotted 6x150mm
61906	Screwdriver, Slotted 8x150mm
62307	Screwdriver, Phillips #1x75mm
62311	Screwdriver, Phillips #2x38mm
62312	Screwdriver, Phillips #2x100mm
61706	Go-Through Screwdriver, Phillips #3x150mm
71107	Quick Release Locking Pliers, Curved Jaw 10"
71301	Locking Pliers 6", Long Nose
71501	Locking Pliers 8", Wide Jaw
71601	Locking Pliers 11", C-Shaped Jaw
92101	Standard Bumping Hammer 320g
92103	Curved Pein Finishing Hammer 305g
92203	Arnold Dolly
92205	Wedge Dolly
92207	Toe Dolly
92313	Hickory Ball Pein Hammer 1.5 Pounds
92551	Pinch Bar18x400mm
92603	Hickory Soft Face Hammer 40mm
93101	Aviation Snips, Left Cut 10"
93102	Aviation Snips, Right Cut 10"
93405	Aluminum Hacksaw 12"



# Tool Storage

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	Portable Tool Bag	<b>21-25</b>
	Combination Case	<b>26-27</b>
	Safety Case	<b>27</b>
	Metal Toolbox	<b>28-29</b>
	Aluminum Alloy Toolbox	<b>29</b>
	Plastic Toolbox	<b>29-30</b>
	Metal Tool Trolley	<b>30-35</b>



# Tool Storage

## Portable Tool Bag



- 600D polyester cloth, durable
- Thickened lining, wear-resistant, effectively prevent sharp objects from puncturing

No.	Spec.	L×W×H(mm)			
95181	13"	330×215×250	-	10	8.6
95182	16"	380×260×300	-	10	9.8

▲ No warranty as consumables

## 95185 Portable Tool Bag 16"



- 600D polyester cloth, durable
- Thickened lining, wear-resistant, effectively prevent sharp objects from puncturing

No.	Spec.	L×W×H(mm)			
95185	16"	400×220×250	-	2	5.8

▲ No warranty as consumables

## Portable Tool Bag



- 900D polyester cloth, durable
- Thickened lining, wear-resistant, effectively prevent sharp objects from puncturing

No.	Spec.	L×W×H(mm)			
95183	14"	360×230×300	-	10	11.4
95184	17"	440×330×300	-	10	19.1

▲ No warranty as consumables

## 95186 Electricians Tool Bag 16"



- Specially designed for electricians, multi-layer flip can facilitate the storage and use of tools

No.	Spec.	L×W×H(mm)			
95186	16"	420×250×300	-	2	4.7

▲ No warranty as consumables



## 95187 Open Tote Tool Bag 19"



- Full opening design, very convenient to store large items

No.	Spec.	L×W×H(mm)			
95187	19"	400×200×290	-	2	4.7

▲ No warranty as consumables

## 95188 Trolley Tool Bag 17"



- Pull rod design with caster, can store a large number of items, easy to carry

No.	Spec.	L×W×H(mm)			
95188	17"	430×240×380	-	1	54

▲ No warranty as consumables

## 95193 Portable Tool Bag 16"



- 900D polyester cloth ,durable
- Convenient storage of notebook computers and documents

No.	Spec.	L×W×H(mm)			
95193	16"	400×160×300	-	6	6.7

▲ No warranty as consumables

## 95198 Tool Backpack 18"



- 1680D polyester cloth ,durable
- Convenient storage of notebook computers and documents

No.	Spec.	L×W×H(mm)			
95198	18"	350×200×450	-	6	74

▲ No warranty as consumables





## 95211 4-Pocket Tool Pouch



- 900D polyester fabric, durable
- Supporting bag mouth, easy to use tools in working environment

No.	L×H(mm)			
95211	110×235	-	20	1.8

▲ No warranty as consumables

## 95213 8-Pocket Tool Pouch



- 900D polyester fabric, durable
- Supporting bag mouth, easy to use tools in working environment

No.	L×H(mm)			
95213	250×320	-	20	11.2

▲ No warranty as consumables

## 95212 6-Pocket Tool Pouch



- 900D polyester fabric, durable
- Supporting bag mouth, easy to use tools in working environment

No.	L×H(mm)			
95212	250×280	-	20	8.1

▲ No warranty as consumables

## 95215 Tool Belt



- 900D polyester fabric, durable
- Supporting bag mouth, easy to use tools in working environment

No.	Small Bag(mm)	Waistband(mm)			
95215	190×100	1200×50	-	40	7.6

▲ No warranty as consumables



## Professional Double-Opening Portable Tool Bag



- 1680D dual-layer waterproof Oxford fabric for firmness and durability
  - Opened on both side for reasonable tool placement and easy access
  - Bottom made from engineering plastic against wearing, tapping and humidity
- Note: Toolkit is made from soft material with size subjected to actual products.

No.	Spec.	L×W×H(mm)			
95189	14"	350×200×280	-	2	5.5
95190	17"	400×225×335	-	2	6.8

▲ No warranty as consumables

## 95191 Professional Opening Portable Tool Bag 14"



- 1680D dual-layer waterproof Oxford fabric for firmness and durability
  - Opening design for holding large items and easy access
  - Bottom made from engineering plastic against wearing, tapping and humidity
- Note: Toolkit is made from soft material with size subjected to actual products.

No.	Spec.	L×W×H(mm)			
95191	14"	370×240×280	-	2	5

▲ No warranty as consumables

## 95195 Professional Portable Tool Bag with Plastic Bottom 20"



- 1680D dual-layer waterproof Oxford fabric for firmness and durability
  - External sidekick for easy access
  - Bottom made from engineering plastic against wearing, tapping and humidity
- Note: Toolkit is made from soft material with size subjected to actual products.

No.	Spec.	L×W×H(mm)			
95195	20"	460×220×380	-	4	9.4

▲ No warranty as consumables

## Professional Portable Tool Bag



- 1680D dual-layer waterproof Oxford fabric for firmness and durability
  - External sidekick for easy access
  - Reflective warning strip provided for safety at night
- Note: Toolkit is made from soft material with size subjected to actual products.

No.	Spec.	L×W×H(mm)			
95196	14"	380×260×300	-	8	11.7
95197	17"	430×300×330	-	5	11.2

▲ No warranty as consumables



## 95199 Professional Portable Tool Bag 16"



- 1680D dual-layer waterproof Oxford fabric for firmness and durability
  - Box design for orderly tool storage
  - Bottom made from engineering plastic against wearing, tapping and humidity
- Note: Toolkit is made from soft material with size subjected to actual products.

No.	Spec.	L×W×H(mm)			
95199	16"	400×230×280	-	2	4

▲ No warranty as consumables

## 95131A Adjustable Partition Box



- Handles provided on both sides for convenience
- Hidden buckle for easy stacking and firmness
- Various fittings including partition provided for convenience and free division of storage area

No.	L×W×H(mm)			
95131A	420×320×134	-	4	12

▲ No warranty as consumables

## 95210 Professional Trolley Tool Bag 17"



- 1680D dual-layer waterproof Oxford fabric for firmness and durability
  - Pull rod and casters provided to facilitate carriage
  - External multi-pocket design for easy access
- Note: Toolkit is made from soft material with size subjected to actual products.

No.	Spec.	L×W×H(mm)			
95210	17"	400×230×280	-	1	6.2

▲ No warranty as consumables

## 95132A Adjustable Partition Box



- Handles provided on both sides for convenience
- Hidden buckle for easy stacking and firmness
- Various fittings including partition provided for convenience and free division of storage area

No.	L×W×H(mm)			
95132A	420×320×174	-	4	13.3

▲ No warranty as consumables





## Dampproof Stackable Box



95320



95321






95322



95327

- Box made from new PP material for high strength and impact resistance
- Passed IP65 waterproof test against water vapor and dust in various working conditions
- Special buckle for firmness
- Pull rod with 9" casters for rugged road conditions

No.	Product Name	Spec.	L×W×H(mm)			
95320	Dampproof Stackable Box 20L	20L	585×410×170	-	1	5
95321	Dampproof Stackable Box 40L	40L	585×410×284	-	1	6.3
95322	Dampproof Trolley Stackable Box 65L	65L	585×484×716	-	2	22.3
95327	Dampproof Trolley Stackable Box	3 Boxes	585×484×842	-	1	21.7

! No warranty as consumables



## Safety Case

\*Standard sponge included



- Solid body made from quality materials with unique structure design, being light and solid
- Lock catch for easy operation and impact resistance
- Quality water-proof vent valve adopted for automatic pressure adjustment, ensuring easy opening of the case and keeping it dry inside
- IP67 waterproof test passed for high dampproofness and waterproofness, preventing water vapor and dust from entering it in various complex working conditions
- Various accessories available, including built-in sponge, partitions and file bags

No.	Spec.	External dimension L×W×H(mm)	Internal dimension L×W×H(mm)			
95301	19"	493×395×185	462×334×170	-	1	3.9
95305	15"	395×299×148	334×237×132	-	1	2.9
95306	16"	413×328×168	381×267×152	-	1	3.2
95307	18"	464×358×208	432×297×193	-	1	3.9
95308	22"	570×418×228	508×356×220	-	1	6.8

▲ Nature of this product is subject to wear and tear upon usage. Not covered under lifetime warranty(one-year warranty).

## Safety Trolley Case

\*Standard sponge included



No.	Spec.	External dimension L×W×H(mm)	Internal dimension L×W×H(mm)			
95302	23"	587×358×221	525×297×192	1	1	6.1
95303	22"	570×418×285	508×356×254	-	1	7.9
95304	24"	624×498×353	563×437×323	1	1	9
95309	24"	624×498×285	563×437×254	-	1	8.4
95310	31"	802×522×298	741×461×267	-	1	9.9

▲ Nature of this product is subject to wear and tear upon usage. Not covered under lifetime warranty(one-year warranty).

***Solid body made from quality materials with unique structure design, featuring light and solid***

Lock catch featuring easy operation and impact resistance

Various accessories available, including built-in sponge, partitions and file bags

Solid body made from quality materials with unique structure design, featuring light and solid

Quality water-proof vent valve adopted for automatic pressure adjustment, ensuring easy opening of the case and keeping it dry inside



IP67 waterproof test passed for high moistureproof and waterproof, preventing water vapor and dust from entering it in various complex working conditions

Specially strengthened handle and pull rod for bearing greater weight Soft handle for comforty

**95101 Tool Box 14"**

- Manufactured from heavy gauge sheet steel with powder coated finish
- Strong comfortable handle

No.	L×W×H(mm)			
95101	360×150×115	-	1	2

**95104A 5-Tray Tool Box 17"**

- Manufactured from heavy gauge sheet steel with powder coated finish
- Strong comfortable handle

No.	L×W×H(mm)			
95104A	430×200×200	-	1	4.7

**95102 Tool Box 17"**

- Manufactured from heavy gauge sheet steel with powder coated finish
- Strong comfortable handle

No.	L×W×H(mm)			
95102	428×177×184	-	1	4.4

**95115 Tool Box 16"**

- Manufactured from heavy gauge sheet steel with powder coated finish

No.	L×W×H(mm)			
95115	420×155×120	-	1	2.3

**95103A Tool Box 20"**

- Manufactured from heavy gauge sheet steel with powder coated finish
- Strong comfortable handle

No.	L×W×H(mm)			
95103A	508×218×243	-	1	6.3

**95116 3-Tray Tool Box 14"**

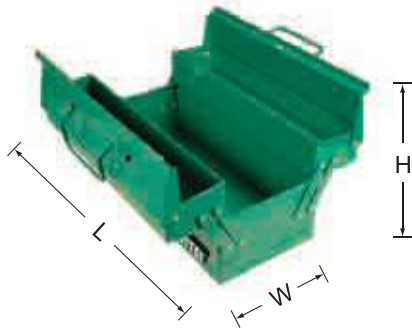
- Tote tray included
- Manufactured from heavy gauge sheet steel with powder coated finish

No.	L×W×H(mm)			
95116	350×160×165	-	1	2.4





### 95117 3-Tray Tool Box 17"



- Tote tray included for space efficiency
- Manufactured from heavy gauge sheet steel with powder coated finish

No.	L×W×H(mm)			
95117	430×200×175	-	1	3.7

### 03601 Aluminum Portable Case 16"



- Matte surface with silvery white stripes for resistance to friction and mild corrosion
- Reinforced inner metal frame for excellent impact resistance
- Protective ABS corners for improved wear resistance and shock absorbent
- Perforated EVA foam insert for storage compartments

No.	L×W×H(mm)			
03601	425×305×125	-	1	13.3

### 03621 Aluminum Trolley Case 24"



- Load capacity of 20kg to avoid caster damage
- Impact resistance
- Structure force up to 100kg, and surface panel force up to 50kg, with strict impact test passed
- Multipurpose with separators dividing the storage space arbitrarily
- Double lock structure and anti-shock EVA foam lining for safety and airtightness
- New appearance with coffee panel and silver accessories, being fashionable

No.	L×W×H(mm)			
03621	490×420×230	-	1	8.8

### 95161 Plastic Tool Box 15"



- The box is made of reinforced PP material, which features high strength and impact-resistance
- Its lock and handle are made of ABS engineering plastics, which are solid and durable
- Including laminates for easily creating storage partition
- Widely used in industrial installation, construction, after-sales maintenance, etc

No.	L×W×H(mm)			
95161	385×202×140	-	6	5.2

▲ No warranty as consumables

### 95162 Plastic Tool Box 16"



- The box is made of reinforced PP material, which features high strength and impact-resistance
- Its lock and handle are made of ABS engineering plastics, which are solid and durable
- Including laminates for easily creating storage partition
- Widely used in industrial installation, construction, after-sales maintenance, etc

No.	L×W×H(mm)			
95162	400×225×203	-	6	12.3

▲ No warranty as consumables

### 95163 Plastic Tool Box 18"



- The box is made of reinforced PP material, which features high strength and impact-resistance
- Its lock and handle are made of ABS engineering plastics, which are solid and durable
- Including laminates for easily creating storage partition
- Widely used in industrial installation, construction, after-sales maintenance, etc

No.	L×W×H(mm)			
95163	450×243×210	-	6	13.7

▲ No warranty as consumables





## 95164 Plastic Tool Box 21"

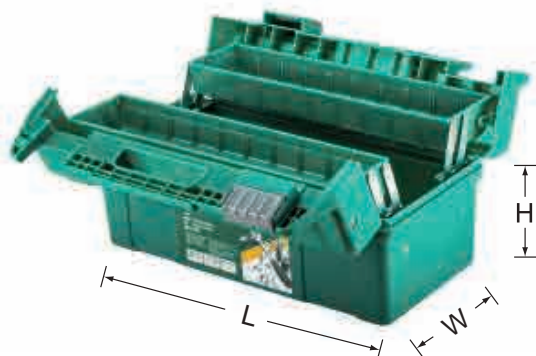


- The box is made of reinforced PP material, which features high strength and impact-resistance
- Its lock and handle are made of ABS engineering plastics, which are solid and durable
- Including laminates for easily creating storage partition
- Widely used in industrial installation, construction, after-sales maintenance, etc

No.	L×W×H(mm)			
95164	530×235×220	-	6	16.8

▲ No warranty as consumables

## 95166 3-Tray Plastic Tool Box 17"



- The box is made of reinforced PP material, which features high strength and impact-resistance
- Its lock and handle are made of ABS engineering plastics, which are solid and durable
- Including laminates for easily creating storage partition
- Widely used in industrial installation, construction, after-sales maintenance, etc

No.	L×W×H(mm)			
95166	440×230×250	-	6	15.4

▲ No warranty as consumables

## 95108A 1-Drawer Service Cart



- Compact size for multiple usages
- Top tray for easy tools placement while work-in-progress
- Bottom tray-cater for big size tools which can't fit into drawers
- Drawer load capacity 35kg
- Total load capacity 150kg

No.	L×W×H(mm)			
95108A	841×414×827	-	1	26.2

## 95111 Sliding Door Service Cart



- See-through net structure on side panels
- Shuttle door for easy opening/closing
- Open top tray for easy tools placement
- Drawer load capacity 20kg
- Total load capacity 100kg

No.	L×W×H(mm)			
95111	631×382×818	-	1	21.7

▲ No warranty as consumables



## 95107A 7-Drawer Coded Lock Roller Cabinet

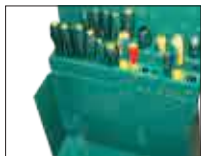
\*Warranty of coded lock is 12 months



Before unlocking



After unlocking



Screwdriver Toolbox with Lock



Trolley handle with PVC cover



Two 5" swivel (with stopper) and two 5" fixed casters with pin rolling bearings

- Rotating side column locking mechanism for long service life
- Internal drawer size: Drawers 1-5: 570\*382\*65mm (L\*W\*H)
- Drawers 6-7: 570\*382\*145mm (L\*W\*H)
- Electronic code lock with password of 4-10 digits
- High durability roller tracks enable smooth sliding
- Quality casters running smoothly and steadily, without sliding after braking
- 1.2mm thickness steel body for strength and durability
- Drawer load capacity 35kg
- Total load capacity 240kg

## 95222A 3-Layer Service Cart



Column with folded edge for increased support for the middle tray



Curved column design to avoid collision with the workpiece



Large caster for higher bearing capacity and more smooth running

- Through beam design for stronger bearing capacity
- Column with folded edge for increased support for the middle tray
- Curved column design to avoid collision with the workpiece
- Large caster for higher bearing capacity and more smooth running

No.	L×W×H(mm)			
95107A	740×480×980	1	1	85

No.	L×W×H(mm)			
95222A	840×400×920	-	1	194





## 95121 5 Drawer Roller Cabinet



Round socket lock



5" heavy duty casters for durability



Drawer liners in all drawers (EVA foam)



45mm ball slide for higher load capacity



Powder coating on grey pockmarked surface, avoiding scratch



Thickened bright aluminum alloy handle for elegance



Strengthened backboard



Cabinet door with integrated hinge

- Five drawers design to meet the needs of auto repair, being cost-effective
- Internal drawer size: Drawers 1-3: 563\*404\*90mm (L\*W\*H)
- Drawers 4-5: 563\*404\*145mm (L\*W\*H)
- Four clipped corners with strengthened backboard for better strength and durability
- 45mm ball bearing slide and single drawer load capacity 35kg for exceptional load capacity
- 5" heavy duty casters for smooth running and durability
- Thickened bright aluminum alloy handle, being elegant and durable
- Two-tone powder coating, being elegant and generous
- Powder coating on grey pockmarked surface, avoiding scratch
- Drawer liners in all drawers (EVA foam)
- Total load capacity 200kg

No.	L×W×H(mm)			
95121	770×470×896	-	1	57

## 95123 2 Drawer Roller Cabinet



Round socket lock



5" heavy duty casters for durability



Powder coating on grey pockmarked surface, avoiding scratch



Liners in all drawers (EVA foam)



45mm ball slide for higher load capacity



Thickened bright aluminum alloy handle for elegance



Cabinet door with integrated hinge



Partition board included inside



Drawer liners on all boards (EVA foam)

- Two drawers with tool cabinet, facilitating maintenance, and being cost-effective
- Internal drawer size: Drawers 1-2: 563\*404\*90mm (L\*W\*H)
- Partition size of each inner panel: 195\*390mm (L\*W)
- Four clipped corners with strengthened backboard for better strength and durability
- 45mm reinforced ball slide and single drawer load capacity 35kg for exceptional load capacity
- 5" heavy duty casters for smooth running and durability
- Thickened bright aluminum alloy handle, being elegant and durable
- Two-tone powder coating, being elegant and generous
- Powder coating on grey pockmarked surface, avoiding scratch
- Drawer liners in all drawers (EVA foam)
- Total load capacity 200kg

No.	L×W×H(mm)			
95123	770×470×896	-	1	43



## 95207 7- Drawer Roller Cabinet



Four columns of tool trolley with circular arc design for higher impact resistance



Integrated table top with screwdriver slot



Integrated table top with parts tray for storing small items; Integrated handle for comfort



Both sides of the tool trolley provided with storage boxes for convenient storage of can-like workpieces



Removable storage box provided for tool trolley

- Solid structure and powder coating for complex working environment
- Internal drawer size: Drawers 1-5: 570\*380\*63mm (L\*W\*H)
- Drawer 6: 570\*380\*135mm (L\*W\*H)
- Drawer 7: 570\*380\*182mm (L\*W\*H)
- Quality slide for smooth drawer movement
- Quality casters for smooth and steady running with no sliding after braking
- Injection molded worktable for higher strength
- Load capacity of single drawer from drawer 1 to drawer 6 of 35kg, and that of drawer 7 of 45kg
- Total load capacity 300kg
- Tool set available: 95207S
- A set of 171 pieces of general repair tools (suitable for 95207 tool trolley)

## 95208 5-Drawer Roller Cabinet



Optional with 70841 heavy duty square steel bench vice 4" (to be purchased separately)



Mounting hole reserved for bench vice



Stainless steel top for elegance and durability



Quality cabinet door lock



Both sides of the tool trolley provided with storage boxes for convenient storage of can-like workpieces



Removable storage box provided for tool trolley

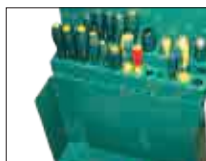
- Solid structure and powder coating for complex working environment
- Internal drawer size: Drawers 1-3: 570\*380\*63mm (L\*W\*H)
- Drawer 4: 570\*380\*135mm (L\*W\*H)
- Drawer 5: 570\*380\*182mm (L\*W\*H)
- Worktable made of stainless steel and reinforced with density plate for higher strength
- Mounting hole for bench vice reserved, being convenient and practical
- Quality slide for smooth drawer movement
- Quality casters for smooth and steady running with no sliding after braking
- Injection molded worktable for higher strength
- Load capacity of single drawer from drawer 1 to drawer 4 of 35kg, and that of drawer 5 of 45kg
- Total load capacity 300kg

No.	L×W×H(mm)			
95207	805×490×1000	-	1	83

No.	L×W×H(mm)			
95208	1180×480×860	-	1	100



**95107 7-Drawer Roller Cabinet**



### Screwdriver Toolbox with Lock






Trolley handle with PVC cover

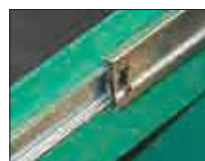


Two 5" swivel (with stopper)  
and two 5" fixed casters with  
pin rolling bearings

- 1.2mm thickness steel body for strength and durability
- Internal drawer size: Drawers 1-5: 570\*382\*65mm (L\*W\*H)
- Drawers 6-7: 570\*382\*142mm (L\*W\*H)
- Two 5" swivel (with stopper) and two 5" fixed casters with pin rolling bearings for high flexibility and load capacity
- Screwdriver compartment for easy and convenient storage
- PVC handle for comfortable grip
- Single drawer load capacity 35kg
- Total load capacity 240kg

No.	L×W×H(mm)			
95107	679×458×1007	-	1	101

**95109 8-Drawer Roller Cabinet**



High-strength guide rail for smoothness and long service life






Trolley handle with PVC cover



Two 5" swivel (with stopper)  
and two 5" fixed casters with  
pin rolling bearings

- Suitable for auto repair technicians
- 1.2mm thickness steel body for strength and durability
- Two 5" swivel (with stopper) and two 5" fixed casters with pin rolling bearings for high flexibility and load capacity
- Cabinet with door lock for storing large tools
- Single drawer load capacity 35kg
- Total load capacity 240kg
- Quality solid wood operating floor, facilitating tool operation with low noise

No.	L×W×H(mm)			
95109	1035×457×897	-	1	110.6

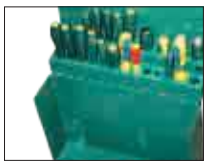




## 95118 2-Drawer Utility Cart



## 95119 4-Drawer Utility Cart



Screwdriver Toolbox with Lock



Foldable workbench for easy operation



Bottom tray for storing large tools



Top cover supported with air spring



High-strength guide rail for smoothness and long service life



Trolley handle with PVC cover



Top cover supported with air spring



12mm thickness steel body for strength and durability



Tool jack for inserting pry bar, torsion wrench and other long tools



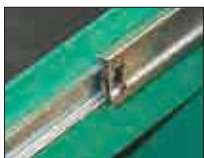
12mm thickness steel body for strength and durability



4 column protective covers for effectively preventing collision between the tool trolley, vehicles, machine tools and other equipment



Two 5" swivel (with stopper) and two 5" fixed casters with pin rolling bearings



High-strength guide rail for smoothness and long service life



Two 5" swivel (with stopper) and two 5" fixed casters with pin rolling bearings

- Single drawer load capacity 35 kg
- Total load capacity 240 kg










- Single drawer load capacity 35 kg
- Total load capacity 240 kg

No.	L×W×H(mm)			
95118	880×416×1029	-	1	55

No.	L×W×H(mm)			
95119	877×549×1015	-	1	87



# Socket & Ratchet

	Socket Set	<b>37-42</b>
	6.3mm Socket and Accessories	<b>43-47</b>
	10mm Socket and Accessories	<b>47-50</b>
	12.5mm Socket and Accessories	<b>51-56</b>
	19mm Socket and Accessories	<b>56-57</b>
	Pass-Thru Socket and Accessories	<b>58-59</b>
	6.3mm Dr. Bit Socket	<b>59-60</b>
	10mm Dr. Bit Socket	<b>60-62</b>
	12.5mm Dr. Bit Socket	<b>62-64</b>

# Socket & Ratchet

## 09521 21Pc. 1/4" Dr. Socket Set



- 11Pc. 1/4" Dr. 6Pt. Socket (4,5,6,8,9,10,11,12,13,14mm)
- 1Pc. 1/4" Dr. Quick Release Ratchet 5"
- 1Pc. 1/4 Dr. Extension Bar 2"
- 1Pc. 1/4" Dr. Spinner Handle
- 1Pc. Bit Adaptor 1/4"Fx1/4"Hexagon
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Slotted (4,5,6mm)
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Phillips (#1,#2,#3)

No.			
09521	6	12	17.3

▲ Please comply with the warranty terms for each open stock product in the set

## 09524 22Pc. 3/8" Dr. Socket Set



- 14Pc. 3/8" Dr. 6Pt. Socket (6,7,8,9,10,11,12,13,14,15,16,17,18,19mm)
- 5Pc. 3/8" Dr. 6Pt. Deep Socket (12,13,14,17,19mm)
- 1Pc. 3/8" Dr. Spark Plug Socket 16mm
- 1Pc. 3/8" Dr. Quick Release Ratchet 8"
- 1Pc. 3/8" Dr. Extension Bar 6"

No.			
09524	-	10	18.5

▲ Please comply with the warranty terms for each open stock product in the set

## 09523 14Pc. 3/8" Dr. Socket Set



- 12Pc. 3/8" Dr. 6Pt. Socket (8,9,10,11,12,13,14,15,16,17,18,19mm)
- 1Pc. 3/8" Dr. Quick Release Ratchet 8"
- 1Pc. 3/8" Dr. Extension Bar 3"

No.			
09523	4	12	16.4

▲ Please comply with the warranty terms for each open stock product in the set

## 09525 15Pc. 1/2" Dr. Socket Set



- 13Pc. 1/2 Dr.6Pt. Socket (10,12,13,14,15,16,17,18,19,20,21,22,24mm)
- 1Pc. 1/2" Dr. Quick Release Ratchet 10"
- 1Pc. 1/2" Dr. Extension Bar 5"

No.			
09525	2	4	14.8

▲ Please comply with the warranty terms for each open stock product in the set







## 09137 13Pc. 1/4" & 3/8" Series Boltbiter Set



- 2Pc. 1/4" Series Boltbiter Socket (7B, 8Bmm)
- 8Pc. 3/8" Series Boltbiter Socket (10B, 11B, 12B, 13B, 14B, 16B, 17B, 19Bmm)
- 1Pc. 3/8" DR. Quick Release Ratchet W/Grip 8"
- 1Pc. 3/8" Socket Adaptor, 3/8" Fx1/4" M
- 1Pc. 3/8" DR. Extension Bar 6"
- Bi-directional design for removing or tightening damaged fasteners
- Tapered entry enables socket to easily seat on a damaged fastener
- Square drive with hex base for use with impact gun, ratchet, wrench or pliers
- Chrome molybdenum (Cr-Mo) alloy steel for exceptional strength and long lasting durability

No.			
09137	1	4	6.2

## 09138 23Pc. 1/4" & 3/8" Series Boltbiter Set



- 4Pc. 1/4" Series Boltbiter Socket (7A, 7B, 8A, 8Bmm)
- 16Pc. 3/8" Series Boltbiter Socket (10A, 10B, 11A, 11B, 12A, 12B, 13A, 13B, 14A, 14B, 16A, 16B, 17A, 17B, 19A, 19Bmm)
- 1Pc. 3/8" DR. Quick Release Ratchet W/Grip 8"
- 1Pc. 3/8" Socket Adaptor, 3/8" Fx1/4" M
- 1Pc. 3/8" DR. Extension Bar 6"
- Bi-directional design for removing or tightening damaged fasteners
- Tapered entry enables socket to easily seat on a damaged fastener
- Square drive with hex base for use with impact gun, ratchet, wrench or pliers
- Chrome molybdenum (Cr-Mo) alloy steel for exceptional strength and long lasting durability

No.			
09138	1	4	20.9

## 09001 36Pc. 1/4" Dr. Socket Set



- 14Pc. 1/4" Dr. 6Pt. Socket (3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14)
- 5Pc. 1/4" Dr. 6Pt. Deep Socket (8, 10, 11, 12, 13mm)
- 1Pc. 1/4" Dr. Quick Release Ratchet 5"
- 2Pc. 1/4" Dr. Extension Bar (2", 4")
- 1Pc. 1/4" Dr. Sliding T-Handle 4"
- 1Pc. 1/4" Dr. Universal Joint
- 1Pc. 1/4" Dr. Flexible Extension Bar 6"
- 1Pc. 1/4" Dr. Spinner Handle
- 1Pc. 1/4" Dr. Bit Adaptor 1/4" Fx1/4" Hexagon
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Slotted (4, 5, 6mm)
- 2Pc. 1/4" Hex Shank Bits, 25mm Length, Phillips (#1, #3)
- 4Pc. 1/4" Hex Shank Bits, 25mm Length, Hexagon (3, 4, 5, 6mm)

No.			
09001	-	12	17.8

▲ Please comply with the warranty terms for each open stock product in the set

## 09002 52Pc. 1/4" Dr. Socket Set



- 14Pc. 1/4" Dr. 6Pt. Socket (3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm)
- 4Pc. 1/4" Dr. 6Pt. Deep Socket (8, 10, 12, 13mm)
- 3Pc. 1/4" Dr. Bit Socket, Slotted (4, 5, 5.5, 6mm)
- 4Pc. 1/4" Dr. Bit Socket, Phillips (#1, #2) x2pc
- 5Pc. 1/4" Dr. Bit Socket, Hexagon (3, 4, 5, 6, 8mm)
- 6Pc. 1/4" Dr. Bit Socket, Torx® (T10, T15, T20, T25, T30, T40)
- 1Pc. 1/4" Dr. Quick Release Ratchet 5"
- 2Pc. 1/4" Dr. Extension Bar (2", 4")
- 1Pc. 1/4" Dr. Sliding T-Handle 4"
- 1Pc. 1/4" Dr. Universal Joint
- 1Pc. 1/4" Dr. Spinner Handle
- 1Pc. 1/4" Dr. Bit Adaptor 1/4" Fx1/4" Hexagon
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Slotted (4, 5, 6mm)
- 2Pc. 1/4" Hex Shank Bits, 25mm Length, Phillips (#1, #3)
- 4Pc. 1/4" Hex Shank Bits, 25mm Length, Hexagon (3, 4, 5, 6mm)

No.			
09002	-	12	18.2

▲ Please comply with the warranty terms for each open stock product in the set



## 09004 60Pc. 3/8" Dr. Socket Set



- 18Pc. 3/8" Dr. 6Pt. Socket (6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,24mm)
- 11Pc. 3/8" Dr. 6Pt. Deep Socket (8,10,11,12,13,14,15,16,17,18,19mm)
- 2Pc. 3/8" Dr. Spark Plug Socket (16,21mm)
- 3Pc. 3/8" Dr. Bit Socket, Slotted (5,5.6,5.8mm)
- 5Pc. 3/8" Dr. Bit Socket, Phillips (#1x2pc,#2x2pc,#3x1pc)
- 7Pc. 3/8" Dr. Bit Socket, Hexagon (3,4,5,6,7,8,10mm)
- 9Pc. 3/8" Dr. Bit Socket, Torx® (T10,T15,T20,T25,T30,T40,T45,T50,T55)
- 1Pc. 3/8" Dr. Quick Release Ratchet 8"
- 2Pc. 3/8" Dr. Extension Bar (3",10")
- 1Pc. 3/8" Dr. Universal Joint
- 1Pc. 1/2" Dr. 3-Way Socket Adaptor
- 1Pc. 1/4" Dr. Bit Adaptor 1/4"Fx1/4"Hexagon
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Slotted (4,5,6mm)
- 2Pc. 1/4" Hex Shank Bits, 25mm Length, Phillips (#1,#3)
- 4Pc. 1/4" Hex Shank Bits, 25mm Length, Hexagon (3,4,5,6mm)

No.			
09004	-	3	14.9

▲ Please comply with the warranty terms for each open stock product in the set

## 09006 46Pc. 1/2" Dr. Socket Set Metric & SAE



- 20Pc. 1/2" Dr. 6Pt. Socket (8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,24,27,30,32,34mm)
- 11Pc. 1/2" Dr. 6Pt. Deep Socket (3/8",7/16",1/2",9/16",5/8",11/16",3/4",13/16",7/8",15/16",1")
- 7Pc. 1/2" Dr. 6Pt. Deep Socket (10,12,13,14,15,17,19mm)
- 2Pc. 1/2" Dr. Spark Plug Socket (16,21mm)
- 1Pc. 1/2" Dr. Quick Release Ratchet 10"
- 2Pc. 1/2" Dr. Extension Bar (5",10")
- 1Pc. 1/2" Dr. Flexible Handle 10"
- 1Pc. 1/2" Dr. Universal Joint
- 1Pc. 3/8" Dr. 3-Way Socket Adaptor

No.			
09006	-	3	214

▲ Please comply with the warranty terms for each open stock product in the set

## 09005 23Pc. 1/2" Dr. Socket Set



- 16Pc. 1/2" Dr. 6Pt. Socket (10,11,12,13,14,15,16,17,18,19,22,24,27,30,32,34mm)
- 3Pc. 1/2" Dr. 6Pt. Deep Socket (13,17,19mm)
- 1Pc. 1/2" Dr. Quick Release Ratchet 10"
- 1Pc. 1/2" Dr. Extension Bar 10"
- 1Pc. 1/2" Dr. Universal Joint
- 1Pc. 3/8" Dr. 3-Way Socket Adaptor

No.			
09005	-	4	24.3

▲ Please comply with the warranty terms for each open stock product in the set

## 09007 60Pc. 1/2" Dr. Socket Set



- 17Pc. 1/2" Dr. 6Pt. Socket (10,11,12,13,14,15,16,17,18,19,20,21,22,24,27,30,32mm)
- 10Pc. 1/2" Dr. 6Pt. Deep Socket (10,11,12,13,14,15,16,17,18,19mm)
- 2Pc. 1/2" Dr. Spark Plug Socket (16,21mm)
- 3Pc. 1/4" Dr. Bit Socket, Slotted (4,5,5.6,5.8mm)
- 3Pc. 1/4" Dr. Bit Socket Phillips (#1,#2,#3)
- 1Pc. 1/2" Dr. Quick Release Ratchet 10"
- 2Pc. 1/2" Dr. Extension Bar (5",10")
- 1Pc. 1/2" Dr. Universal Joint
- 1Pc. 3/8" Dr. 3-Way Socket Adaptor
- 1Pc. 1/4" Dr. Spinner Handle
- 1Pc. 1/4" Dr. Bit Adaptor 1/4"Fx1/4"Hexagon
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Pozidriv (#1,#2,#3)
- 7Pc. 1/4" Hex Shank Bits, 25mm Length, Hexagon (2,3,4,5,6,7,8mm)
- 8Pc. 1/4" Hex Shank Bits, 25mm Length, Tamper-Proof Torx® (TT8,TT10,TT15,TT20,TT25,TT27,TT30,TT40)

No.			
09007	-	3	18.2




▲ Please comply with the warranty terms for each open stock product in the set



## 24Pc. 1/2" Dr. Metric Socket Set






- 1Pc. Quick-Release Ratchet
- 19Pc. Metric Sockets\* [9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,27,30,32mm]
- 4Pc. Accessories
  - Wobble Extension Bars [5",10"]
  - Universal Joint
  - T-Handle
- \* 09060: 12pt. Sockets
- 09060-6: 6pt. Sockets

No.			
09060	0	4	18.8
09060-6	0	4	18.8

**09061 25Pc 1/2" Dr. 6Pt Socket Set Metric**




- 1Pc. Quick-Release Ratchet
- 19Pc. Metric Sockets [9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,27,30,32mm]
- 5Pc. Accessories
  - Wobble Extension Bars [5",10"]
  - Flex Handle 15"
  - T-Handle
  - Universal Joint

No.			
09061	0	4	22.5

## 08005SM 15Pc. 1/2" Dr. 6 Point Metric Socket



- 1Pc. Quick-Release Ratchet
- 14Pc. 6pt. Metric Sockets [8,10,11,12,13,14,15,16,17,19,21,22,24,27mm]

No.			
08005SM	1	6	14

**09088 22Pc. 1/2" Dr. Socket Set, SAE**



- 15Pc. 1/2" Dr. 12Pt. Socket [5/16",3/8",7/16",1/2",9/16",5/8",11/16",3/4",13/16",7/8",15/16",1"-1/16"-1/8",1-1/4"]
- 1Pc. 1/2" Dr. Quick Release Ratchet 10"
- 1Pc. 1/2" Dr. Speeder Handle
- 1Pc. 1/2" Dr. Flexible Handle 10"
- 2Pc. 1/2" Dr. Extension Bar [5,10"]
- 1Pc. 1/2" Dr. Sliding T-Handle
- 1Pc. 1/2" Dr. Universal Joint

No.			
09088	-	3	22.9

⚠ Please comply with the warranty terms for each open stock product in the set.







## 09099 33Pc. 1/2" Dr. Socket Set



- 1Pc. 4-in-1 QuadBox Ratcheting Wrench 8x10x12x13mm
- 1Pc. 4-in-1 QuadBox Ratcheting Wrench 16x17x18x19mm
- 21Pc. 1/2" Dr. 6Pt. Socket (8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,27,30,32,34mm)
- 5Pc. 1/2" Dr. 12Pt. Socket (10,12,14,17,19mm)
- 1Pc. 1/2" Dr. Quick Release Ratchet 10"
- 2Pc. 1/2" Dr. Extension Bar (5",10")
- 1Pc. 1/2" Dr. Universal Joint
- 1Pc. 3/8" Dr. 3-Way Socket Adaptor

No.			
09099	-	2	11.4

▲ Please comply with the warranty terms for each open stock product in the set

## 09015 15Pc. 3/4" Dr. 12Pt. Socket Set

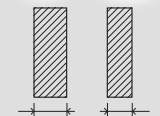


- 10Pc. 3/4" 12pt. Socket (30,32,34,36,38,41,46,50,55,60mm)
- 1Pc. 3/4" Quick-Release Ratchet
- 2Pc. 3/4" Drive Wobble Extensions (4",8")
- 1Pc. 3/4" Drive T-Handle
- 1Pc. 3/4" Universal Joint

No.			
09015	-	1	14.9



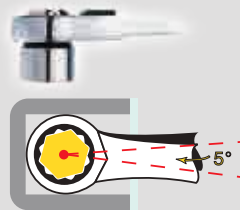
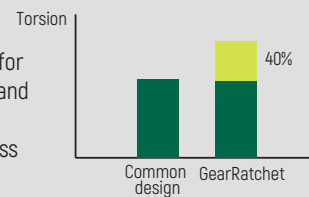
### Tool Knowledge Station



- **Same capacity**  
Torsion of thin pass-thru socket same with that of common socket
- **Multiple functions**  
Used together with special adapter for quick conversion to traditional 1/4", 3/8", 1/2" drive head speeder wrench for standard sockets and extension rods
- Pass-thru socket and connecting rod for reaching the depth of the workpiece (deeper than that of traditional socket)

### SATA Pass-Thru Socket

Pass-thru socket and connecting rod for reaching the depth of the workpiece, and replacing and breaking the working restriction of the long sleeve regardless screw and bolt length



- **Powerful function**  
Operation height reduced by nearly 50% and width reduced by nearly 20%

- **Featuring easy operation**  
Special gear ratchet drive mechanism for increase torqued with only 5 degrees of rotation angle, suitable for small work space



## 09016 26Pc. 3/4"x1" Dr. Socket Set



- 1Pc. 3/4" 12pt. Socket 21 mm
- 1Pc. 3/4" 12pt. Socket 22 mm
- 1Pc. 3/4" 12pt. Socket 23 mm
- 1Pc. 3/4" 12pt. Socket 24 mm
- 1Pc. 3/4" 12pt. Socket 26 mm
- 1Pc. 3/4" 12pt. Socket 27 mm
- 1Pc. 3/4" 12pt. Socket 28 mm
- 1Pc. 3/4" 12pt. Socket 29 mm
- 1Pc. 3/4" 12pt. Socket 30 mm
- 1Pc. 3/4" 12pt. Socket 31 mm
- 1Pc. 3/4" 12pt. Socket 32 mm
- 1Pc. 3/4" 12pt. Socket 34 mm
- 1Pc. 3/4" 12pt. Socket 36 mm
- 1Pc. 3/4" 12pt. Socket 38 mm
- 1Pc. 3/4" 12pt. Socket 41 mm
- 1Pc. 3/4" 12pt. Socket 46 mm
- 1Pc. 3/4" 12pt. Socket 50 mm
- 1Pc. 1" 12pt. Socket 55 mm
- 1Pc. 1" 12pt. Socket 60 mm
- 1Pc. 1" 12pt. Socket 65 mm
- 1Pc. 3/4" Drive T-Handle 20"
- 1Pc. 3/4" Drive Strengthening Extensions 8"
- 1Pc. 3/4" Drive Strengthening Extensions 20"
- 1Pc. 3/4" L-Shaped Extensions 6"
- 1Pc. 1" Three-Way Adapter (1" F x 3/4" M )
- 1Pc. 3/4" Quick-Release Ratchets 20"

No.			
09016	-	1	23

## 09131 25Pc. 13mm Drive Pass-Thru Socket Set



- 13Pc. 13mm Drive Pass-Thru Socket (3,5,4,4,5,5,5,5,6,7,8,9,10,11,12,13mm)
- 9Pc. 13mm Drive SAE Pass-Thru Socket (5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 3/8", 7/16", 1/2")
- 1Pc. 13mm Drive Pass-Thru Ratchet
- 1Pc. 13mm Drive Pass-Thru Extension Bar 3"
- 1Pc. 13mm Drive Pass-Thru Socket Adaptor 1/4" Drive
- Pass-through socket can be used to fasten nut on the long screw while standard socket can not work, extending the working range of socket
- Pass-through ratchet offers smaller drive head dimension and only 5° of tooth movement, fits to operate in tight working space
- Pass-through ratchet can connect standard socket for use through adaptor

No.			
09131	6	12	9.1

▲ Please comply with the warranty terms for each open stock product in the set

## 09132 30Pc. 13x20mm Drive Pass-Thru Socket Set



- 13Pc. 13mm Drive Pass-Thru Socket (3,5,4,4,5,5,5,5,6,7,8,9,10,11,12,13mm)
- 10Pc. 20mm Drive Pass-Thru Socket (10,11,12,13,14,15,16,17,18,19mm)
- 1Pc. 13mm Drive Pass-Thru Ratchet
- 1Pc. 20mm Drive Pass-Thru Ratchet
- 1Pc. 13mm Drive Pass-Thru Socket Adaptor 1/4" Drive
- 1Pc. 20mm Drive Pass-Thru Socket Adaptor 1/4" Drive
- 1Pc. 20mm Drive Pass-Thru Socket Adaptor 3/8" Drive
- 1Pc. 13mm Drive Pass-Thru Extension Bar 3"
- 1Pc. 20mm Drive Pass-Thru Extension Bar 3"
- Pass-through socket can be used to fasten nut on the long screw while standard socket can not work, extending the working range of socket
- Pass-through ratchet offers smaller drive head dimension and only 5° of tooth movement, fits to operate in tight working space
- Pass-through ratchet can connect standard socket for use through adaptor

No.			
09132	4	8	15.1

▲ Please comply with the warranty terms for each open stock product in the set

## 09134 21Pc. 20mm Drive Pass-Thru Socket Set



- 10Pc. 20mm Drive Pass-Thru Socket (10,11,12,13,14,15,16,17,18,19mm)
- 7Pc. 20mm SAE Drive Pass-Thru Socket (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")
- 1Pc. 20mm Drive Pass-Thru Ratchet
- 1Pc. 20mm Drive Pass-Thru Extension Bar 3"
- 1Pc. 20mm Drive Pass-Thru Socket Adaptor 1/4" Drive
- 1Pc. 20mm Drive Pass-Thru Socket Adaptor 3/8" Drive
- Pass-through socket can be used to fasten nut on the long screw while standard socket can not work, extending the working range of socket
- Pass-through ratchet offers smaller drive head dimension and only 5° of tooth movement, fits to operate in tight working space
- Pass-through ratchet can connect standard socket for use through adaptor

No.			
09134	3	12	18.8

▲ Please comply with the warranty terms for each open stock product in the set

## 1/4" Dr. 6Pt. Socket

1/4"



No.	⌀	L(mm)			
11101	5/32"	24.5	12	-	-
11102	3/16"	24.5	12	-	-
11103	7/32"	24.5	12	-	-
11104	1/4"	24.5	12	-	-
11105	9/32"	24.5	12	-	-
11106	5/16"	24.5	12	-	-
11107	11/32"	24.5	12	-	-
11108	3/8"	24.5	12	-	-
11109	7/16"	24.5	6	-	-
11110	1/2"	24.5	6	-	-

▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 1/4" Dr. 6Pt. Deep Socket

1/4"



No.	⌀	L(mm)			
11201	3/16"	49	12	-	-
11202	7/32"	49	12	-	-
11203	1/4"	49	12	-	-
11204	9/32"	49	12	-	-
11205	5/16"	49	12	-	-
11206	11/32"	49	12	-	-
11207	3/8"	49	6	-	-
11208	7/16"	49	6	-	-
11209	1/2"	49	6	-	-

▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders



### Tool Knowledge Station

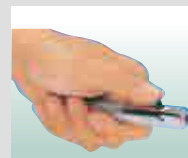
The locking connecting rod can be used singly or in groups. Each connecting rod is locked to each other to ensure the locking of the socket head in the end.



Press the button to lock



Press the button again to unlock



Capable of preventing socket extension or universal joint from dropping, and requiring just one hand for operation, featuring convenient and efficient



Each locking extension rod is provided with a locking/quick release button. Press the locking/quick release button to lock the socket head. Each connecting rod is locked to each other to ensure the locking of the socket head in the end, which can be released by press the button again.







## 1/4" Dr. 6Pt. Socket

1/4"



No.	Ø (mm)	L(mm)			
11301	3.5	24.5	12	-	-
11302	4	24.5	12	-	-
11303	4.5	24.5	12	-	-
11304	5	24.5	12	-	-
11305	5.5	24.5	12	-	-
11306	6	24.5	12	-	-
11307	7	24.5	12	-	-
11308	8	24.5	12	-	-
11309	9	24.5	12	-	-
11310	10	24.5	12	-	-
11311	11	24.5	6	-	-
11312	12	24.5	6	-	-
11313	13	24.5	6	-	-
11314	14	24.5	6	-	-

⚠ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 1/4" Dr. 6Pt. Deep Socket

1/4"



No.	Ø (mm)	L(mm)			
11401	4	49	12	-	-
11402	5	49	12	-	-
11403	6	49	12	-	-
11404	7	49	12	-	-
11405	8	49	12	-	-
11406	9	49	6	-	-
11407	10	49	6	-	-
11408	11	49	6	-	-
11409	12	49	6	-	-
11410	13	49	6	-	-

⚠ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 11901 1/4" Dr. Quick Release Ratchet 5"

1/4"



• Capable of quick release with one hand

No.	L(mm)			
11901	143	4	-	-

## 11902 1/4" Dr. Quick Release Ratchet 5"

1/4"



• Turning with one hand  
• Easy and free operation  
• Capable of quick release  
• Operation with only one hand

No.	L(mm)			
11902	147	4	80	13.6

## 1/4" Dr. Extension Bar

1/4"



• Unique design for dual function  
• Turning function  
• Acting as standard extension after being inserted

No.	Spec.	L(mm)			
11903	2"	50	12	-	-
11904	4"	100	12	-	-

⚠ These sockets accessories should never be used on power drivers, pneumatic impact wrench and/or extenders



## 11905 1/4"Dr. Quick-Release Ratchet(Tear Drop)

1/4"



- Made of Chrom Vanadium steel
- Convenient single hand direction change switch
- Quick-release capability to easily eject an engaged socket even under slippery conditions

No.	L(mm)			
11905	143	4	24	4.2

## 11906 1/4"Dr. Quick-Release Ratchet(Tear Drop)

1/4"



- Made of Chrome Vanadium steel
- Convenient single hand direction change switch
- Quick-release capability to easily eject an engaged socket even under slippery conditions

No.	L(mm)			
11906	143	4	24	4.1

## 11909 1/4" Dr. Quick Release Ratchet 5"

1/4"



No.	L(mm)			
11909	140	6	-	-



Tool Knowledge Station



SATA drop-shaped ratchet featuring:

Durability: Special dustproof structure for harsh working conditions

Ultra-thin appearance: Suitable for narrow working environment;

Convenient operation: Turning and releasing socket with only one hand

Crank design for protecting knuckle

Handle feeling comfortable for fatigue reduction



## 11910 1/4" Dr. Sliding T-Handle 4"

1/4"



No.	L(mm)			
11910	100	6	-	-

## 11912 1/4" Dr. Universal Joint

1/4"



No.	Male	Female			
11912	1/4"	1/4"	12	-	-

▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 11970 1/4" Dr. Offset Quick Release Ratchet

1/4"



- SATA teardrop shaped rotary head
- Comfortable grip for effective use
- Crank design providing special protection for finger joints during use

No.	L(mm)			
11970	153	4	40	7.5

## 11913 1/4" Dr. Socket Adaptor 1/4" Fx 3/8" M

1/4"



No.	Male	Female			
11913	1/4"	3/8"	12	-	-

▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 11911 1/4" Dr. Spinner Handle

1/4"



- Handle end to be connected with 6.3mm ratchet

No.	L(mm)			
11911	150	6	-	-

## 11914 1/4" Dr. Bit Adaptor 1/4" Fx 1/4" Hexagon

1/4"



No.	Female	○ (mm)			
11914	1/4"	1/4"	12	-	-

▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders





## 11922 1/4" Dr. Flexible Extension Bar 6"

1/4"



No.	Male	L(mm)			
11922	1/4"	150	25	100	8.3

## 3/8" Dr. 6Pt. Deep Socket

3/8"



No.	○	L(mm)			
12201	3/8"	63.5	6	-	-
12202	7/16"	63.5	6	-	-
12203	1/2"	63.5	6	-	-
12204	9/16"	63.5	6	-	-
12205	5/8"	63.5	6	-	-
12206	11/16"	63.5	6	-	-
12207	3/4"	63.5	6	-	-
12208	13/16"	63.5	4	-	-
12209	7/8"	63.5	4	-	-

⚠ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 3/8" Dr. 6Pt. Socket

3/8"



No.	○	L(mm)			
12101	1/4"	25	6	-	-
12102	5/16"	25	6	-	-
12103	3/8"	25	6	-	-
12104	7/16"	25	6	-	-
12105	1/2"	25	6	-	-
12106	9/16"	25	6	-	-
12107	5/8"	25	6	-	-
12108	11/16"	25	6	-	-
12109	3/4"	25	6	-	-
12110	13/16"	25	4	-	-
12111	7/8"	25	4	-	-

⚠ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 3/8" Dr. 6Pt. Socket

3/8"



No.	○ (mm)	L(mm)			
12301	6	25	6	-	-
12302	7	25	6	-	-
12303	8	25	6	-	-
12304	9	25	6	-	-
12305	10	25	6	-	-
12306	11	25	6	-	-
12307	12	25	6	-	-
12308	13	25	6	-	-
12309	14	25	6	-	-
12310	15	25	6	-	-
12311	16	25	6	-	-
12312	17	25	6	-	-
12313	18	25	6	-	-
12314	19	25	6	-	-
12315	20	25	4	-	-
12316	21	25	4	-	-
12317	22	25	4	-	-
12318	24	25	4	-	-




⚠ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders



## 3/8" Dr. 6Pt. Deep Socket

3/8"






No.	○ (mm)	L(mm)			
12401	8	63.5	6	-	-
12402	9	63.5	6	-	-
12403	10	63.5	6	-	-
12404	11	63.5	6	-	-
12405	12	63.5	6	-	-
12406	13	63.5	6	-	-
12407	14	63.5	6	-	-
12408	15	63.5	6	-	-
12409	16	63.5	6	-	-
12410	17	63.5	6	-	-
12411	18	63.5	6	-	-
12412	19	63.5	6	-	-
12413	20	63.5	4	-	-
12414	21	63.5	4	-	-
12415	22	63.5	4	-	-

⚠ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 3/8" Dr. Torx® Socket

3/8"



No.	○	L(mm)			
12701	E4	26	6	-	-
12702	E5	26	6	-	-
12703	E6	26	6	-	-
12704	E7	26	6	-	-
12705	E8	26	6	-	-
12706	E10	26	6	-	-
12707	E11	26	6	-	-
12708	E12	26	6	-	-
12709	E14	26	6	-	-
12710	E16	26	6	-	-
12711	E18	26	6	-	-
12712	E20	26	6	-	-




⚠ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 12901 3/8" Dr. Quick Release Ratchet 8"

3/8"



• Capable of quick release with one hand




No.	L(mm)			
12901	203	4	-	-

## 12902 3/8" Dr. Quick Release Ratchet 8"

3/8"



• Turning with one hand  
• Easy and free operation  
• Capable of quick release  
• Operation with only one hand




No.	L(mm)			
12902	203	4	60	19

## 3/8" Dr. Extension Bar

3/8"



• Turning function  
• Acting as standard extension after being inserted

No.	L			
12903	3"(75mm)	6	72	6.4
12904	6"(150mm)	6	36	6.2
12905	10"(250mm)	6	36	9.5






### 3/8" Dr. Locking Extension Bar

3/8"



← L →

• Unique locking device, preventing socket extension or universal joint from dropping, and requiring just one hand for operation, being convenient and efficient




No.	L			
12906	3"(75mm)	6	-	-
12907	6"(150mm)	6	-	-
12908	10"(250mm)	6	-	-

### 12909 3/8" Dr. Flexible Handle 8"

3/8"



← L →




No.	L(mm)			
12909	213	6	-	-

### 12910 3/8" Dr. Sliding T-Handle 8"

3/8"



← L →




No.	L(mm)			
12910	165	6	-	-

### 12911 3/8" Dr. Flex-Head Quick Release Ratchet

3/8"






← L →

No.	L(mm)			
12911	275	4	-	-

### 12912 3/8" Dr. Universal Joint

3/8"






No.	Male	Female			
12912	3/8"	3/8"	6	-	-

### 3/8" Dr. Socket Adaptor

3/8"



No.	Female	Male			
12913	3/8"	1/4"	6	-	-
12914	3/8"	1/2"	6	-	-

▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders





## 12917 3/8" Dr. Bit Adaptor 3/8"Fx1/4"Hexagon

3/8"



No.	Female	○ (mm)			
12917	3/8"	6.3(1/4")	6	-	-

⚠ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 12922 3/8" Dr. Flexible Extension Bar 8"

3/8"



No.	L(mm)	Male			
12922	150	3/8"	25	100	14.4

## 12930 3/8" Dr. 3-Way Socket Adaptor

3/8"



No.	Female	Male			
12930	3/8"	1/2"	6	-	-

⚠ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 12970 3/8" Dr. Offset Quick Release Ratchet

3/8"



- SATA teardrop shaped rotary head
- Comfortable grip for effective use
- Crank design providing special protection for finger joints during use

No.	L(mm)			
12970	217	4	32	14.1

## 12971 3/8"Dr. Quick-Release Ratchet (Tear Drop)

3/8"



- Made of Chrome Vanadium steel
- Convenient single hand direction change switch
- Quick-release capability to easily eject an engaged socket even under slippery conditions

No.	L(mm)			
12971	200	4	24	7.7

## 12972 3/8"Dr. Quick-Release Ratchet(Tear Drop)

3/8"



- Made of Chrome Vanadium steel
- Convenient single hand direction change switch
- Quick-release capability to easily eject an engaged socket even under slippery conditions

No.	L(mm)			
12972	200	4	24	7.3



## 1/2" Dr. 6Pt. Socket

1/2"



No.	⌀	L(mm)			
13101	5/16"	37.8	4	-	-
13102	3/8"	37.8	6	-	-
13103	7/16"	37.8	6	-	-
13104	1/2"	37.8	6	-	-
13105	9/16"	37.8	6	-	-
13106	5/8"	37.8	6	-	-
13107	11/16"	37.8	6	-	-
13108	3/4"	37.8	6	-	-
13109	13/16"	37.8	4	-	-
13110	7/8"	37.8	4	-	-
13111	15/16"	37.8	4	-	-
13112	1"	37.8	4	-	-
13113	1-1/16"	37.8	4	-	-
13114	1-1/8"	37.8	4	-	-
13115	1-1/4"	37.8	2	-	-

▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 1/2" Dr. 6Pt. Socket

1/2"



No.	⌀ (mm)	L(mm)			
13319	8	38	6	-	-
13320	9	38	6	-	-
13301	10	38	6	-	-
13302	11	38	6	-	-
13303	12	38	6	-	-
13304	13	38	6	-	-
13305	14	38	6	-	-
13306	15	38	6	-	-
13307	16	38	6	-	-
13308	17	38	6	-	-
13309	18	38	6	-	-
13310	19	38	6	-	-
13311	20	38	4	-	-
13312	21	38	4	-	-
13313	22	38	4	-	-
13314	23	38	4	-	-
13315	24	38	4	-	-
13316	27	38	4	-	-
13317	30	38	2	-	-
13318	32	38	2	-	-
13321	34	38	2	-	-

▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 1/2" Dr. 6Pt. Deep Socket

1/2"



No.	⌀	L(mm)			
13201	3/8"	77	6	-	-
13202	7/16"	77	6	-	-
13203	1/2"	77	6	-	-
13204	9/16"	77	6	-	-
13205	5/8"	77	6	-	-
13206	11/16"	77	6	-	-
13207	3/4"	77	6	-	-
13208	13/16"	77	4	-	-
13209	7/8"	77	4	-	-
13210	15/16"	77	4	-	-
13211	1"	77	4	-	-
13212	1-1/16"	77	4	-	-
13213	1-1/8"	77	4	-	-
13214	1-1/4"	77	6	-	-

▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders



## 1/2" Dr. 6Pt. Deep Socket

1/2"



No.	○ (mm)	L(mm)			
13401	10	77	6	-	-
13402	11	77	6	-	-
13403	12	77	6	-	-
13404	13	77	6	-	-
13405	14	77	6	-	-
13406	15	77	6	-	-
13407	16	77	6	-	-
13408	17	77	6	-	-
13409	18	77	6	-	-
13410	19	77	6	-	-
13411	20	77	4	-	-
13412	21	77	4	-	-
13413	22	77	4	-	-
13414	24	77	4	-	-
13415	27	77	4	-	-
13416	30	77	2	-	-
13417	32	77	2	-	-

▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

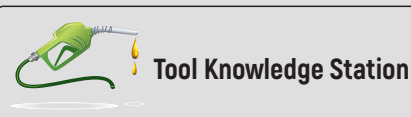
## 1/2" Dr. 12Pt. Socket

1/2"

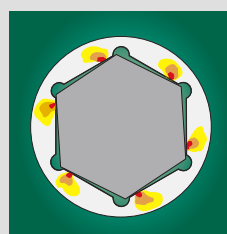


No.	○	L(mm)			
13501	5/16"	37.8	6	-	-
13502	3/8"	37.8	6	-	-
13503	7/16"	37.8	6	-	-
13504	1/2"	37.8	6	-	-
13505	9/16"	37.8	6	-	-
13506	5/8"	37.8	6	-	-
13507	11/16"	37.8	6	-	-
13508	3/4"	37.8	6	-	-
13509	13/16"	37.8	4	-	-
13510	7/8"	37.8	4	-	-
13511	15/16"	37.8	4	-	-
13512	1"	37.8	4	-	-
13513	1-1/16"	37.8	4	-	-
13514	1-1/8"	37.8	4	-	-
13515	1-1/4"	37.8	2	-	-

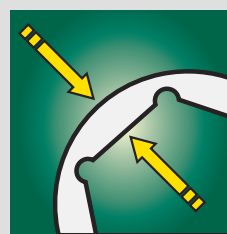
▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders



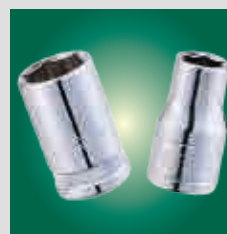
SATA metric socket is knurled, whereas the SAE one with dual groove for easy selection.



Box end with SATA drive structure to avoid nut slipping, with point of force moved to the plane of the hexagon nut



SATA socket made of Cr-V and subjected to special process for thinness, higher strength (compared with common socket), and easy operation in narrow space



Certain SATA socket with reduced OD for lightness and easy operation in narrow space

Never use extension bar on the tool or tap it with hammer  
Check the tool regularly for safety and efficiency, and do not use any worn or cracked tool.  
Select tenon and socket dimensions correctly





## 1/2" Dr. 12Pt. Socket

1/2"



No.	○ (mm)	L(mm)			
13619	30	38	6	-	-
13620	32	38	6	-	-
13601	8	38	6	-	-
13602	9	38	6	-	-
13603	10	38	6	-	-
13604	11	38	6	-	-
13605	12	38	6	-	-
13606	13	38	6	-	-
13607	14	38	6	-	-
13608	15	38	6	-	-
13609	16	38	6	-	-
13610	17	38	6	-	-
13611	18	38	4	-	-
13612	19	38	4	-	-
13613	20	38	4	-	-
13614	21	38	4	-	-
13615	22	38	4	-	-
13616	23	38	4	-	-
13617	24	38	2	-	-
13618	27	38	2	-	-

▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 1/2" Dr. 12Pt. Deep Socket

1/2"



No.	○ (mm)	L(mm)			
13810	10	77	6	84	4.9
13812	12	77	6	84	4.9
13813	13	77	6	84	4.9
13814	14	77	6	84	5.2
13816	16	77	6	84	5.2
13817	17	77	6	84	5.2
13818	18	77	6	84	5.2
13819	19	77	6	84	5.4

▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 13901 1/2" Dr. Quick Release Ratchet 10"

1/2"



• Capable of quick release with one hand

No.	L(mm)			
13901	252	4	-	-

## 1/2" Dr. Torx® Socket

1/2"



No.	○	L(mm)			
13701	E10	38	6	-	-
13702	E12	38	6	-	-
13703	E14	38	6	-	-
13704	E16	38	6	-	-
13705	E18	38	6	-	-
13706	E20	38	4	-	-
13707	E22	38	4	-	-
13708	E24	40	4	-	-

▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders



## 13902 1/2" Dr. Quick Release Ratchet 10"

1/2"



- Turning with one hand
- Easy and free operation
- Capable of quick release
- Operation with only one hand

No.	L(mm)			
13902	255	4	36	22.6

## 1/2" Dr. Extension Bar

1/2"



- Turning function
- Acting as standard extension after being inserted

No.	○	L(mm)			
13904	5"	125	4	-	-
13905	10"	250	4	-	-

▲ These sockets accessories should never be used on power drivers, pneumatic impact wrench and/or extenders

## 1/2" Dr. Locking Extension Bar

1/2"



- Unique locking device, preventing socket extension or universal joint from dropping, and requiring just one hand for operation, being convenient and efficient

No.	L			
13906	3"(75mm)	4	-	-
13907	5"(125mm)	4	-	-
13908	10"(250mm)	4	-	-

▲ These sockets accessories should never be used on power drivers, pneumatic impact wrench and/or extenders

## 1/2" Dr. Flexible Handle

1/2"

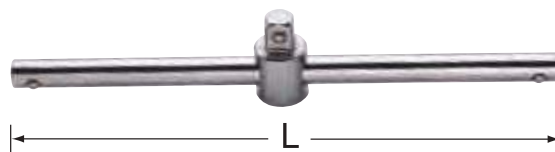


No.	L			
13909	10"(250mm)	4	-	-
13911	15"(375mm)	4	-	-
13951	17" (432mm)	4	24	22.9

▲ These sockets accessories should never be used on power drivers, pneumatic impact wrench and/or extenders

## 13910 1/2" Dr. Quick Release Ratchet 10"

1/2"



No.	L(mm)			
13910	247	4	-	-

## 13912 1/2" Dr. Universal Joint

1/2"



No.	Male	Female			
13912	1/2"	1/2"	4	-	-

▲ These sockets accessories should never be used on power drivers, pneumatic impact wrench and/or extenders

**13913 1/2" Dr. Socket Adaptor 1/2"Fx3/8"M**

1/2"



No.	Female	Male			
13913	1/2"	3/8"	4	-	-

▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

**13930 1/2" Dr. 3-Way Socket Adaptor**

1/2"



No.	Female	Male			
13930	1/2"	3/8"	4	-	-

▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

**13914 1/2" Dr. Bit Adaptor 1/2"Fx5/16"Hexagon**

1/2"



No.	○ (mm)	Female			
13914	8(5/16")	1/2"	6	-	-

▲ These sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

**13950 1/2"Dr Adapter (1/2"F X 3/4"M)**

1/2"



• Made of Chrome Vanadium steel

No.	L(mm)	Female	Male			
13950	35.1	1/2"	3/4"	4	120	15.4

▲ These sockets accessories should never be used on power drivers, pneumatic impact wrench and/or extenders

**13919 1/2" Dr. L-Shaped Wrench 10"**

1/2"



No.	L(mm)	Female			
13919	260	1/2"	6	-	-

**17001 1/2" Dr. Speeder Handle**

1/2"



No.	Female			
17001	12.5"	6	24	11.3



## 13970 1/2" Dr. Offset Quick Release Ratchet

1/2"



- SATA teardrop shaped rotary head
- Comfortable grip for effective use
- Crank design providing special protection for finger joints during use

No.	L(mm)			
13970	261	4	20	13.3

## 16901 3/4" Dr. Quick Release Ratchet 20"

3/4"



- Capable of quick release with one hand

No.	Spec.	L(mm)			
16901	20"	500	1	8	22.3

## 13971 1/2"Dr. Quick-Release Ratchet (Tear Drop)

1/2"



- Made of Chrome Vanadium steel
- Convenient single hand direction change switch
- Quick-release capability to easily eject an engaged socket even under slippery conditions

No.	L(mm)			
13971	250	4	24	12.8

## 13972 1/2"Dr. Quick Release Ratchet (Tear Drop)

1/2"



- Made of Chrome Vanadium steel
- Convenient single hand direction change switch
- Quick-release capability to easily eject an engaged socket even under slippery conditions

No.	L(mm)			
13972	250	4	24	14.8

## 3/4" Dr. 12Pt. Socket

3/4"



No.	○ (mm)	L(mm)			
16602	19	47.5	4	-	-
16603	21	49.5	4	-	-
16604	22	49.5	4	-	-
16605	23	49.5	4	-	-
16606	24	49.5	4	-	-
16607	25	50	4	-	-
16608	26	50	4	-	-
16609	27	52	4	-	-
16610	28	52	4	-	-
16611	29	52	4	-	-
16612	30	54	4	-	-
16613	32	56	4	-	-
16614	33	56	4	-	-
16615	34	56	4	-	-
16616	35	56	2	-	-
16617	36	58	2	-	-
16618	38	60	2	-	-
16619	41	64	2	-	-
16620	46	68	2	-	-
16622	50	72	2	-	-
16623	55	76	1	-	-
16624	60	78	1	-	-

▲ These sockets should never be used on power drivers,pneumatic impact wrench and/or extenders





### 3/4" Dr. Extension Bar

3/4"



- Turning function
- Acting as standard extension after being inserted

No.	Spec.	L(mm)			
16902	4"	100	6	-	-
16903	8"	200	3	-	-
16904	16"	400	1	-	-

▲ These sockets accessories should never be used on power drivers, pneumatic impact wrench and/or extenders

### 16907 3/4" Dr. Universal Joint

3/4"



No.	Male	Female			
16907	3/4"	3/4"	3	-	-

▲ These sockets accessories should never be used on power drivers, pneumatic impact wrench and/or extenders

### 16905 3/4" Dr. Flexible Handle 18"

3/4"



No.	L(mm)			
16905	450	1	-	-

### 16908 3/4"F X 1/2"M Adapter

3/4"



- Made of Chrome Vanadium steel

No.	L(mm)	Male	Female			
16908	35.1	1/2"	3/4"	6	36	84

▲ These sockets accessories should never be used on power drivers, pneumatic impact wrench and/or extenders

### 16906 3/4" Dr. Flexible Handle 18"

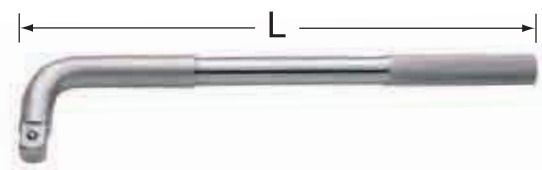
3/4"



No.	L(mm)			
16906	450	1	-	-

### 16919 3/4" Dr. L-Shaped Wrench 13"

3/4"









No.	Female	L(mm)			
16919	3/4"	380	1	-	-






## 13mm Drive Pass-Thru Socket



No.	Spec. (mm)			
19001	3.5	6	-	-
19002	4	6	-	-
19003	4.5	6	-	-
19004	5	6	-	-
19005	5.5	6	-	-
19006	6	6	-	-
19007	7	6	-	-
19008	8	6	-	-
19009	9	6	-	-
19010	10	6	-	-
19011	11	6	-	-
19012	12	6	-	-
19013	13	6	-	-
No.	Spec.			
19101	5/32"	6	-	-
19102	3/16"	6	-	-
19103	7/32"	6	-	-
19104	1/4"	6	-	-
19105	9/32"	6	-	-
19106	5/16"	6	-	-
19107	3/8"	6	96	1.3
19108	7/16"	6	-	-
19109	1/2"	6	-	-







## Drive Pass-Thru Ratchet



No.	Spec. (mm)	L(mm)			
19201	13	145	6	48	10.8
19301	20	203	8	32	9.2
19401	30	253	4	24	7.5




## 20mm Drive Pass-Thru Socket



No.	Spec. (mm)			
19021	10	6	-	-
19022	11	6	-	-
19023	12	6	-	-
19024	13	6	-	-
19025	14	6	-	-
19026	15	6	-	-
19027	16	6	-	-
19028	17	6	-	-
19029	18	6	-	-
19030	19	6	-	-
No.	Spec.			
19121	3/8"	6	-	-
19122	7/16"	6	-	-
19123	1/2"	6	-	-
19124	9/16"	6	-	-
19125	5/8"	6	-	-
19126	11/16"	6	-	-
19127	3/4"	6	-	-

## 30mm Drive Pass-Thru Socket



No.	Spec. (mm)			
19046	19	6	-	-
19047	20	6	-	-
19048	21	6	-	-
19049	22	6	-	-
19050	24	6	-	-
19051	27	6	-	-
19052	30	6	-	-
19053	32	6	-	-
19054	34	6	-	-



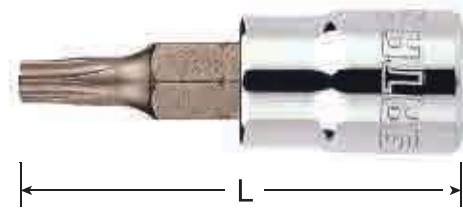
## Drive Pass-Thru Extension Bar



No.	Spec.	L			
19071	13"	3" (75mm)	6	-	-
19081	20"	3" (75mm)	6	-	-
19091	30"	6" (150mm)	50	-	-

## 1/4" Dr. Bit Socket, Torx®

1/4"



• Bit made from S2 material for durability and anti-slipping

No.	Spec.	L(mm)			
21101	T-8	36.5	12	-	-
21102	T-10	36.5	12	-	-
21103	T-15	36.5	12	-	-
21104	T-20	36.5	12	-	-
21105	T-25	36.5	12	-	-
21106	T-30	36.5	12	-	-
21107	T-40	36.5	12	-	-

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## Drive Pass-Thru Socket Adaptor



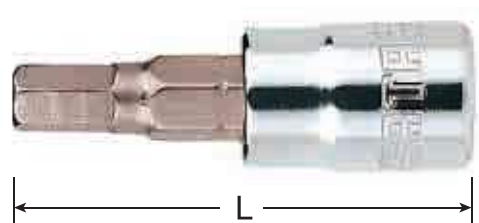
No.	Male	Spec. (mm)			
19072	1/4"	13	24	-	-
19082	1/4"	20	24	-	-
19083	3/8"	20	24	96	4.6
19092	1/2"	30	18	-	-

## 1/4" Dr. Bit Socket, Hexagon

1/4"



Corresponding Spec. marked with \*



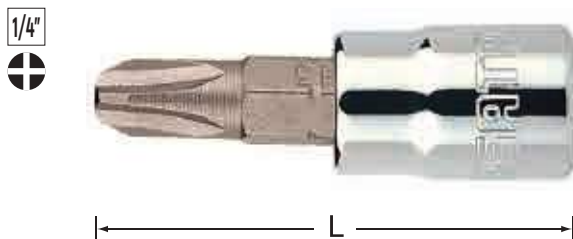
• Bit made from S2 material for durability and anti-slipping

No.	Spec. (mm)	L(mm)			
21201	3	36.5	12	-	-
21202	4	36.5	12	-	-
21203	5	36.5	12	-	-
21204	6	36.5	12	-	-
21205*	8	36.5	12	-	-
21206*	7	36.5	12	-	-

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders



## 1/4" Dr. Bit Socket, Phillips



• Bit made from S2 material for durability and anti-slipping

No.	Spec.	L(mm)			
21301	#1	36.5	12	-	-
21302	#2	36.5	12	-	-
21303	#3	36.5	12	-	-

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 1/4" Dr. Bit Socket, Pozidrive

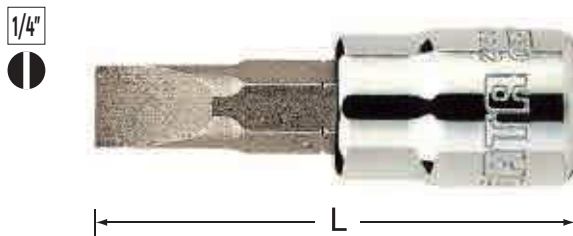


• Bit made from S2 material for durability and anti-slipping

No.	Spec.	L(mm)			
21401	#1	36.5	12	-	-
21402	#2	36.5	12	-	-
21403	#3	36.5	12	-	-

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 1/4" Dr. Bit Socket, Slotted

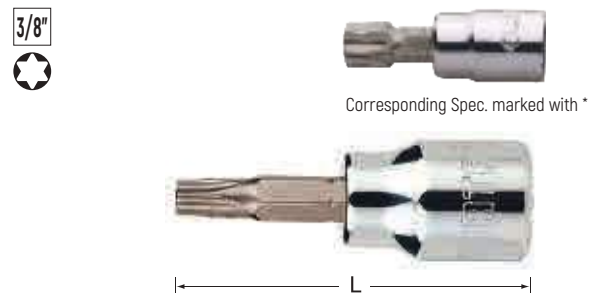


• Bit made from S2 material for durability and anti-slipping

No.	Spec. (mm)	L(mm)			
21501	4.0	36.5	12	-	-
21502	5.5	36.5	12	-	-
21503	6.5	36.5	12	-	-

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 3/8" Dr. Bit Socket, Torx®

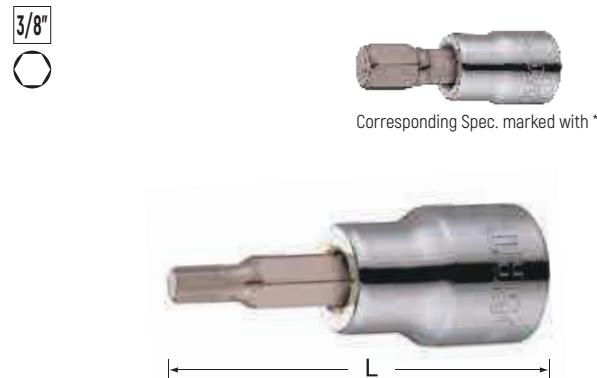


• Bit made from S2 material for durability and anti-slipping

No.	Spec.	L(mm)			
22101	T-10	48	6	-	-
22102	T-15	48	6	-	-
22103	T-20	48	6	-	-
22104	T-25	48	6	-	-
22105	T-27	48	6	-	-
22106	T-30	48	6	-	-
22107	T-40	48	6	-	-
22108	T-45	48	6	-	-
22109	T-50	48	6	-	-
22110*	T-55	48	6	-	-
22111*	T-60	48	6	-	-

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 3/8" Dr. Bit Socket, Hexagon



• Bit made from S2 material for durability and anti-slipping

No.	Spec. (mm)	L(mm)			
22201	3	48	6	-	-
22202	4	48	6	-	-
22203	5	48	6	-	-
22204	6	48	6	-	-
22205*	7	48	6	-	-
22206*	8	48	6	-	-
22207*	10	48	6	-	-

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders





### 3/8" Dr. Bit Socket, Phillips

3/8"



• Bit made from S2 material for durability and anti-slipping

No.	Spec.	L(mm)			
22301	#1	48	6	-	-
22302	#2	48	6	-	-
22303	#3	48	6	-	-

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

### 3/8" Dr. Bit Socket, Pozidrive

3/8"



• Bit made from S2 material for durability and anti-slipping

No.	Spec.	L(mm)			
22401	#1	48	6	-	-
22402	#2	48	6	-	-
22403	#3	48	6	-	-

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

### 3/8" Dr. Bit Socket, Slotted

3/8"



• Bit made from S2 material for durability and anti-slipping

No.	Spec. (mm)	L(mm)			
22501	5.5	48	6	-	-
22502*	6.5	48	6	-	-
22503*	8.0	48	6	-	-
22504	4.0	48	6	72	3.9

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders



Tool Knowledge Station

### High quality of SATA bits Socket



1. Bit made of high-grade alloy steel (S-2) for durability and anti-slipping
2. Length of 50MM, 100MM or custom one available as required
3. 6-point screwdriver bar inserted into 6-point socket for anti-slipping



4. Cr-V socket joint for high torque
5. Spec. of 6.3MM, 10MM and 12.5MM available

### SATA Bit Socket Type



Slotted



Torx®



Hexagon



Phillips



Pozidrive



Triple Square



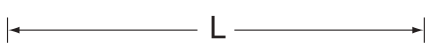
Tamper-Proof  
Torx®



### 3/8" Dr. Bit Socket, Tamper-Proof Torx®



Corresponding Spec. marked with \*



- Bit made from S2 material for durability and anti-slipping
- Bit with tamper suitable for professional Torx® screws

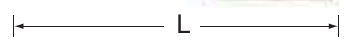
No.	Spec.	L(mm)			
22601	T-45	48	6	-	-
22602	T-50	48	6	-	-
22603*	T-55	48	6	-	-
22604*	T-60	48	6	-	-

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

### 1/2" Dr. Bit Socket, 50mm Length, Torx®



Corresponding Spec. marked with \*



- Bit made from S2 material for durability and anti-slipping

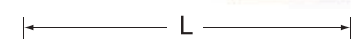
No.	Spec.	L(mm)			
24101	T-20	55	6	-	-
24102	T-25	55	6	-	-
24103	T-27	55	6	-	-
24104	T-30	55	6	-	-
24105	T-40	55	6	-	-
24106	T-45	55	6	-	-
24107	T-50	55	6	-	-
24108*	T-55	55	6	-	-
24109*	T-60	55	6	-	-

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

### 1/2" Dr. Bit Socket, 50mm Length, Hexagon



Corresponding Spec. marked with \*



- Bit made from S2 material for durability and anti-slipping

No.	Spec. (mm)	L(mm)			
24201	4	55	6	-	-
24202	5	55	6	-	-
24203	6	55	6	-	-
24204	7	55	6	-	-
24205	8	55	6	-	-
24206	10	55	6	-	-
24207*	12	55	6	-	-
24208*	14	55	6	-	-
24209*	17	55	6	-	-

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

### 1/2" Dr. Bit Socket, Hexagon



- Used for auto repair (Volkswagen, Audi, GM, etc.)
- Bit made from S2 material for durability and anti-slipping

No.	Spec. (mm)	L(mm)			
24301	6	70	6	-	-
24302	8	120	6	-	-
24303	6	250	6	-	-
24304	5	180	6	-	-
24305	6	140	6	-	-
24306	10	140	6	-	-

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders



## 1/2" Dr. Bit Socket, 50mm Length, Triple Square

1/2"



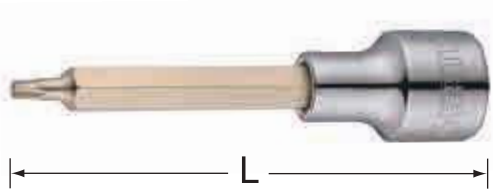
• Bit made from S2 material for durability and anti-slipping

No.	Spec.	L(mm)			
24801	M-5	55	6	-	-
24802	M-6	55	6	-	-
24803	M-8	55	6	-	-
24804	M-10	55	6	-	-
24805	M-12	55	6	-	-
24806	M-14	55	6	-	-
24807	M-16	55	6	-	-

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 1/2" Dr. Bit Socket, 100mm Length, Torx®

1/2"



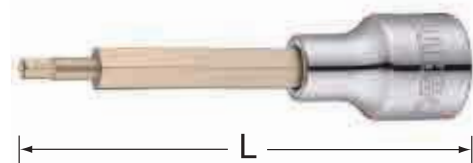
• Bit made from S2 material for durability and anti-slipping

No.	Spec.	L(mm)			
25101	T-20	100	6	-	-
25102	T-25	100	6	-	-
25103	T-27	100	6	-	-
25104	T-30	100	6	-	-
25105	T-40	100	6	-	-
25106	T-45	100	6	-	-
25107	T-50	100	6	-	-
25108	T-55	100	6	-	-
25109	T-60	100	6	-	-

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 1/2" Dr. Bit Socket, 100mm Length, Hexagon

1/2"



• Bit made from S2 material for durability and anti-slipping

No.	Spec. (mm)	L(mm)			
25201	4	100	6	-	-
25202	5	100	6	-	-
25203	6	100	6	-	-
25204	7	100	6	-	-
25205	8	100	6	-	-
25206	10	100	6	-	-
25207	12	100	6	-	-
25208	14	100	6	-	-
25209	17	100	6	-	-

▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders

## 1/2" Dr. Bit Socket, 100mm Length, Triple Square

1/2"



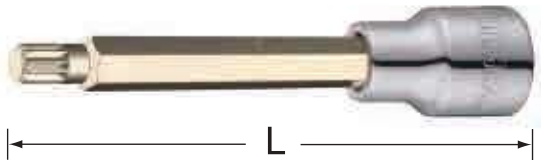
• Bit made from S2 material for durability and anti-slipping

No.	Spec.	L(mm)			
25801	M-5	100	6	-	-
25802	M-6	100	6	-	-
25803	M-8	100	6	-	-
25804	M-10	100	6	-	-
25805	M-12	100	6	-	-
25806	M-14	100	6	-	-
25807	M-16	100	6	-	-




▲ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders



## 1/2" Dr. Bit Socket, Triple Square



















- Used for auto repair
- Bit made from S2 material for durability and anti-slipping

No.	Spec.	L(mm)			
25901	M-10	120	6	-	-
25902	M-12	140	6	-	-

⚠ These bit sockets should never be used on power drivers, pneumatic impact wrench and/or extenders



# Wrench

	Wrench Set	<b>66-71</b>
	X-Shank Wrench	<b>67</b>
	Adjustable Wrench	<b>72-73</b>
	Reversible Ratcheting Wrench	<b>73-74</b>
	Flex Ratcheting Wrench	<b>74</b>
	Combination Wrench	<b>75</b>
	Double Box Ratcheting Wrench	<b>75-76</b>
	Combination Wrench	<b>77-78</b>
	Double Open End Wrench	<b>78</b>
	Double Box Wrench	<b>78-79</b>
	Torx® Key Wrench	<b>78</b>
	Nut Wrench	<b>79</b>
	Socket & Open End Wrench	<b>79-80</b>
	Construction Ratcheting Wrench	<b>80</b>
	T-shape Socket	<b>80</b>
	Tapping Wrench	<b>80-81</b>



# Wrench

08007A 8Pc. Combination Double Ratcheting Wrench

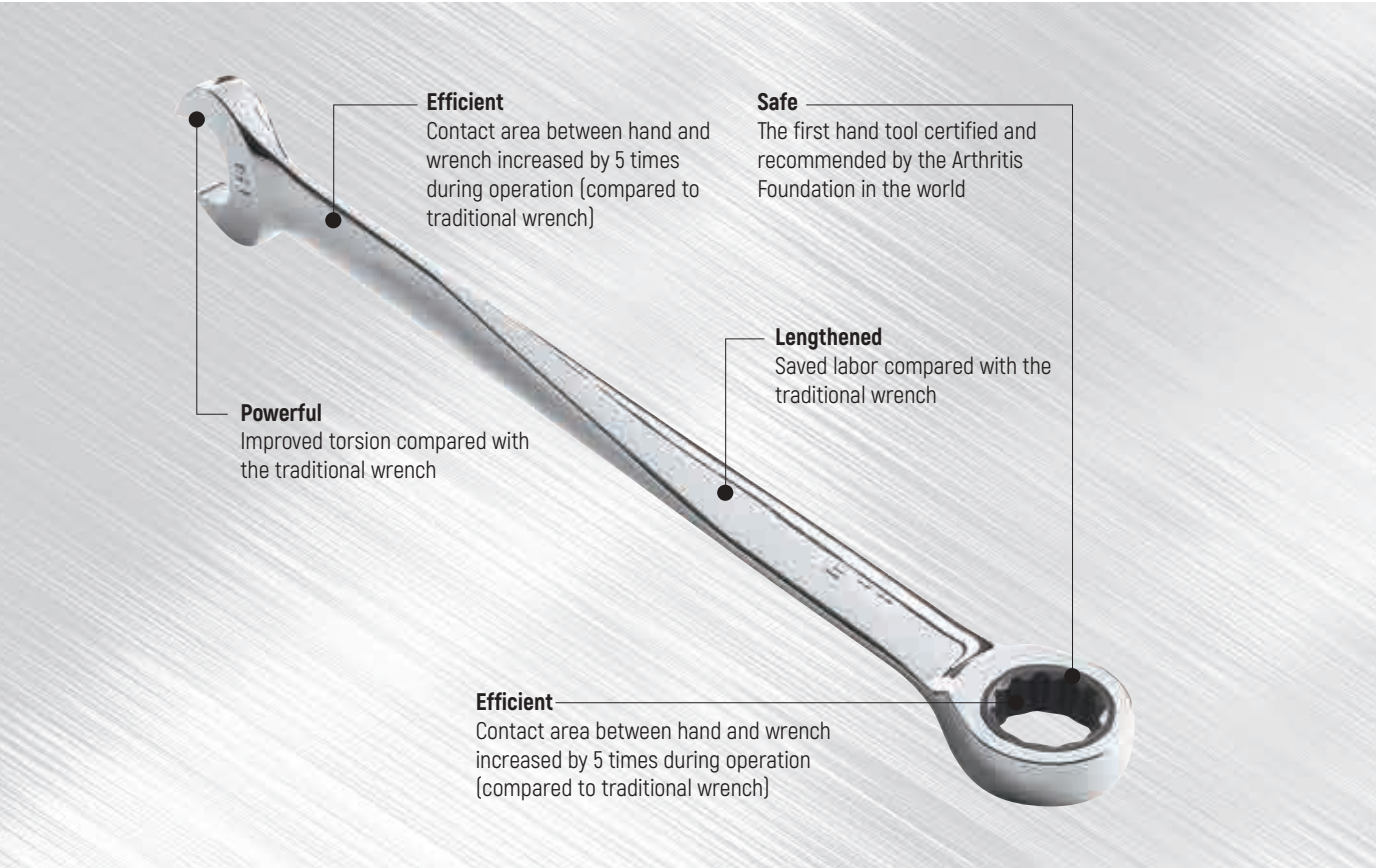


No.	Contents			
08007A	8, 10, 12, 13, 14, 15, 17, 19 mm	0	12	12.2

08008 8Pc. Combination Ratcheting Wrench Set



No.	Contents			
08008	8, 10, 12, 13, 14, 15, 17, 19mm	2	8	10.4






## 08009 8Pc. Open End Wrench Set






No.	Spec. (mm)	No.	Spec. (mm)
41216	5.5×7	41206	14×17
41202	8×10	41207	17×19
41203	10×12	41215	19×22
41205	12×14	41210	22×24

No.			
08009	2	8	10

## 08012 11Pc. Box End Wrench Set



No.	Spec. (mm)	No.	Spec. (mm)
42221	5.5×7	42206	17×19
42201	8×10	42219	16×18
42222	9×11	42220	19×22
42202	10×12	42211	24×27
42204	12×14	42212	30×32
42205	14×17		

No.			
08012	2	6	16.1

## 08010 10Pc. Open End Wrench Set






No.	Spec. (mm)	No.	Spec. (mm)
41216	5.5×7	41206	14×17
41202	8×10	41207	17×19
41217	9×11	41215	19×22
41203	10×12	41212	24×27
41205	12×14	41213	30×32

No.			
08010	2	6	12.7

## 08016 10Pc. X-Beam Combination Ratcheting Wrench Set



• Portable tray-type tool box for access in narrow spaces

No.	Spec. (mm)			
08016	8,10,12,13,14,15,16,17,18,19	2	4	9.4



## 08018 17Pc. Offset Combination Wrench Set



No.	Contents			
08018	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22mm	1	4	11

## 09017 6Pc. Combination Wrench Set, SAE



No.	Contents			
09017	5/16", 3/8", 7/16", 1/2", 9/16", 5/8"	3	18	8.8

## 08022 10Pc. Combination Wrench Set



No.	Contents			
08022	8, 10, 12, 13, 14, 15, 16, 17, 18, 19mm	2	12	15.7

## 09019 9Pc. Combination Wrench Set, SAE



No.	Contents			
09019	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"	3	18	16.4

## 08023 11Pc. Deep Offset Box End Wrench Set



No.	Contents			
08023	6*7, 8*9, 10*11, 12*13, 14*15, 16*17, 18*19, 20*22, 21*23, 24*27, 30*32mm	1	4	13.8

## 09021 11Pc. Combination Wrench Set, SAE



No.	Contents			
09021	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"	2	12	17.8





### 09023 7Pc. Combination Ratcheting Wrench Set



No.	Contents			
09023	5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"	3	6	8.3

### 09027 23Pc. Combination Wrench Set



No.	Contents			
09027	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 30, 32mm	2	4	21.5

### 09025 6Pc. Box End Ratcheting Wrench Set



No.	Contents			
09025	8*9mm, 10*11mm, 12*13mm, 14*15mm, 16*18mm, 17*19mm	3	6	7.9

### 09029 13Pc. Open End Wrench Set



No.	Contents			
09029	6*7, 8*10, 10*12, 11*13, 12*14, 14*17, 17*19, 19*21, 21*23, 22*24, 23*26, 24*27, 30*32mm	2	4	13

### 09026 14Pc. Combination Wrench Set



No.	Contents			
09026	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 24mm	3	6	32.9

### 09034 7Pc. Combination Ratcheting Stubby Wrench Set



No.	Contents			
09034	10, 12, 13, 14, 15, 17, 19mm	3	12	13.6





## 09064 11Pc Combination Wrench Set (Metric)



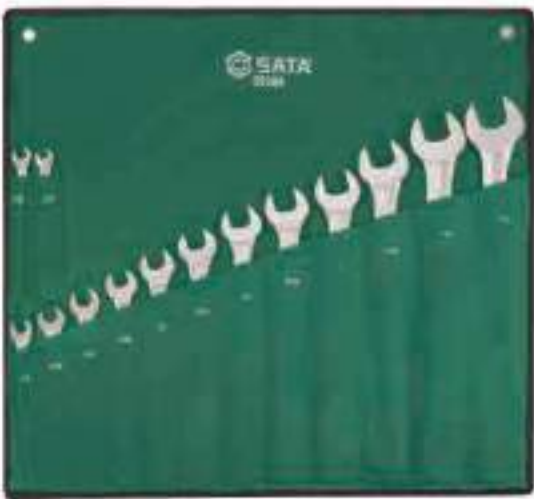
No.	Contents			
09064	8, 9, 10, 11, 12, 13, 14, 17, 19, 21, 24 mm	3	12	22.5

## 09070 7Pc Combination Wrench Set (Metric)



No.	Contents			
09070	8, 10, 12, 13, 14, 17, 19 mm	6	24	18.8

## 09069 14Pc. Combination Wrench Set, SAE









No.	Contents			
09069	3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-1/4"	-	4	17.3

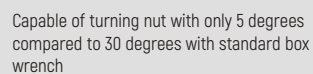
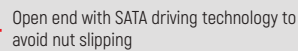
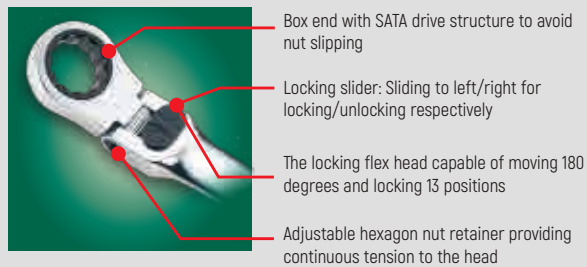
## 09079 8Pc Combination Ratcheting Wrench Set



No.	Contents			
09079	8, 10, 11, 12, 13, 14, 17, 19 mm	0	5	8.3

No.	Spec.	Maximum opening(mm)	L(mm)			
47122	6"	27.5	163	12	72	12.7
47123	8"	34.5	212	6	48	13.8
47124	10"	36.5	262	6	36	17.7
47125	12"	41.5	310	6	24	17.5

No.	Spec.	Maximum opening(mm)			
47201	4"	12.7	4	24	1.6
47202	6"	23.8	6	36	6.4
47203	8"	28.5	6	36	10.7
47204	10"	33.3	6	48	25.6
47205	12"	38.1	6	18	14.9
47206	15"	42.8	3	6	8.9
47207	18"	52.4	1	4	9.7
47208	24"	61.9	1	2	8.6






**Different from Common Wrenches:**

- Locking device similar to a vise added
- Non-slip teeth in the opening part added
- Handle with anti-skid rubber

**Product advantages:**

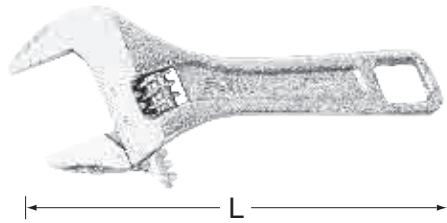
- Suitable for handling slip nuts and rusty nuts in narrow spaces
- Plain top acting as small clamp

No.	Spec.	Maximum opening(mm)	L(mm)			
47213	8"	30	200	2	36	16.5
47214	10"	33	250	2	36	26





## Adjustable Wrench with Wide Jaw and Short Shank



- Made of Cr-V
- Short handle for operation in narrow space
- Chrome-plated surface for rust protection

No.	Spec.	Maximum opening(mm)	L(mm)			
47232	6"	24	118	6	120	12.5
47233	8"	30	142	6	96	16.5
47234	10"	35	159	6	60	16.5
47235	12"	42	205	6	36	18

## Dipping Handle Adjustable Wrench



- Pearl nickel plated surface for corrosion resistance and aesthetics
- Injection-moulded handle for firm holding
- Laser scale indicator, making opening size more intuitive
- CNC machine tool processing with more smooth operation
- Special heat treatment for the head, with higher strength and wear resistance

No.	Spec.	Maximum opening(mm)			
47248	4"	12.8	8	240	14.5
47249	6"	19.2	6	144	20.4
47250	8"	24	6	72	19.7
47251	10"	28	6	48	21.1
47252	12"	34	4	24	17.3
47253	15"	43	2	12	16.5
47254	18"	52.4	2	8	18.8
47255	24"	62	1	6	19.8

No warranty as consumables

## X-Beam Combination Wrench



- Lengthened design, with labor saved and higher torque output
- High efficiency with increased contact area between hand and wrench during operation (compared to traditional wrench)

No.	Spec. (mm)			
40281	8	6	96	4.6
40282	9	6	96	5.3
40283	10	6	36	2.3
40284	11	6	96	8.1
40285	12	6	36	3.5
40286	13	6	36	3.8
40287	14	6	36	5.1
40288	15	6	72	11.9
40289	16	6	36	6.3
40290	17	6	36	8
40291	18	6	36	8.5
40292	19	6	36	9.7

## X-Beam Combination Ratcheting Wrench



- Lengthened design, with labor saved and higher torque output
- High efficiency with increased contact area between hand and wrench during operation (compared to traditional wrench)

No.	Spec. (mm)			
46301	8	6	36	1.8
46302	9	6	36	2
46303	10	6	36	3
46304	11	6	36	3.8
46305	12	6	36	3.9
46306	13	6	36	4.8
46307	14	6	36	5.8
46308	15	6	72	13.2
46309	16	6	36	7.8
46310	17	6	36	8.9
46311	18	6	36	9.8
46312	19	6	36	12.4



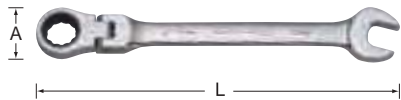
## Metric Reversible Ratcheting Wrenches



- To be turned with a gentle push, greatly improving work efficiency
- 15-degree inclination design facilitating operation
- Thin but exquisite design with fully polished surface

No.	Spec. (mm)	L(mm)	A(mm)			
46601	8	140	18	6	36	1.7
46602	9	150	19.6	6	36	2
46603	10	159	21.6	6	36	2.2
46604	11	165	23.5	6	36	2.8
46605	12	172	25	6	24	2.3
46606	13	178	27	6	24	2.5
46607	14	191	28.5	6	24	3.1
46608	15	200	31	6	24	3.6
46609	16	208	33	6	60	10
46610	17	226	34.5	6	60	12.4
46611	18	236	36	6	36	7.9
46612	19	248	37	6	36	8.6
46617	20	292	42	6	-	-
46613	21	292	42	6	36	12.5
46614	22	292	42	6	36	12.4
46615	24	334	49	6	36	18.9
46616	25	334	49	4	24	13

## Metric Flex Head Ratcheting Wrenches



- Tip capable of rotating 180 degrees for use in narrow spaces
- Thin but exquisite design with fully polished surface

No.	Spec. (mm)	L(mm)	A(mm)			
46421	8	140	16	6	96	5.4
46422	9	149	17.5	6	36	2.4
46401	10	158	19	6	36	2.8
46402	11	165	20.5	6	36	3.3
46403	12	171	21.7	6	24	2.8
46404	13	178	23.6	6	24	3
46405	14	190	25.9	6	24	3.6
46406	15	199	26.7	6	24	4.4
46407	16	208	28.4	6	60	11.7
46408	17	225	30.5	6	60	13.7
46409	18	236	31.5	6	36	9.2
46410	19	248	32.5	6	36	10.6
46411	20	291	40	6	36	15.5
46412	21	291	40	6	36	15.1
46413	22	291	40	6	36	14.2
46414	24	333	45.5	6	36	21.5
46415	25	333	45.5	6	36	21.9

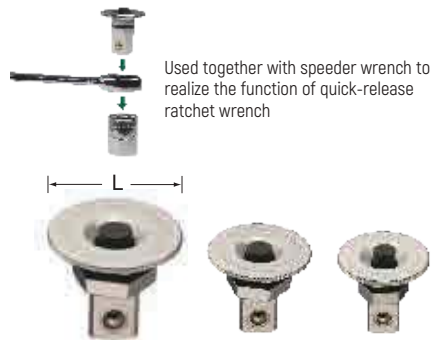
## Metric XL Locking Flex Head Ratcheting Wrenches



- Box end with SATA drive structure to avoid nut slipping
- Locking slider:
- Sliding to left/right for locking/unlocking respectively
- Locking flex head capable of moving 180 degrees and locking 13 positions
- Adjustable hexagon nut retainer providing continuous tension to the head
- Open end with SATA driving technology to avoid nut slipping
- Capable of turning nut with only 5 degrees compared to 30 degrees with standard box wrench

No.	Spec. (mm)			
46801	8	6	72	5.4
46802	9	6	72	5.9
46803	10	6	72	7.3
46804	11	6	72	8
46805	12	6	72	10.1
46806	13	6	72	11.6
46807	14	6	72	13.5
46808	15	6	72	15.3
46809	16	6	36	9.2
46810	17	6	36	10.2
46811	18	6	36	11.4
46812	19	6	36	12.5
46813	20	6	24	13.1
46814	21	6	24	13.1
46815	22	6	24	14.2
46816	24	6	24	18.2
46817	25	6	24	18.1

## Metric Ratcheting Wrench Socket Adapters with Quick Release



No.	Spec.	L(mm)			
46654	1/4"	10	6	-	-
46655	3/8"	13	6	-	-
46656	1/2"	19	6	-	-



## 46657 Bit Adaptor for 3/8" Ratcheting Wrench



No.	Output end (mm)	Driving end (mm)			
46657	1/4"	3/8"	12	-	-

## Combination Ratcheting Wrench



No.	Spec.	L(mm)	A(mm)			
43101	5/16"	140	19	6	36	1.5
43102	3/8"	159	21.4	6	36	2.4
43103	7/16"	165.5	23	6	-	-
43104	1/2"	178	26.5	6	36	4.1
43105	9/16"	191	28.6	6	36	4.5
43106	5/8"	209	32	6	36	6
43107	11/16"	226	33.5	10	50	11.6
43108	3/4"	248	37	6	36	8.8

## Combination Ratcheting Wrench






No.	Spec. (mm)	L(mm)	A(mm)			
43220	5.5	126	17.8	6	36	1.3
43221	6	126	17.8	6	36	1.3
43222	7	133	17.8	6	36	1.5
43201	8	140	19	6	36	1.5
43202	9	150	19.7	6	36	1.8
43203	10	159	21.4	6	36	2.4
43204	11	165.5	23	6	36	2.9
43205	12	172	24.5	6	36	3.5
43206	13	178	26.5	6	36	3.9
43207	14	191	28.6	6	36	4.6
43208	15	200	30	6	36	5.6
43209	16	209	32	6	36	6.1
43210	17	226	33.5	6	36	7.1
43211	18	237	34.6	6	36	7.8
43212	19	248	37	6	36	9.1
43213	21	292	42	6	36	12.4
43214	22	292	42	6	36	12.3
43215	24	334	49	6	24	11.8
43216	25	334	49	6	36	17.7
43217	27	359	52.5	4	24	15.7
43218	30	402	58.5	2	12	10.8
43219	32	426	62	2	12	12.2
43223	34	460	64	-	2	2.4
43224	36	501	68.5	1	10	19.4
43225	41	579	73	1	6	16.8
43226	46	646	78	1	4	15.3
43227	50	656	82	-	4	16.9




## Deep Offset Box End Wrench






- 70-Degree Deep Offset Double Box End Wrench
- Made of Cr-V with heat treatment and electroplating process

No.	Spec. (mm)			
42301	6×7	6	96	5
42302	8×9	6	96	6
42303	10×11	6	96	8.8
42304	12×13	6	96	11.2
42305	14×15	6	72	11
42306	16×17	4	48	9.9
42307	18×19	6	72	19.1
42309	20×22	4	48	17.9
42310	21×23	4	48	19.5
42312	24×27	4	24	12.6
42315	30×32	4	24	18.8

No.	Spec. [mm]	L[mm]	A[mm]			
43301	10	94.8	214	6	36	2
43302	11	103	24.2	10	-	-
43303	12	105.8	25.5	6	36	2.8
43304	13	108	28	6	36	3.3
43305	14	115	29	6	36	3.9
43306	15	119	31.3	6	36	4.5
43307	16	123	33.4	6	36	5.1
43308	17	127	35.3	6	36	5.9
43309	18	131	36.4	6	36	6.6
43310	19	139	37.5	6	24	4.7

No.	Spec. (mm)	L(mm)	D1(mm)	D2(mm)			
46101	5/16"×3/8"	131	18.5	21.8	6	-	-
46102	7/16"×1/2"	161	23.5	26.5	6	36	3.2
46103	9/16"×5/8"	191	28.5	32.5	6	36	4.9
46104	11/16"×3/4"	231	34.5	36.5	6	36	6.9

No.	Spec. (mm)	L(mm)	D1(mm)	D2(mm)			
46201	8×9	131	18	19.5	6	36	1.6
46200	8×10	131	18.5	21.8	6	96	4.8
46202	10×11	151	21.8	23.5	6	36	2.5
46203	12×13	171	25	26.5	6	36	3.4
46204	14×15	191	28.5	30.5	6	36	4.7
46205	16×18	211	32.5	35.5	6	36	6.3
46206	17×19	231	34.5	36.6	6	36	36
46207	22×24	292	42	49	4	24	10.8
46208	27×30	350	52.5	58.5	4	24	19.3
46209	32×34	409	61.5	63.5	2	12	14.1





## Combination Wrench



No.	Spec. (mm)	L(mm)	D1(mm)	D2(mm)			
40101	1/4"	127	11.4	13	6	96	2.4
40102	5/16"	140	13.6	16.5	6	96	3
40103	3/8"	159	16	20.5	6	36	1.9
40104	7/16"	165	17.5	22.5	6	36	2.2
40105	1/2"	177	20	27	6	36	2.6
40106	9/16"	190	21.5	29	6	36	3.3
40107	5/8"	208	24	33	6	36	4.3
40108	11/16"	225	26	35	6	36	5
40109	3/4"	248	28	39	6	36	7.1
40110	13/16"	271	31	43	4	24	6
40111	7/8"	293	32	45.3	4	24	7.8
40112	15/16"	316	34	49	4	24	9.1
40113	1"	335	37.5	51	4	16	7
40114	1-1/16"	359	39	55	4	16	8.4
40115	1-1/8"	402	42.8	63	2	12	8.9
40116	1-1/4"	225	26	35	2	12	10.3

## Open End Wrench



No.	Spec.	L(mm)	D1(mm)	D2(mm)			
41101	1/4"×5/16"	124.0	16.5	12.5	6	96	2.7
41102	3/8"×7/16"	150.0	23.0	20.8	6	36	1.6
41103	1/2"×9/16"	175.0	29.0	27.0	6	36	2.9
41104	5/8"×11/16"	201.0	35.5	33.4	6	36	4.9
41105	11/16"×3/4"	228.0	39.7	35.5	6	36	6.2
41106	13/16"×7/8"	254.0	46.0	43.8	4	24	3.3
41107	15/16"×1"	279.0	52.2	50.0	4	24	8.9
41108	1-1/8"×1-1/4"	310.0	66.8	62.0	4	24	15.4

## Combination Wrench






No.	Spec. (mm)	L(mm)	D1(mm)	D2(mm)			
40233	5.5	127	11.4	13	6	96	2.7
40201	6	127	11.4	13	6	96	2.4
40202	7	133	12.3	14.4	6	96	2.6
40203	8	140	13.6	16.5	6	96	3
40204	9	149	15	18.5	6	36	1.5
40205	10	159	16	20.5	6	36	1.9
40206	11	165	17.5	22.5	6	36	2.1
40207	12	171	18.5	25	6	36	2.4
40208	13	177	20	27	6	36	2.7
40209	14	190	21.5	29	6	36	3.4
40210	15	199	22.5	31	6	36	3.7
40211	16	208	24	33	6	36	4.5
40212	17	225	26	35	6	36	5
40213	18	237	26.6	37	6	36	6.1
40214	19	248	28	39	6	36	7.1
40215	20	265	30	42	6	24	5.8
40216	21	271	31	43	6	24	5.7
40217	22	293	32	45.3	4	24	8.4
40218	23	304	33	47.5	6	24	7.8
40219	24	316	34	49	6	24	9
40220	25	335	37.5	51	6	24	10.4
40221	27	359	39	55	6	24	12.4
40222	30	415	43	65	6	12	9.4
40223	32	426	46	66.5	6	12	10.1




## Offset Combination Wrench






- Made of Cr-V with heat treatment and fully-polished electroplating process
- Box end with 55-degree inclination for use at special station

No.	Spec. (mm)			
40331	6	6	96	2.5
40332	7	6	96	2.8
40333	8	6	96	3.8
40334	9	6	96	4.4
40335	10	6	96	5.6
40336	11	6	96	6
40337	12	6	96	7.3
40338	13	6	96	8.9
40339	14	6	96	10.3
40340	15	6	96	12.1
40341	16	6	96	14.1
40342	17	6	72	12.3
40343	18	6	72	15
40344	19	4	48	11.8
40345	20	4	48	13.3
40346	21	4	48	14.8
40347	22	4	48	17.2

No.	Spec. (mm)	L(mm)	D1(mm)	D2(mm)			
42101	3/8"x7/16"	196	16.2	18.4	6	36	34
42102	1/2"x9/16"	220	19.8	21.8	6	36	4.3
42104	11/16"x3/4"	250	26.6	27.7	6	36	6.5
42105	13/16"x7/8"	290	30.5	33	6	24	74
42106	7/8"x15/16"	320	32	34	6	24	8.9
42107	15/16"x1"	360	34	39	4	24	10.9

No.	Spec. (mm)	L(mm)	D1(mm)	D2(mm)			
41216	5.5×7	124	16.5	12.5	6	96	2.5
41201	6×7	124	16.5	12.5	6	96	2.5
41202	8×10	150	20.8	16.5	6	36	1.7
41217	9×11	150	23	20.8	6	36	1.6
41203	10×12	163	25	20.8	6	36	2.2
41204	11×13	175	27	23	6	36	2.4
41205	12×14	187	29	25	6	36	3.2
41218	13×15	182	33.4	27	6	36	3.8
41219	13×16	182	33.4	27	6	36	3.7
41206	14×17	201	35.5	29	6	36	4.4
41214	16×18	201	35.5	33.4	6	36	5.2
41207	17×19	228	39.7	35.5	6	36	6.2
41208	19×21	240	43.8	39.7	6	24	5.7
41215	19×22	254	46	43.8	6	24	6.4
41209	21×23	262	48	43.8	6	24	7
41210	22×24	285	50	46	6	24	8.3
41211	23×26	300	54.3	48	4	24	10.1
41212	24×27	300	54.3	48	4	24	10
41220	27×30	290	62.5	56.4	4	24	15.5
41213	30×32	333	66.8	62	4	24	15.9
41221	30×34	329	69.7	66.8	4	24	19.5
41222	32×34	329	69.7	66.8	4	24	19.1
41223	34×36	341	75.5	70	4	24	24.9

No.	Spec.	D1[mm]	D2[mm]			
45201	E6×E8	12.2	10	6	96	2.3
45202	E10×E12	15.5	13.5	6	96	3.9
45203	E14×E18	22	17.7	6	36	3
45204	E20×E24	28.6	25	6	-	-



## Metric Offset Double Box End Wrenches



No.	Spec. (mm)	L(mm)	D1(mm)	D2(mm)			
42221	5.5×7	165	11.3	13.5	6	36	1.8
42213	6×7	165	11.3	13.5	6	36	1.8
42201	8×10	185	14	16	6	36	2.5
42222	9×11	195	16.2	18.4	6	36	3.3
42202	10×12	196	16.2	18.4	6	36	3
42203	11×13	205	18.4	20.7	6	36	4
42204	12×14	220	19.8	21.8	6	36	4.2
42223	13×15	235	22.5	24.8	6	36	5.4
42224	13×16	235	22.5	24.8	6	36	5.4
42205	14×17	235	22.7	25.7	6	36	5.8
42219	16×18	250	26.6	27.7	6	36	7
42206	17×19	250	26.6	27.7	6	36	7
42207	19×21	270	28	32	6	24	6.1
42220	19×22	270	28	32	6	36	9.1
42208	21×23	290	30.5	33	6	24	7.3
42209	22×24	320	32	34	6	24	8.5
42210	23×26	360	34	39	6	24	11.5
42211	24×27	360	34	39	6	24	10.6
42225	27×30	390	39	42.8	4	24	16.8
42212	30×32	420	42.8	46.3	6	24	20

## Metric Flare Nut Wrenches



No.	Spec. (mm)	L(mm)	D1(mm)	D2(mm)			
48200	8×10	140	17.3	21	6	36	2.1
48201	9×11	152	19.4	22.2	6	36	2.7
48204	10×12	166	21	23.4	6	36	3.6
48202	13×14	178	24.9	26.1	6	36	4.3
48203	16×17	193	27.5	30.5	6	36	6.3

## Metric Flare Nut Wrenches



No.	Spec.	L(mm)			
48301	3/8"×7/16"	152	10	-	-
48302	1/2"×9/16"	178	6	-	-
48303	5/8"×11/16"	193	9	-	-

## Metric Stubby Combination Wrenches



• Made of Cr-V for use in narrow spaces

No.	Spec. (mm)	L(mm)	D1(mm)	D2(mm)			
49201	10	95.5	16	20.5	6	96	5.3
49202	11	103	17.5	22.6	6	96	5.3
49203	12	106.5	18.5	24.6	6	96	6
49204	13	108.5	20	26.7	6	36	2.7
49205	14	115.5	21.5	29	6	36	3.3
49208	17	127.5	26	35	6	36	4.5
49210	19	139.5	28	39.5	4	24	4.3

## Metric Flex Head Socket Wrench

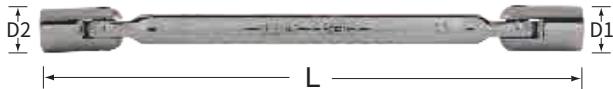





• Made of Cr-V for use in narrow spaces

No.	Spec. (mm)	L(mm)	D1(mm)			
47601	10	180	14.7	12	72	6.7
47602	12	191	17.7	12	72	8.9
47603	13	207	18.7	12	72	11
47604	14	224	19.8	12	72	13.8
47605	17	233	23.8	6	48	12.3
47606	19	250	25.8	6	48	14.6






## Metric Double Flex Head Socket Wrenches



No.	Spec. (mm)	L(mm)	D1(mm)	D2(mm)			
47501	8×9	183	14	12.7	6	48	5.2
47502	10×11	197	15.8	14.7	6	48	6.4
47503	12×13	211	17.4	16.2	6	48	9.2
47504	14×15	240	21.9	19.8	6	36	9.4
47505	16×17	256	24	23.9	6	36	12.1
47506	18×19	272	27	26.9	6	36	14.9

## Metric Construction Ratcheting Wrenches






No.	Spec. (mm)	L(mm)	A(mm)			
47305	12×14	225	35	2	36	9.4
47308	14×17	270	45	2	36	12.8
47309	17×19	305	53	2	36	18.4
47310	17×21	310	50	2	36	18.6
47312	19×21	310	50	2	36	18.3
47313	19×22	310	50	2	36	18
47314	19×24	310	50	2	36	18
47317	21×26	370	55	2	12	12
47319	22×24	370	60	2	12	11.9
47321	24×27	400	65	2	12	14.1
47322	24×30	400	64	2	12	14.2
47324	30×32	420	75	2	12	13.6
47325	32×36	420	75	2	12	18.9

## T-Handle 6Pt. Socket Wrench






- Socket made of quality Cr-V
- 30cm-long extension bar for use in narrow space
- 20cm-long handle for higher torque

No.	Spec. (mm)	L(mm)			
47701	8	310	-	50	16.2
47702	9	310	-	50	16.4
47703	10	308	-	50	16.8
47704	11	308	-	50	20
47705	12	308	-	50	17.4
47706	13	310	-	35	16.3
47707	14	310	-	35	16.4
47710	17	313	-	25	15.9
47712	19	313	-	25	16.2

## Metric Box End Slugging Wrenches



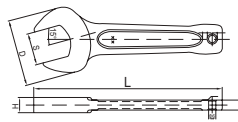
- Forged from alloy steel
- Subjected to heat treatment for uniform hardness
- Surface with hard film and subject to anti-rust treatment for elegance, durability and rust prevention
- Tapping end with a safety hole to be hung with wire and string and connected to device during tapping to avoid wounding due to excessive force, and facilitate hanging and storage when not in use

No.	Spec. (mm)	S(mm)	L(mm)	D(mm)	H(mm)			
48505	27	27	175	45	15	6	24	7.9
48506	30	30	185	55	15	6	24	10.1
48507	32	32	185	50	15	6	24	10.8
48509	36	36	205	55	15	6	24	13.8
48512	41	41	225	62	19	6	24	17.7
48515	46	46	235	75	20	6	24	22.3
48516	50	50	250	75	20	6	18	19.6
48517	55	55	265	85	25	6	12	16
48519	60	60	274	90	25	6	12	18.9
48520	65	65	298	90	25	6	12	24.5
48521	70	70	320	105	30	3	6	14.6
48522	75	75	330	110	33.3	1	6	17
48523	80	80	359	131	36	1	6	23
48524	85	85	359	131	36	1	6	23
48525	90	90	391	145	39.8	1	4	24
48526	95	95	391	145	39.8	1	4	22
48527	100	100	421	158	43.5	1	2	14
48528	105	105	421	158	45.5	1	2	14
48529	110	110	450	172	47.5	1	2	17
48530	115	115	450	172	47.5	1	2	16
48531	120	120	480	185	53	1	2	19





## Metric Open End Slugging Wrenches

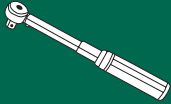



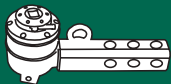


- Forged from alloy steel
- Subjected to heat treatment for uniform hardness
- Surface with hard film and subject to anti-rust treatment for elegance, durability and rust prevention
- Tapping end with a safety hole to be hung with wire and string and connected to device during tapping to avoid wounding due to excessive force, and facilitate hanging and storage when not in use

No.	Spec. (mm)	S(mm)	L(mm)	D(mm)	H(mm)			
48603	27	27	175	45	15	6	24	9.3
48604	30	30	185	55	15	6	24	13.6
48605	32	32	185	50	15	6	24	12.4
48607	36	36	205	55	15	6	24	17.4
48609	41	41	225	62	19	6	24	23.5
48610	46	46	235	75	20	6	18	23.5
48611	50	50	250	75	20	6	12	18.8
48612	55	55	265	85	25	6	12	24.1
48613	60	60	274	90	25	3	6	14.2
48614	65	65	298	90	25	3	6	19.3
48615	70	70	320	105	30	3	6	24
48616	75	75	330	110	33.3	1	6	29
48617	80	80	359	131	36	1	4	28
48618	85	85	359	131	36	1	4	26
48619	90	90	391	145	39.8	1	2	19
48620	95	95	391	145	39.8	1	2	19
48621	100	100	421	158	43.5	1	2	22
48622	105	105	421	158	45.5	1	2	22

# Torque Wrench

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	Mechanical Torque Wrench	<b>83-84</b>
	G-series Big Spec. Torque Wrench	<b>84</b>
	G-series Industrial Torque Wrench	<b>86</b>
	Electronic Torque Wrench	<b>85</b>
	Torque Multiplier	<b>89-91</b>

# Torque Wrench

## Torque Tester



- Reading accuracy of  $\pm 1\%$ , with two decimal places and one decimal place for 96473 and 96474 respectively
- Mini USB charger (with 5V/1A charger as standard configuration) for use along or with a computer for good portability and suitable for daily rapid detection of two-way communication between WiFi and USB serial port in workshop and production line
- Communication standard of WiFi module of 2.4G 802.11 b/g/n, with maximum WiFi transmission distance of 30m
- Computer software (Windows system) provided for writing the device setting value and other information and reading the torque value of the device
- Test report to be exported with one click, suitable for calibration in laboratory/measuring room
- Preset torque value and qualified accuracy percentage of torque set through the software interface or buttons at the back of the device (factory default is 3%)
- Capable of tracking and capturing peak torque (the first peak), and automatically determining whether it is OK or not (LED lamp in green if OK, otherwise in red with beeping sound)

No.	Spec. N·m	Reading Accuracy	Edge-to-Edge Size of Active Tip			
96473	2-50	$\pm 1\%$	11mm	-	4	16.3
96474	9-320	$\pm 1\%$	19mm	-	4	16.3

▲ Product with warranty of 12 months and accessories with warranty of 6 months

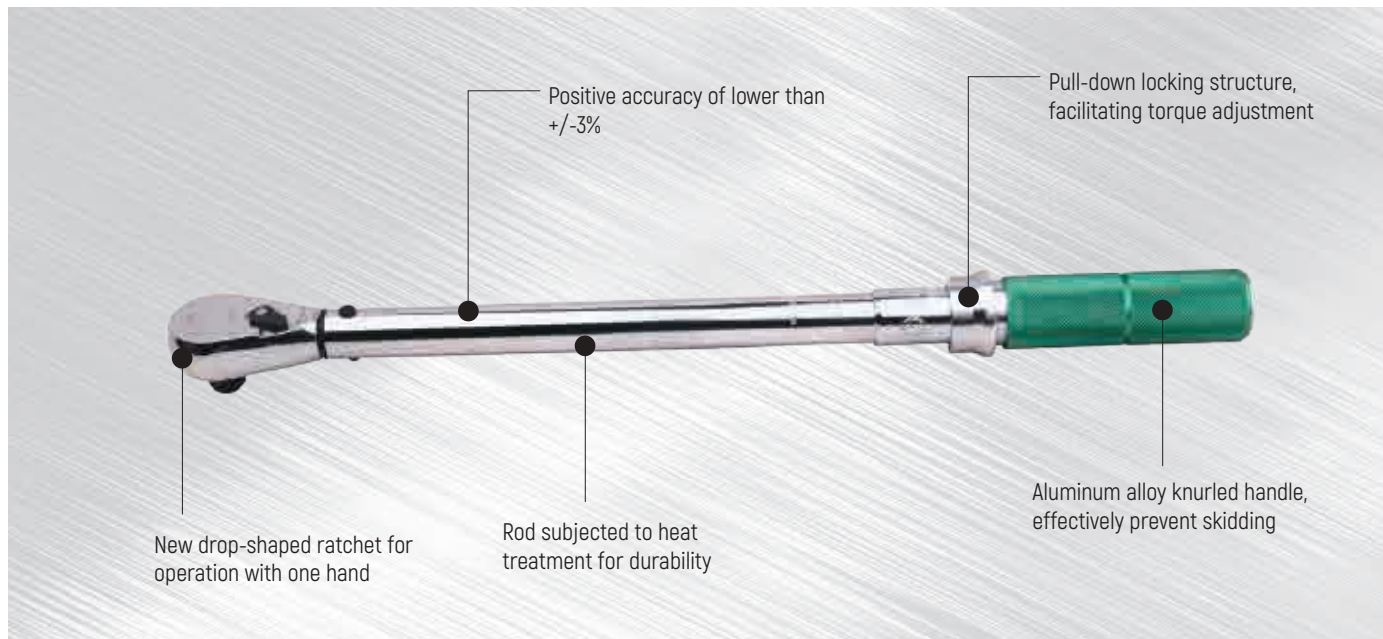
## 96211 1/4" Dr. Adjustable Torque Wrench 1-5N·m



- New drop-shaped ratchet for operation with one hand
- Positive accuracy  $\pm 3\%$
- Aluminum alloy knurled handle, effectively prevent skidding
- Pull-down locking structure, facilitating torque adjustment

No.	Torsion Range(Nm)	Driving Head	L(mm)	Indexing (N·m)			
96211	1-5	1/4"	224	0.1	-	10	9.8

▲ Note: When the torque exceeds the specified range, the measured torque can only be used for reference, and the forward  $\pm 3\%$  accuracy cannot be guaranteed. The torque wrench is a precision instrument and is not covered by SATA lifetime warranty. Please refer to the instructions for detailed instructions on how to use the products and services.



### Warranty for torsion wrenches

- Warranty of 90 days (180 days for G series) from the purchase date (as per invoice date). Parts can be repaired or replaced free of charge due to damage caused by materials and processes.
- The premise of free repair or replacement of parts is: The part is within the warranty of 90 days from the purchase date (based on the invoice date) (180 days for G series) with operation times of less than 5000 and accuracy exceeding  $\pm 3\%$  tested by the third-party torque testing instrument;
- Parts are not covered by the warranty if they are damaged or their accuracy exceed  $\pm 3\%$  due to misuse, abuse, accident or non-normal use without following precautions;
- Products are not covered by the warranty if they are repaired by any maintenance agency not authorized by SATA.



### 3/8" Dr. Adjustable Torque Wrench



96212



96310

- New drop-shaped ratchet for operation with one hand
- Positive accuracy  $\pm 3\%$
- Aluminum alloy knurled handle, effectively prevent skidding
- Pull-down locking structure, facilitating torque adjustment

No.	Torsion Range(Nm)	Driving Head	L(mm)	Indexing (N-m)			
96212	5-25	3/8"	268	0.1	-	6	10.2
96310	10-50	3/8"	426	0.5	-	10	17.2

▲ Note: When the torque exceeds the specified range, the measured torque can only be used for reference, and the forward  $\pm 3\%$  accuracy cannot be guaranteed. The torque wrench is a precision instrument and is not covered by SATA lifetime warranty. Please refer to the instructions for detailed instructions on how to use the products and services.

### 3/4" Dr. Adjustable Torque Wrench



96411



96412

- Product subjected to adjustment and test before delivery  $\pm 3\%$  clockwise accuracy guaranteed

No.	Torsion Range(Nm)	Driving Head	L(mm)	Indexing(N-m)			
96411	110-550	3/4"	864	2.5	-	1	6.7
96412	160-800	3/4"	1075	2.5	-	1	7.3

▲ Note: When the torque exceeds the specified range, the measured torque can only be used for reference, and the forward  $\pm 3\%$  accuracy cannot be guaranteed. The torque wrench is a precision instrument and is not covered by SATA lifetime warranty. Please refer to the instructions for detailed instructions on how to use the products and services.

### 1/2" Dr. Adjustable Torque Wrench



96311



96312



96313

- New drop-shaped ratchet for operation with one hand
- Positive accuracy  $\pm 3\%$
- Aluminum alloy knurled handle, effectively prevent skidding
- Pull-down locking structure, facilitating torque adjustment

No.	Torsion Range(Nm)	Driving Head	L(mm)	Indexing(N-m)			
96311	20-100	1/2"	473	0.5	-	10	17.2
96312	40-200	1/2"	555	1	-	10	18.9
96313	68-340	1/2"	616	2	-	10	21.8

▲ Note: When the torque exceeds the specified range, the measured torque can only be used for reference, and the forward  $\pm 3\%$  accuracy cannot be guaranteed. The torque wrench is a precision instrument and is not covered by SATA lifetime warranty. Please refer to the instructions for detailed instructions on how to use the products and services.

### 1" Dr. Adjustable Torque Wrench



96431



96433



- Imported with original packaging from Italy
- Driving head can be pushed up for reverse operation
- Handle with open-welded structure, facilitating adjustment, calibration and maintenance
- Torque accuracy  $\pm 4\%$
- Applicable for large equipment installation and maintenance in such fields as machinery manufacturing, rail transit, petrochemical, metallurgy and other industries

No.	Driving Head (in.)	Torsion Range (N.m)	Torsion Range (lbf.ft)	Total Length (mm)	Indexing (N-m)	Weight (kg)			
96431	1"	200-1000	150-750	1030	25	9.7	-	1	13.8
96433	1"	500-2000	350-1500	1400	50	18	-	1	22.8





## Preset Torque Wrench



96241



96242



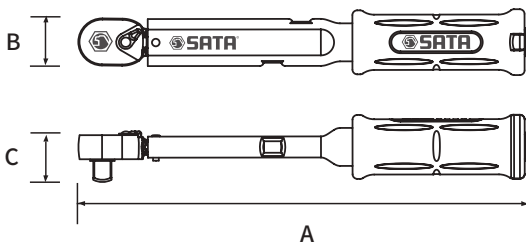
96243



96244



96245



- No torque value scale and adjustment mechanism are provided for the Pre-Set Torque Wrench. Only special tools can be used to set and change the torque value of the product.
- Internal tripping mechanism with imported high-precision spring for accuracy and durability
- When reaching the torque set value, the internal device sends out the sound of "click" with vibration. At this time, stop operation immediately to prevent overtightening.
- It can be used in both directions, but only in the forward (clockwise) direction can the torque value be set.
- Ratchet with 36 teeth with operating angle for each tooth of 10°, suitable for use in narrow space
- Meeting ISO 6789-2004 standard

### Torque adjustment tools:

- T15 Torx® wrenches with tamper for 96241, 96242 and 96243
- T25 Torx® wrenches with tamper for 96244 and 96245

No.	Torsion Adjustment Range(N.m)	Driving Head(M) Spec.	Total Length A(mm)	Tip Height B(mm)	Tip Height C(mm)	Weight (kg)			
96241	1-5	1/4"	190	25	21	0.2	-	10	4.5
96242	5-25	3/8"	215	25	25	0.22	-	10	4.8
96243	10-50	3/8"	235	25	25	0.37	-	10	6.2
96244	20-100	1/2"	315	32	34	0.63	-	10	9.6
96245	40-200	1/2"	463	32	34	1.15	-	10	16.2

1. Default torque of the fixed torque wrench is 0 N.m.
2. Torque can be set according to user's requirement, but the delivery date will be extended. (For details, please contact the local sales staff or call SATA service hotline for consultation.)

## Electronic Torque Wrench



96525



96526



96527



96528 / 96529 / 96530 / 96531



96532

- Output torque accuracy up to  $\pm 1.5\%$  (forward) and  $\pm 2\%$  (reverse)
- Three types of prompts available: indicator light, buzzer and vibrator
- Available torque units: n-m/bf-ft/lbf-in/kgf-m/kgf-cm

No.	Driving Head (in.)	Torsion Range (N.m)	Torsion Range (lbf.ft)	Total Length (mm)	Indexing (N-m)	Weight (g)			
96525	3/8	27-135	19.9-99.6	400	0.1	980	-	8	11.5
96526	1/2	40-200	29.5-147	550	0.1	1080	-	6	10
96527	1/2	68-340	50-250.9	628	0.1	1380	-	6	12
96528	3/4	120-600	88.5-443	1248	0.1	5940	-	1	8.7
96529	3/4	160-800	118-590	1248	0.1	5940	-	1	8.7
96530	3/4	200-1000	147.5-738	1248	1	5940	-	1	8.7
96531	11	300-1500	221.2-1106	1248	1	6100	-	1	8.9
96532	3/4	400-2000	295-1475	2000	1	12000	-	1	17.4

- ▲ This product is a precision instrument with warranty of 12 months /10000 times.

## Interchangeable Torque Wrench



96221



96222



96321



96322



96323

- Forged from quality Cr-V square joint with chrome-plated surface
- Rod subjected to heat treatment for durability and anti-deformation
- Pull-down clasp for torque adjustment for efficiency and convenience
- Anodized and knurled handle made of aluminum alloy, being artistic and elegant
- Applicable to square socket wrench heads with 9\*12mm and 14\*18mm interfaces below

No.	Connector Size (mm)	Torsion Range (N.m)	Total Length (mm)	Indexing (N-m)	Accuracy	Weight (g)			
96221	9×12	1-5	210	0.1	3%	300	-	16	8.8
96222	9×12	5-25	250	0.1	3%	330	-	16	9.4
96321	9×12	20-100	424	0.5	3%	1020	-	10	14.3
96322	14×18	40-200	530	1	3%	1390	-	10	16.8
96323	14×18	68-340	591	2	3%	1460	-	10	19.7

- ▲ This product is a precision instrument with warranty of 90 days /5000 times.

## G Series Adjustable Torque Wrench



No.	Driving Head (in.)	Torsion Range (N.m)	Torsion Range (lbf.ft)	Total Length (mm)	Indexing (N.m)	Weight (g)			
96421	1/4	1-5	0.75-3.7	220	0.025	300	-	1	0.4
96422	1/4	5-25	3.7-18	285	0.1	450	-	1	0.6
96423	3/8	10-50	7.4-37	335	0.25	540	-	1	0.8
96424	1/2	20-100	15-75	395	0.5	900	-	1	1.2
96425	1/2	40-200	30-150	485	1	1100	-	1	1.5
96426	1/2	60-300	45-220	575	1	1400	-	1	1.6
96427	1/2	80-400	59-300	665	1	2000	-	1	2.1
96428	3/4	110-550	81-405	960	1	3800	-	1	4.1
96429	3/4	150-750	111-550	1240	1	4800	-	1	5.4
96430	3/4	250-850	184-630	1390	1	4700	-	1	5.8

⚠ The torque wrench is a precision instrument and is not covered by SATA lifetime warranty. Please refer to the instructions for detailed instructions on how to use the products and services.

## G Series Interchangeable Torque Wrench



• Select wrench head according to the depth

No.	Tip Diameter (mm)	Adaptation Depth (mm)	Torsion Range (N.m)	Torsion Range (lbf.ft)	Total Length (mm)	Indexing (N.m)	Weight (g)			
96442	16	32	5-25	3.7-18	278.0	0.1	300	-	1	0.5
96443	16	32	10-50	7.4-37	328.0	0.25	450	-	1	0.6
96444	16	32	20-100	15-75	376.5	0.5	600	-	1	0.9
96445	16	32	40-200	30-150	467.5	1	800	-	1	1.1
96446	16	32	60-300	45-220	558.5	1	1200	-	1	1.4
96447	16	32	80-400	59-300	648.5	1	1500	-	1	1.9
96448	22	56	110-550	81-400	917.0	1	3800	-	1	3.5
96449	22	56	150-750	111-550	1198.0	1	4450	-	1	4.7

⚠ The torque wrench is a precision instrument and is not covered by SATA lifetime warranty. Please refer to the instructions for detailed instructions on how to use the products and services.

## Solid square drive torque wrench with ratchet for two-way operation



Heat-treated steel pipe for firmness and strength, sand-blasted surface subjected to chrome plating for corrosion resistance, with mature and stable mechanical structure

Magnified window presetting display for easy operation, with forward accuracy  $\pm 3\%$  and dual scale

Chrome-plated one-way ratchet head for stability, long service life, reverse operation by just pulling it out

Dual force prompt with "click" sound when force applied in noisy environment

Fine tuning window for more precise settings

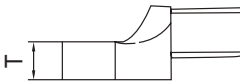
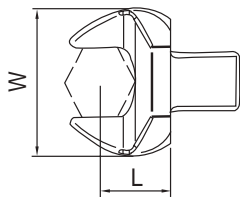
Locking button to avoid misoperation

Ergonomic and anti-skidding handle with rotary compression spring for lightness and labor-saving

Dial with readable double scale (N.m/lbf.ft) protected by lenses that function as magnifying glasses Torque settings read from the dial and more detailed dials read in conjunction with the dial ring



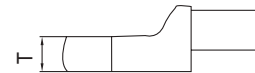
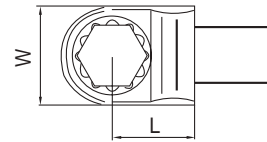
## Torque Wrench Open End Fitting



- Torque wrench head easy to change, suitable for narrow space with tight bolt connection
- Made of hot-forged Cr-V with chrome-plated surface
- Capable of bolt tripping

No.	Spec. (mm)	Connector (mm)	L(mm)	T(mm)	W(mm)	Weight (g)			
96621K	7	9×12	17.5	5.7	20.7	40	12	-	-
96622K	8	9×12	17.5	5.7	22.0	39	12	-	-
96623K	9	9×12	17.5	5.7	23.5	38	12	-	-
96624K	10	9×12	17.5	5.7	24.8	42	12	-	-
96625K	11	9×12	17.5	5.7	26.0	41	12	-	-
96626K	12	9×12	17.5	5.7	27.5	43	12	-	-
96627K	13	9×12	17.5	5.7	28.8	48	12	-	-
96628K	14	9×12	17.5	7.7	31.5	52	12	-	-
96629K	15	9×12	17.5	7.7	33.5	51	12	-	-
96630K	16	9×12	17.5	7.7	36.0	58	12	-	-
96631K	17	9×12	17.5	7.7	37.7	60	12	-	-
96632K	18	9×12	17.5	7.7	39.0	71	12	-	-
96633K	19	9×12	17.5	7.7	41.6	74	12	-	-
96655K	17	14×18	25	9	37.0	136	6	-	-
96656K	18	14×18	25	9	39.0	147	6	-	-
96657K	19	14×18	25	9	40.6	147	6	-	-
96659K	21	14×18	25	11	45.5	171	6	-	-
96660K	22	14×18	25	11	47.3	165	6	-	-
96662K	24	14×18	25	11	50.8	167	6	-	-
96665K	27	14×18	25	13.8	58.4	219	6	-	-
96668K	30	14×18	25	13.8	62.5	245	6	-	-
96670K	32	14×18	25	13.8	65.0	246	6	-	-

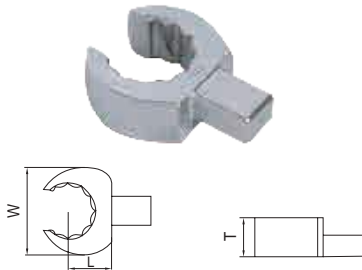
## Torque Wrench Box End Fitting



- Torque wrench head easy to change, suitable for narrow space with tight bolt connection
- Made of hot-forged Cr-V with chrome-plated surface
- Capable of bolt tripping

No.	Spec. (mm)	Connector (mm)	L(mm)	T(mm)	W(mm)	Weight (g)			
96621M	7	9×12	17.5	8	19.8	37	12	-	-
96622M	8	9×12	17.5	8	19.8	40	12	-	-
96623M	9	9×12	17.5	8	19.8	44	12	-	-
96624M	10	9×12	17.5	8	20	44	12	-	-
96625M	11	9×12	17.5	8	20	41	12	-	-
96626M	12	9×12	17.5	12	20.2	49	12	-	-
96627M	13	9×12	17.5	12	22.2	56	12	-	-
96628M	14	9×12	17.5	12	23.5	52	12	-	-
96629M	15	9×12	17.5	12	24.6	52	12	-	-
96630M	16	9×12	17.5	13	26.4	54	12	-	-
96631M	17	9×12	17.5	13	27.3	59	12	-	-
96632M	18	9×12	17.5	13	29	56	12	-	-
96633M	19	9×12	17.5	13	31	65	12	-	-
96635M	21	9×12	17.5	14.7	33.4	71	12	-	-
96636M	22	9×12	17.5	14.7	35	74	12	-	-
96655M	17	14×18	25	12.5	30.5	135	6	-	-
96656M	18	14×18	25	12.5	30.5	134	6	-	-
96657M	19	14×18	25	12.5	31	138	6	-	-
96659M	21	14×18	25	15	33.4	144	6	-	-
96660M	22	14×18	25	15	35.2	145	6	-	-
96662M	24	14×18	25	15	37.4	153	6	-	-
96665M	27	14×18	25	17.5	41.7	162	6	-	-
96668M	30	14×18	25	17.5	45.3	182	6	-	-
96670M	32	14×18	25	17.5	47.8	181	6	-	-

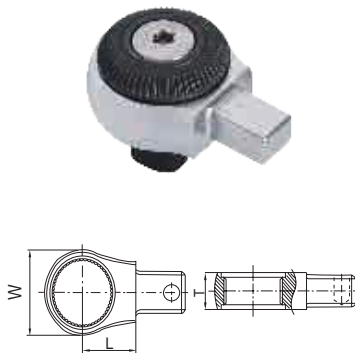
## Torque Wrench Open Box End Fitting



- Torque wrench head easy to change, suitable for narrow space with tight bolt connection
- Made of hot-forged Cr-V with chrome-plated surface
- Capable of bolt tripping

No.	Spec. (mm)	Connector (mm)	L(mm)	T(mm)	W(mm)	Weight (g)			
96710K	10	9×12	17.5	12	21.2	57	12	-	-
96711K	11	9×12	17.5	12	22.6	55	12	-	-
96712K	12	9×12	17.5	12	24.1	59	12	-	-
96713K	13	9×12	17.5	12	25.2	55	12	-	-
96714K	14	9×12	17.5	13	27.3	60	12	-	-
96716K	16	9×12	17.5	13	30.1	65	12	-	-
96717K	17	9×12	17.5	13	31.6	64	12	-	-
96718K	18	9×12	17.5	15	33.3	74	12	-	-
96719K	19	9×12	17.5	15	34.6	80	12	-	-
96721K	21	9×12	17.5	15	37.7	88	12	-	-
96722K	22	9×12	17.5	15	39.3	92	12	-	-

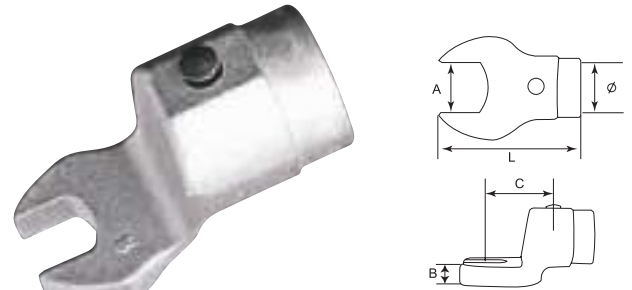
## Torque Wrench Ratcheting Head



- Torque wrench head easy to change, suitable for narrow space with tight bolt connection
- Made of hot-forged Cr-V with chrome-plated surface
- Capable of bolt tripping

No.	Driving Head	Spec. (mm)	Connector (mm)	L (mm)	T (mm)	W (mm)	Weight (g)			
96572	1/4"	12	9×12	17.5	23	25	69	12	-	-
96573	3/8"	12	9×12	17.5	33	34	143	12	-	-
96574	1/2"	12	9×12	17.5	38	34	154	12	-	-
96575	1/2"	18	14×18	25	43	41	300	6	-	-

## Torque Wrench Open End Fitting



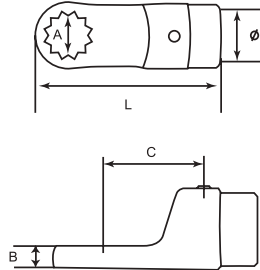
- Torque wrench head easy to change, suitable for narrow space with tight bolt connection
- Made of hot-forged Cr-V with chrome-plated surface
- Capable of bolt tripping

No.	Active Tip Width A(mm)	Active Tip Depth B(mm)	Depth C(mm)	Connector Φ(mm)	L (mm)	Weight (kg)			
96521K	7	5	32	16	54	0.08	1	-	-
96522K	8	5	32	16	54	0.08	1	-	-
96523K	9	5	32	16	58	0.08	1	-	-
96524K	10	7	32	16	58	0.09	1	-	-
96525K	11	7	32	16	58	0.09	1	-	-
96526K	12	7	32	16	55	0.09	1	-	-
96527K	13	8	32	16	58	0.12	1	-	-
96528K	14	8	32	16	58	0.12	1	-	-
96529K	15	8	32	16	58	0.12	1	-	-
96530K	16	9	32	16	58	0.16	1	-	-
96531K	17	9	32	16	58	0.16	1	-	-
96532K	18	9	32	16	58	0.16	1	-	-
96533K	19	10	32	16	63	0.18	1	-	-
96534K	20	10	32	16	63	0.18	1	-	-
96535K	21	10	32	16	63	0.18	1	-	-
96536K	22	11	32	16	63	0.22	1	-	-
96537K	24	11	32	16	64	0.22	1	-	-
96538K	27	12	32	16	66	0.26	1	-	-
96539K	30	12	32	16	66	0.3	1	-	-
96540K	32	12	32	16	66	0.3	1	-	-
96541K	36	12	32	16	65	0.3	1	-	-
96551K	22	11	56	22	90	0.33	1	-	-
96552K	24	11	56	22	90	0.32	1	-	-
96553K	27	12	56	22	93	0.38	1	-	-
96554K	30	12	56	22	93	0.37	1	-	-
96555K	32	12	56	22	98	0.45	1	-	-
96556K	34	12	56	22	98	0.43	1	-	-
96557K	36	12	56	22	96	0.43	1	-	-
96558K	41	12	56	22	103	0.58	1	-	-
96559K	46	12	56	22	103	0.53	1	-	-

▲ No warranty as consumables



## Torque Wrench Open End Fitting

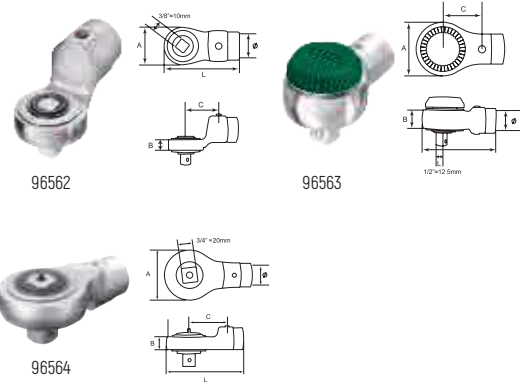


- Torque wrench head easy to change, suitable for narrow space with tight bolt connection
- Made of hot-forged Cr-V with chrome-plated surface
- Capable of bolt tripping

No.	Active Tip Width A(mm)	Active Tip Depth B(mm)	Depth C(mm)	Connector Φ(mm)	L (mm)	Weight (kg)			
96521M	7	8	32	16	58	0.09	1	-	-
96522M	8	8	32	16	58	0.09	1	-	-
96523M	9	8	32	16	58	0.09	1	-	-
96524M	10	10	32	16	58	0.1	1	-	-
96525M	11	10	32	16	60	0.1	1	-	-
96526M	12	10	32	16	60	0.1	1	-	-
96527M	13	12	32	16	62	0.14	1	-	-
96528M	14	12	32	16	62	0.14	1	-	-
96529M	15	12	32	16	62	0.14	1	-	-
96530M	16	13	32	16	65	0.18	1	-	-
96531M	17	13	32	16	65	0.18	1	-	-
96532M	18	13	32	16	65	0.18	1	-	-
96533M	19	14	32	16	65	0.21	1	-	-
96534M	20	14	32	16	65	0.21	1	-	-
96535M	21	14	32	16	66	0.21	1	-	-
96536M	22	15	32	16	66	0.26	1	-	-
96537M	24	15	32	16	70	0.26	1	-	-
96538M	27	16	32	16	70	0.3	1	-	-
96551M	22	15	56	22	70	0.35	1	-	-
96552M	24	15	56	22	93	0.33	1	-	-
96553M	27	17	56	22	93	0.37	1	-	-
96554M	30	17	56	22	101	0.35	1	-	-
96555M	32	20	56	22	101	0.42	1	-	-
96556M	34	20	56	22	105	0.42	1	-	-
96557M	36	20	56	22	105	0.39	1	-	-
96558M	41	22	56	22	112	0.56	1	-	-
96559M	46	22	56	22	112	0.52	1	-	-

▲ No warranty as consumables

## Torque Wrench Ratcheting Head

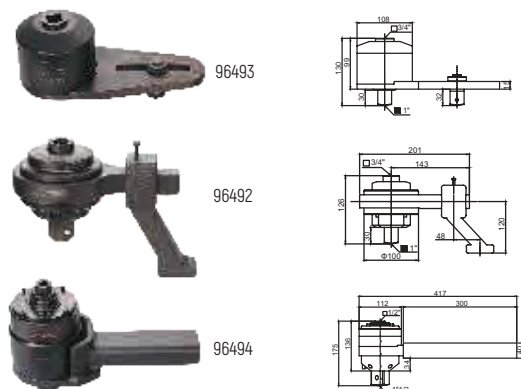


- Torque wrench head easy to change, suitable for narrow space with tight bolt connection
- Made of hot-forged Cr-V with chrome-plated surface
- Capable of bolt tripping

No.	Driving Head	Active Tip Width A(mm)	Active Tip Depth B(mm)	Depth C (mm)	Connector Φ(mm)	L (mm)	Weight (kg)			
96562	3/8"	35	15	32	16	70	0.17	1	-	-
96563	1/2"	44	35	32	16	70	0.27	1	-	-
96564	3/4"	69	30	56	22	70	0.95	1	-	-

▲ No warranty as consumables

## Torque Multiplier



Note: the conversion ratio in the table is for selection reference only. The actual ratio is subject to the certificate attached to each product.

No.	Maximum Input Torque (N.m)	Maximum Output Torque (N.m)	Gear Ratio	Input Terminal Square Drive Size	Output Terminal Square Drive Size	L (mm)	Diameter (mm)	H (mm)	Weight (kg)			
96491	280	1500	1:6	1/2"	3/4"	128	100	105	4.9	-	1	6.2
96492	500	2300	1:5.4	3/4"	1"	221	100	126	6.4	-	1	7.9
96493	777	3100	1:4.5	3/4"	1"	264	108	130	7.3	-	1	9.8
96494	225	4000	1:20	1/2"	1-1/2"	312	120	204	8.3	-	1	16.7
96495	230	5300	1:26	1/2"	1-1/2"	333	130	216	15.7	-	1	21.5

▲ Excluded from lifetime warranty terms.



Gear made of quality alloy steel with special processing and heat treatment for high bearing capacity

Used to replace large torsion wrench without using lengthened handle for easy operation



Product subjected to verification before leaving the factory with torque ratio accuracy of up to  $\pm 4\%$  (the actual torque ratio is subject to the torque ratio on the factory certificate attached to the product)



High-strength shockproof suitcase facilitating carrying and field operation

Mechanical safety gear broke first in case of overload to protect the machine

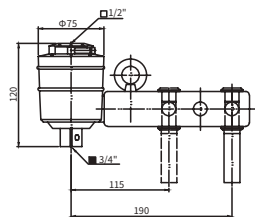
High-strength military toolkit



Made from special material for small size, high strength, light weight and easy carrying

Product subjected to verification before leaving the factory with torque ratio accuracy of up to  $\pm 4\%$  (the actual torque ratio is subject to the torque ratio on the factory certificate attached to the product)

## Super Lightweight Torque Multiplier

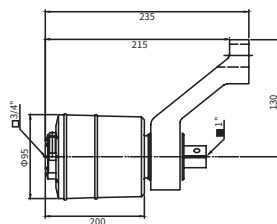


Note: the conversion ratio in the table is for selection reference only. The actual ratio is subject to the certificate attached to each product

No.	Maximum Input Torque (N.m)	Maximum Output Torque (N.m)	Gear Ratio	Input Terminal Square Drive Size	Output Terminal Square Drive Size	Diameter (mm)	H (mm)	Weight (kg)			
96496	80	900	1:12.5	1/2"	3/4"	75	120	3.2	-	1	5.5
96497	182	2000	1:12.5	1/2"	1"	75	124	3.4	-	1	5.5

▲ Excluded from lifetime warranty terms.

## Portable Lightweight Torque Multiplier

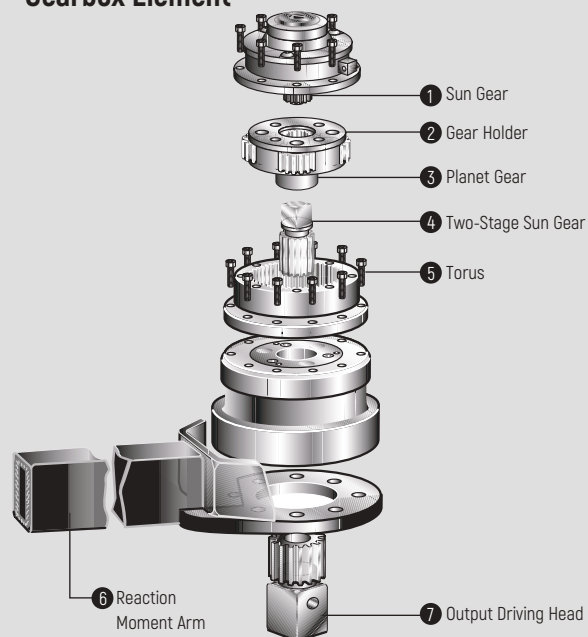


Note: the conversion ratio in the table is for selection reference only. The actual ratio is subject to the certificate attached to each product

No.	Maximum Input Torque (N.m)	Maximum Output Torque (N.m)	Gear Ratio	Input Terminal Square Drive Size	Output Terminal Square Drive Size	Diameter (mm)	H (mm)	Weight (kg)			
96498	215	900	1:13	1/2"	1"	95	200	5.2	-	1	10.7
96499	292	3400	1:13	3/4"	1"	95	200	5.2	-	1	4

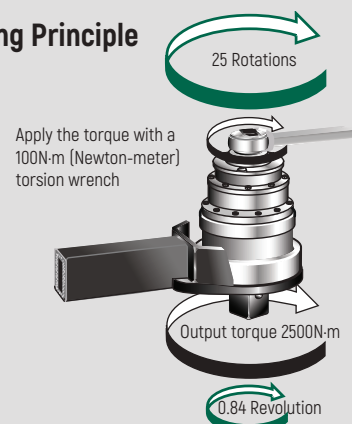
▲ Excluded from lifetime warranty terms.

## Gearbox Element

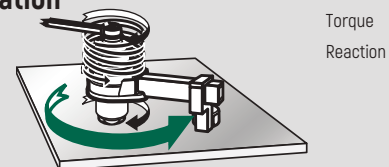


## Operating Principle

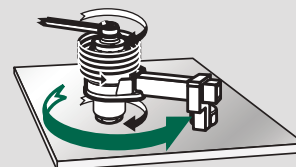
Torque  
Rate



## Safe operation



Gearbox and torque increase force, with the same principle as a spring!









The multiplier produces maximum torque only when the spring is at its tightest.



# Hex Key Wrench

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	Hex Key Set	<b>93-99</b>
	Square Male Hex Key	<b>99-104</b>
	Ball Male Hex Key	<b>99-103</b>
	Tamper Torx® Hex Key	<b>101</b>
	T-Shape Hex Key	<b>103</b>
	Big Hex Key	<b>103-104</b>



# Hex Key Wrench

## 09101 9Pc. Extra Long Ball Point Hex Key Set



- New SVCM+ material for higher torque
- Hex key holder specially designed for easy inserting & removing and long-time operation
- Butterfly socket with novel appearance
- Fully polished surface plated with chrome

No.	Spec. (mm)			
09101	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10	6	36	18.8

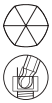
## 09104 12Pc. Extra Long Hex Key Set, SAE



- Material: S2
- Fully polished surface plated with chrome
- Butterfly socket for easy holding

No.	Spec.			
09104	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	-	36	20.9

## 09102 12Pc. Extra Long Ball Point Hex Key Set, SAE



- Material: S2
- Fully polished surface with chrome plated
- Butterfly socket for easy holding

No.	Spec.			
09102	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	6	36	20.8

## 09105 9Pc. Long Arm Ball Point Hex Key Set



- New SVCM+ material for higher torque
- Hex key holder specially designed for easy inserting & removing and long-time operation
- Butterfly socket with novel appearance
- Fully polished surface plated with chrome

No.	Spec. (mm)			
09105	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10	6	36	15.4

## 09103 9Pc. Extra Long Hex Key Set



- New SVCM+ material for higher torque
- Hex key holder specially designed for easy inserting & removing and long-time operation
- Butterfly socket with novel appearance
- Fully polished surface plated with chrome

No.	Spec. (mm)			
09103	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10	6	36	18.9

## 09106 12Pc. Long Arm Ball Point Hex Key Set, SAE



- Material: S2
- Fully polished surface plated with chrome
- Butterfly socket for easy holding

No.	Spec.			
09106	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	6	36	16.7





## 09107 9Pc. Long Arm Hex Key Set



- New SVCM+ material for higher torque
- Hex key holder specially designed for easy inserting & removing and long-time operation
- Butterfly socket with novel appearance
- Fully polished surface plated with chrome

No.	Spec. (mm)			
09107	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10	6	36	15.6

## 09108 12Pc. Long Arm Hex Key Set, SAE



- Material: S2
- Fully polished surface plated with chrome
- Butterfly socket for easy holding

No.	Spec.			
09108	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	-	36	16.9

## 09119 8Pc. Mini Hex Key Set



- Material: Cr-V (chrome-vanadium steel)

No.	Spec. (mm)			
09119	0.7, 0.9, 1.3, 1.5, 2, 2.5, 3, 4	24	192	71

## 09121 8Pc. Folding Hex Key Set



- New ergonomic handle for higher torque output
- Material: Cr-V (chrome-vanadium steel)

No.	Spec. (mm)			
09121	1.5, 2, 2.5, 3, 4, 5, 6, 8	6	24	5

## 09122 9Pc. Folding Hex Key Set, SAE



- New ergonomic handle for higher torque output
- Material: Cr-V (chrome-vanadium steel)

No.	Spec.			
09122	1/4", 7/32", 3/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32"	6	24	4.6

## 09123 8Pc. Folding Tamper-Proof Torx® Key Set



- New ergonomic handle for higher torque output
- Material: Cr-V (chrome-vanadium steel)




No.	Spec.			
09123	TT9, TT10, TT15, TT20, TT25, TT27, TT30, TT40	6	24	4.6



### 09701 8Pc. Long Arm Tamper-Proof Torx® Key Set






- Made of S2 alloy steel with tamper and quenching treatment
- Chrome-plated mist surface for elegance and rust protection
- Inner hexagon socket for convenience and steadiness
- Butterfly socket with novel appearance

No.	Spec.			
09701	TT6, TT7, TT8, TT9, TT10, TT15, TT20, TT25	-	12	1.1

### 09109 7Pc. Extra Long Ball Point Hex Key Set






- New SVCM+ material for higher torque
- Inner hexagon socket for convenience and steadiness
- Butterfly socket with novel appearance
- Fully polished surface plated with chrome

No.	Spec. (mm)			
09109	1.5, 2, 2.5, 3, 4, 5, 6	12	72	13.2

### 09702 9Pc. Long Arm Tamper-Proof Torx® Key Set





- Made of S2 alloy steel with tamper and quenching treatment
- Chrome-plated mist surface for elegance and rust protection
- Inner hexagon socket for convenience and steadiness
- Butterfly socket with novel appearance

No.	Spec.			
09702	TT10, TT15, TT20, TT25, TT27, TT30, TT40, TT45, TT50	6	48	17.6

### 09111 7Pc. Extra Long Hex Key Set



- New SVCM+ material for higher torque
- Inner hexagon socket for convenience and steadiness
- Butterfly socket with novel appearance
- Fully polished surface plated with chrome

No.	Spec. (mm)			
09111	1.5, 2, 2.5, 3, 4, 5, 6	12	72	12.1

### 09124 9Pc. Extra Long Ball Point Hex Key Set



- New torque extension bar for convenience and comfort
- New SVCM+ material for higher torque
- Fully polished surface plated with chrome




No.	Spec. (mm)			
09124	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10	6	24	16.1

▲ The reinforcing bar is consumable, and is not covered by SATA lifetime warranty.

### 09113 7Pc. Long Arm Ball Point Hex Key Set



- New SVCM+ material for higher torque
- Inner hexagon socket for convenience and steadiness
- Butterfly socket with novel appearance
- Fully polished surface plated with chrome

No.	Spec. (mm)			
09113	1.5, 2, 2.5, 3, 4, 5, 6	12	72	10.9

**09115 7Pc. Long Arm Hex Key Set**

- New SVCM+ material for higher torque
- Inner hexagon socket for convenience and steadiness
- Butterfly socket with novel appearance
- Fully polished surface plated with chrome

No.	Spec. (mm)			
09115	1.5, 2, 2.5, 3, 4, 5, 6	12	72	11

**09125 7Pc. Ball Point Hex Key Set**

- New SVCM+ material for higher torque
- Inner hexagon socket for convenience and steadiness
- Book-shaped socket with novel appearance
- Fully polished surface plated with chrome

No.	Spec. (mm)			
09125	1.5, 2, 2.5, 3, 4, 5, 6	12	72	9.2

▲ The reinforcing bar is consumable, and is not covered by SATA lifetime warranty.

**09127 7Pc. Hex Key Set**

- New SVCM+ material for higher torque
- Inner hexagon socket for convenience and steadiness
- Book-shaped socket with novel appearance
- Fully polished surface plated with chrome

No.	Spec. (mm)			
09127	1.5, 2, 2.5, 3, 4, 5, 6	12	72	9.1

**09117 9Pc. T-Handle Ball Point Hex Key Set**

New Handle  
Two holding methods available



- New SVCM+ material for high wear resistance and torque
- New ergonomic handle for comfort
- New mirror polished surface, preventing oil penetration, and being elegant and durable

No.	Spec. (mm)			
09117	2, 2.5, 3, 4, 5, 6, 7, 8, 10	1	6	9.2

▲ Product support is consumable, and is not covered by SATA lifetime warranty.

**09118 9Pc. T-Handle Hex Key Set**

New Handle  
Two holding methods available



- New SVCM+ material for high wear resistance and torque
- New ergonomic handle for comfort
- New mirror polished surface, preventing oil penetration, and being elegant and durable

No.	Spec. (mm)			
09118	2, 2.5, 3, 4, 5, 6, 7, 8, 10	1	6	9.2

▲ Product support is consumable, and is not covered by SATA lifetime warranty.



**09101CH 9Pc. Antislip Extra Long Arm Ball Point Hex Key Set**

- Colored sheath for quick identification, oil resistant and anti-slip.
- Special surface treatment to ensure dimensional accuracy.
- Soft plastic holder, comfortable to hold, not easy to damage or break.

No.	Spec. (mm)			
09101CH	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10	6	36	18.7

**09103CH 9Pc. Antislip Extra Long Arm Hex Key Set**

- Colored sheath for quick identification, oil resistant and anti-slip.
- Special surface treatment to ensure dimensional accuracy.
- Soft plastic holder, comfortable to hold, not easy to damage or break.

No.	Spec. (mm)			
09103CH	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10	6	36	18.7

▲ No warranty for colored sheath.

**Antislip Extra Long Arm Ball Point Hex Key**

- Colored sheath for quick identification, oil resistant and anti-slip.
- Special surface treatment to ensure dimensional accuracy.

No.	Spec. (mm)	Short side length (mm)	Long side length (mm)			
80104CH	1.5	15.5	91.5	120	720	2.5
80105CH	2	18	102	120	720	3.75
80106CH	2.5	20.5	114.5	80	640	6.8
80107CH	3	23	129	80	640	8.1
80108CH	4	29	144	80	640	13.9
80110CH	5	33	165	50	500	18
80112CH	6	38	186	50	300	16.45
80114CH	8	44	208	25	100	10.9
80116CH	10	50	234	25	100	18.8

▲ No warranty for colored sheath.

**09702CH 9Pc. Antislip Extra Long Arm Torx Key Set**

- Colored sheath for quick identification, oil resistant and anti-slip.
- Special surface treatment to ensure dimensional accuracy.
- Soft plastic holder, comfortable to hold, not easy to damage or break.

No.	Spec.			
09702CH	T10, T15, T20, T25, T27, T30, T40, T45, T50	6	36	20

▲ No warranty for colored sheath.

**09110 10Pc. Long Arm Hex Key Set**

- New SVCM+ material for higher torque
- Inner hexagon socket for convenience and steadiness
- Butterfly socket with novel appearance
- Fully polished surface plated with chrome

No.	Spec. (mm)			
09110	2, 2.5, 3, 4, 5, 6, 7, 8, 9, 10	6	36	22





**09141 14Pc. Long Arm Ball Point Hex Key Set**

- Common specifications in construction machinery industry available, with iron box, being portable and easy for storage
- New SVCM + material for high wear resistance and torque
- Elegant and durable new mirror polished surface for preventing oil penetration

No.	Spec. (mm)			
09141	1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 7, 8, 10, 12, 14, 17	4	8	18.4

**09143 14Pc. Long Arm Hex Key Set**

- Common specifications in construction machinery industry available, with iron box, being portable and easy for storage
- New SVCM + material for high wear resistance and torque
- Elegant and durable new mirror polished surface for preventing oil penetration

No.	Spec. (mm)			
09143	1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 7, 8, 10, 12, 14, 17	4	8	18.5

**09715 9Pc. Long Arm Ball Point Torx® Key Set**

- Chrome-plated mist surface for elegant and rust protection
- Made of S2 alloy steel and subject to quenching treatment
- Ball point head for tilting operation

No.	Spec.			
09715	T10,T15,T20,T25,T27,T30,T40,T45,T50	6	36	13.3

**09716 9Pc. Extra Long Arm Ball Point Torx® Key Set**

- Chrome-plated mist surface for elegant and rust protection
- Made of S2 alloy steel and subject to quenching treatment
- Ball point head for tilting operation

No.	Spec.			
09716	T10,T15,T20,T25,T27,T30,T40,T45,T50	6	36	17.8

**9pc G-series Extra Long Ball Point Hex Key Set**

- Made of Cr-V for good wear resistance and long service life
- Subjected to CNC processing for accuracy
- Chrome-plated mist surface for elegance and rust protection

No.	Spec. (mm)	L(mm)	A(mm)			
80204	1.5	90	16	36	2016	5.8
80205	2	101	19	36	2016	7.8
80206	2.5	113	21	36	2016	13.9
80207	3	128	23	18	936	11.1
80208	4	142	29	18	936	19.5
80210	5	163	33	18	450	15.8
80212	6	184	38	18	360	19.6
80213	7	195	39	18	180	15
80214	8	205	44	12	96	10.9
80216	10	231	50	12	96	18.2





## Long Arm Ball Point Torx® Key



- Chrome-plated mist surface for elegant and rust protection
- Made of S2 alloy steel and subject to quenching treatment
- Ball point head for tilting operation

No.	Spec.	L(mm)	A(mm)			
84604	T10	89.0	20.0	72	864	7
84605	T15	93.5	21.5	72	864	9
84606	T20	99.0	23.0	72	432	5.8
84607	T25	104.5	24.5	72	432	7.5
84608	T27	110.1	26.1	72	432	9.8
84609	T30	120.0	30.0	72	432	14.1
84610	T40	131.0	33.0	72	288	13.9
84611	T45	141.0	37.0	36	144	9.8
84612	T50	161.0	41.0	36	144	13.8

## Extra Long Ball Point Torx® Key



- Chrome-plated mist surface for elegant and rust protection
- Made of S2 alloy steel and subject to quenching treatment
- Ball point head for tilting operation

No.	Spec.	L(mm)	A(mm)			
84704	T10	93	20	72	864	7.2
84705	T15	103.5	21.5	72	864	9.5
84706	T20	116	23	72	432	6.5
84707	T25	130.5	24.5	72	432	9.4
84708	T27	145.1	30.1	72	432	12.8
84709	T30	166	34	72	432	19.7
84710	T40	187	39	72	288	19.2
84711	T45	208	44	36	144	14.4
84712	T50	233	49	36	144	20

## Extra Long Hex Key

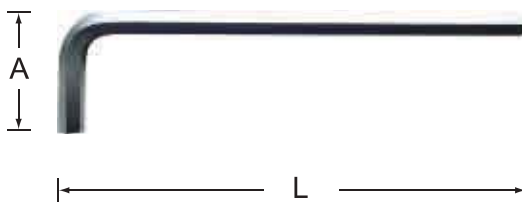


- Chrome-plated mist surface
- Material: Cr-V (chrome-vanadium steel)

No.	Spec. (mm)	L(mm)	A(mm)			
80304A	1.5	91	14	72	864	2.8
80305A	2	100	17	72	864	4.1
80306A	2.5	113	20	72	432	3.3
80307A	3	127	21	36	432	5.2
80308A	4	143	28	36	432	9.4
80310A	5	164	32	36	144	5.6
80312A	6	185	35	36	144	8.5
80313A	7	195	39	36	144	11.2
80314A	8	208	43	18	72	7.9
80316A	10	231	47	18	72	13.4

▲ No warranty as consumables

## Long Arm Hex Key



- Chrome-plated mist surface
- Material: Cr-V (chrome-vanadium steel)

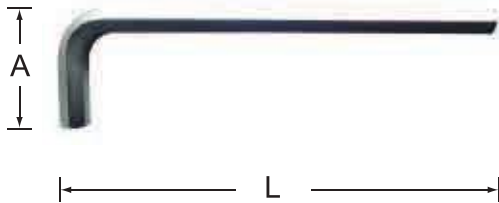
No.	Spec. (mm)	L(mm)	A(mm)			
81304A	1.5	78	15	72	864	3
81305A	2	83	17	72	864	4.1
81306A	2.5	89	20	72	432	4.6
81307A	3	101	21	36	432	4.9
81308A	4	107	27	36	432	7.6
81310A	5	120	31	36	144	4.6
81312A	6	143	36	36	144	6.5
81313A	7	154	39	36	144	10.4
81314A	8	164	42	18	72	6.8
81316A	10	175	49	18	72	10.7

▲ No warranty as consumables





## Hex Key



- Chrome-plated mist surface
- Material: Cr-V (chrome-vanadium steel)

No.	Spec. (mm)	L(mm)	A(mm)			
82304A	1.5	45	15	72	864	2.3
82305A	2	50	17	72	864	2.5
82306A	2.5	55	20	72	432	2.1
82307A	3	64	22	36	432	3.1
82303A	3.5	68	25	36	432	4.6
82308A	4	71	27	36	432	5.6
82310A	5	82	31	36	144	3.1
82312A	6	92	36	36	144	5.2
82313A	7	98	40	36	144	7.5
82314A	8	103	43	18	72	4.7
82316A	10	106	50	18	72	7.7

▲ No warranty as consumables

## Long Arm Ball Point Hex Key



- Chrome-plated mist surface
- Material: Cr-V (chrome-vanadium steel)

No.	Spec. (mm)	L(mm)	A(mm)			
81104A	1.5	78	15	72	864	3.3
81105A	2	83	17	72	864	4.1
81106A	2.5	89	20	72	432	3.3
81107A	3	101	21	36	432	4.9
81108A	4	107	27	36	432	7.2
81110A	5	120	31	36	144	4.6
81111A	5.5	130	32	36	144	5.4
81112A	6	143	36	36	144	7
81113A	7	154	39	36	144	9.6
81114A	8	164	42	18	72	6.6
81116A	10	175	49	18	72	11

▲ No warranty as consumables

## Extra Long Ball Point Hex Key

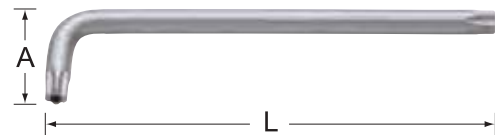


- Chrome-plated mist surface
- Material: Cr-V (chrome-vanadium steel)

No.	Spec. (mm)	L(mm)	A(mm)			
80104A	1.5	91	14	72	864	3.1
80105A	2	100	17	72	864	4.5
80106A	2.5	113	20	72	432	4.6
80107A	3	127	21	36	432	5.5
80108A	4	143	28	36	432	9.4
80110A	5	164	32	36	144	5.2
80112A	6	185	35	36	144	7.9
80113A	7	195	39	36	144	11.8
80114A	8	208	43	18	72	7.9
80116A	10	231	47	18	72	13.6

▲ No warranty as consumables

## Long Arm Tamper-Proof Torx® Key

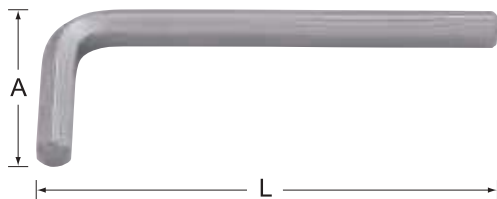


- Made of S2 alloy steel with tamper

No.	Spec.	L(mm)	A(mm)			
84501	TT6	72	18.5	72	864	4.9
84502	TT7	76.5	18.5	72	864	5.2
84503	TT8	80.5	18.5	72	864	5.4
84504	TT9	85	19	72	864	6.8
84505	TT10	89	20	72	864	7.2
84506	TT15	93.5	21.5	72	864	9.1
84507	TT20	99	23	72	432	7.1
84508	TT25	104.5	24.5	72	432	8.9
84509	TT27	110	27	72	432	10.5
84510	TT30	119.5	29.5	72	432	13.2
84511	TT40	131	33	72	288	14.2
84512	TT45	141	37	36	144	10.2
84513	TT50	161	41	36	144	14.4
84514	TT55	182.5	46.5	36	72	13
84515	TT60	203.5	51.5	18	36	10



## Hex Key



- Made of S2 alloy steel with tamper

No.	Spec. (mm)	L(mm)	A(mm)			
82304	1.5	46	15	72	864	1.2
82305	2	51.5	17.5	72	864	1.9
82306	2.5	58	20	72	432	1.6
82307	3	65.5	22.5	36	432	2.8
82303	3.5	69	25	36	432	3.7
82308	4	73.5	28.5	36	432	5
82310	5	84.5	32.5	36	144	2.9
82312	6	95.5	37.5	36	144	4.6
82313	7	101.5	40.5	36	144	6.5
82314	8	107.5	43.5	18	72	4.7
82316	10	121.5	49.5	18	72	7.8

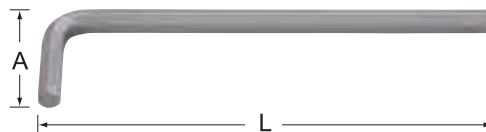
## Ball Point Hex Key



- Made of S2 alloy steel with tamper

No.	Spec. (mm)	L(mm)	A(mm)			
82104	1.5	46	15	72	864	1.2
82105	2	51.5	17.5	72	864	1.9
82106	2.5	58	20	72	432	1.9
82107	3	65.5	22.5	72	432	2.4
82108	3.5	69	25	72	432	3.4
82109	4	73.5	28.5	72	432	4.7
82111	5	84.5	32.5	36	144	2.8
82113	6	95.5	37.5	36	144	4.6
82115	7	101.5	40.5	36	144	6.4
82117	8	107.5	43.5	18	72	4.7
82119	10	121.5	49.5	18	72	8

## Long Arm Hex Key



- New mirror polished surface, preventing oil penetration, and being elegant and durable
- New SVCM+ material for higher torque, with chamfered end for easy nut inserting

No.	Spec. (mm)	L(mm)	A(mm)			
81304	1.5	78.5	15	72	864	1.7
81305	2	84	17.5	72	864	2.9
81306	2.5	91	20	72	432	2.2
81307	3	101.5	22	36	432	3.9
81308	4	108	28	36	432	6.8
81310	5	121	32	36	144	3.8
81311	5.5	132	34.5	36	144	4.9
81312	6	144	37	36	144	6.4
81313	7	155	40	36	144	9.1
81314	8	166	43	18	72	6.6
81315	9	174	46	18	72	9.4
81316	10	177	49	18	72	10.6
81318	12	221	56	12	48	12.7
81320	14	247	68.5	12	24	9.8
81323	17	263	78.5	12	24	15.4

## Long Arm Ball Point Hex Key

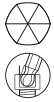


- New mirror polished surface, preventing oil penetration, and being elegant and durable
- New SVCM+ material for higher torque, with chamfered end for easy nut inserting

No.	Spec. (mm)	L(mm)	A(mm)			
81104	1.5	78.5	15	72	864	1.7
81105	2	84	17.5	72	864	2.8
81106	2.5	91	20	72	432	2.2
81107	3	101.5	22	36	432	3.9
81108	4	108	28	36	432	6.7
81110	5	121	32	36	144	3.8
81111	5.5	132	34.5	36	144	5.1
81112	6	144	37	36	144	6.4
81113	7	155	40	36	144	9
81114	8	166	43	18	72	6.6
81115	9	174	46	18	72	9.4
81116	10	177	49	18	72	10.6
81118	12	221	56	12	48	12.6
81120	14	247	68.5	12	24	9.7
81123	17	263	78.5	12	24	15.1



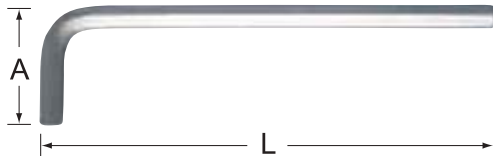
## Extra Long Ball Point Hex Key



- New SVCM+ material for higher torque, with chamfered end for easy nut inserting

No.	Spec. (mm)	L(mm)	A(mm)			
80104	1.5	90.5	14.5	72	864	1.9
80105	2	101	17	72	864	3.1
80106	2.5	113.5	19.5	72	432	2.6
80107	3	128	22	36	432	4.7
80108	4	143	28	36	432	8.3
80110	5	164	32	36	144	4.8
80112	6	185	37	36	144	7.7
80113	7	196	40	36	144	11
80114	8	207	43	18	72	7.8
80116	10	233	49	18	72	13.2

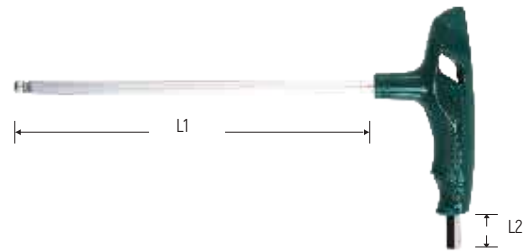
## Extra Long Hex Key



- New SVCM+ material for higher torque, with chamfered end for easy nut inserting

No.	Spec. (mm)	L(mm)	A(mm)			
80304	1.5	90.5	14.5	72	864	1.9
80305	2	101	17	72	864	3
80306	2.5	113.5	19.5	72	432	2.6
80307	3	128	22	36	432	4.6
80308	4	143	28	36	432	8.4
80310	5	164	32	36	144	4.9
80312	6	185	37	36	144	7.8
80313	7	196	40	36	144	11
80314	8	207	43	18	72	7.9
80316	10	233	49	18	72	13.4

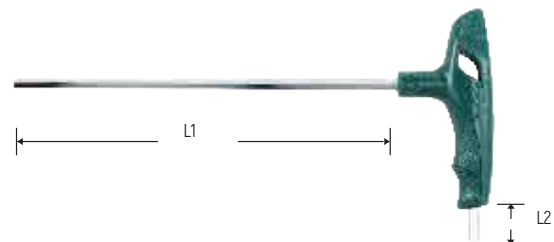
## T-Handle Ball Point Hex Key



- New SVCM+ material for higher torque, with chamfered end for easy nut inserting
- New ergonomic handle with two holding ways available

No.	Spec. (mm)	L1(mm)	L2(mm)			
83105	2	100	13	12	144	5.2
83106	2.5	100	13	12	144	5.6
83107	3	100	13	12	144	6.1
83108	4	150	13	12	144	8.4
83110	5	150	17	12	144	10.5
83112	6	150	17	12	72	10.5
83113	7	200	17	12	72	9.4
83114	8	200	17	12	72	15.6
83116	10	200	22	12	72	16.1

## T-Handle Hex Key

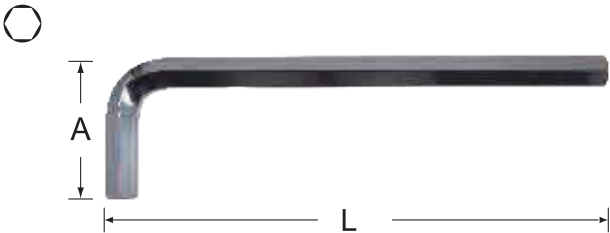


- New SVCM+ material for higher torque, with chamfered end for easy nut inserting
- New ergonomic handle with two holding ways available




No.	Spec. (mm)	L1(mm)	L2(mm)			
83305	2	100	13	12	144	5.2
83306	2.5	100	13	12	144	5.6
83307	3	100	13	12	144	6.1
83308	4	150	13	12	144	8.9
83310	5	150	17	12	144	10.5
83312	6	150	17	12	72	10.5
83313	7	200	17	12	72	9.3
83314	8	200	17	12	72	15.9
83316	10	200	22	12	72	16.5



## Black Plated Hex Key






- Made of Cr-V and subject to quenching, with chamfered end for easy nut inserting
- 12mm-27mm large hexagon wrench
- Polished and blackened surface

No.	Spec. (mm)	L(mm)	A(mm)			
84318	12	221	56	12	48	12.7
84320	14	247	68.5	12	24	9.8
84321	16	256	74.5	12	24	13.2
84322	18	279	82.5	12	24	18.2
84323	17	263	78.5	12	24	15.3
84324	19	295	87.5	-	10	18.3
84325	22	352	100	10	20	17.9
84328	24	394	112	-	12	16.5
84329	27	437	124.5	-	6	15.6
84332	30	480	135	-	4	13.9
84334	32	502	152	-	4	17
84338	36	526	171	-	2	11.4

## Black Plated Hex Key





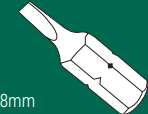

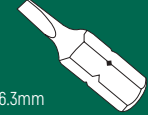


- 7/16"-3/4" Large SAE Hex Keys
- Made of Cr-V and subject to quenching, with chamfered end for easy nut inserting
- Polished and black oxide surface

No.	Spec.	L(mm)	A(mm)			
84413	7/16"	199.1	47.1	12	48	9.9
84414	1/2"	219.7	52.2	12	48	13.8
84415	9/16"	240.3	56.8	6	24	9.7
84416	5/8"	260.9	62.4	6	24	12.9
84417	3/4"	301	71.5	6	24	20.7

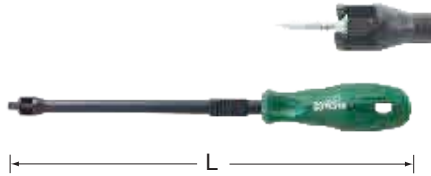


# Screwdriver & Bits

	Screwdriver Set	106-109
	Ratcheting Screwdriver	108-110
G	G-series Screwdriver	111
T	T-series Screwdriver	112-113
A	A-series Screwdriver	113-115
	Impact Screwdriver	115
	Bit Set	115-117
 8mm	8mm Dr. Bit	122-124
	Bit Accessories	124
 6.3mm	6.3mm Dr. Bit	118-127

# Screwdriver & Bits

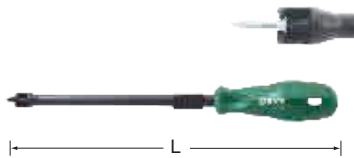
## Screwholding Screwdriver, Slotted



- Screw clamping function for tightening non-magnetic screws with one hand in a narrow space
- Shank made from imported SVCM+ material and subjected to heat treatment for higher torque
- High-strength nylon socket for longer service life
- Ergonomic push-pull knob for easy operation
- Handle made from engineering acetic acid material with stronger impact resistance and better oil resistance

No.	Spec. (mm)	L(mm)			
62250	4×125	236	12	120	13.5
62251	5×150	261	12	120	15.6
62252	6×175	286	12	120	18.5

## Screwholding Screwdriver, Phillips



- Screw clamping function for tightening non-magnetic screws with one hand in a narrow space
- Shank made from imported SVCM+ material and subjected to heat treatment for higher torque
- High-strength nylon socket for longer service life
- Ergonomic push-pull knob for easy operation
- Handle made from engineering acetic acid material with stronger impact resistance and better oil resistance

No.	Spec. (mm)	L(mm)			
62350	PH0×125	236	12	120	13.4
62351	PH1×125	236	12	120	15.7
62352	PH2×175	286	12	120	18.3

## 09304E 10Pc. Screwdriver Set



No.	Spec.			
09304E	Phillips Screwdriver #1x100mm, #2x38mm, #2x100mm, #2x150mm, #3x150mm, Slotted Screwdriver 5x75mm, 6x38mm, 6x100mm, 6x150mm, 8x150mm	0	4	9

## 09305 8Pc. Screwdriver Set, Torx® Tips



No.	Spec.			
09305	Torx Screwdriver T8*75mm, T10*100mm, T15*100mm, T20*100mm, T25*100mm, T27*100mm, T30*100mm, T40*100mm	-	5	6.2

## 09306 8Pc. Screwdriver Set, Slotted & Phillips Tips



No.	Spec.			
09306	Phillips Screwdriver (#1*75mm, #2*38mm, #2*100mm, #2*150mm) Slotted Screwdriver (6*38mm, 5*75mm, 6*100mm, 6*150mm)	-	5	6.1

## 09309 6Pc. Screwdriver Set, Slotted & Phillips Tips



No.	Spec.			
09309	Slotted Screwdriver with Rubber Handle (5*75mm, 5*100mm, 6*150mm) Phillips Screwdriver Set with Rubber Handle (#1*75mm, #2*100mm, #2*150mm)	-	6	7.6

**09334 5Pc. Screwdriver Set, Slotted & Phillips Tips**

- Through automatic plastic injection, the tri-color handle offers high accuracy and comfortable grip feeling
- The ergonomic designed triangular handle offers higher torque outputs and better anti-impact features
- Made of Cr-V-Mo material, the blade offers high hardness and tenacity with more durability and longer lifecycle
- Manganese phosphate plated blade tip offers accurate dimensions and good antirust feature

**Note:**

- Please check before using to avoid split handle and ensure the blade without deformed or broken
- Please clean the oil on blade tip to avoid slip when using
- Please select proper specification according to the screw size to avoid breaking the screwdriver or screw
- Can not be used as pry bar, chisel nor impact driver

No.	Product Name	No.	Product Name
63701	G Series Screwdriver, Slotted 3x80mm	63611	G Series Screwdriver, Phillips #1x80mm
63717	G Series Screwdriver, Slotted 5x100mm	63603	G Series Screwdriver, Phillips #2x100mm
63704	G Series Screwdriver, Slotted 6x150mm		

No.			
09334	-	4	2.1

▲ Please comply with the warranty terms for each open stock product in the set

**Screwdriver Spec.**

Phillips:



#0 × 75mm

→ Shank length 75mm

→ The groove number of the Phillips screwdriver corresponding to the bit is PH0

Slotted:



5.5 × 125mm

→ Shank length 125mm

→ Screwdriver bit width 5.5mm

Pozidriv:



PZ0 × 75mm

→ Shank length 75mm

→ The groove number of the Pozidriv screwdriver corresponding to the bit is PZ0

Torx®:



T-8 × 75mm

→ Shank length 75mm

→ The groove number of the Torx® screwdriver corresponding to the bit is T8

**Tool Knowledge Station****SATA Ratcheting Screwdriver**

Rear cover of SATA 6001 standard ratcheting screwdriver handle capable of storing up to 12 6.3MM replacement bits



Ergonomic T-shaped ratcheting screwdriver handle for comfort



Ultra-short ratcheting screwdriver for use in narrow spaces



Efficiency improved by 40% with SATA ratcheting screwdriver compared with traditional SATA hand screwdriver



Various accessories and extension rods for various conditions and angles





## 09335 6Pc. Screwdriver Set, Slotted & Phillips Tips



- Through automatic plastic injection, the tri-color handle offers high accuracy and comfortable grip feeling
- The ergonomic designed triangular handle offers higher torque outputs and better anti-impact features
- Made of Cr-V-Mo material, the blade offers high hardness and tenacity with more durability and longer lifecycle
- Manganese phosphate plated blade tip offers accurate dimensions and good antirust feature

### Note:

- Please check before using to avoid split handle and ensure the blade without deformed or broken
- Please clean the oil on blade tip to avoid slip when using
- Please select proper specification according to the screw size to avoid breaking the screwdriver or screw
- Can not be used as pry bar, chisel nor impact driver

No.	Product Name	No.	Product Name
63716	G Series Screwdriver, Slotted 5x80mm	63611	G Series Screwdriver, Phillips #1x80mm
63703	G Series Screwdriver, Slotted 6x100mm	63603	G Series Screwdriver, Phillips #2x100mm
63706	G Series Screwdriver, Slotted 8x150mm	63606	G Series Screwdriver, Phillips #3x150mm

No.			
09335	-	4	2.9

▲ Please comply with the warranty terms for each open stock product in the set

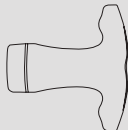
### 46001 Common Ratcheting Screwdriver Handle



### 46002 Ultra-Short Ratcheting Screwdriver Handle



### 46003 T-shaped Ratcheting Screwdriver Handle



### 6.3mm Dr. Bit Magnetic Extension Rod



46004~46006

### 6.3mm Socket Extension Rod

46007~46009

### 46012 6.3mm Flex Socket Extension Rod

## 09341 24Pc. T-handle Ratcheting Screwdriver Set

T-shaped handle for easy rotation and comfort



- The bi-color handle is made of composite material composed of engineering plastic PP + high-grade elastomer TPR, soft to the touch. T-Handle design for easy rotation and comfortable grip
- Used with 20 kinds of high hardness S2 material bits to provide multiple functions
- Used with a variety of extension bars in more combinations to adapt to various conditions
- Used with 150mm flexible extension bar for operation at different angles
- Made of nylon fabric the tool bag is waterproof and durable, as well is easy to carry

No.	Product Name	No.	Product Name
46003	T-shaped Ratcheting Screwdriver Handle	59281	20pc 6.3mm Bit Set
46008	6.3mm Socket Extension 6"	11914	6.3mm Dr. Bit
46012	6.3mm Flex Socket Extension 6"		

No.			
09341	-	8	5

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set

## 09342 25Pc. Stubby Ratcheting Screwdriver Set

Short handle for narrow operation space



- The bi-color handle is made of composite material composed of engineering plastic PP + high-grade elastomer TPR, soft to the touch. T-Handle design for easy rotation and comfortable grip
- Used with 20 kinds of high hardness S2 material bits to provide multiple functions
- Used with a variety of extension bars in more combinations to adapt to various conditions
- Used with 150mm flexible extension bar for operation at different angles
- Made of nylon fabric the tool bag is waterproof and durable, as well is easy to carry

No.	Product Name	No.	Product Name
46002	Short Ratcheting Screwdriver Handle	46012	6.3mm Flex Socket Extension 6"
46004	6.3mm Dr. Bit Magnetic Extension Rod 3.5"	59281	20pc 6.3mm Bit Set
46007	6.3mm Socket Extension 3.5"	11914	6.3mm Dr. Bit

No.			
09342	-	8	4.9

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set





## 09343 24Pc. Ratcheting Screwdriver Set

Extended rod with more combination for narrow operation space



- The bi-color handle is made of composite material composed of engineering plastic PP + high-grade elastomer TPR, soft to the touch. T-Handle design for easy rotation and comfortable grip
- Used with 20 kinds of high hardness S2 material bits to provide multiple functions
- Used with a variety of extension bars in more combinations to adapt to various conditions
- Used with 150mm flexible extension bar for operation at different angles
- Made of nylon fabric the tool bag is waterproof and durable, as well is easy to carry

No.	Product Name	No.	Product Name
46001	Common Ratcheting Screwdriver Handle	46012	6.3mm Flex Socket Extension 6"
46007	6.3mm Socket Extension 3.5"	59281	20pc 6.3mm Bit Set
46008	6.3mm Socket Extension 6"	11914	6.3mm Dr. Bit
46009	6.3mm Socket Extension 10"		

No.			
09343	-	6	5.6

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set

## 09346 16Pc. Interchangeable Screwdriver Set

- 5.0, 6.0 mm
- #0, #1, #2
- T10, T15, T20, T25
- Pointed Cone
- N Hook
- L Hook
- C Hook
- Nail Puller
- Rotational Shear Apparatus



- The bi-color handle is made of composite material composed of engineering plastic PP + high-grade elastomer TPR, soft to the touch. T-Handle design for easy rotation and comfortable grip
- Used with 20 kinds of high hardness S2 material bits to provide multiple functions
- Used with a variety of extension bars in more combinations to adapt to various conditions
- Used with 152mm flexible extension bar for operation at different angles
- Made of nylon fabric the tool bag is waterproof and durable, as well is easy to carry

No.	Spec.			
09346	Slotted: 5.0mm, 6.0mm Phillips: #0, #1, #2 Torx: T10, T15, T20, T26 Pointed Cone, N Hook, L Hook, C Hook, Nail Puller, Rotational Shear Apparatus	6	24	13.1

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set

## 09345 10Pc. Interchangeable Screwdriver Set

- 3.0, 5.0, 6.0 mm
- #0, #1, #2
- Nail Puller
- Pointed Cone
- Rotational Shear Apparatus

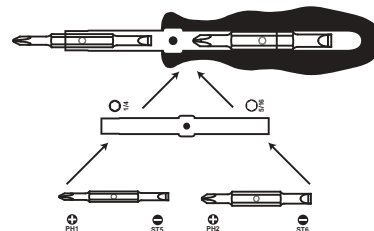


- The bi-color handle is made of composite material composed of engineering plastic PP + high-grade elastomer TPR, soft to the touch. T-Handle design for easy rotation and comfortable grip
- Used with 20 kinds of high hardness S2 material bits to provide multiple functions
- Used with a variety of extension bars in more combinations to adapt to various conditions
- Used with 151mm flexible extension bar for operation at different angles
- Made of nylon fabric the tool bag is waterproof and durable, as well is easy to carry

No.	Spec.			
09345	Slotted: 3.0mm, 5.0mm, 6.0mm Phillips: #0, #1, #3 Nail Puller, Pointed Cone, Rotational Shear Apparatus	6	36	12.8

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set

## 09347 6-in-1 Interchangeable Screwdriver Set



No.	Spec.			
09347	1pc Nut Driver Available for 5/16" and 1/4" Bits 2pc 75mm Two-Way Bits: 5/16"-ST6*PH2, 1/4"-ST5*PH1	6	48	10.5

▲ Bits are consumable, and not covered by SATA lifetime warranty.

**09348 6Pc. Ratcheting Stubby Screwdriver Set**

- 4.0, 5.0, 6.0 mm
- #1, #2, #3



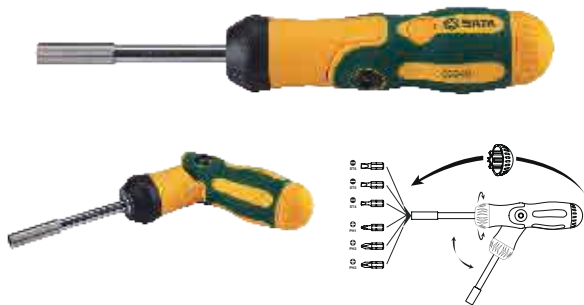
- 20-teeth high-torque ratchet for high torque
- 6 different bits available for different requirements

No.	Spec.			
09348	Slotted: 4mm, 5mm, 6mm Phillips: #1, #2, #3	6	48	7.5

▲ Bits are consumable, and not covered by SATA lifetime warranty.

**09349 6Pc. Folding Ratcheting Screwdriver Set**

- 4.0, 5.0, 6.0 mm
- #1, #2, #3



- 20-teeth high-torque ratchet for high torque
- Handle foldable for nearly 90 degrees, effectively increasing the torque output
- Magnetic extension made of stainless steel, facilitating bit replacement
- 6 different bits available for different requirements
- 1pc Foldable Ratchet Handle

No.	Spec.			
09349	Slotted: 4mm, 5mm, 6mm Phillips: #1, #2, #3	6	48	15

▲ Bits are consumable, and not covered by SATA lifetime warranty.

**64201 Magnetizer/Demagnetizer**

Magnetizing: Place the end of the tool to be magnetized into the (+) slot



Demagnetizing: Place the end of the tool to be demagnetized into the (-) slot



- For magnetizing and demagnetizing screwdriver blade and similar tools made of steel
- Box made of high quality moulded plastic, impact resistant, cadmium free

No.			
64201	10	60	144

▲ No warranty as consumables

**61004 1/4" Dr. Ratcheting Bit Driver**

- Easy to use and carry
- power magnetism

No.	Spec.			
61004	1/4" Dr.	6	36	9

▲ No warranty as consumables



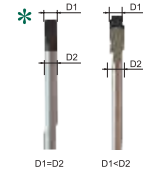
## G Series Screwdriver, Phillips



- Handle coated with engineering plastics PP+ advanced elastomer TPR tricolor composite, feeling comfortable and soft
- Ergonomic triangular handle for more comfortable gripping
- Injection-molded trademark for elegant
- Handle molded at one time for safer use
- Front of the handle designed with section to prevent the tool from rolling
- 3-layer injection structure for better impact resistance
- Shank made of high-performance chrome-vanadium-molybdenum alloy steel, with good hardness and toughness, higher durability and longer service life
- Function end subjected to special phosphating treatment for high accuracy

No.	Spec. (mm)	L(mm)	Rod Diameter (mm)			
63601	#0×60	165	3	10	240	18.6
63608	#0×80	185	3	10	240	18.8
63609	#0×100	205	3	10	240	19.3
63610	#0×150	255	3	10	100	11.6
63611	#1×80	185	4.5	10	100	6.1
63602	#1×100	205	4.5	20	100	17.1
63612	#1×125	230	4.5	10	240	20.8
63613	#1×150	255	4.5	10	100	19.4
63614	#1×200	305	4.5	10	100	17.6
63615	#1×250	355	4.5	5	60	13.6
63616	#1×300	405	4.5	5	60	14.2
63603	#2×100	215	6	20	100	10.6
63604	#2×150	265	6	10	100	20.8
63605	#2×200	315	6	10	80	17.9
63617	#2×250	365	6	5	60	16
63618	#2×300	415	6	5	60	17.8
63606	#3×150	275	8	10	80	14.5
63607	#3×200	325	8	10	80	25.3
63619	#3×250	375	8	5	60	25.5
63620	#3×300	425	8	5	60	15

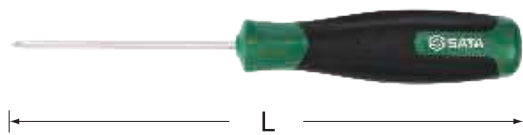
## G Series Screwdriver, Slotted



- Specifications with \*: Width of the bit and the width of the bit shoulder consistent with the diameter of the shank, facilitating operation the electromechanical box or similar narrow aperture
- Handle coated with engineering plastics PP+ advanced elastomer TPR tricolor composite, feeling comfortable and soft
- Ergonomic triangular handle for more comfortable gripping
- Injection-molded trademark for elegant
- Handle molded at one time for safer use
- Front of the handle designed with section to avoid tool rolling
- 3-layer injection structure for better impact resistance
- Shank made of high-performance chrome-vanadium-molybdenum alloy steel, with good hardness and toughness, higher durability and longer service life
- Function end subjected to special phosphating treatment for high accuracy

No.	Spec. (mm)	L(mm)	T(mm)	Rod Diameter (mm)			
63708	3.0×60 *	165	0.5	3	10	240	18.4
63701	3.0×80 *	185	0.5	3	10	240	19
63709	3.0×100 *	205	0.5	3	10	240	19
63710	3.0×150 *	255	0.5	3	10	240	10.8
63711	4.5×80 *	185	0.8	4.5	10	100	17.8
63712	4.5×125 *	230	0.8	4.5	10	100	19.9
63713	4.5×200 *	305	0.8	4.5	10	80	14.2
63714	4.5×250 *	355	0.8	4.5	5	60	19.5
63715	4.5×300 *	405	0.8	4.5	5	60	6.6
63716	5.0×80 *	195	0.8	5	10	140	13.8
63717	5.0×100 *	215	0.8	5	10	100	16.1
63718	5.0×150 *	265	0.8	5	10	100	11.1
63702	5.5×125 *	240	1	5.5	10	100	19.7
63719	5.5×200 *	315	1	5.5	10	80	16.1
63720	5.5×250 *	365	1	5.5	5	60	15.7
63721	5.5×300 *	415	1	5.5	5	60	16.9
63703	6.0×100	215	1	5.5	10	100	10.8
63704	6.0×150	265	1	5.5	10	100	19.2
63705	6.0×200	315	1	5.5	10	80	16.4
63722	7.0×250 *	365	1.2	7	5	60	22
63723	7.0×300 *	415	1.2	7	5	60	24
63706	8.0×150	275	1.2	7	10	80	13
63707	8.0×200	325	1.2	7	10	80	22.4

## T Series Screwdriver, Phillips



No.	Spec. (mm)	L(mm)	Rod Diameter (mm)			
63502	#0×75	171.5	3	12	48	1.8
63503	#0×100	196.5	3	6	36	1.5
63504	#0×150	246.5	3	6	24	1.2
63505	#0×200	296.5	3	12	24	1.2
63507	#1×75	181.5	5	12	48	3.5
63508	#1×100	206.5	5	12	48	3.7
63509	#1×150	256.5	5	6	36	3.3
63510	#1×200	306.5	5	12	24	2.3
63511	#2×38	101	6	6	24	1.5
63512	#2×100	214	6	12	48	5
63513	#2×150	264	6	12	48	5.6
63514	#2×200	314	6	12	48	6.2
63515	#2×250	364	6	6	24	3.7
63516	#3×150	271	8	12	24	4.2
63517	#3×200	321	8	12	24	4.6

## T Series Screwdriver, Slotted



No.	Spec. (mm)	L(mm)	Rod Diameter (mm)			
63402	3×75	171.5	3	12	48	1.8
63403	3×100	196.5	3	12	48	1.9
63404	3×150	246.5	3	6	24	1.2
63405	3×200	296.5	3	12	24	1.1
63407	5×75	181.5	5	12	48	3.5
63408	5×100	206.5	5	12	48	3.7
63409	5×150	256.5	5	6	36	3.3
63410	5×200	306.5	5	12	24	2.3
63411	6×38	101	6	6	24	1.6
63412	6×100	214	6	12	48	5
63413	6×150	264	6	12	48	5.7
63414	6×200	314	6	6	36	4.9
63415	6×250	364	6	6	24	3.7
63416	8×150	271	8	12	24	4.2
63417	8×200	321	8	12	24	4.3

## T-series Screwdriver

Shank made of S2 material, with mercury mist electroplating on the surface, providing strong torsion and good rut-proof effect

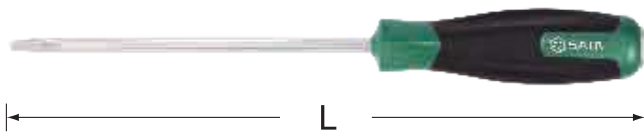
Handle made of PP+TPR for comfort

Trademark subjected to hot stamping for eye-catching

Non-symmetric edges and corners for increased anti-skid performance as well as torque output during operation and in reverse rotation



## T Series Go-Through Screwdriver, Slotted



- Go-through design for "tapping" the head of the screw
- Hex shank for better strength

No.	Spec. (mm)	L(mm)	Rod Diameter (mm)			
61603	6×100	213.5	6	6	48	74
61605	6×150	263.5	6	6	48	8
61606	8×150	271	8	6	24	5.9
61607	8×200	321	8	6	48	12.9
61608	8×250	371	8	6	48	14.1

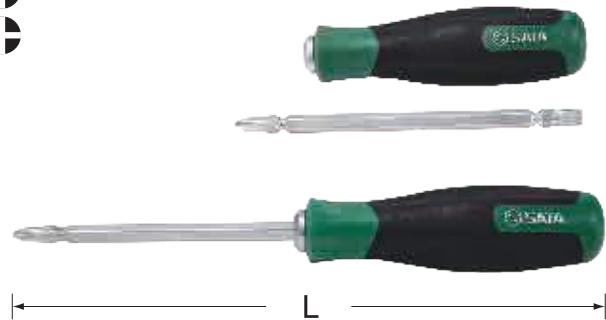
## T Series Go-Through Screwdriver, Phillips



- Go-through design for "tapping" the head of the screw
- Hex shank for better strength

No.	Spec. (mm)	L(mm)	Rod Diameter (mm)			
61703	#2×100	213.5	6	6	48	74
61705	#2×150	263.5	6	6	48	8
61706	#3×150	271	8	6	24	6
61707	#3×200	321	8	6	24	6.7
61708	#3×250	371	8	6	24	7.2

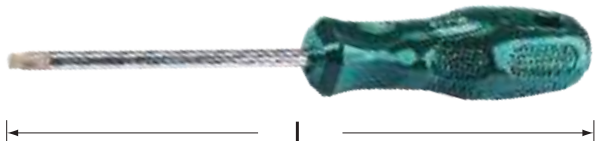
## T Series Reversible Screwdriver



No.	Spec. (mm)	L(mm)	Rod Diameter (mm)			
66202	#2&6×38	105.5	6.35	6	36	2.5
66203	#1&5×100	214.5	6.35	6	24	2.9
66204	#2&6×100	214.5	6.35	6	24	2.9
66205	#1&5×150	264.5	6.35	6	24	3.2
66206	#2&6×150	264.5	6.35	6	24	3.3

▲ No warranty as consumables

## T Series Screwdriver, Torx®



No.	Spec. (mm)	L(mm)	Rod Diameter (mm)			
61108	T8×75	165	3	12	600	19.6
61101	T10×100	190	5	12	300	20.4
61102	T15×100	190	5	12	300	20.4
61103	T20×100	190	5	12	300	20.4
61104	T25×100	203	6	12	216	21.2
61105	T27×100	203	6	12	216	21.3
61106	T30×100	203	6	12	216	21.3
61107	T40×100	203	8	6	150	21.7



## A Series Screwdriver, Slotted



• Shank made of quality Cr-V with magnetic bit quenched

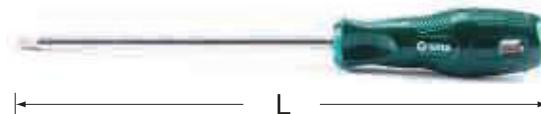
No.	Spec. (mm)	L(mm)	Rod Diameter (mm)			
62202	3.2×75	150	3	12	144	4.8
62203	3.2×100	175	3	12	600	20.5
62204	3.2×150	225	3	12	576	21.7
62205	3.2×200	275	3	12	480	19.9
62207	5×75	165	5	12	300	18.9
62208	5×100	190	5	12	300	20.3
62209	5×150	240	5	12	240	18.5
62210	5×200	290	5	12	240	20.5
62211	5×250	340	5	12	288	19.7
62212	5×300	390	5	12	144	14.2
62213	6×38	98	6	12	144	16
62214	6×100	203	6	12	144	17.8
62215	6×150	253	6	12	144	19.6
62216	6×200	303	6	6	120	19.9
62217	6×250	353	6	6	90	16.9
62218	6×300	403	6	12	120	11.4
62219	8×150	265	8	12	120	12.6
62220	8×200	315	8	12	120	18.1
62221	8×250	365	8	6	90	19.5
62222	8×300	415	8	6	90	21.4

## Nutdriver



No.	Spec. (mm)	L(mm)	Rod Diameter (mm)			
61501	5×75	178	5	12	144	16.5
61502	6×75	178	6	12	144	17.8
61503	7×75	178	6	12	144	17.4
61504	8×75	178	6	12	144	17.7
61505	9×75	178	6	12	144	17.2
61506	10×75	190	8	6	144	21.5
61507	11×75	190	8	6	144	21.4
61508	12×75	190	8	6	144	20.7

## A Series Screwdriver, Phillips



• Shank made of quality Cr-V with magnetic bit quenched

No.	Spec. (mm)	L(mm)	Rod Diameter (mm)			
62302	#0×75	150	3	12	600	19.5
62303	#0×100	175	3	12	600	20.8
62304	#0×150	225	3	12	576	21.8
62305	#0×200	275	3	12	480	20.1
62307	#1×75	165	5	12	300	19.1
62308	#1×100	190	5	12	300	20.5
62309	#1×150	240	5	12	240	18.6
62310	#1×200	290	5	12	240	20.7
62311	#1×250	340	5	12	288	19.7
62312	#1×300	390	5	12	144	14.2
62313	#2×38	98	6	12	144	16
62314	#2×100	203	6	12	144	17.8
62315	#2×150	253	6	12	144	19.7
62316	#2×200	303	6	6	120	20
62317	#2×250	353	6	6	90	17.2
62318	#2×300	403	6	12	120	11.6
62319	#3×150	265	8	12	120	12.6
62320	#3×200	315	8	12	120	18.1
62321	#3×250	365	8	6	90	19.9
62322	#3×300	415	8	6	90	21.8

## 61613 Go-Through Screwdriver, Slotted 6x100mm



No.	Spec. (mm)			
61613	Slotted 6x100	12	120	17

**61713 Go-Through Screwdriver, Phillips #2x100mm**

No.	Spec. (mm)			
61713	Phillips #2x100	12	120	17

**09603 8Pc. Protective Grip Impact Driver Set**

- Protective Grip Impact Driver Set
- 5/16" Dr. Bit Adapter
- 5/16" Shank 70L Bits Slotted 8mm
- 5/16" Shank 30L Bits Slotted 8mm
- 5/16" Shank 30L Bits Slotted 10mm
- 5/16" Shank 70L Bits Phillips #2
- 5/16" Shank 30L Bits Phillips #2
- 5/16" Shank 30L Bits Phillips #3

No.			
09603	-	12	12.7

▲ No warranty as consumables

**09602 8Pc. Impact Driver Set**

- Impact Screwdriver Set
- 5/16" Dr. Bit Adapter
- 5/16" Shank 70L Bits Slotted 8mm
- 5/16" Shank 30L Bits Slotted 8mm
- 5/16" Shank 30L Bits Slotted 10mm
- 5/16" Shank 70L Bits Phillips #2
- 5/16" Shank 30L Bits Phillips #2
- 5/16" Shank 30L Bits Phillips #3

No.			
09602	-	12	13.7

▲ No warranty as consumables

**09324 60Pc. 1/4" Dr. Socket & Bit Set**

- 14Pc. 1/4" Dr. 6pt. Socket (3,5,4,4,5,5,5,5,6,7,8,9,10,11,12,13,14mm)
- 4Pc. 1/4" Hex Shank Bits, 25mm Length, Slotted (3,4,5,5,6,5mm)
- 3Pc. 1/4" Hex Shank Bits, 50mm Length, Slotted (4,5,5,6,5mm)
- 4Pc. 1/4" Hex Shank Bits, 25mm Length, Phillips (#0, #1, #2, #3)
- 3Pc. 1/4" Hex Shank Bits, 50mm Length, Phillips (#1, #2, #3)
- 6Pc. 1/4" Hex Shank Bits, 25mm Length, Hexagon (2,2,5,3,4,5,6mm)
- 3Pc. 1/4" Hex Shank Bits, 50mm Length, Hexagon (4,5,6mm)
- 7Pc. 1/4" Hex Shank Bits, 25mm Length, Torx@ (T10, T15, T20, T25, T27, T30, T40)
- 3Pc. 1/4" Hex Shank Bits, 50mm Length, Torx@ (T15, T20, T25)
- 7Pc. 1/4" Hex Shank Bits, 25mm Length, Tamper-Proof Torxe (TT10, TT15, TT20, TT25, TT27, TT30, TT40)
- 1Pc. 1/4" Hex Shank Socket Holder, 25mm Length
- 1Pc. 1/4" Hex Shank Socket Holder, 50mm Length
- 1Pc. 1/4" Hex Shank Magnetic Bits Holder, 60mm Length
- 1Pc. Bits Adaptor 1/4"Fx1/4"Hexagon
- 1Pc. 1/4" Dr. Flexible Extension Bar 6"
- 1Pc. 1/4" Dr. Ratcheting Bit Driver

No.			
09324	-	6	12.6

▲ Please refer to the warranty terms of open stock item inside





**09326 80Pc. 1/4" Hex Shank Bits Set**



- 6Pc. 1/4" Hex Shank Bits, 25mm Length, Slotted [3,4,5,5,5,6,6,5mm]
- 6Pc. 1/4" Hex Shank Bits, 50mm Length, Slotted [3,4,5,5,5,6,6,5mm]
- 5Pc. 1/4" Hex Shank Bits, 25mm Length, Phillips [#0,#1,#2,#3]
- 4Pc. 1/4" Hex Shank Bits, 50mm Length, Phillips [#0,#1,#2,#3]
- 6Pc. 1/4" Hex Shank Bits, 25mm Length, Hexagon [2,2,5,3,4,5,6mm]
- 6Pc. 1/4" Hex Shank Bits, 50mm Length, Hexagon [2,2,5,3,4,5,6mm]
- 8Pc. 1/4" Hex Shank Bits, 25mm Length, Torx® [T8,T10,T15,T20,T25,T27,T30,T40]
- 8Pc. 1/4" Hex Shank Bits, 50mm Length, Torx® [T8,T10,T15,T20,T25,T27,T30,T40]
- 8Pc. 1/4" Hex Shank Bits, 25mm Length, Tamper-Proof Torx® [TT8,TT10,TT15,TT20,TT25,TT27,TT30,TT40]
- 8Pc. 1/4" Hex Shank Bits, 50mm Length, Tamper-Proof Torx® [TT8, TT10, TT15, TT20, TT25, TT27,TT30,TT40]
- 8Pc. 1/4" Hex Shank Double End Bits, 65mm Length  
[#1/#1,#2/#2,#3/#3,#1/4,5mm,#3/5,5mm#3/6,5mm,#3/#2/#3]
- 3Pc. 1/4" Hex Shank Double End Bits,110 m Length [#1/#1,#2/#2,#3/#3]
- 1Pc. 1/4" Hex Shank Socket Holder, 25mm Length
- 1Pc. 1/4" Hex Shank Socket Holder, 50mm Length
- 1Pc. 1/4" Hex Shank Magnetic Bits Holder, 60mm Length
- 1Pc. 1/4" Dr. Ratcheting Bit Driver

No.			
09326	-	6	8

⚠ Please refer to the warranty terms of open stock item inside

**09327 42Pc. 8mm Hex Shank Bits Set**



- 7Pc. 5/16" Hex Shank Bits, 30mm Length, Hexagon [4,5,6,7,8,10,12mm]
- 7Pc. 5/16" Hex Shank Bits, 70mm Length, Hexagon [4,5,6,7,8,10,12mm]
- 5Pc. 5/16" Hex Shank Bits, 30mm Length, Triple Square [M5,M6,M8,M10,M12]
- 5Pc. 5/16" Hex Shank Bits, 70mm Length, Triple Square [M5,M6,M8,M10,M12]
- 9Pc. 5/16" Hex Shank Bits, 70mm Length, Torx [T20,T25,T27,T30,T40,T45,T50,T55,T53]
- 7Pc. 5/16" Hex Shank Bits, 30mm Length, Tamper-Proof Torx® [T20,T25,T30,T40,T45,T50,T55]
- 1Pc. 1/2" Dr. Bit Adapter 5/16"
- 1Pc. 3/8" Dr. Bit Adapter 5/16"




No.			
09327	-	6	6.5

 Please refer to the warranty terms of open stock item inside

**09331 30Pc. 1/4" Hex Shank Bits Set, for Hand Tool**



- 6Pc. 1/4" Dr. 25mm Length, Hex Bits {3,4,5,6,7,8mm}
- 7Pc. 1/4" Dr. 25mm Length, Torx Bits{T8,T10,T15,T20,T25,T30,T40}
- 4Pc. 1/4" Dr. 25mm Length, Slotted Bits{4,5,5,6,6,5mm}
- 4Pc. 1/4" Dr. 25mm Length, Phillips Bits {#0,#1,#2,#3}
- 6Pc. 1/4" Dr. 25mm Length, Torx Tamper Bits{T10,T15,T20,T25,T30,T40}
- 3Pc. 1/4" Dr. 25mm Length, Pozi Bits{PZ#1,PZ#2,PZ#3}
- Complete product configuration, covering all common specifications
- Unique packing box design , easy carry and pick up and access
- Made of high-strength S2 material to achieve greater torque
- The surface is satin nickel plated, making the product rustproof and durable

No.			
09331	6	72	20.3

⚠ No warranty as consumables

**09332 31Pc. 1/4" Hex Shank Bits Set, for Power Tool**



- 6Pc. 1/4" Dr. 25mm Length, Hex Bits [3,4,5,6,7,8mm]
- 7Pc. 1/4" Dr. 25mm Length, Torx Bits[T8,T10,T15,T20,T25,T30,T40]
- 4Pc. 1/4" Dr. 25mm Length, Slotted Bits[4,5,6,6,5mm]
- 4Pc. 1/4" Dr. 25mm Length, Phillips Bits [#0,#1,#2,#3]
- 6Pc. 1/4" Dr. 25mm Length, Torx Tamper Bits[TT10,TT15,TT20,TT25,TT30,TT40]
- 3Pc. 1/4" Dr. 25mm Length, Pozid Bits[PZ#1,PZ#2,PZ#3]
- 1Pc. 1/4" Dr. 60mm Length, Magnetic Bits Holder
- Complete product configuration, covering all common specifications
- Unique packing box design , easy carry and pick up and access
- Made of high-strength S2 material to achieve greater torque
- The surface is satin nickel plated, making the product rustproof and durable
- Provided with special pneumatic bits holder

No.			
09332	12	72	21.9

 No warranty as consumables





## 09333 31Pc. 1/4" Hex Shank Bits Set, for Pneumatic Tool



- 6Pc. 1/4" Dr. 25mm Length, Hex Bits {3,4,5,6,7,8mm}
- 7Pc. 1/4" Dr. 25mm Length, Torx Bits{T8,T10,T15,T20,T25,T30,T40}
- 4Pc. 1/4" Dr. 25mm Length, Phillips Bits {#0,#1,#2,#3}
- 6Pc. 1/4" Dr. 25mm Length, Torx Tamper Bits{TT10,TT15,TT20,TT25,TT30,TT40}
- 3Pc. 1/4" Dr. 25mm Length, Pozi Bits{PZ#1,PZ#2,PZ#3}
- 1Pc. 1/4" Dr. Air Tool Bits Holder
- Complete product configuration, covering all common specifications
- Unique packing box design , easy carry and pick up and access
- Made of high-strength S3 material to achieve greater torque
- The surface is satin nickel plated, making the product rustproof and durable
- Provided with special pneumatic bits holder

No.			
09333	6	72	21.8

▲ No warranty as consumables

## 10Pc. 1/4" Power Bits, Slotted



- Wholly made by S2 alloy steel
- Good antirust feature with manganese phosphating electroplating

No.	⌀ (mm)	L(mm)			
59011-50	3	50	12	144	7.9
59012-50	4	50	12	144	8.4
59013-50	5	50	12	144	9
59013-70	5	70	12	144	10
59014-50	6	50	12	144	9.9
59014-70	6	70	12	144	10.9

▲ No warranty as consumables

## 10Pc. 1/4" Power Bits, Phillips



- Wholly made by S2 alloy steel
- Good antirust feature with manganese phosphating electroplating

No.	⊕	L(mm)			
59001-25	#1	25	12	144	5.2
59001-50	#1	50	12	144	9
59002-25	#2	25	12	144	5.5
59002-50	#2	50	12	144	9.9
59002-70	#2	70	12	144	7.5
59003-25	#3	25	12	144	5.5
59003-50	#3	50	12	144	10.1
59003-70	#3	70	12	72	7.5

▲ No warranty as consumables

## 10Pc. 1/4" Power Bits, Hexagon



- Wholly made by S2 alloy steel
- Good antirust feature with manganese phosphating electroplating

No.	⊙ (mm)	L(mm)			
59031-50	2	50	12	144	7.8
59032-50	2.5	50	12	144	7.9
59033-50	3	50	12	144	8.3
59034-50	4	50	12	144	9.3
59034-70	4	70	12	144	10.3
59035-50	5	50	12	144	10.3
59035-70	5	70	12	144	11.3
59036-50	6	50	12	144	11.3
59036-70	6	70	12	144	12.3

▲ No warranty as consumables





### 5Pc. 1/4" Hex Shank Bits, 25mm Length, Phillips



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.		L(mm)			
59221	#0	25	12	144	5.7
59222	#1	25	12	144	5.2
29223	#2	25	12	144	5.5
59224	#3	25	12	144	5.5

▲ No warranty as consumables

### 5Pc. 1/4" Hex Shank Bits, 25mm Length, Tamper-Proof Torx®



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.		L(mm)			
59241	T8	25	12	144	4.6
59242	T10	25	12	144	4.8
59243	T15	25	12	144	4.9
59244	T20	25	12	144	5.1
59245	T25	25	12	144	5.2
59246	T27	25	12	144	5.3
59247	T30	25	12	144	5.6
59248	T40	25	12	144	6

▲ No warranty as consumables

### 5Pc. 1/4" Hex Shank Bits, 25mm Length, Torx®



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.		L(mm)			
59231	T8	25	12	144	4.9
59232	T10	25	12	144	4.8
59233	T15	25	12	144	4.6
59234	T20	25	12	144	5.3
59235	T25	25	12	144	5.5
59236	T27	25	12	144	5.6
59237	T30	25	12	144	5.7
59238	T40	25	12	144	6.2

▲ No warranty as consumables

### 5Pc. 1/4" Hex Shank Bits, 25mm Length, Pozidrive



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.		L(mm)			
59261	PZ#1	25	12	144	6.1
59262	PZ#2	25	12	144	5
59263	PZ#3	25	12	144	6.1

▲ No warranty as consumables



## 5Pc. 1/4" Hex Shank Bits, 25mm Length, Hexagon



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.	Ø (mm)	L(mm)			
59251	2	25	12	144	4.8
59252	2.5	25	12	144	4.9
59253	3	25	12	144	5.1
59254	4	25	12	144	5.5
59255	5	25	12	144	5.9
59256	6	25	12	144	6.5
59257	7	25	12	144	7.5
59258	8	25	12	144	9.1

▲ No warranty as consumables

## 5Pc. 1/4" Hex Shank Bits, 50mm Length, Slotted



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.	Ø (mm)	L(mm)			
59311	3	50	12	144	7.9
59313	4	50	12	144	8.4
59315	5	50	12	144	9
59316	5.5	50	12	144	9.5
59317	6	50	12	144	9.9
59318	6.5	50	12	144	10.5

▲ No warranty as consumables

## 59274 1/4" Dr. Magnetic Quick Change Pneumatic Bit Holder



- Magnetic holder, easy to install and remove bits
- Special pinning mechanism, safe and reliable

No.			
59274	6	72	3.3

▲ No warranty as consumables

## 5Pc. 1/4" Hex Shank Bits, 50mm Length, Phillips



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.		L(mm)			
59321	#0	50	12	144	8.2
59322	#1	50	12	144	9
59323	#2	50	12	144	9.9
59324	#3	50	12	144	10.1

▲ No warranty as consumables



### 5Pc. 1/4" Hex Shank Bits, 50mm Length, Torx®



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.		L(mm)			
59331	T8	50	12	144	7.8
59332	T10	50	12	144	7.8
59333	T15	50	12	144	8.2
59334	T20	50	12	144	8.6
59335	T25	50	12	144	9
59336	T27	50	12	144	9.5
59337	T30	50	12	144	10.1
59338	T40	50	12	144	11.2

▲ No warranty as consumables

### 5Pc. 1/4" Hex Shank Bits, 50mm Length, Tamper-Proof Torx®



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.		L(mm)			
59341	T8	50	12	144	7.8
59342	T10	50	12	144	8
59343	T15	50	12	144	8.5
59344	T20	50	12	144	8.6
59345	T25	50	12	144	9.1
59346	T27	50	12	144	9.4
59347	T30	50	12	144	9.9
59348	T40	50	12	144	10.9

▲ No warranty as consumables

### 5Pc. 1/4" Hex Shank Bits, 50mm Length, Hexagon



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.	Ø (mm)	L(mm)			
59351	2	50	12	144	7.8
59352	2.5	50	12	144	7.9
59353	3	50	12	144	8.3
59354	4	50	12	144	9.3
59355	5	50	12	144	10.3
59356	6	50	12	144	11.3

▲ No warranty as consumables

### 5Pc. 1/4" Hex Shank Double End Bits, 65mm Length



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.		L(mm)			
59381	PH1-PH1	65	12	72	6.6
59382	PH2-PH2	65	12	72	6.5
59383	PH3-PH3	65	12	72	6.6
59384	4.5mm-PH1	65	12	72	6.4
59385	5.5mm-PH2	65	12	72	6.5
59386	6.5mm-PH3	65	12	72	6.6
59387	PH1-PH2	65	12	72	6.6
59388	PH2-PH3	65	12	72	6.5
59391	PH1-PH1	110	12	72	11.6
59392	PH2-PH2	110	12	72	11.5
59393	PH3-PH3	110	12	72	11.6

▲ No warranty as consumables





## 5Pc. 5/16" Hex Shank Bits, 30mm Length, Slotted



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.	⌀ (mm)	L(mm)			
59411	5.5	30	12	144	8.3
59413	6.5	30	12	144	9.1
59415	8	30	12	144	9.4
59416	10	30	12	144	11.8
59417	12	30	12	72	7

▲ No warranty as consumables

## 5Pc. 5/16" Hex Shank Bits, 30mm Length, Phillips



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.	⌀	L(mm)			
59421	#1	30	12	144	9.4
59422	#2	30	12	144	8.7
59423	#3	30	12	144	8.6
59424	#4	30	12	144	9.6

▲ No warranty as consumables

## 59515 5Pc. 5/16" Hex Shank Bits, 70mm Length, Slotted 8mm



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.	⌀ (mm)	L(mm)			
59515	8	70	12	72	11.5

▲ No warranty as consumables

## 5Pc. 5/16" Hex Shank Bits, 30mm Length, Tamper-Proof Torx®



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.	⌀	L(mm)			
59453	T20	30	12	144	8.4
59454	T25	30	12	144	8.5
59456	T30	30	12	144	8.9
59457	T40	30	12	144	9.4
59458	T45	30	12	144	8.9
59459	T50	30	12	144	10.2

▲ No warranty as consumables



### 5Pc. 5/16" Hex Shank Bits, 30mm Length, Triple Square



- Made of premium S2 quality steel, with surface subjected to tin nickel plated
- 5pc. display packed

No.	○	L(mm)			
59464	M5	30	12	144	8.9
59465	M6	30	12	144	9.4
59467	M8	30	12	144	9.7
59468	M10	30	12	144	13.3
59469	M12	30	12	72	8.1

▲ No warranty as consumables

### 5Pc. 5/16" Hex Shank Bits, 30mm Length, Hexagon



- Made of premium S2 quality steel, with surface subjected to tin nickel plated
- 5pc. display packed

No.	○ (mm)	L(mm)			
59471	4	30	12	144	8.9
59472	5	30	12	144	9.2
59473	6	30	12	144	10
59474	7	30	12	144	10.1
59475	8	30	12	144	14.7
59476	10	30	12	72	9.2
59478	12	30	12	144	10.7

▲ No warranty as consumables

### 59522 5Pc. 5/16" Hex Shank Bits, 70mm Length, Slotted 8mm



- Made of premium S2 quality steel, with surface subjected to tin nickel plated
- 5pc. display packed

No.	⊗ (mm)	L(mm)			
59522	6	50	12	72	11.2

▲ No warranty as consumables

### 5Pc. 5/16" Hex Shank Bits, 70mm Length, Torx®



- Made of premium S2 quality steel, with surface subjected to tin nickel plated
- 5pc. display packed

No.	⊗	L(mm)			
59533	T20	70	12	72	10.7
59534	T25	70	12	72	11.2
59535	T27	70	12	72	11.2
59536	T30	70	12	72	11.4
59537	T40	70	12	72	11.6
59538	T45	70	12	72	12
59539	T50	70	12	72	12.2
59540	T55	70	12	48	11.7

▲ No warranty as consumables



## 5Pc. 5/16" Hex Shank Bits, 70mm Length, Triple Square



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.	Ø	L(mm)			
59562	M5	70	12	72	10.9
59563	M6	70	12	72	11.4
59564	M8	70	12	72	11.7
59565	M10	70	12	48	10.6
59566	M12	70	12	48	13.2

▲ No warranty as consumables

## 5Pc. 5/16" Hex Shank Bits, 70mm Length, Hexagon



- Made of premium S2 quality steel, with surface subjected to satin nickel plated
- 5pc. display packed

No.	Ø (mm)	L(mm)			
59571	4	70	12	72	11.2
59572	5	70	12	72	11.4
59573	6	70	12	72	11.8
59574	7	70	12	72	12.2
59575	8	70	12	72	12.4
59576	10	70	12	48	11.9
59577	12	70	12	48	15.7
59578	14	70	12	48	20.9

▲ No warranty as consumables

## Quick Change Bit Holder

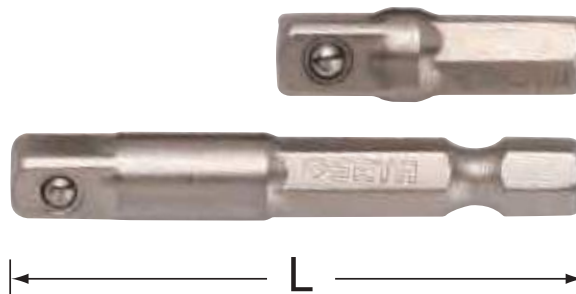


- Structure for quick bit replacement for high efficiency and cost reduction
- Made of high-strength SCM material

No.	Driver	L(mm)			
21510	1/4"	50	6	96	9.3
22610	3/8"	60	6	96	16.2
25910	1/2"	60	6	96	14.9

▲ No warranty as consumables

## 5Pc. 1/4" Hex Shank Socket Holders



- Made of Cr-V, with surface subjected to stain nickel treatment
- 5pc. display packed

No.	L(mm)			
59271	25	12	144	6.8
59272	50	12	144	13.4

▲ No warranty as consumables



**59273 3Pc. 1/4" Hex Shank Magnetic Bit Holders**

- Magnetic function end of the holder made of stainless steel
- Bit holder made of Cr-V
- Surface subjected to stain nickel treatment
- 3pc. display packed

No.	L(mm)			
59273	60	12	144	12.9

▲ No warranty as consumables

**61002 1/4" Hex Shank Magnetic Bit Driver**

- Suitable for 6.3mm series bits
- Magnetic shank to prevent bit from slipping

No.	Spec. (mm)			
61002	1/4"x100	6	150	20.9

▲ No warranty as consumables

**10Pc. 1/4" Hex Shank Impact Bits, Phillips**

No.		L(mm)			
59602	#1	29	12	144	9.4
59603	#2	29	12	144	9.4
59604	#3	29	12	144	9.4

▲ No warranty as consumables

**10Pc. 1/4" Hex Shank Impact Bits, Torx®**

No.		L(mm)			
59620	T8	29	12	144	9.4
59622	T10	29	12	144	9.4
59623	T15	29	12	144	9.4
59624	T20	29	12	144	9.4
59625	T25	29	12	144	9.4
59627	T30	29	12	144	9.4
59628	T40	29	12	144	9.4

▲ No warranty as consumables

**10Pc. 1/4" Hex Shank Impact Bits, Phillips**

No.		L(mm)			
59702	#1	50	12	144	15.9
59703	#2	50	12	144	15.9
59704	#3	50	12	144	15.9

▲ No warranty as consumables



## 10Pc. 1/4" Hex Shank Impact Bits, Slotted



No.	⌀ (mm)	L(mm)			
59713	3	50	12	144	15.9
59714	4	50	12	144	15.9
59716	5	50	12	144	15.9
59718	6	50	12	144	15.9

▲ No warranty as consumables

## 10Pc. 1/4" Hex Shank Impact Bits, Torx®



No.		L(mm)			
59731	T8	50	12	144	15.9
59732	T10	50	12	144	15.9
59733	T15	50	12	144	15.9
59734	T20	50	12	144	15.9
59735	T25	50	12	144	15.9
59737	T30	50	12	144	15.9
59738	T40	50	12	144	15.9

▲ No warranty as consumables

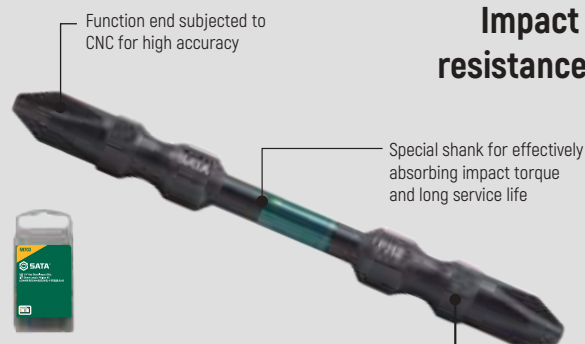
## 10Pc. 1/4" Hex Shank Double End Impact Bits



No.		L(mm)			
59801	#1/#1	65	12	144	17.3
59802	#2/#2	65	12	144	17.3
59803	#3/#3	65	12	144	17.3

▲ No warranty as consumables

## Impact resistance



- Plastic box packaging to facilitate storage
- 10pc display packed

Common bit

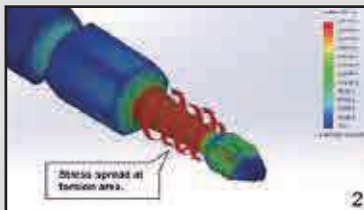


Distortion and destruction due to shock load limited exceeded on tip bearing too much stress



Common bit after impact test

Impact-resistance bit



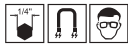
Service life prolonged due to impact force reduced and tip load reduced thanks to the deformed area of the neck to effectively dispersing the stress



Impact-resistance bit after impact test



## 10Pc. 1/4" Hex Shank Impact Bits, Hexagon



No.	○ (mm)	L(mm)			
59751	2	50	12	144	15.9
59752	2.5	50	12	144	15.9
59753	3	50	12	144	15.9
59754	4	50	12	144	15.9
59755	5	50	12	144	15.9
59757	6	50	12	144	15.9

▲ No warranty as consumables

## 10Pc. 1/4" Hex Shank Double End Impact Bits



No.	⊕	L(mm)			
59811	#1/#1	110	12	72	18.8
59812	#2/#2	110	12	72	18.8
59813	#3/#3	110	12	72	18.8

▲ No warranty as consumables












## 10Pc. 1/4" Hex Shank Double End Impact Bits



No.	⊕	L(mm)			
59821	#1/#1	150	12	48	16.1
59822	#2/#2	150	12	48	16.1
59823	#3/#3	150	12	48	16.1

▲ No warranty as consumables

# Pliers

	G-series Pliers	<b>129-130</b>
 Pro	Professional Japanese Pliers	<b>130-132</b>
 Value	Electronic Pliers	<b>134-136</b>
	TPE Two-Tone Pliers	<b>137-138</b>
 Mini	Diagonal Mini Pliers	<b>136-137</b>
 Energy	High Leverage Pliers	<b>136-137</b>
	Cable Tools	<b>139-145</b>
	Slip Joint Pliers	<b>145</b>
	Groove Joint Pliers	<b>145</b>
	Circlip pliers	<b>146-148</b>
	Vise Grip Pliers	<b>148-150</b>

# Pliers

## Quick Release Groove Joint Pliers



- Slim head for application in limited space
- Speedy and easy adjusting mechanism for high efficiency
- Wider opening with bigger application range for pipes

No.	Spec.	L (Max.)	L3 (Max.)	g (Max.)	W (Max.)	T1 (Max.)	T2 (Max.)			
72411	8"	185mm	32mm	34mm	45mm	13mm	7mm	6	60	14
72412	10"	260mm	38mm	55mm	45mm	13mm	7mm	6	60	23
72413	12"	305mm	45mm	67mm	50mm	15mm	10mm	6	60	30

## Long Nose Pliers



- Prolonged service life for cutting
- Three-dimensionally machined by CNC machine tool, to ensure high precision and consistency
- Bi-color oil-resistant non-slip handle, not prone to aging and peeling off
- Forged from high-grade special tool steel, ensuring long service life
- Three-dimensionally machined by CNC machine tool, to ensure high precision dimensions of profile and cutting edge fitness
- Ergonomic handle, providing gripping comfort and easy, smooth opening and closing
- Small round head for precision operation, and tightly closed tip for clamping slim and small workpieces even thin plates
- The cutting edge is able to cut flexible wires and medium hard wires
- Special heat treatment increases the hardness of cutting edge and shear strength

No.	Spec.	L(mm)	Max. Cutting Capacity(mm)			
72710	6"	160	Copper wire Ø2.5, iron wire Ø1.6	6	120	22.9
72712	8"	200	Copper wire Ø2.8, iron wire Ø1.8	6	60	22.9

## G-series German Pliers



Special heat treatment for improved edge hardness and shear hardness

Made of high-grade special tool steel for long service life

Ergonomic two-tone handle for oil resistance and resistance to aging and falling-off, comfort, easy holding, and smooth opening and closing

Subjected to CNC for accurate dimensions and cutting edge matching







## 70123A Japannish Curved Jaw Long Nose Pliers 6"



- Cr-V steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.	L(mm)	Max. Cutting Capacity(mm)			
70123A	6"	166+/-2	Copper wire Ø2.6, iron wire Ø1.5	6	36	71

## 70124A Japannish Multipurpose Long Nose Pliers 6"



- Cr-V steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.	L(mm)	Max. Cutting Capacity(mm)			
70124A	6"	168+/-2	Copper wire Ø2.6, iron wire Ø1.5	6	36	74

## Professional Japannish Pliers





## Japannish Diagonal Pliers



- Cr-V steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.	L(mm)	Max. Cutting Capacity(mm)			
70221A	5"	136+/-2	Copper wire Ø2.0, iron wire Ø1.2	6	36	64
70222A	6"	167+/-2	Copper wire Ø3.0, iron wire Ø2.0	6	36	8.7
70223A	7"	181+/-2	Copper wire Ø3.0, iron wire Ø2.0	6	36	11.1

## Japannish Combination Pliers



- Cr-V steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.	L(mm)	Max. Cutting Capacity(mm)			
70321A	6"	164+/-2	Copper wire Ø3.0, iron wire Ø2.2	6	36	9.7
70322A	7"	188+/-2	Copper wire Ø3.5, iron wire Ø3.0	6	36	12.8
70323A	8"	213+/-2	Copper wire Ø4.0, iron wire Ø3.4	6	36	15.1

## Japannish Plastic Flush Cutting Pliers



- Cr-V steel forged
- High frequency heat-treatment blades
- Flat blade style with spring
- Used for cutting plastic gate and burrs

No.	Spec.	L(mm)	Max. Cutting Capacity(mm)			
70921A	6"	160+/-2	Resin Ø5.0	6	36	8.4
70922A	7"	178+/-2	Resin Ø6.0	6	36	10.3

▲ No warranty as consumables

## High Leverage Combination Pliers



- Made of imported alloy steel for durability
- Cutting edge subjected to special heat treatment
- Main shaft of the pliers with eccentric structure for labor saving
- Handle made from imported two-tone material, being anti-slipping, anti-scratching, and comfortable

No.	Spec.	Max. Cutting Capacity(mm)			
72201	6"	Copper wire Ø2.5, iron wire Ø1.8	6	48	14.6
72202	7"	Copper wire Ø2.8, iron wire Ø2.2	6	48	16.8
72203	8"	Copper wire Ø3.0, iron wire Ø2.4	6	48	20.8

## High Leverage Diagonal Pliers



- Made of imported alloy steel for durability
- Cutting edge subjected to special heat treatment
- Main shaft of the pliers with eccentric structure for labor saving
- Handle made from imported two-tone material, being anti-slipping, anti-scratching, and comfortable

No.	Spec.	Max. Cutting Capacity(mm)			
72301	6"	Copper wire Ø3.0, iron wire Ø1.8	6	48	14.6
72302	7"	Copper wire Ø3.2, iron wire Ø2.2	6	48	17.6
72303	8"	Copper wire Ø3.5, iron wire Ø2.4	6	48	18.8

## High Leverage Long Nose Pliers



- Made of imported alloy steel for durability
- Main shaft of the pliers with eccentric structure for labor saving
- Handle made from imported two-tone material, being anti-slipping, anti-scratching, and comfortable

No.	Spec.	Max. Cutting Capacity(mm)			
72401	6"	Copper wire Ø2.2, iron wire Ø1.8	6	48	10.2
72402	8"	Copper wire Ø3.2, iron wire Ø1.8	6	48	15.6





## High Leverage Combination Pliers



- Cr-V steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.	Max. Cutting Capacity(mm)			
72201B	6"	Copper wire Ø2.2, iron wire Ø2.0, steel wire Ø1.6	6	36	10
72202B	7"	Copper wire Ø2.6, iron wire Ø2.4, steel wire Ø2.0	6	36	11
72203B	8"	Copper wire Ø2.6, iron wire Ø2.4, steel wire Ø2.0	6	36	15

## High Leverage Diagonal Pliers



72303B

- Cr-V steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.	Max. Cutting Capacity(mm)			
72301B	6"	Copper wire Ø2.2, iron wire Ø2.0, steel wire Ø1.6	6	36	9
72302B	7"	Copper wire Ø2.6, iron wire Ø2.4, steel wire Ø2.0	6	36	12
72303B	8"	Copper wire Ø2.6, iron wire Ø2.4, steel wire Ø2.0	6	36	13.5

## Combination Pliers Series





## High Leverage Long Nose Pliers



- Cr-V steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.	Max. Cutting Capacity(mm)			
72401B	6"	Copper wire Ø2.2 iron wire Ø2.0 steel wire Ø1.6	6	36	9
72402B	8"	Copper wire Ø2.6 iron wire Ø2.4 steel wire Ø2.0	6	36	12

## Long Nose Pliers



- Cr-Ni steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.	Max. Cutting Capacity(mm)			
70101A	6"	Copper wire Ø2.2, iron wire Ø2.0, hard steel wire Ø1.6	6	36	8.5
70102A	8"	Copper wire Ø2.2, iron wire Ø2.0, hard steel wire Ø1.6	6	36	12

## Diagonal Pliers



- Cr-Ni steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.	Max. Cutting Capacity(mm)			
70201A	5"	Copper wire Ø2.2, iron wire Ø2.0, hard steel wire Ø1.6	6	36	7
70202A	6"	Copper wire Ø2.6, iron wire Ø2.4, hard steel wire Ø2.0	6	36	9.1

## 70203A Diagonal Pliers 7"



- Cr-Ni steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.	Max. Cutting Capacity(mm)			
70203A	7"	Copper wire Ø2.6, iron wire Ø2.4, hard steel wire Ø2.0	6	36	11.7

## Combination Pliers



- Cr-Ni steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.	Max. Cutting Capacity(mm)			
70301A	6"	Copper wire Ø2.6, iron wire Ø2.4, hard steel wire Ø2.0	6	36	9.6
70302A	7"	Copper wire Ø2.6, iron wire Ø2.4, hard steel wire Ø2.0	6	36	11.7
70303A	8"	Copper wire Ø2.6, iron wire Ø2.5, hard steel wire Ø2.3	6	36	15.6

## Electronic Long Nose Pliers



- Cr-V steel forged
- High frequency heat-treatment blades
- Long nose style with spring
- Used for electronic bending and cutting

No.	Spec.	Max. Cutting Capacity(mm)			
70621	5"	Copper wire Ø2.6	6	36	4.4
70622	6"	Copper wire Ø2.6	6	36	5.2

▲ No warranty as consumables





## Electronic Cutting Pliers



- Mirror ultrafinish on blades and surface
- Used for electronic components and narrow space
- Cr-V alloy steel for cutting soft iron and copper wire
- Curved blades with spring

No.	Spec.	Max. Cutting Capacity(mm)			
70634	4"	Copper wire Ø1.8, iron wire Ø1.4	6	36	4
70635	5"	Copper wire Ø2.0, iron wire Ø1.6	6	36	4.4

▲ No warranty as consumables

## 70631 Electronic Cutting Pliers 4"



- Cr-V steel forged
- High frequency heat-treatment blades
- Bent blade style with spring
- Used for electronic components cutting

No.	Spec.	Max. Cutting Capacity(mm)			
70631	4"	Copper wire $\phi$ 1.8	6	36	4

▲ No warranty as consumables

## Plastic Pliers



- Mirror ultrafinish on blades and surface
- Cr-V alloy steel
- Flat blade for straight and smooth cutting edge

No.	Spec.	Max. Cutting Capacity(mm)			
70645	5"	Resin Ø4	6	36	5.4
70646	6"	Resin Ø5	6	36	8

▲ No warranty as consumables

## 70632 Electronic Cutting Pliers 5"



- Cr-V steel forged
- High frequency heat-treatment blades
- Bent blade style with spring
- Used for electronic components cutting

No.	Spec.	Max. Cutting Capacity(mm)			
70632	5"	Copper wire $\phi$ 2.0	6	36	14

▲ No warranty as consumables

## 70623 Electronic Bent Nose Pliers 6"



- Cr-V steel forged
- High frequency heat-treatment blades
- 45° bending slim tips with spring
- Helical groove to increase clamping force

No.	Spec.	Max. Cutting Capacity(mm)			
70623	6"	Copper wire $\phi$ 2.6	6	36	6

▲ No warranty as consumables

## 70633 Electronic Cutting Pliers 5"



- Cr-V steel forged
- High frequency heat-treatment blades
- Slim tips, flat blade style with spring
- Used for cutting electronic components

No.	Spec.	Max. Cutting Capacity(mm)			
70633	5"	Copper wire $\phi$ 2.0	6	36	5

▲ No warranty as consumables

## Flush Cutting Pliers



- Cr-V steel forged
- High frequency heat-treatment blades
- Slim tips, flat blade style with spring
- Used for cutting electronic components

No.	Spec.	Max. Cutting Capacity(mm)			
70641	5"	Resin $\phi 3.0$	6	36	4.4
70642	6"	Resin $\phi 5.0$	6	36	7.1
70643	7"	Resin $\phi 6.0$	6	36	9.5

▲ No warranty as consumables

## 70651 Electronic Stripping Pliers 6"



- Cr-V steel forged
- High frequency heat-treatment blades
- Addition stripper function with spring

No.	Spec.	Max. Cutting Capacity(mm)			
70651	5"	Copper wire $\phi 2.0$	6	36	9

▲ No warranty as consumables

## 75101 ESD Electronic Side Cutting Pliers 5"



- Handle made from antistatic material for antistatic work place
- Maximum diameter of wire to be cut:  $\phi 1.3\text{mm}$
- Fine-shaped cutting edge
- Not suitable for cutting steel wire or iron wire

No.	L(mm)	Body Thickness (mm)			
75101	125	2.5	6	72	8

▲ No warranty as consumables

## 75102 ESD Electronic Side Cutting Pliers 5"



- Handle made from antistatic material for antistatic work place
- Maximum diameter of wire to be cut:  $\phi 1.6\text{mm}$
- Powerful cutting edge
- Not suitable for cutting steel wire or iron wire

No.	L(mm)	Body Thickness (mm)			
75102	125	3.0	6	72	8.6

▲ No warranty as consumables

## 75103 ESD Electronic Side Cutting Pliers 5"



- Handle made from antistatic material for antistatic work place
- Maximum diameter of wire to be cut:  $\phi 1.3\text{mm}$
- Fine-shaped cutting edge with safety catch
- Not suitable for cutting steel wire or iron wire

No.	L(mm)	Body Thickness (mm)			
75103	120	2.5	6	72	8.6

▲ No warranty as consumables

## 75111 ESD Electronic Long Nose Pliers 5"



- Handle made from antistatic material for antistatic work place

No.	L(mm)			
75111	150	6	72	8.6

▲ No warranty as consumables

**75121 ESD Electronic Flat Nose Pliers 5"**

- Handle made from antistatic material for antistatic work place

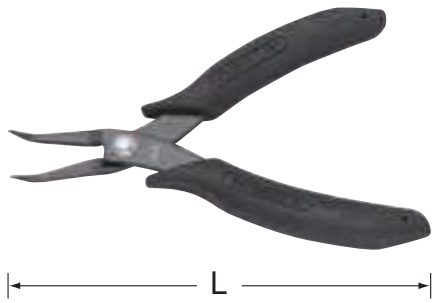
No.	L(mm)			
75121	150	6	72	8.5

No warranty as consumables

**70612A Mini Long Nose Pliers 5.5"**

- Cr-Ni steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.	Max. Cutting Capacity(mm)			
70612A	5.5"	Copper wire Ø1.5, iron wire Ø1.5, hard steel wire Ø1.2	6	36	5.3

**75131 ESD Electronic Bent Nose Pliers 5"**

- Handle made from antistatic material for antistatic work place

No.	L(mm)			
75131	145	6	72	8.5

No warranty as consumables

**70613A Mini Bent Nose Pliers 5.5"**

- Cr-Ni steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.			
70613A	5.5"	6	36	5.3

**70611A ESD Electronic Bent Nose Pliers 5"**

- Cr-Ni steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.	Max. Cutting Capacity(mm)			
70611A	5"	Copper wire Ø1.5, iron wire Ø1.5, hard steel wire Ø1.2	6	36	5.3

**70614A Mini Flat Nose Pliers 5.5"**

- Cr-Ni steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.			
70614A	5.5"	6	36	5.5





### 70615A Mini Diagonal Pliers 5"



- Cr-Ni steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.	Max. Cutting Capacity(mm)			
70615A	5"	Copper wire Ø1.5, iron wire Ø1.5, hard steel wire Ø1.2	6	36	5.3

### 70617A Mini Needle Nose Pliers 6"



- Cr-Ni steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.			
70617A	6"	6	36	5.3

### 70616A Mini End Cutting Pliers 4.5"



- Cr-Ni steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.	Max. Cutting Capacity(mm)			
70616A	4.5"	Copper wire Ø1.5, iron wire Ø1.5, hard steel wire Ø1.2	6	36	5.1

### 70618A Mini Plastic Flush Cutting Pliers 5"



- Cr-Ni steel forged
- High frequency heat-treatment blades
- Comfortable TPR handle

No.	Spec.	Max. Cutting Capacity(mm)			
70618A	5"	Resin Ø3.0	6	36	5.3

▲ No warranty as consumables

### High Leverage Mini Pliers

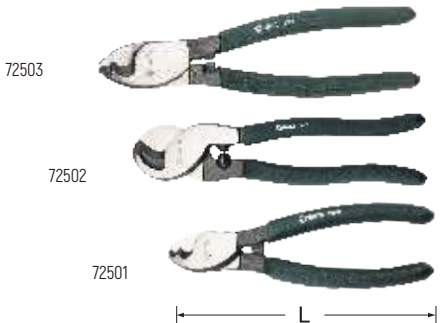
Made of chromium-nickel steel for long service life

Handle material upgraded to PP+TPR for comfort

- Body with special structure
- Body designed for assembly line, high intensity work and reduced fatigue
- Imported anti-rust oil for high rust protection



## Cable Cutting Pliers



No.	Spec.	L(mm)	Max. Cutting Capacity(mm)			
72501	6"	150	9	6	72	15.6
72502	8"	200	11	6	36	13
72503	10"	250	13	6	36	19.4

## Wire Stripper with Cutter




- Cutting capacity for hard wire diameter 1.0mm
- Precision wire-stripping hole, which can be easily sheathed without damage to the inner core of the electric wire
- Easy to store, comfortable plastic handle, easy to use
- Integral high carbon steel manufacturing, non-deformable

**Stripping wire range:**

	American wire standard	Cross aread
91201	20-30AWG	0.05-0.52mm <sup>2</sup>
91202	10-20AWG	0.52-5.26mm <sup>2</sup>

No.	Spec.			
91201	6"	12	96	14.6
91202	7"	12	96	18.5

## ESD Wire Stripper 5"

- Handle made from antistatic material for antistatic work place

No.	L(mm)	Wire stripping diameter (mm)			
75141	150	0.8-2.6	6	72	10.9
75142	150	0.2-0.8	6	72	11.2

▲ No warranty as consumables

## 91212 Automatic Wire Stripper, Type A




- Stripping range: Ø0.5, 1.2, 1.6, 2.0mm
- Jaw with free opening and closing, ensuring comfortable gripping.

No.	Spec.	Wire stripping diameter (mm)			
91212	7"	Ø0.5, 1.2, 1.6, 2	6	24	9.7

▲ Excluded from lifetime warranty terms

## 91108 Automatic Wire Stripper 6.5"



- Wire stripping range: Single wire or flat cable of diameter from 0.5 to 6.0mm
- Attention: Take appropriate protections for first time users who are uncertain on how to adjust the cutting edge to the right place, so as to avoid damaging the core wire (for example, sticking rubber cloth on the cutting edge).

No.	Spec.			
91108	6.5"	6	36	10.4

## 91213 Automatic Wire Stripper, Type B



- Stripping range: Ø1.0, 1.6, 2.0, 2.6, 3.2mm
- Jaw with free opening and closing, ensuring comfortable gripping.

No.	Spec.	Wire stripping diameter (mm)			
91213	7"	Ø1, 1.6, 2, 2.6, 3.2	6	24	9.6

▲ Excluded from lifetime warranty terms






## 91101 Crimping Pliers for D-SUB Terminals 8"

Crimping Shape 



- High accuracy connector crimping pin to moderately press connector on cable wire without damaging the connector
- Made of carbon steel with fiberglass handle
- Adjustable locking mechanism easily controlled by pressing/releasing handle
- Crimping range
 

AWG	Capacity
30-24AWG	0.05-0.25mm <sup>2</sup>
22-18AWG	0.5-1mm <sup>2</sup>

No.	Spec.			
91101	8"	5	20	16.7




## 91104 Crimping Pliers for Coaxial Terminals 9"

Crimping Shape: coaxial line 



- High accuracy connector crimping pin to moderately press connector on cable wire without damaging the connector
- Made of carbon steel with fiberglass handle
- Adjustable locking mechanism easily controlled by pressing/releasing handle
- Crimping range
 

1.72mm <sup>2</sup> , 2.5mm <sup>2</sup> , 5.4mm <sup>2</sup> , 6.48mm <sup>2</sup> , 8.2mm <sup>2</sup>
----------------------------------------------------------------------------------------------------------

No.	Spec.			
91104	9-1/2"	5	20	13.3




## 91102 Crimping Pliers for European Cable Terminals 8"

Crimping Shape 



- High accuracy connector crimping pin to moderately press connector on cable wire without damaging the connector
- Made of carbon steel with fiberglass handle
- Adjustable locking mechanism easily controlled by pressing/releasing handle
- Crimping range
 

AWG	Capacity
22-20AWG	0.5-0.75mm <sup>2</sup>
18-16AWG	1-1.5mm <sup>2</sup>
16-14AWG	2.5mm <sup>2</sup>
14-12AWG	4mm <sup>2</sup>
12-10AWG	6mm <sup>2</sup>

No.	Spec.			
91102	8"	5	20	10.3




## 91105 Crimping Pliers for Insulated Terminals 9"

Crimping Shape 



- High accuracy connector crimping pin to moderately press connector on cable wire without damaging the connector
- Made of carbon steel with fiberglass handle
- Adjustable locking mechanism easily controlled by pressing/releasing handle
- Crimping range
 

AWG	Capacity
22-18AWG Red	0.5-1.5mm <sup>2</sup>
16-14AWG Blue	1.1-2.5mm <sup>2</sup>
12-10AWG Yellow	4-6mm <sup>2</sup>

No.	Spec.			
91105	9"	5	20	13



## 91106 Crimping Pliers for Non-Insulated Terminals 10"

Crimping Shape



- High accuracy connector crimping pin to moderately press connector on cable wire without damaging the connector
- Made of carbon steel with fiberglass handle
- Adjustable locking mechanism easily controlled by pressing/releasing handle
- Crimping range
 

AWG	Capacity
22-16AWG	0.5-1.5mm <sup>2</sup>
14-12AWG	2.5-4mm <sup>2</sup>
10-8AWG	6-8mm <sup>2</sup>
7AWG	10mm <sup>2</sup>

No.	Spec.			
91106	10-1/4"	5	20	13

## 91109 Crimping Pliers for Telecom Connector 9"



- High accuracy connector crimping pin to moderately press connector on cable wire without damaging the connector
- Ratchet crimping for convenience and labor saving
- Made of steel plate for firmness without deformation
- Connector ranges from telephone to network connector, including 4P, 6P, 8P
- Wire stripping and cutting functions
- Crimping range: 4P4C, 4P2C, 6P6C, 6P4C, 6P2C, 8P8C, 8P6C, 8P4C, 8P2C
- During crimping, if the handle cannot be released due to big connector crimping size or tight wire, try to grip the handle more tightly or open it by hand, which is not the product quality problem.

No.	Spec.	L[mm]			
91109	9"	230	6	24	14

▲ The product is covered by SATA lifetime warranty (except for the cutting edge)

## 91107 Crimping Pliers for Non-Insulated Terminals 9"

Crimping Shape



- High accuracy connector crimping pin to moderately press connector on cable wire without damaging the connector
- Made of carbon steel with fiberglass handle
- Adjustable locking mechanism easily controlled by pressing/releasing handle
- Crimping range
 

AWG	Capacity
22-18AWG	0.5-1mm <sup>2</sup>
16-14AWG	1.5-2.5mm <sup>2</sup>
12-10AWG	4-6mm <sup>2</sup>

No.	Spec.			
91107	9"	5	20	13.1

## 91111 Crimping Pliers for D-SUB Connectors 7.5"

Crimping Shape



- High accuracy connector crimping pliers to moderately press connector on cable wire without damaging the connector
- Made of carbon steel with fiberglass handle
- Adjustable locking mechanism easily controlled by pressing/releasing handle
- Suitable for precise crimping of small computer connectors
- Crimping range:
 

AWG	Capacity
30-24AWG	0.05-0.25mm <sup>2</sup>
22-18AWG	0.5-1mm <sup>2</sup>

No.	Spec.			
91111	7.5"	6	36	15.5



## Crimping Pliers for End Sleeves 7.5"

Crimping Shape □



- High accuracy connector crimping pliers to moderately press connector on cable wire without damaging the connector
- Made of carbon steel with fiberglass handle
- Adjustable locking mechanism easily controlled by pressing/releasing handle
- Suitable for precise crimping of small European-type connectors
- Crimping range:

	AWG	Capacity
91112	26-14AWG	0.14-2.5mm <sup>2</sup>
91213	24-10AWG	0.25-6mm <sup>2</sup>

No.	Spec.			
91112	7.5" (0.14-2.5mm <sup>2</sup> )	6	36	15.8
91113	7.5" (0.25-6mm <sup>2</sup> )	6	36	15.8

## Crimping Pliers for Non-Insulated Terminals 7.5"

Crimping Shape ○



- High accuracy connector crimping pliers to moderately press connector on cable wire without damaging the connector
- Made of carbon steel with fiberglass handle
- Adjustable locking mechanism easily controlled by pressing/releasing handle
- Suitable for precise crimping of small naked connectors
- Crimping range:

	AWG	Capacity
91115	24AWG	0.25mm <sup>2</sup>
	16AWG	1.5mm <sup>2</sup>
	14AWG	2.5mm <sup>2</sup>
91116	22-18AWG	0.5-1mm <sup>2</sup>
	16-14AWG	1.5-2.5mm <sup>2</sup>
	12-10AWG	4-6mm <sup>2</sup>

No.	Spec.			
91115	7.5" (0.25-2.5mm <sup>2</sup> )	6	36	15.3
91116	7.5" (0.5-6mm <sup>2</sup> )	6	36	15.8

## 91114 Crimping Pliers for Insulated Terminals 7.5"

Crimping Shape ○



- High accuracy connector crimping pliers to moderately press connector on cable wire without damaging the connector
- Made of carbon steel with fiberglass handle
- Adjustable locking mechanism easily controlled by pressing/releasing handle
- Suitable for precise crimping of small insulated connectors
- Crimping range:

	AWG	Capacity
	24-22AWG	0.25-0.5mm <sup>2</sup>
	20-16AWG	0.75-1.5mm <sup>2</sup>
	14AWG	2.0-2.5mm <sup>2</sup>

No.	Spec.			
91114	7.5"	6	36	15.8

## 91117 Crimping Pliers for Open Plug Type Connectors 7.5"

Crimping Shape ♥



- High accuracy connector crimping pliers to moderately press connector on cable wire without damaging the connector
- Made of carbon steel with fiberglass handle
- Adjustable locking mechanism easily controlled by pressing/releasing handle
- Suitable for precise crimping of small plug connectors
- Crimping range:

	AWG	Capacity
	22AWG	0.5mm <sup>2</sup>
	18AWG	1.0mm <sup>2</sup>
	16AWG	1.5mm <sup>2</sup>

No.	Spec.			
91117	7.5"	6	36	15.8



## 91118 Self-Adjusting Crimping Pliers for End Sleeves 7"

Crimping Shape ☐



- High precision terminal crimping holes, ensuring crimping accuracy
- Labor-saving ratchet device, ensuring easy operation and effective crimping
- Automatic adjustment of the dimension of the crimping line, ensuring no crimping error due to mismatched pressing dies and forming a quadrilateral column shape after crimping
- Compact size, simple operation, and pressure regulation button and ratchet force release button, ensuring the service life and efficiency of the product
- Crimping range:
 

AWG	Capacity
28-7AWG	0.08-10mm <sup>2</sup>

No.	Spec.			
91118	7"	6	36	17.6

## 91121 Crimping Pliers for D-SUB Connectors 8.5"



Crimping Shape



- High crimping force through efficient force transfer
- Compact and light
- Small grip spread
- Capacity:
 

AWG	Capacity
27-23AWG	0.1-0.25mm <sup>2</sup>
22-18AWG	0.5-1.0mm <sup>2</sup>
16-13AWG	1.5-2.5mm <sup>2</sup>

No.	Spec.			
91121	8.5"	6	36	20

## 91119 Multipurpose Crimping Pliers for Telecom Connectors 8"



- High accuracy connector crimping pliers to moderately press connector on cable wire
- Vertical crimping with ratchet for labor saving and improved crimping effect
- Built-in spring with soft TPR handle, being simple and elegant
- Capable of wire cutting, wire stripping and wire crimping, and round twisted pair stripping
- Connector ranges from telephone to network connector, including 4P4C, 4P2C, 6P6C, 6P4C, 6P2C, 8P8C, 8P6C, 8P4C, 8P2C
- During crimping, if the handle cannot be released due to big connector crimping size or tight wire, try to grip the handle more tightly or open it by hand, which is not the product quality problem.

No.	Spec.			
91119	8"	6	24	12.1

▲ The product is covered by SATA lifetime warranty (except for the cutting edge)

## 91122 Crimping Pliers for End Sleeves 8.5"



Crimping Shape



- High crimping force through efficient force transfer
- Compact and light
- Small grip spread
- Capacity:
 

AWG	Capacity
23-19AWG	0.25-0.75mm <sup>2</sup>
18-16AWG	1.0-1.5mm <sup>2</sup>
14AWG	2.5mm <sup>2</sup>
12AWG	4.0mm <sup>2</sup>
10AWG	6.0mm <sup>2</sup>

No.	Spec.			
91122	8.5"	6	36	20





## 91125 Crimping Pliers for Insulated Terminals 8.5"



Crimping Shape



- High crimping force through efficient force transfer
  - Compact and light
  - Small grip spread
  - Capacity:
- | AWG             | Capacity               |
|-----------------|------------------------|
| 20-18AWG Red    | 0.5-1.0mm <sup>2</sup> |
| 16-14AWG Blue   | 1.5-2.5mm <sup>2</sup> |
| 12-10AWG Yellow | 4.0-6.0mm <sup>2</sup> |

No.	Spec.			
91125	8.5"	6	36	20

## 91127 Crimping Pliers for Open Plug Type Connectors 8.5"



Crimping Shape



- High crimping force through efficient force transfer
  - Compact and light
  - Small grip spread
  - Capacity:
- | AWG      | Capacity               |
|----------|------------------------|
| 20-18AWG | 0.5-1.0mm <sup>2</sup> |
| 16-14AWG | 1.5-2.5mm <sup>2</sup> |
| 12-10AWG | 4.0-6.0mm <sup>2</sup> |

No.	Spec.			
91127	8.5"	6	36	20

## 91126 Crimping Pliers for Non-Insulated Terminals 8.5"



Crimping Shape



- High crimping force through efficient force transfer
  - Compact and light
  - Small grip spread
  - Capacity:
- | AWG      | Capacity               |
|----------|------------------------|
| 20-18AWG | 0.5-1.0mm <sup>2</sup> |
| 16-14AWG | 1.5-2.5mm <sup>2</sup> |
| 12-10AWG | 4.0-6.0mm <sup>2</sup> |
| 7AWG     | 10mm <sup>2</sup>      |

No.	Spec.			
91126	8.5"	6	36	20

## 91128 Self-Adjusting Crimping Pliers for End Sleeves 7"



Crimping Shape



- Automatic self-adjustment to wire size
  - Square crimp 4 serrated crimp. Profile
  - Capacity:
- | AWG     | Capacity               |
|---------|------------------------|
| 28-5AWG | 0.08-16mm <sup>2</sup> |

No.	Spec.			
91128	7"	6	36	16

**91131 Self-Adjusting Wire Stripper 7.5"**

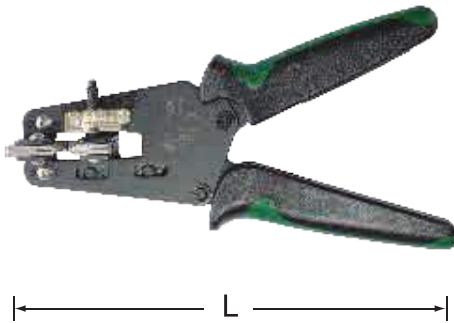
- Fully automatic adjustment to all solid, multi- and fine stranded conductors with PVC insulation and a number of special insulations
- Capacity: 0.03-10.0 mm<sup>2</sup>
- Cable Cutter inside

No.	Spec.	Application			
91131	7.5"	0.03-10.0 mm <sup>2</sup>	6	36	10

**Slip Joint Pliers**

- Double curved jaws and forged from Cr-V alloy steel

No.	Spec.	L(mm)	Applicable Tube Diameter(mm)			
70511	6"	159	5-30	6	60	12.8
70512	8"	204	6-36	6	48	17.5

**91132 Automatic Wire Stripper 7.5"**

- PVC-Single stranded wire: Ø 0.70/1.35/1.70/2.30/2.70/3.50 mm
- Capacity: 0.25/0.75/1.5/2.5/4/6 mm<sup>2</sup>

No.	Spec.	Application			
91132	7.5"	0.25/0.75/1.5/2.5/4/6 mm <sup>2</sup>	6	36	22

**Slip Joint Pliers**

- Cr-V steel forged
- Embossing handle

No.	Spec.			
70521	6"	6	36	9
70522	8"	6	36	10

**70501 Slipping Bolt Removal Pliers**

- Specially designed head shape and tooth shape for clamping and removing rusty or slipping bolts
- Made of Cr-V for firmness and long service life

No.	Spec.	Clamping Capacity			
70501	7"	M2-M6	6	36	64

**Groove Joint Pliers**

- A6 straight jaw, and body forged from CR-V alloy steel

No.	Spec.	Applicable Tube Diameter(mm)			
70411	8"	4-31	6	60	19.3
70412	10"	5-45	3	24	12.2
70413	12"	5-54	3	24	16.9
70414	16"	10-92	3	18	26.9





## External Snap Ring Pliers, Curved Tips



• Cr-V steel forged

No.	Spec.	L(mm)	Tip Size(mm)	Snap Ring Range (mm)			
72021	5"	125	Ø1.30 — 0.3	10-22	6	36	6.2
72022	7"	175	Ø1.80 — 0.3	19-60	6	36	7.7
72023	9"	225	Ø2.30 — 0.35	40-100	6	36	12.8
72024	13"	325	Ø3.20 — 0.35	85-140	6	24	13.6

## Internal Snap Ring Pliers, Curved Tips



• Cr-V steel forged

No.	Spec.	L(mm)	Tip Size(mm)	Snap Ring Range (mm)			
72041	5"	125	Ø1.30 — 0.3	10-22	6	36	5.4
72042	7"	175	Ø1.80 — 0.3	19-60	6	36	6.9
72043	9"	225	Ø2.30 — 0.35	40-100	6	36	11.9

## Internal Snap Ring Pliers, Straight Tips



• Cr-V steel forged

No.	Spec.	L(mm)	Tip Size(mm)	Snap Ring Range (mm)			
72031	5"	125	Ø1.30 — 0.3	10-22	6	36	5.6
72032	7"	175	Ø1.80 — 0.3	19-60	6	36	6.8
72033	9"	225	Ø2.30 — 0.35	40-100	6	36	11.8

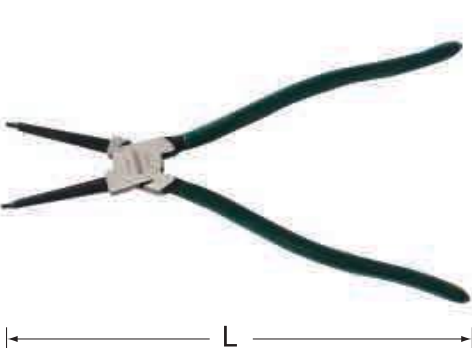
## Internal Snap Ring Pliers 13", Curved Tips



• Cr-V steel forged

No.	Spec.	L(mm)	Tip Size(mm)	Snap Ring Range (mm)			
72044	13"	325	Ø3.20 — 0.35	85-140	6	24	12.5

## Internal Snap Ring Pliers 13", Straight Tips



• Cr-V steel forged

No.	Spec.	L(mm)	Tip Size(mm)	Snap Ring Range (mm)			
72034	13"	325	Ø3.20 — 0.35	85-140	6	24	12.5

## External Snap Ring Pliers, Straight Tips



- Forged and formed from Cr-V materials with greater strength
- Special tip design with higher gripping force
- Antirust surface with high-quality black finish

No.	Spec.	Tip Diameter Ø(mm)	Tip Length (mm)	Applicable Snap Ring Range D(mm)			
73010	5"	0.9	1.2	3-10	6	120	16
73011	5"	1.3	1.5	10-25	6	120	16
73012	7"	1.8	2.5	19-60	6	60	13
73013	9"	2.3	3.5	40-100	6	60	17
73014	13"	3.2	4.5	85-140	6	60	28.5



## External Snap Ring Pliers, Curved Tips



- Forged and formed from Cr-V materials with greater strength
- Special tip design with higher gripping force
- Antirust surface with high-quality black finish

No.	Spec.	Tip Diameter Ø(mm)	Tip Length (mm)	Applicable Snap Ring Range D(mm)			
73020	5"	0.9	1.2	3-10	6	120	16
73021	5"	1.3	1.5	10-25	6	120	16
73022	7"	1.8	2.5	19-60	6	60	13
73023	9"	2.3	3.5	40-100	6	60	16.5
73024	13"	3.2	4.5	85-140	6	60	28

## Internal Snap Ring Pliers, Straight Tips



- Forged and formed from Cr-V materials with greater strength
- Special tip design with higher gripping force
- Antirust surface with high-quality black finish

No.	Spec.	Tip Diameter Ø(mm)	Tip Length (mm)	Applicable Snap Ring Range D(mm)			
73030	5"	0.9	1.2	3-10	6	120	16
73031	5"	1.3	1.5	10-25	6	120	16
73032	7"	1.8	2.5	19-60	6	120	24
73033	9"	2.3	3.5	40-100	6	60	17
73034	13"	3.2	4.5	85-140	6	60	28

## Internal Snap Ring Pliers, Curved Tips



- Forged and formed from Cr-V materials with greater strength
- Special tip design with higher gripping force
- Antirust surface with high-quality black finish

No.	Spec.	Tip Diameter Ø(mm)	Tip Length (mm)	Applicable Snap Ring Range D(mm)			
73040	5"	0.9	1.2	3-10	6	60	8.5
73041	5"	1.3	1.5	10-25	6	60	8.5
73042	7"	1.8	2.5	19-60	6	60	13
73043	9"	2.3	3.5	40-100	6	60	17
73044	13"	3.2	4.5	85-140	6	60	28

## Quick Release Locking Pliers, Curved Jaw



No.	Spec.	L(mm)	Maximum opening(mm)			
71001	7"	190	51	6	48	22.5
71002	10"	220	63	6	36	24.8

## Locking Pliers, Curved Jaw



- Jaw made of Cr-Mo for high toughness
- Body made of high alloy steel without deformation
- Screw-rod fine tuning knob, facilitating clamping size adjustment
- Round jaw capable of cutting

No.	Spec.	L(mm)	Maximum opening(mm)			
71101	5"	144	37	6	24	5.4
71102	7"	186	51	6	36	14
71103	10"	244	63	6	36	20.6

## Quick Release Locking Pliers, Curved Jaw



No.	Spec.	L(mm)	Maximum opening(mm)			
71105	5"	144.3	37	6	72	18.5
71106	7"	186	51	6	48	22.1
71107	10"	226	63	6	36	24.6





## Locking Pliers, Straight Jaw



- Jaw made of Cr-Mo for high toughness
- Body made of high alloy steel without deformation
- Screw-rod fine tuning knob, facilitating clamping size adjustment
- Round jaw capable of cutting

No.	Spec.	L(mm)	Maximum opening(mm)			
71202	7"	185	51	6	24	10.8
71203	10"	224	57	6	36	21.5

## Quick Release Locking Pliers, Straight Jaw



\*Quick release



- Jaw made of Cr-Mo for high toughness
- Body made of high alloy steel without deformation
- One-hand release mechanism without common trigger device of traditional vise for easier operation
- Anti-slip and anti-pinch two-tone handle for comfort and reduced fatigue

No.	Spec.	L(mm)	Maximum opening(mm)			
71205	7"	170	51	6	48	23.9
71206	10"	220	57	6	36	16

## Locking Pliers, Long Nose



- Jaw made of Cr-Mo for high toughness
- Body made of high alloy steel without deformation
- Screw-rod fine tuning knob, facilitating clamping size adjustment
- Round jaw capable of cutting

No.	Spec.	L(mm)	Maximum Cutting Edge Opening (mm)	Maximum opening(mm)			
71301	6"	169	7	62	6	24	5.7
71302	9"	225	23	86	6	12	5.8

## Quick Release Locking Pliers, Long Nose



\*Quick release



- Jaw made of Cr-Mo for high toughness
- Body made of high alloy steel without deformation
- One-hand release mechanism without common trigger device of traditional vise for easier operation
- Anti-slip and anti-pinch two-tone handle for comfort and reduced fatigue

No.	Spec.	L(mm)	Maximum opening(mm)			
71305	6"	187	62	6	72	20.4
71306	9"	230	86	6	36	18.1

## Vise Grip Pliers with Curved Opening





## 71401 Locking Pliers 9", U-Shaped Jaw



- Jaw made of carbon steel for high toughness
- Body made of high alloy steel without deformation
- Screw-rod fine tuning knob, facilitating clamping size adjustment

No.	Spec.	L(mm)	Depth(mm)	Maximum opening (mm)			
71401	9"	204	70	62	6	12	8.1

## 71701 Locking Pliers 19", Chain Clamp



- Jaw made of carbon steel for high toughness
- Body made of high alloy steel without deformation
- Screw-rod fine tuning knob, facilitating clamping size adjustment

No.	Spec.	L(mm)	Chain Length(mm)			
71701	19"	714	485	6	12	9.9

## 71501 Locking Pliers 8", Wide Jaw



- Jaw made of carbon steel for high toughness
- Body made of high alloy steel without deformation
- Screw-rod fine tuning knob, facilitating clamping size adjustment

No.	Spec.	L(mm)	Plier Head Width (mm)	Maximum opening (mm)			
71501	8"	232	78.5	52	6	12	7.3















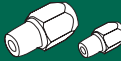


## 71601 Locking Pliers 11", C-Shaped Jaw



- Jaw made of carbon steel for high toughness
- Body made of high alloy steel without deformation
- Screw-rod fine tuning knob, facilitating clamping size adjustment

No.	Spec.	L(mm)	Depth(mm)	Maximum opening (mm)			
71601	11"	273	78	98	6	12	10.4

# Cutting Tool

	Bolt Cutter	152
	Aviation Snips	152
	Tinner's Snips	153
	HSS Twist Drill	154-155
	Circular Saw Blades	159
	Wire Stripping Knife	160
	Cable Cutter	161
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# Cutting Tool

## 93101 Aviation Snips, Left Cut 10"

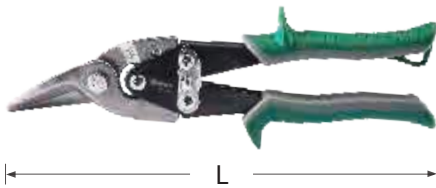


- Cuts up to 1.2mm cold rolled steel or 0.7mm stainless steel
- Made of Cr-V
- Cutting edge subjected to special quenching treatment for smooth cutting without crack
- Precise coordination without deviation
- Snap ring
- Large plastic handle For improved comfort

No.	Spec.	L(mm)			
93101	10"	250	6	36	16.7

▲ No warranty as consumables

## 93102 Aviation Snips, Right Cut 10"



- Cuts up to 1.2mm cold rolled steel or 0.7mm stainless steel
- Made of Cr-V
- Cutting edge subjected to special quenching treatment for smooth cutting without crack
- Precise coordination without deviation
- Snap ring
- Large plastic handle For improved comfort

No.	Spec.	L(mm)			
93102	10"	250	6	36	16.8

▲ No warranty as consumables

## Aviation Snips, Straight Cut



- Cuts up to 1.2mm cold rolled steel or 0.7mm stainless steel
- Made of Cr-V
- Cutting edge subjected to special quenching treatment for smooth cutting without crack
- Precise coordination without deviation
- Snap ring
- Large plastic handle For improved comfort

No.	Spec.	L(mm)			
93103	Straight Aviation Snips 10"	250	6	36	17
93104	Extra Long Aviation Snips, Straight Cut	290	6	36	19.6

▲ No warranty as consumables

## Bolt Cutter



93501



93502-93509

- Not suitable for cutting medium or high carbon steel with hardness exceeding HRC 35

No.	Spec.	Max. Cutting Capacity(mm)			
93501	8"	Low carbon steel Ø3.7(1/8"), medium carbon steel Ø3.7(1/8")	6	60	19.6
93502	12"	Low carbon steel Ø5(3/16"), medium carbon steel Ø4(5/12")	1	4	3.4
93503	14"	Low carbon steel Ø7(1/4"), medium carbon steel Ø5(3/16")	1	4	4.2
93504	18"	Low carbon steel Ø8(5/16"), medium carbon steel Ø6(1/4")	1	4	6.4
93505	24"	Low carbon steel Ø10(3/8"), medium carbon steel Ø8(5/16")	1	4	10.3
93506	30"	Low carbon steel Ø13(1/2"), medium carbon steel Ø10(3/8")	1	4	16.8
93507	36"	Low carbon steel Ø16(5/8"), medium carbon steel Ø12(7/16")	1	4	20.9
93508	42"	Low carbon steel Ø19(3/4"), medium carbon steel Ø14(9/16")	1	2	16.8
93509	48"	Low carbon steel Ø22(7/8"), medium carbon steel Ø16(5/8")	1	2	25.2

▲ No warranty as consumables

## 93121 Antislip Scissors 8"



- It is suitable for high strength and high toughness fabrics such as Kevlar
- The blade is serrated, sharp and can prevent slipping
- The thickening and lengthening blade design can save labor and prevent deformation during shearing
- Surface plating process improves wear resistance and prolongs product life

### Scope of application:

- Kevlar fabric, copper wire, leather, cardboard, plastic plate and thin aluminum sheet, soft wire below Φ1mm

No.			
93121	10	40	8

▲ No warranty as consumables



## 93122 Stainless Steel Scissors 7"



- The blade is made of high-grade stainless steel, which is suitable for various environments such as family, office, factory and so on.
- The handle is made of zinc alloy, durable and enlarged grip design, so that it can be used for a long time.
- Longer blade design can save effort during cutting.

### Scope of application:

- Copper wire, leather, cardboard, plastic plate and thin aluminum sheet

No.			
93122	12	96	20

▲ No warranty as consumables

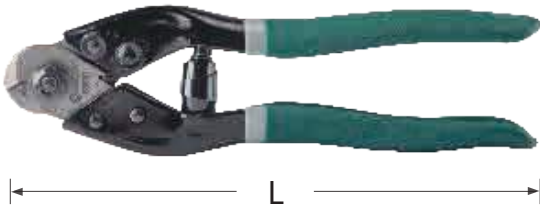
## Straight Pattern Tinner's Snips



No.	Spec.	L(mm)	Cold-Rolling Iron Plate (mm)	Stainless Steel Plate (mm)			
93302	8"	205	0.61	0.41	8	48	17.5
93303	10"	270	0.78	0.45	6	36	20.5
93304	12"	331	0.91	0.63	6	24	17.1
93305	14"	360	1.2	0.7	6	24	20.8
93306	16"	415	1.6	1	-	10	18.5

▲ No warranty as consumables

## 93601 Wire Rope Cutter 8"



- Blade made of Cr-V
- Capable of cutting single or multiple wire ropes, spring steel wires, cables, etc.

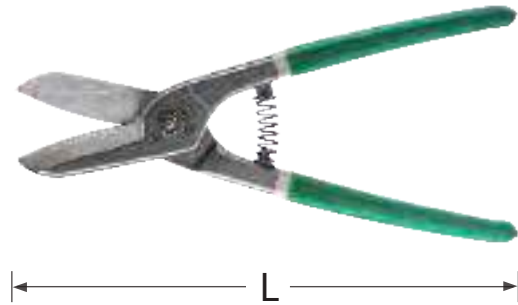
No.	L(mm)	Max. Cutting Capacity(mm)			
93601	190	Wire rope Ø5 Spring steel wire Ø1.6	6	36	14

▲ No warranty as consumables

## Straight Pattern Tinner's Snips



Retractable spring for easy storage

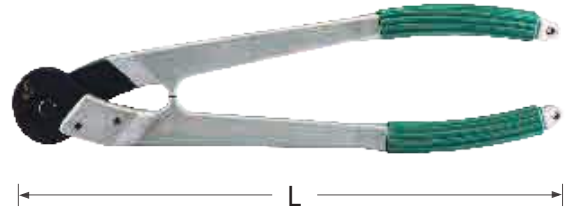


- With anti-slip screw which can prevent slipping during cutting
- Shot blasting on entire surface for aesthetic appearance
- The cutting edge hardened by high frequency quenching makes cutting smooth
- The whole item has undergone heat treatment, which makes it durable

No.	Spec.	L(mm)			
93201	8"	205	6	48	0.4
93202	10"	255	6	36	0.5
93203	12"	305	6	24	0.8
93204	14"	355	5	20	1

▲ No warranty as consumables

## 93603 Wire Rope Cutter 24"



- Blade made of Cr-V
- Capable of cutting single or multiple wire ropes and cables
- Handle made of aluminum alloy for lightness and durability

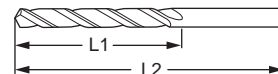
No.	L(mm)	Max. Cutting Capacity(mm)			
93603	625	Wire rope Ø12mm Cable 150mm <sup>2</sup>	1	4	10

▲ No warranty as consumables





## HSS Twist Drill



• Made of M15 high vanadium high-speed steel containing cobalt, the twist drill supports operation on alloy and non-alloyed materials below HB250 such as cast steel, cast iron, die-casting fitting, nonferrous metal, aluminum, rigid plastic.




### 10Pc. HSS Twist Drill

No.	Spec. (mm)	L1(mm)	L2(mm)			
52110	1.0	12	34	-	400	6.9
52111	1.1	14	36	-	400	7.3
52112	1.2	16	38	-	400	7.3
52113	1.3	18	40	-	400	7.7
52114	1.4	18	40	-	400	7.7
52115	1.5	20	43	-	400	8.1
52116	1.6	20	43	-	400	8.5
52117	1.7	22	46	-	400	8.9
52118	1.8	22	46	-	400	9.3
52119	1.9	22	46	-	400	9.3
52120	2.0	24	49	-	400	9.7
52121	2.1	24	49	-	400	9.7
52122	2.2	27	53	-	400	10.1
52123	2.3	27	53	-	400	10.1
52124	2.4	30	57	-	400	10.5
52125	2.5	30	57	-	400	10.9
52126	2.6	30	57	-	400	11.7
52127	2.7	33	61	-	400	12.1
52128	2.8	33	61	-	400	12.9
52129	2.9	33	61	-	400	13.7
52130	3.0	33	61	-	400	15.7
52131	3.1	36	65	-	400	17.3
52132	3.2	36	65	-	400	17.7
52133	3.3	39	65	-	400	18.1
52134	3.4	39	70	-	400	20.5
52135	3.5	39	70	-	400	21.7
52136	3.6	39	70	-	60	5.2
52137	3.7	39	70	-	60	5.2
52138	3.8	43	75	-	60	5.6
52139	3.9	43	75	-	60	5.7
52140	4.0	43	75	-	60	5.8
52141	4.1	43	75	-	60	6
52142	4.2	73	75	-	60	6.1
52143	4.3	47	80	-	60	6.6
52144	4.4	47	80	-	60	6.7
52145	4.5	47	80	-	60	6.8
52146	4.6	47	80	-	60	6.9
52147	4.7	47	80	-	60	7

No.	Spec. (mm)	L1(mm)	L2(mm)			
52148	4.8	52	86	-	60	7.6
52149	4.9	52	86	-	60	7.8
52150	5.0	52	86	-	60	8.1
52151	5.1	52	86	-	60	8.3
52152	5.2	52	86	-	60	8.5
52153	5.3	52	86	-	60	8.7
52154	5.4	57	93	-	60	9.7
52155	5.5	57	93	-	60	10
52156	5.6	57	93	-	60	10.3
52157	5.7	57	93	-	60	10.6
52158	5.8	57	93	-	60	10.9
52159	5.9	57	93	-	60	11.1
52160	6.0	57	93	-	60	11.3
52161	6.1	63	101	-	60	11.7
52162	6.2	63	101	-	60	12.3
52163	6.3	63	101	-	60	12.8
52164	6.4	63	101	-	60	13.3
52165	6.5	63	101	-	60	13.9
52166	6.6	63	101	-	60	14.2
52167	6.7	63	101	-	60	14.5
52168	6.8	69	109	-	60	15.3
52169	6.9	69	109	-	60	15.8
52170	7.0	69	109	-	60	16.3
52171	7.1	69	109	-	60	16.7
52172	7.2	69	109	-	60	17.1
52173	7.3	69	109	-	60	17.3
52174	7.4	69	109	-	60	17.7
52175	7.5	69	109	-	60	18.1
52176	7.6	75	117	-	50	16.8
52177	7.7	75	117	-	50	17.3
52178	7.8	75	117	-	50	17.7
52179	7.9	75	117	-	50	18.1
52180	8.0	75	117	-	50	18.5
52181	8.1	75	117	-	50	18.9
52182	8.2	75	117	-	50	19.3
52183	8.3	75	117	-	50	19.6
52184	8.4	75	117	-	50	19.8
52185	8.5	75	117	-	50	19.9

▲ No warranty as consumables

## 5Pc. HSS Twist Drill


No.	Spec. (mm)	L1(mm)	L2(mm)			
52186	8.6	81	125	-	30	7.7
52187	8.7	81	125	-	30	7.8
52188	8.8	81	125	-	30	7.9
52189	8.9	81	125	-	30	8.1
52190	9.0	81	125	-	30	8.2
52191	9.1	81	125	-	30	8.3
52192	9.2	81	125	-	30	8.5
52193	9.3	81	125	-	30	8.5
52194	9.4	81	125	-	30	8.7
52195	9.5	81	125	-	30	8.8
52196	9.6	87	133	-	30	9.4
52197	9.7	87	133	-	30	9.6
52198	9.8	87	133	-	30	9.7
52199	9.9	87	133	-	30	9.9
52200	10.0	87	133	-	30	10
52201	10.1	87	133	-	30	10.2
52202	10.2	87	133	-	30	10.3
52203	10.3	87	133	-	30	10.5
52204	10.4	87	133	-	30	10.6
52205	10.5	87	133	-	30	10.8
52206	10.6	87	133	-	30	10.9
52207	10.7	94	142	-	30	11.6
52208	10.8	94	142	-	30	11.9
52209	10.9	94	142	-	30	12.1
52210	11.0	94	142	-	30	12.4
52211	11.1	94	142	-	30	12.6
52212	11.2	94	142	-	30	12.9
52213	11.3	94	142	-	30	13.1
52214	11.4	94	142	-	30	13.4
52215	11.5	94	142	-	30	13.6
52216	11.6	94	142	-	30	13.7
52217	11.7	94	142	-	30	13.9
52218	11.8	94	142	-	30	14.2
52219	11.9	101	151	-	30	14.7
52220	12.0	101	151	-	30	14.9
52221	12.1	101	151	-	30	15.2
52222	12.2	101	151	-	30	15.4
52223	12.3	101	151	-	30	15.7
52224	12.4	101	151	-	30	15.9
52225	12.5	101	151	-	30	16.1
52226	12.6	101	151	-	30	16.3
52227	12.7	101	151	-	30	16.6
52228	12.8	101	151	-	30	16.8
52229	12.9	101	151	-	30	17
52230	13.0	101	151	-	30	17.2

▲ No warranty as consumables

## 52906 6Pc. HSS Twist Drill Set



- M15 high-speed steel with cobalt and high vanadium for increased service life
- Surface subjected to fine grinding after oxygen nitriding treatment for improved hardness and wear resistance
- Apex angle of 123° for higher cutting speed




No.	Spec. (mm)			
52906	2, 3, 4, 5, 6, 8	-	100	11.5

▲ No warranty as consumables

## 52910 10Pc. HSS Twist Drill Set



- M15 high-speed steel with cobalt and high vanadium for increased service life
- Surface subjected to fine grinding after oxygen nitriding treatment for improved hardness and wear resistance
- Apex angle of 123° for higher cutting speed




No.	Spec. (mm)			
52910	1, 2, 3, 4, 5, 6, 8, 9, 10	-	80	20.6

▲ No warranty as consumables

## 52919 19Pc. HSS Twist Drill Set

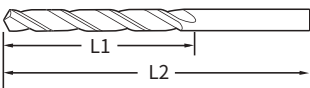


- M15 high-speed steel with cobalt and high vanadium for increased service life
- Surface subjected to fine grinding after oxygen nitriding treatment for improved hardness and wear resistance
- Apex angle of 123° for higher cutting speed

No.	Spec. (mm)			
52919	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10	-	30	21.1




▲ No warranty as consumables

## Cobalt Twist Drill






- Made of M35 high vanadium high-speed steel containing cobalt, the twist drill supports operation on alloy and non-alloyed materials below HB250 such as cast steel, cast iron, die-casting fitting, nonferrous metal, aluminum, rigid plastic.

**10Pc. Cobalt Twist Drill**

No.	Spec. (mm)	L1(mm)	L2(mm)			
52310	1.0	12	34	20	400	6.9
52315	1.5	20	40	20	400	8.1
52320	2.0	24	49	20	400	9.7
52325	2.5	30	57	20	400	10.9
52328	2.8	33	61	20	400	12.9
52330	3.0	33	61	20	400	16
52332	3.2	36	65	20	400	18
52333	3.3	36	65	20	400	18.4
52335	3.5	39	71	20	400	22
52338	3.8	43	75	10	60	5
52340	4.0	43	75	10	60	5.5
52342	4.2	43	75	10	60	5.9
52345	4.5	47	85	10	60	6.9
52348	4.8	52	86	10	60	7.9
52350	5.0	52	86	10	60	8.5
52352	5.2	52	86	10	60	9
52355	5.5	57	93	10	60	10.2
52360	6.0	57	93	10	60	11.5
52365	6.5	63	101	10	60	14.1
52368	6.8	69	109	10	60	14.9
52370	7.0	69	109	10	60	17.1
52375	7.5	69	109	10	60	19.2
52380	8.0	75	117	10	50	11.2
52385	8.5	75	117	10	50	12.2

-  No warranty as consumables

**5Pc. Cobalt Twist Drill**

No.	Spec. (mm)	L1(mm)	L2(mm)			
52390	9.0	81	125	5	30	8.9
52395	9.5	81	125	5	30	9.5
52400	10.0	87	133	5	30	11
52405	10.5	87	133	5	30	11.9
52410	11.0	97	142	5	30	13.5
52415	11.5	97	142	5	30	14.7
52420	12.0	101	151	5	30	16.3
52425	12.5	101	151	5	30	17.7
52430	13.0	101	151	5	30	19

- ⚠ No warranty as consumables

**52806 6Pc. Cobalt Twist Drill Set**

- Made of M35 high-speed steel with 5% cobalt
- Bit formed by grinding with precise size
- Anti-slipping with self-centering function of 135° double relief angles
- Fine thread for higher cutting speed and longer service life

No.	Spec. (mm)			
52806	2, 3, 4, 5, 6, 8	10	100	11

▲ No warranty as consumables

**52810 10Pc. Cobalt Twist Drill Set**

- Made of M35 high-speed steel with 5% cobalt
- Bit formed by grinding with precise size
- Anti-slipping with self-centering function of 135° double relief angles
- Fine thread for higher cutting speed and longer service life

No.	Spec. (mm)			
52810	1, 2, 3, 4, 5, 6, 8, 9, 10	10	80	21

▲ No warranty as consumables

**52819 19Pc. Cobalt Twist Drill Set**

- Made of M35 high-speed steel with 5% cobalt
- Bit formed by grinding with precise size
- Anti-slipping with self-centering function of 135° double relief angles
- Fine thread for higher cutting speed and longer service life

No.	Spec. (mm)			
52819	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10	5	40	19

▲ No warranty as consumables

**Grinding Wheel**

- High grinding speed
- 3-layer glass fiber mesh, with high safety and revolving strength meeting European standard
- Suitable for mainstream drive tools in the market
- Surface grinding
- Welding scar cleaning
- Chamfering and deburring

No.	OD (mm)	ID (mm)	Thickness (mm)	Minimum order quantity (pc)			
55200	100	16.00	6.00	200	25	200	2.9
55220	100	16.00	4.00	200	25	200	1.4
55221	100	16.00	6.00	200	25	200	2.9
55222	125	22.23	6.00	100	25	100	4.4
55223	150	22.23	6.00	100	25	100	6.4
55224	180	22.23	6.00	50	10	50	3.8

▲ No warranty as consumables

**Cutting-Off Wheel**

- Fast cutting with less burr and less deformation
- High safety and revolving strength meeting European standard
- Capable of cutting metal plate and thin-wall profiles with thickness no more than 1.6mm
- Capable of cutting solid materials and profiles with standard thickness
- Rail cutting blades for cutting railway and subway tracks

No.	OD (mm)	ID (mm)	Thickness (mm)	Minimum order quantity (pc)			
55002	105	16.00	1.00	400	25	400	0.6
55010	105	16.00	1.20	600	25	600	0.6
55015	355	25.40	2.60	25	5	25	3.2
55018	400	32.00	3.00	20	5	20	4.8
55032	100	16.00	1.20	600	25	600	0.6
55033	100	16.00	2.50	400	25	400	1.1
55040	105	16.00	1.20	600	25	600	0.6
55041	107	16.00	1.20	600	25	600	0.6
55046	125	22.23	1.60	400	25	400	1.1
55049	125	22.23	3.00	200	25	200	2.1
55050	150	22.23	1.60	200	25	200	1.6
55053	150	22.23	3.00	150	25	150	3.3
55054	180	22.23	1.60	200	25	200	2.6
55057	180	22.23	3.00	100	25	100	4.8
55070	300	25.40	3.00	25	5	25	2.8
55075	355	25.40	3.00	25	5	25	3.8
55080	400	32.00	3.20	20	5	20	4.8
55090	355	25.40	4.00	10	5	10	4.5

▲ No warranty as consumables



## Flap Discs



- Different particle sizes available for various grinding requirements on surface smoothness
- Soft grinding with low vibration and low noise
- Low operating pressure
- Seven-layer fiber back disk with high safety, suitable for mainstream drive tools in the market
- Surface grinding with grain sizes of 40, 60, 80 and 120 meshes available
- Weld bead cleaning
- Chamfering and deburring

No.	OD (mm)	ID (mm)	Number of Mesh (es)	Minimum order quantity (pc)			
55401	100	16	40	200	10	200	13.8
55402	100	16	60	200	10	200	13.7
55403	100	16	80	200	10	200	11.9
55404	100	16	120	200	10	200	11.2
55411	125	22.23	40	100	10	100	12.1
55412	125	22.23	60	100	10	100	11.4
55413	125	22.23	80	100	10	100	10.3
55414	125	22.23	120	100	10	100	9.7
55421	180	22.23	40	50	5	50	11.6
55422	180	22.23	60	50	5	50	11.6
55423	180	22.23	80	50	5	50	10.2
55424	180	22.23	120	50	5	50	9.8

▲ No warranty as consumables

## Zirconia Flap Discs



- Applicable for various particle sizes and various grinding requirements of workpiece surfaces
- Soft grinding with low vibration and low noise
- 10-layer fiber back plate structure with high safety, suitable for mainstream drive tools with high power in the market
- Surface grinding with grain sizes of 40, 60, 80 and 120 meshes available
- 40 and 60 meshes for grinding aluminum alloy workpiece
- Suitable for grinding surface and edge of aluminum alloy, stainless steel, chromium and nickel steel, low alloy steel, high alloy steel and cast iron, and cleaning welding scar

No.	Spec. (mm)	OD (mm)	ID (mm)	Number of Mesh (es)	Minimum order quantity (pc)			
55501	125×P40×22.23	125	22.23	40	100	10	100	0.5
55502	125×P60×22.23	125	22.23	60	100	10	100	0.5
55503	125×P80×22.23	125	22.23	80	100	10	100	0.5
55504	125×P120×22.23	125	22.23	120	100	10	100	0.5
55505	180×P40×22.23	180	22.23	40	80	10	80	0.7
55506	180×P60×22.23	180	22.23	60	80	10	80	0.6
55507	180×P80×22.23	180	22.23	80	80	10	80	0.6
55508	180×P120×22.23	180	22.23	120	80	10	80	0.6

▲ No warranty as consumables

## Flap Discs



### Application

- Flocked on the back for quick sticking with pneumatic or electric grinding machine
- Meeting surface polishing requirements of metal surface, putty, paint, wood, plastic and various composite materials

### Recommendation

- Particle size of P80-P240 used with grinder with an eccentricity of 5mm for rough grinding surfaces of putty, metal or wood
- Particle size of P320 - P600 used with grinder with an eccentricity of 2.5mm for fine grinding before spraying

### Self-Adhesive Discs

No.	Spec. (mm)	Package (pc/ inner box)	Package (pc/case)	Minimum order quantity/case			
55602	Ø125×P80	100	1000	1000	100	1000	1
55604	Ø125×P120	100	1000	1000	100	1000	1
55606	Ø125×P180	100	1000	1000	100	1000	1
55608	Ø125×P240	100	1000	1000	100	1000	1
55610	Ø125×P320	100	1000	1000	100	1000	1
55611	Ø125×P400	100	1000	1000	100	1000	1
55613	Ø125×P600	100	1000	1000	100	1000	1



### Self-Adhesive Discs, 6 Hole

No.	Spec. (mm)	Package (pc/ inner box)	Package (pc/case)	Minimum order quantity/case			
55622	Ø125×P80	100	1000	1000	100	1000	1
55624	Ø125×P120	100	1000	1000	100	1000	1
55626	Ø125×P180	100	1000	1000	100	1000	1
55628	Ø125×P240	100	1000	1000	100	1000	1
55630	Ø125×P320	100	1000	1000	100	1000	1
55631	Ø125×P400	100	1000	1000	100	1000	1
55633	Ø125×P600	100	1000	1000	100	1000	1



### Self-Adhesive Discs, 15 Hole

No.	Spec. (mm)	Package (pc/ inner box)	Package (pc/case)	Minimum order quantity/case			
55662	Ø150×P80	100	1000	1000	100	1000	1
55664	Ø150×P120	100	1000	1000	100	1000	1
55666	Ø150×P180	100	1000	1000	100	1000	1
55668	Ø150×P240	100	1000	1000	100	1000	1
55670	Ø150×P320	100	1000	1000	100	1000	1
55671	Ø150×P400	100	1000	1000	100	1000	1
55673	Ø150×P600	100	1000	1000	100	1000	1

▲ No warranty as consumables



## Circular Saw Blades



### Cutting wood

- Ideal for cutting all kinds of softwood, hardwood, plywood, MDF etc.
- Cuts material up to 22mm depth
- Alternating tooth design for fast, effortless operation
- Suitable for matching angle grinders, portable circular saws, etc.

No.	Spec. (mm)	Number of Teeth	Variable Diameter Ring (mm)	Package (pc/case)			
53601	Ø110×1.6×20	30T	16	100	25	100	0.5
53602	Ø110×1.6×20	40T	16	100	25	100	0.5
53611	Ø180×2.1×25.4	40T	20	50	-	50	0.7
53612	Ø180×2.1×25.4	60T	20	50	-	50	0.7
53621	Ø230×2.4×25.4	60T	-	25	-	25	0.7
53622	Ø230×2.4×25.4	80T	-	25	-	25	0.7
53631	Ø254×2.5×25.4	60T	-	20	-	20	0.7
53632	Ø254×2.5×25.4	80T	-	20	-	20	0.7



### Cutting aluminum

- TCG tooth design, ideal for cutting applications in aluminum material, PVC, composite board, etc.
- Industrial grade carbide tips with hardness ≥93HRA for increased toughness and durability
- Laser cut expansion slots vents trap noise and vibration
- Cuts aluminum up to 3mm thick, adds oil coolant while cutting for better performance

No.	Spec. (mm)	Number of Teeth	Variable Diameter Ring (mm)	Package (pc/case)			
53633	Ø254×2.6×25.4	100T	-	20	-	20	0.7
53634	Ø254×2.6×25.4	120T	-	20	-	20	0.7
53641	Ø305×2.8×30	100T	25.4	10	-	10	0.7
53642	Ø305×2.8×30	120T	25.4	10	-	10	0.7
53651	Ø355×3.2×30	100T	25.4	55	-	5	0.7
53652	Ø355×3.2×30	120T	25.4	25	-	5	0.7



### Cutting metal

- Ideal for cutting ferrous metal such as channel steel, square steel, I-beam, angle iron, square pipe, hollow galvanized round pipe, RODS etc., compatible with cutting of other copper and aluminum pipes
- 0° rake design for shock absorption during cutting various sorts of metal
- Features laser cut blanks with stabilizer for reduced noise and vibration.

No.	Spec. (mm)	Number of Teeth	Package (pc/case)			
53666	Ø305×2.6×25.4	60T	5	-	5	0.6

▲ No warranty as consumables

## 5pc Reciprocating Saw Blade



### Cutting wood

- 93320S: For wood materials, ideal for straight cutting hard and soft wood, chipboard, plywood, plastic (6-100mm), Fast and plunge cut.
- 93321S: For wood materials, apply for fast cutting coarse wood free of nails (15-190mm), pruning green wood (dia. <190mm), fuel wood (dia. 15-190mm)

No.	Spec.	Minimum order quantity (set/case)			
93320S	152×19.0×1.30mm 4.2mm/6T	90	6	90	11.9
93321S	240×19.0×1.30mm 5.0mm/5T	60	6	90	20.6



### Cutting wood with nails

- 93325S: For wood & metal materials, apply for cutting wood with nails/metal, chipboards (10-100mm), solid plastic and glass fibre reinforced plastics (8-50mm), curve cut.
- 93326S: For wood & metal materials, apply for cutting wood with nails/metal, chipboards (10-250mm), plastics and glass fibre reinforced plastics, profiles.
- 93327S: For wood & metal materials, apply for cutting wood with nails/metal (5-250mm), metal sheet, aluminium profiles (3-10mm), glass fibre reinforced plastics (-250mm).

No.	Spec.	Minimum order quantity (set/case)			
93325S	152×18.0×1.25mm 4.2mm/6T	90	6	90	13.6
93326S	300×19.0×1.25mm 4.2mm/6T	48	6	60	17.7
93327S	300×19.0×0.90mm 1.8-2.6mm/10-14T	60	6	60	15.2



### Cutting metal

- 93330S: For wood & metal materials, apply for cutting wood with nails/metal, pallets (4-100mm), medium thick plate (2-8mm), pipe and profiles (5-100mm).
- 93331S: For metal materials, apply for straight cutting thick sheet metal (3-8mm), solid pipes and profiles (dia. 5-100mm)
- 93332S: For metal materials, apply for straight cutting thick sheet metal (1.5-4mm), pipes and profiles (dia. 5-100mm)
- 93333S: For metal materials, apply for straight cutting thick sheet metal (3-8mm), solid pipes and profiles (dia. 10-175mm) Flexible flush and fast cut.
- 93334S: For metal materials, apply for straight cutting thin sheet metal (1.5-4mm), pipes and profiles (dia. 5-175mm). Flexible flush cut.
- 93335S: Apply for cutting metal sheet (thickness: 4-12mm), pipe profiles (dia. <175mm)
- 93336S: For wood and metal materials. Apply for straight cutting wood with nails/metal, metal sheet (2-10mm), pipes and profiles (dia. <175mm), flexible flush cut.

No.	Spec.	Minimum order quantity (set/case)			
93330S	150×19.0×0.90mm 14-34mm/8-18T	90	6	90	13.8
93331S	150×19.0×0.90mm 1.8mm/14T	90	6	90	13.8
93332S	150×19.0×0.90mm 14mm/18T	90	6	90	13.8
93333S	228×19.0×0.90mm 1.8mm/14T	90	6	90	19.9
93334S	228×19.0×0.90mm 14mm/18T	90	6	90	19.9
93335S	228×25.4×110mm 2.5-3.2mm/8-10T	48	6	90	22.5
93336S	228×19.0×1.25mm 1.8-2.6mm/10-14T	48	6	90	22.9

▲ No warranty as consumables



## 93473 Wire Stripping Knife, Straight Blades



- With sharp & durable ultra-finished blade
- Used for handling wires and cables in electric power industry and related industries

No.			
93473	10	40	5.7

▲ No warranty as consumables

## 93474 Wire Stripping Knife, Curved Blades



- With sharp & durable ultra-finished blade
- Including sickle shaped blade, with sliding guide on the cutting tip, without damaging cable core.
- Used for handling wires and cables in electric power industry and related industries

No.			
93474	10	40	5.9

▲ No warranty as consumables

## 93105 Electricians Scissors 7"



- The blade is serrated, sharp and can prevent slipping
- With special anti-slip groove for easy wire cutting
- Hardness up to HRC55+/-3
- Designed with small cutting edge for cutting hard objects
- With self-tensing spring, much easier to use
- Adjustable bolted joint for easy maintenance

### Scope of application:

- 4-conductor copper cable, Fishing line
- Φ0.5mm The following soft wire
- Leather, Cardboard, plastic sheet, thin aluminum sheet
- Do not use it to cut the steel wire.

No.			
93105	10	40	7.8

▲ No warranty as consumables

## 93106 Electricians Scissors 8"



- Precision-machined blade, being sharp and durable
- Two-tone ergonomic handle for skid resistance and comfort
- Small-angle cutting edge for cutting hard objects
- Self-tension spring for convenient operation
- Adjustable bolted joint for easy maintenance

No.			
93106	10	40	8.2

▲ No warranty as consumables



### 93107 Electricians Scissors, Curved Blades 7"



- Precision-machined blade, being sharp and durable
- Two-tone ergonomic handle for skid resistance and comfort
- Small-angle cutting edge for cutting hard objects
- Self-tension spring for convenient operation
- Adjustable bolted joint for easy maintenance

No.			
93107	10	40	8.2

▲ No warranty as consumables

### 93109 Heavy Duty Electricians Cable Cutter 7"



- Ultra-precision blade, sharp and durable
- 10mm copper-alumi
- Hardness up to HRC55+/-3
- With self-tensing spring, much easier to use
- Adjustable bolted joint for easy maintenance

#### Scope of application:

- Cutting capacity: Mas  $\Phi$ 10mm copper-alumi cable

No.			
93109	10	40	8.2

▲ No warranty as consumables

### 93108 Electricians Coaxial Cable Cutter 7"



- Ultra-precision blade, sharp and durable
- 10mm copper-alumi
- Hardness up to HRC55+/-3
- With self-tensing spring, much easier to use
- Adjustable bolted joint for easy maintenance

#### Scope of application:

- Cutting capacity: Mas  $\Phi$ 10mm copper-alumi cable

No.			
93108	10	40	7.9

▲ No warranty as consumables

### 93110 Electricians Diagonal Cutter 7"



- With sharp & durable ultra-finished blade
- Suitable for electronic factory operation
- Self-stretching spring, more convenient to use

#### Scope of application:

- 4-conductor copper cable
- $\Phi$ 0.5mm The following soft wire
- Plastic nozzle
- Do not use it to cut the steel wire.

No.			
93110	10	40	7.4

▲ No warranty as consumables



## 93125 Powerful Multi-Purpose Electricians Scissors



- Thickened titanium-plated blade for heavy-duty cutting
- Serrated cutter back capable of plastic tube boring
- Special jaw for cutting various wires
- Capable of clamping in the middle for tightening wire nut

No.			
93125	4	24	4.2

▲ No warranty as consumables

## 93128 Rubber Grip Long-Blade Scissors



- Thickened titanium-plated blade for heavy-duty cutting
- Offset handle keeping the handle above the material to be cut for safety
- Rubber-coated handle for comfort

No.			
93128	4	24	7.1

▲ No warranty as consumables

## 93126 Rubber Grip Heavy Duty Scissors



- Thickened titanium-plated blade for heavy-duty cutting
- Concealed spring facilitating operation and avoiding jamming
- Rubber-coated handle for comfort

No.			
93126	4	24	6.1

▲ No warranty as consumables

## 93129 Rubber Grip Long-Blade Heavy Duty Scissors



- Thickened titanium-plated blade for heavy-duty cutting
- Concealed spring facilitating operation and avoiding jamming
- Pass-thru metal handle for high strength
- Enlarged rubber-coated handle for comfort

No.			
93129	4	24	8.5

▲ No warranty as consumables

## 93127 General Long-Blade Scissors



- Lengthen the cutting edge, cutting more labor-saving
- Symmetrical handle, both right and left hands are convenient to use

No.			
93127	4	24	5

▲ No warranty as consumables

## 93401 Aluminum Hack Saw 12"



- Locking force of saw bow up to 90 kg
- With durable aluminum alloy handle
- Applied to cut horizontally for facilitating straight sawing

No.			
93401	6	36	24

▲ One piece of 93407 bimetal flexible saw blade is included for free, No warranty as consumables



### 93402 Heavy Duty Aluminum Hack Saw 12"



- With I-beam design, the locking force of the saw bow can be up to 120 kg
- Rubberized aluminum alloy handles in the front and rear make gripping comfortable.
- Double saw blade locking mechanism, which shortens the locking time
- At most 5 saw bows can be stored in its head, and it can be used with the reciprocating saw blade
- Applied to cut at 45° for facilitating straight sawing

No.			
93402	6	24	20

▲ One piece of 93407 bimetal flexible saw blade is included for free, No warranty as consumables

### 93413 Wood Handle Hacksaw 12"



- Its body is made of solid steel strip, which makes it sturdy and durable. It has passed the 115 kg tensile test
- Tensioner and butterfly bolts for fastening the saw blade have undergone heat treatment
- With comfortable and beautiful beech handles
- SATA bimetallic flexible saw blade or HSS saw blade is recommended

No.	Spec.			
93413	12"	6	24	18.3

▲ No warranty as consumables

### 93404 Mini Hacksaw 6"



- Injection molded nylon handle, comfortable and durable
- Please use saw blade 93411#

No.	Spec.			
93404	6"(150mm)	-	24	4.3

▲ The included 93411# saw blade is consumable, and is not covered under SATA lifetime warranty

### 93414 Adjustable Hacksaw 10"/12"



- This item is designed to be retractable, lightweight and flexible, and can be installed with 10" and 12" saw blade, which make it very portable
- Tensioner and butterfly nut for fastening the saw blade have undergone heat treatment
- SATA Bi-Metal Hacksaw blades or Hss Hacksaw are recommended.

No.	Spec.			
93414	10"/12"	6	24	15.3

▲ No warranty as consumables

### 93405 Aluminum Hacksaw 12"



- Including a bimetallic flexible saw blade 93407#
- With comfortable handle

No.	Spec.			
93405	12"(300mm)	-	24	15.9

▲ The included 93407# saw blade is consumable, and is not covered under SATA lifetime warranty

### 12" HSS Hacksaw Blade



- The whole saw blade is made of imported high-speed steel, which makes it sharp, strong and can provide smooth cutting
- The ultra-finished teeth provide straight and quick sawing
- It has undergone heat treatment by the vacuum furnace, thus its overall hardness can be up to HRC63-66
- It applies to cut metals such as the stainless steel, alloy steel, bearing steel, carbon steel, spring steel, cast iron, aluminum and copper

No.	Spec.			
93416	18 Teeth	100	1000	18.3
93417	24 Teeth	100	1000	18.1
93418	32 Teeth	100	1000	18.1

▲ No warranty as consumables





## 12" Bi-Metal Hacksaw Blade



- The teeth is made of high-speed steel, and the back edge are made of high quality spring steel and welded by the electron beam.
- It has excellent elasticity and strong & sharp teeth, thus it can provide smooth cutting and good toughness
- Note: Please wear PPE such as safety goggles during use

No.	Spec.	L(mm)			
93406	18 Teeth	310	100	500	9.5
93407	24 Teeth	310	100	1000	18.9
93408	32 Teeth	310	100	500	9.5

▲ No warranty as consumables

## 93411 3Pc. Mini Hacksaw Blades 6"



- 3pc. display packed
- Resilient, strong and sharp sawtooth for smooth cutting

No.	L(mm)	Including			
93411	152	3PC	12	144	4.5

▲ No warranty as consumables

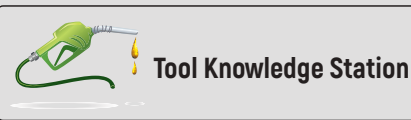
## 93422A Plastic Snap-Off Knife, 8-Point, 18x100mm



- Manufactured by mould injection with engineering plastics
- (ABS), with stainless steel knife pouch. Durable
- Please use SATA 93433A 93437 blades made of Japanese
- imported SK2 material, which are sharp and durable

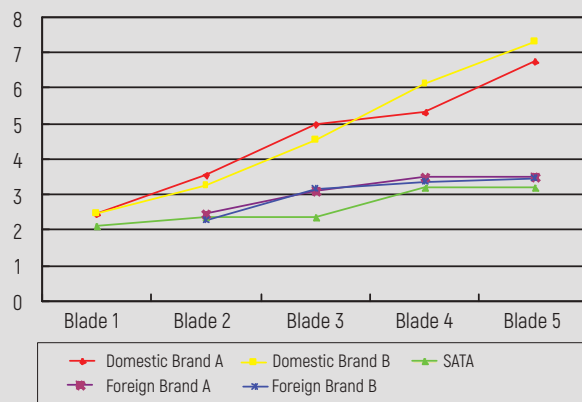
No.			
93422A	10	80	5.5

▲ No warranty as consumables



### Characteristics of saw blades:

- SATA bimetal saw blade: Teeth made of quality high-speed steel for high cutting strength and long service life. Back material made of alloy spring steel for good toughness, elasticity and safety. Vacuum furnace heat treatment for improved mechanical properties.
- SATA high-speed steel saw blade: Made of imported high-speed steel for hardness and high strength, especially suitable for folding saw bow, with high cutting efficiency and flat cutting plane and without twist or deformation. Subjected to vacuum furnace heat treatment to maximize the mechanical properties; pin holes at both ends of the saw blade tempered twice for longer service life and higher safety.



- Cutting efficiency of HSS saw blade (longitudinal axis is the time spent in cutting test bar (HRC37) (unit: minute), and horizontal axis is the number of cutting)

### Saw Blade Selection

Material	Selection number of teeth for over 5mm	Selection number of teeth for 2-5mm	Selection number of teeth for less than 2mm
Hard Plastic	18	18-24	24-32
Hard Rubber	18	18	24
Copper	18	18-24	24-32
Brass	18	24-32	32
Aluminum	18	18-24	24-32
Cast Iron	18	18-24	24-32
Low Carbon Steel	18	24	32
High Alloy-structural Steel	24	24	32
High-Speed Steel	24	24	32
Stainless Steel	18	24	32

**93481 Rubber Grip Snap-Off Knife, 13-Point, 9x80mm**

**SK2**  
Black Blade  
9mm



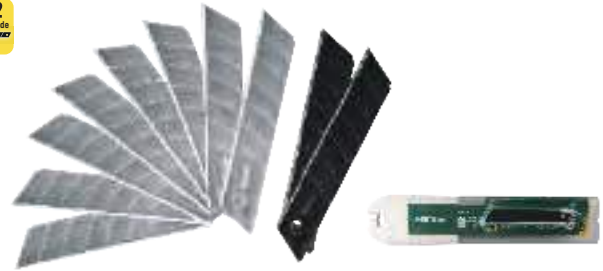
- The dual materials TPR/ABS handle
- The thickened stainless steel blade cover to provide, higher strength
- Please use SATA 93432A blades made of Japanese imported SK2 material, which are sharp and durable

No.			
93481	12	72	4.5

▲ No warranty as consumables

**93438 10Pc. Spare Blades, 7-Point, 25x125mm**

**SK2**  
Black Blade  
25mm



- Made of SK2 material imported from Japan, being sharp and durable
- 10 blades in one package, 2 in black and 8 in silver
- Suitable for SATA 93483 box cutter

No.			
93438	12	72	16

▲ No warranty as consumables

**93482 Rubber Grip Snap-Off Knife, 8-Point, 18x100mm**

**SK2**  
Black Blade  
18mm



- The dual materials TPR/ABS handle
- The thickened stainless steel blade cover to provide higher strength
- Please use SATA 93433A, 93737 blades made of Japanese imported SK2 material, which are sharp and durable

No.			
93482	12	72	9.2

▲ No warranty as consumables

**93485 Heavy Duty Utility Knife**

**SK2**  
Black Blade  
18mm



- Zinc alloy housing, TPR/ABS material handle
- 5 pieces of spare blades
- Please use SATA blades 93434A, 93435A made of Japanese imported material
- SK2, which makes them sharp and durable

No.			
93485	8	48	10.8

▲ No warranty as consumables

**93483 Rubber Grip Snap-Off Knife, 7-Point, 25x125mm**

**SK2**  
Black Blade  
25mm



- The dual materials TPR/ABS handle
- The thickened stainless steel blade cover to provide higher strength
- Please use SATA 93438 blades made of Japanese imported SK2 material, which are sharp and durable

No.			
93483	6	36	8.7

▲ No warranty as consumables

**93486 Folding Utility Knife**

- Durable zinc alloy housing, TPR/ABS material
- Unique blade replacer, which makes blade replacement convenient
- Small and portable foldable body
- Please use SATA blades 93434A, 93435A made of Japanese imported material
- SK2, which makes them sharp and durable

No.			
93486	8	48	8.8

▲ No warranty as consumables



## 93424A Zinc Alloy Snap-Off Knife, 13-Point, 9x80mm



- Cutter body made of zinc alloy with baking varnish on surface, and stainless steel cutter socket, being solid and durable
- SATA 93432A blades made of SK2 material imported from Japan, being sharp and durable

No.			
93424A	12	72	4.5

▲ No warranty as consumables

## 93425A Zinc Alloy Snap-Off Knife, 8-Point, 18x100mm



- Cutter body made of zinc alloy with baking varnish on surface, and stainless steel cutter socket, being solid and durable
- SATA 93432A blades made of SK2 material imported from Japan, being sharp and durable

No.			
93425A	8	48	6.2

▲ No warranty as consumables

## 93426 Plastic Snap-Off Knife, 13-Point, 9x80mm



- Manufactured by mould injection with engineering plastics(ABS),with stainless steel knife pouch.Durable
- Please use SATA 93432A blades made of Japanese imported
- SK2 material,which are sharp and durable

No.			
93426	10	80	2.6

▲ No warranty as consumables

## 93427 Rubber Grip Snap-Off Knife, 13-Point, 9x80mm



- Stainless steel cutter socket coated with soft rubber (TPR) and engineering plastic (ABS) two-tone composite materials for comfort
- Automatic blade loading for simple and safe blade replacement
- Capable of storing 3 9mm box cutter blades, suitable for narrow space and precision cutting
- SATA 93432A blades made of SK2 material imported from Japan, being sharp and durable

No.			
93427	12	72	4

▲ No warranty as consumables

## 93432A 10Pc. Spare Blades, 13-Point, 9x80mm

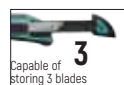


- Made of SK2 material imported from Japan, being sharp and durable
- 10 blades in one package, 2 in black and 8 in silver
- Suitable for SATA 93424A, 93426 and 93427 box cutters

No.	Number of blades	L(mm)	W(mm)	Thickness (mm)	Number of sections			
93432A	10 pc	80	9	0.4	13	10	120	2.9

▲ No warranty as consumables

## 93428 Rubber Grip Snap-Off Knife, 8-Point, 18x100mm



- Stainless steel cutter socket coated with soft rubber (TPR) and engineering plastic (ABS) two-tone composite materials for comfort
- Automatic blade loading for simple and safe blade replacement
- Capable of storing three 18mm box cutter blades
- SATA 93433A, 93436 and 93437 blades made of SK2 material imported from Japan, being sharp and durable

No.			
93428	12	72	9.5

▲ No warranty as consumables

**93429 Plastic Snap-Off Knife, 8-Point, 18x100mm**

- Manufactured by mould injection with engineering plastics(ABS), with stainless steel knife pouch. Durable
- Please use SATA 93433A, 93437 blades made of Japanese imported SK2 material, which are sharp and durable:

No.			
93429	10	80	5.6

▲ No warranty as consumables

**93430 Industrial Snap-Off Knife, 8-Point, 18x100mm**

- Zinc alloy cutter body with baking varnish on surface, and stainless steel cutter socket for comfort
- Rotary knob provided on the head to lock the blade for precise and professional cutting
- Automatic blade loading for simple and safe blade replacement
- Capable of storing five 18mm box cutter blades
- SATA 93433A, 93436 and 93437 blades made of SK2 material imported from Japan, being sharp and durable

No.			
93430	8	48	11.4

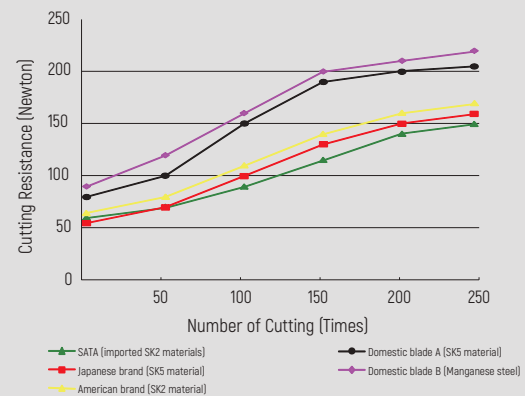
▲ No warranty as consumables

**93433A 10Pc. Spare Blades, 8-Point, 18x100mm**

- Made of SK2 material imported from Japan, being sharp and durable
- 10 blades in one package, 2 in black and 8 in silver
- Suitable for SATA 93424A, 93426 and 93427 box cutters

No.	Number of blades	L(mm)	W(mm)	Thickness (mm)	Number of sections			
93433A	10 pc	100	18	0.5	8	10	80	6.8

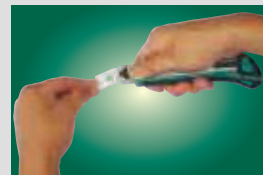
▲ No warranty as consumables

**SATA世达 Blade Performance Advantage****Blade features:**

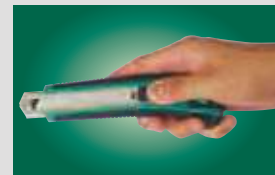
- Sharp
  - Made from SK2 material imported from Japan for high blade hardness
  - Cutting edge subjected to special grinding process for improved sharpness and durability
- Economical
  - Improved service life compared with similar products in the market

**Note:**

- 1) Wear safety goggles when using the blades
- 2) Return the blade to the handle after use
- 3) Dispose used blades properly
- 4) Keep the blade out of reach of children

**Schematic diagram of automatic blade change**

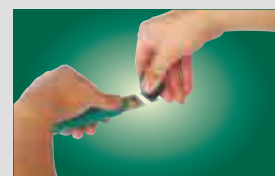
- ① Push the button to the top and remove the blade



- ② Push the button back to the bottom



- ③ Push out the button once again to replace the blade automatically



- ④ Unplug the back cover, insert the blade into the groove of the back cover, and break it along the crease (Note: break one section at one time to prevent the blade from flying off)



## 93436 10Pc. Spare Blades, 8-Point, 18x100mm



- Made of SK2 material imported from Japan, being sharp and durable
- 10 blades in one package
- Simple box package, being cost-effective
- Suitable for SATA 93422A, 93425A, 93428, 93429 and 93430 box cutters

No.	Number of blades	L(mm)	W(mm)	Thickness (mm)	Number of sections			
93436	10 pc	100	18	0.5	8	30	180	13.4

▲ No warranty as consumables

## 93437 10Pc. Spare Blades, 15-Point, 18x100mm



- Made of SK2 material imported from Japan, being sharp and durable
- 15-section blade for longer service life
- 10 blades in one package, 2 in black and 8 in silver
- Suitable for 93422A, 93425A, 93428, 93429 and 93430 box cutters

No.	Number of blades	L(mm)	W(mm)	Thickness (mm)	Number of sections			
93437	10 pc	100	18	0.5	15	10	80	6.8

▲ No warranty as consumables

## 93441 Zinc Alloy Utility Knife



- Zinc alloy cutter body with baking varnish on surface, with forward center of gravity for convenience and labor saving
- Capable of storing 5 trapezoidal blades
- SATA 93434A and 93435A blades made of SK2 material imported from Japan, being sharp and durable

No.			
93441	8	48	74

▲ No warranty as consumables

## 93442 Zinc Alloy Safety Utility Knife



- Zinc alloy cutter body with baking varnish on surface and coated with quality soft rubber (TPR) for comfort
- Automatic blade recycling for safety and reliability
- Capable of storing 5 trapezoidal blades
- SATA 93434A and 93435A blades made of SK2 material imported from Japan, being sharp and durable

No.			
93442	8	48	8.1

▲ No warranty as consumables

## 93443 Heavy Duty Zinc Alloy Utility Knife

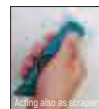


- Zinc alloy cutter body with baking varnish on surface and coated with quality soft rubber (TPR) for comfort
- Capable of storing 5 trapezoidal blades
- SATA 93434A and 93435A blades made of SK2 material imported from Japan, being sharp and durable

No.			
93443	8	48	9.6

▲ No warranty as consumables

## 93446 Multi-purpose Zinc Alloy Utility Knife



- Zinc alloy cutter body with baking varnish on surface and rotary knob for quick access to spare blades
- More functions available
- Acting as scraper with tail fixing point
- Capable of storing 5 trapezoidal blades
- SATA 93434A and 93435A blades made of SK2 material imported from Japan, being sharp and durable

No.			
93446	8	48	74

▲ No warranty as consumables





## 93434A 10Pc. Spare Utility Blades

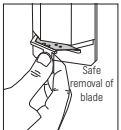


- Made of SK2 material imported from Japan, being sharp and durable
- 10 blades in one package
- Safety blade box for easy access and avoiding hand injury
- Suitable for SATA 93441, 93442, 93443 and 93446 box cutters

No.	Number of blades	L(mm)	W(mm)	Thickness (mm)			
93434A	10 pc	60	19	0.6	18	72	4.4

▲ No warranty as consumables

## 93435A 100Pc. Spare Utility Blades



- Made of SK2 material imported from Japan, being sharp and durable
- 10 blades in one package
- Safety blade box for easy access and avoiding hand injury
- Suitable for SATA 93441, 93442, 93443 and 93446 box cutters

No.	Number of blades	L(mm)	W(mm)	Thickness (mm)			
93435A	100 pc	60	19	0.6	12	24	11.1

▲ No warranty as consumables

## 03901 5Pc. Mini File Set, 185mm



- Imported from Japan in original packing

No.	Sectional Form	Product Name
03923		Mini Flat Second Cut File
03943		Mini Half Round Second Cut File
03963		Mini Square Second Cut File
03975		Mini Round Second Cut File
03995		Mini Three Square Second Cut File

No.	Spec. (mm)			
03901	Mini File 185	5	60	9

▲ No warranty as consumables

## 03902 5Pc. Mini File Set, 200mm



- Imported from Japan in original packing

No.	Sectional Form	Product Name
03924		Mini Flat Second Cut File
03944		Mini Half Round Second Cut File
03964		Mini Square Second Cut File
03976		Mini Round Second Cut File
03996		Mini Three Square Second Cut File

No.	Spec. (mm)			
03902	Mini File 200	5	60	13

▲ No warranty as consumables






## Flat Bastard Cut File

Sectional Form 



- The product is made of special carbon tool steel, with file body hardness up to 63-66HRC
- File teeth have uniform form and depth, ensuring high filing efficiency 1-Bastard cut 2-Second cut 3-Smooth cut

No.	Spec.	L(mm)			
03911	6"	262	12	96	11.4
03912	8"	315	12	96	16.3
03913	10"	365	12	72	18.8
03914	12"	430	12	48	21.2




▲ No warranty as consumables

## Flat Second Cut File

Sectional Form 



- The product is made of special carbon tool steel, with file body hardness up to 63-66HRC
- File teeth have uniform form and depth, ensuring high filing efficiency 1-Bastard cut 2-Second cut 3-Smooth cut

No.	Spec.	L(mm)			
03915	6"	262	12	96	11.4
03916	8"	315	12	96	15.9
03917	10"	365	12	72	18.8
03918	12"	430	12	48	21.6




▲ No warranty as consumables

## Flat Smooth Cut File

Sectional Form 



- The product is made of special carbon tool steel, with file body hardness up to 63-66HRC
- File teeth have uniform form and depth, ensuring high filing efficiency 1-Bastard cut 2-Second cut 3-Smooth cut





















No.	Spec.	L(mm)			
03919	6"	262	12	96	11.4
03920	8"	315	12	96	16.1
03921	10"	365	12	72	18.8
03922	12"	430	12	48	21.2

▲ No warranty as consumables

## Mini File (Single Piece)



• Imported from Japan in original packing

No.	Sectional Form	Product Name			
03923		Mini Flat Second Cut File 185mm	10	250	9
03924		Mini Flat Second Cut File 200mm	10	250	12.5
03925		Mini Flat Second Cut File 215mm	10	250	6.3
03926		Mini Flat Smooth Cut File 185mm	10	250	8.7
03943		Mini Half Round Second Cut File 185mm	10	250	9.2
03944		Mini Half Round Second Cut File 200mm	10	250	13.2
03945		Mini Half Round Second Cut File 215mm	10	250	18.7
03946		Mini Half Round Smooth Cut File 185mm	10	250	9.8
03963		Mini Square Second Cut File 185mm	10	250	7.8
03964		Mini Square Second Cut File 200mm	10	250	10.8
03965		Mini Square Second Cut File 215mm	10	250	15.3
03975		Mini Round Second Cut File 185mm	10	250	6.5
03976		Mini Round Second Cut File 200mm	10	250	9.2
03977		Mini Round Second Cut File 215mm	10	250	13
03995		Mini Three Square Second Cut File 185mm	10	250	10.3
03996		Mini Three Square Second Cut File 200mm	10	250	11.7
03997		Mini Three Square Second Cut File 215mm	10	250	16.5




▲ No warranty as consumables

## Half Round Bastard Cut File

Sectional Form 



- The product is made of special carbon tool steel, with file body hardness up to 63-66HRC
- File teeth have uniform form and depth, ensuring high filing efficiency

No.	Spec.	L(mm)			
03931	6"	262	12	96	11.7
03932	8"	315	12	96	18.7
03933	10"	365	12	72	22.7
03934	12"	430	12	48	24.5

▲ No warranty as consumables








## Half Round Second Cut File

Sectional Form 



- The product is made of special carbon tool steel, with file body hardness up to 63-66HRC
- File teeth have uniform form and depth, ensuring high filing efficiency

No.	Spec.	L(mm)			
03935	6"	262	12	96	11.9
03936	8"	315	12	96	18.3
03937	10"	365	12	72	22.6
03938	12"	430	12	48	24.6




▲ No warranty as consumables

## Half Round Smooth Cut File

Sectional Form 



- The product is made of special carbon tool steel, with file body hardness up to 63-66HRC
- File teeth have uniform form and depth, ensuring high filing efficiency

No.	Spec.	L(mm)			
03939	6"	262	12	96	12
03940	8"	315	12	96	18.2
03941	10"	365	12	72	22.4
03942	12"	430	12	48	24.9




▲ No warranty as consumables

## Square Bastard Cut File

Sectional Form 



- The product is made of special carbon tool steel, with file body hardness up to 63-66HRC
- File teeth have uniform form and depth, ensuring high filing efficiency

No.	Spec.	L(mm)			
03951	6"	262	12	96	9.5
03952	8"	315	12	96	13.5
03953	10"	365	12	72	15.5
03954	12"	430	12	48	19.5




▲ No warranty as consumables

## Square Second Cut File

Sectional Form 



- The product is made of special carbon tool steel, with file body hardness up to 63-66HRC
- File teeth have uniform form and depth, ensuring high filing efficiency

No.	Spec.	L(mm)			
03955	6"	262	12	96	9.7
03956	8"	315	12	96	13.3
03957	10"	365	12	72	15.5
03958	12"	430	12	48	19.6




▲ No warranty as consumables

## Square Smooth Cut File

Sectional Form 



- The product is made of special carbon tool steel, with file body hardness up to 63-66HRC
- File teeth have uniform form and depth, ensuring high filing efficiency

No.	Spec.	L(mm)			
03959	6"	262	12	96	9.5
03960	8"	315	12	96	13.2
03961	10"	365	12	72	15.6
03962	12"	430	12	48	19.5




▲ No warranty as consumables

## Round Second Cut File

Sectional Form 



- The product is made of special carbon tool steel, with file body hardness up to 63-66HRC
- File teeth have uniform form and depth, ensuring high filing efficiency

No.	Spec.	L(mm)			
03971	6"	262	12	96	9.2
03972	8"	315	12	96	11.9
03973	10"	365	12	72	13.5
03974	12"	430	12	48	16.6

▲ No warranty as consumables









## Three Square Second Cut File

Sectional Form 



- The product is made of special carbon tool steel, with file body hardness up to 63-66HRC
- File teeth have uniform form and depth, ensuring high filing efficiency

No.	Spec.	L(mm)			
03991	6"	262	12	96	12.7
03992	8"	315	12	96	21.1
03993	10"	365	12	72	25.1
03994	12"	430	12	48	26.7

 No warranty as consumables











## 03801 10Pc. Assorted Needle File Set 3×140mm




Diameter of round rod \* full length: 3×140mm




- Suitable for filing small workpieces and precision parts

### Single Product Introduction

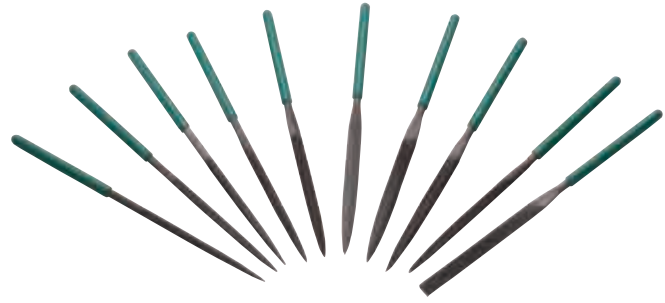
Section Form	Product Name
	Flat Needle File
	Pointed Half Round Needle File
	Pointed Square Needle File
	Pointed Equilateral Triangular Needle File
	Pointed Round Needle File
	Pointed Dual-Sided Flat Needle File
	Pointed Cutter Needle File
	Pointed Single-Sided Triangular Needle File
	Pointed Flat Round Needle File
	Pointed Oval Needle File

No.	Spec. (mm)			
03801	3×140	5	60	8.5

 No warranty as consumables











## 03802 10Pc. Assorted Needle File Set 4×160mm




Diameter of round rod \* full length: 4×160mm




- Suitable for filing small workpieces and precision parts

### Single Product Introduction

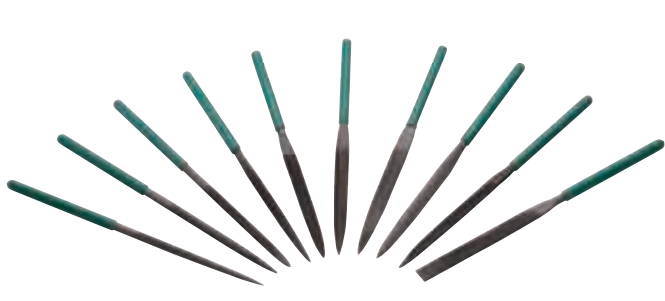
Section Form	Product Name
	Flat Needle File
	Pointed Half Round Needle File
	Pointed Square Needle File
	Pointed Equilateral Triangular Needle File
	Pointed Round Needle File
	Pointed Dual-Sided Flat Needle File
	Pointed Cutter Needle File
	Pointed Single-Sided Triangular Needle File
	Pointed Flat Round Needle File
	Pointed Oval Needle File

No.	Spec. (mm)			
03802	4×160	5	60	13.2

 No warranty as consumables











## 03803 10Pc. Assorted Needle File Set 5×180mm




Diameter of round rod \* full length: 5×180mm




- Suitable for filing small workpieces and precision parts

### Single Product Introduction

Section Form	Product Name
	Flat Needle File
	Pointed Half Round Needle File
	Pointed Square Needle File
	Pointed Equilateral Triangular Needle File
	Pointed Round Needle File
	Pointed Dual-Sided Flat Needle File
	Pointed Cutter Needle File
	Pointed Single-Sided Triangular Needle File
	Pointed Flat Round Needle File
	Pointed Oval Needle File

No.	Spec. (mm)			
03803	5×180	5	60	23.3

 No warranty as consumables








03804 10Pc. Assorted Diamond Riffler Needle File Set 3×140mm



- Round rod diameter \* full length: 3×140mm
- Suitable for filing special workpieces and precision parts




No.			
03804	5	60	8.7

▲ No warranty as consumables

03805 10Pc. Assorted Diamond Needle File Set 3×140mm



- Round rod diameter \* full length: 3×140mm
- Suitable for filing special workpieces and precision parts











No.			
03805	5	60	8.8




▲ No warranty as consumables

03810 10Pc. Diamond Needle File Set 3×140mm



- Made of #45 steel electroplated with high-hardness rhinestone, achieving high working efficiency
- Suitable for file finishing of high-hardness metal such as hard alloy, and for quenched or nitrided alloy steel cutter, grinding tool, fixture, etc.
- Length of needle file: 3×140mm (round bar diameter X overall length)
- Length of working surface: 50mm
- Grit size: D 150

No.	Sectional Form	Product Name
03811		Diamond Flat Needle File
03812		Diamond Pointed Half Round Needle File
03813		Diamond Pointed Square File
03814		Diamond Pointed Equilateral Triangle File
03815		Diamond Pointed Round Needle File
03816		Diamond Pointed Double-side Round/Flat File
03817		Diamond Pointed Knife File
03818		Diamond Pointed Single-side Triangular File
03819		Diamond Pointed Flat/Round File
03820		Diamond Pointed Cross File

No.			
03810	10	40	6.2




▲ No warranty as consumables

03811 Diamond Flat Needle File 3x140mm

Flat Needle File 




- Handle diameter × Overall length: 3x140mm
- Length of working surface: 50mm
- Grit size: D 150

No.			
03811	10	500	74

▲ No warranty as consumables






## 03812 Diamond Pointed Half Round Needle File 3x140mm

Pointed Half Round Needle File 




- Handle diameter × Overall length: 3x140mm
- Length of working surface: 50mm
- Grit size: D 150

No.			
03812	10	500	7




▲ No warranty as consumables

## 03832 Diamond Pointed Half Round Needle File 4x160mm

Pointed Half Round Needle File 



- Handle diameter × Overall length: 3x140mm
- Length of working surface: 50mm
- Grit size: D 150

No.			
03832	10	500	11




▲ No warranty as consumables

## 03815 Diamond Pointed Round Needle File 3x140mm

Pointed Round Needle File 



- Handle diameter × Overall length: 3x140mm
- Length of working surface: 50mm
- Grit size: D 150

No.			
03815	10	500	6.8




▲ No warranty as consumables

## 03835 Diamond Pointed Round Needle File 4x160mm

Pointed Round Needle File 



- Handle diameter × Overall length: 3x140mm
- Length of working surface: 50mm
- Grit size: D 150

No.			
03835	10	500	10.9



▲ No warranty as consumables

## 03831 Diamond Flat Needle File 4x160mm

Flat Needle File 



- Handle diameter × Overall length: 3x140mm
- Length of working surface: 50mm
- Grit size: D 150

No.			
03831	10	500	11.8




▲ No warranty as consumables

## 03851 Diamond Flat Needle File 5x180mm

Flat Needle File 



- Handle diameter × Overall length: 3x140mm
- Length of working surface: 50mm
- Grit size: D 150

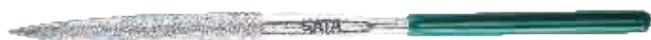
No.			
03851	10	500	18.4

▲ No warranty as consumables







## 03852 Diamond Pointed Half Round Needle File 5x180mm

Pointed Half Round Needle File 



- Handle diameter × Overall length: 3x140mm
- Length of working surface: 50mm
- Grit size: D 150

No.			
03852	10	500	17.2




 No warranty as consumables

## 03855 Diamond Pointed Round Needle File 5x180mm

Pointed Round Needle File 



- Handle diameter × Overall length: 3x140mm
- Length of working surface: 50mm
- Grit size: D 150











No.			
03855	10	500	16.5




 No warranty as consumables

## 03830 10Pc. Diamond Needle File Set 4x160mm



- Made of #45 steel electroplated with high-hardness rhinestone, achieving high working efficiency.
- Suitable for file finishing of high-hardness metal such as hard alloy, and for quenched or nitrided alloy steel cutter, grinding tool, fixture, etc.
- Length of needle file: 4x160mm (round bar diameter X overall length)
- Length of working surface: 50mm
- Grit size: D 150

No.	Sectional Form	Product Name
03831		Diamond Flat Needle File
03832		Diamond Pointed Half Round Needle File
03833		Diamond Pointed Square File
03834		Diamond Pointed Equilateral Triangle File
03835		Diamond Pointed Round Needle File
03836		Diamond Pointed Double-Side Round/Flat File
03837		Diamond Pointed Knife File
03838		Diamond Pointed Single-Side Triangular File
03839		Diamond Pointed Flat/Round File
03840A		Diamond Pointed Cross File

No.			
03830	10	40	9.2






 No warranty as consumables




## 03850 5Pc. Diamond Needle File Set 5x180mm

Diameter of round rod \* full length: 5x180mm  
Working plane length: 70mm



- Made of #45 steel electroplated with high-hardness rhinestone, achieving high working efficiency.
- Suitable for file finishing of high-hardness metal such as hard alloy, and for quenched or nitrided alloy steel cutter, grinding tool, fixture, etc.
- Length of needle file: 5x180mm (round bar diameter X overall length)
- Length of working surface: 70mm
- Grit size: D 150

No.	Sectional Form	Product Name
03851		Diamond Flat Needle File
03852		Diamond Pointed Half Round Needle File
03853		Diamond Pointed Square File
03854		Diamond Pointed Equilateral Triangle File
03855		Diamond Pointed Round Needle File

No.			
03850	10	40	7.6

 No warranty as consumables



### 03860 3Pc. Diamond Needle File Set 3x140mm

Needle File Length: 3x140mm  
(Shank diameter\* full length)  
Working plane length: 50mm  
Fineness: 150 meshes



- Made of #45 steel electroplated with high-hardness rhinestone, achieving high working efficiency.
- Suitable for file finishing of high-hardness metal such as hard alloy, and for quenched or nitrided alloy steel cutter, grinding tool, fixture, etc.
- Length of needle file: 3x140mm (round bar diameter X overall length)  
Length of working surface: 50mm  
Grit size: D 150

No.	Sectional Form	Product Name
03811		Diamond Flat Needle File
03812		Diamond Pointed Half Round Needle File
03815		Diamond Pointed Round Needle File

No.			
03860	10	40	2.2

▲ No warranty as consumables

### 03870 3Pc. Diamond Needle File Set 4x160mm

Needle File Length: 4x160mm  
(Shank diameter\* full length)  
Working plane length: 50mm  
Fineness: 150 meshes



- Made of #45 steel electroplated with high-hardness rhinestone, achieving high working efficiency.
- Suitable for file finishing of high-hardness metal such as hard alloy, and for quenched or nitrided alloy steel cutter, grinding tool, fixture, etc.
- Length of needle file: 4x160mm (round bar diameter X overall length)  
Length of working surface: 50mm  
Grit size: D 150

No.	Sectional Form	Product Name
03831		Diamond Flat Needle File
03832		Diamond Pointed Half Round Needle File
03835		Diamond Pointed Round Needle File

No.			
03870	10	40	3.3

▲ No warranty as consumables

### 03880 3Pc. Diamond Needle File Set 5x180mm

- Made of #45 steel electroplated with high-hardness rhinestone, achieving high working efficiency.
- Suitable for file finishing of high-hardness metal such as hard alloy, and for quenched or nitrided alloy steel cutter, grinding tool, fixture, etc.
- Length of needle file: 5x180mm (round bar diameter X overall length)  
Length of working surface: 70mm  
Grit size: D 150

No.	Sectional Form	Product Name
03851		Diamond Flat Needle File
03852		Diamond Pointed Half Round Needle File
03855		Diamond Pointed Round Needle File

No.			
03880	10	40	4.9

▲ No warranty as consumables

### Hole Saw Arbor



53401



53402

- Hole saw arbor shank, used to connect the hole saw and drill chuck, and playing the positioning role when the hole saw is working
  - Guide drill bit is made of high-speed steel alloy with hardness of HRC63-66
  - Fast exit spring, allowing the round disc easier to be taken out after cutting
- Note: Please wear PPE such as safety goggles during use

No.	⌀ (mm)	⌀ (mm)			
53401	14-30	9.5	10	160	17.3
53402	32-152	11.1	6	72	16

▲ No warranty as consumables



## Bi-Metal Hole Saw



Φ

- SATA bimetallic hole saw, with teeth made of high-speed steel with hardness of HRC65-68, strong cutting power, and back material of good toughness, ensuring safety in use
  - Special teeth profile design, achieving smooth swarf expelling and high cutting efficiency
  - High-precision concentricity allows more even force on teeth, prolongs the service life of hole saw, and ensures the quality and precision of holing.
  - Used for cutting wood, aluminum, copper, low carbon steel, cast iron and stainless steel
  - Please add coolant before use
- Note: Please wear PPE such as safety goggles during use

No.	Cutting Diameter (mm)	SAE			
53301	16	5/8"	10	200	7.3
53302	19	3/4"	10	200	8.3
53303	20	25/32"	10	200	9
53304	22	7/8"	10	200	9
53305	25	1"	10	200	13.8
53306	30	1-3/16"	10	200	18.8
53307	32	1-1/4"	10	120	10.6
53308	35	1-3/8"	10	120	12.4
53309	38	1-1/2"	10	120	13.9
53310	44	1-3/4"	6	108	13.2
53311	51	2"	6	108	16.2
53312	57	2-1/4"	6	72	13.6
53313	60	2-3/8"	6	72	14.4
53314	64	2-1/2"	6	72	15.6

▲ No warranty as consumables

## 53501 Pilot Drill 80mm



L

- Made of high-speed steel alloy
- Suitable for 53401 and 53402

No.			
53501	20	640	10.6

▲ No warranty as consumables

## 93451 2Pc. Deburring Tool Set



- Including 1 mini trimmer and 1 piece of ordinary trimmer blade
- Used for trimming edge of the workpieces in the following shapes:  
Deep holes  
Holes  
Curved edge  
Straight holes

No.			
93451	15	150	6

▲ No warranty as consumables

## 93452 3Pc. Deburring Tool Set



- Including 1 trimmer, 1 standard deburring blades and 1 heavy duty deburring blades
- Used for trimming edge of the workpieces in the following shapes:  
Deep holes  
Holes  
Curved edge  
Straight holes

No.			
93452	8	-	-

▲ No warranty as consumables

## 93453 5Pc. Standard Deburring Blades



- Used for trimming edge of workpieces made of steel, aluminum and etc.;
- Made of M2 high speed steel (HSS), hardness of blade up to 62-64HRC
- Blade diameter: 3.2 mm

No.			
93453	12	-	-

▲ No warranty as consumables



**93454 5Pc. Heavy Duty Deburring Blades**

- For trimming edge of most workpieces such as those made of stainless steel;
- Made of M35 high speed steel (HSS), adding element cobalt (Co), achieving high durability and strong cutting power. Hardness of blade up to 63HRC;
- Blade diameter: 3.2 mm.

No.			
93454	12	960	20.6

▲ No warranty as consumables

**93455 5Pc. Medium Duty Deburring Blades**

- Used for workpieces made of copper and cast iron, can be operated by both hands
- Made of high speed steel (HSS), the hardness of blade up to 62-64HRC
- Blade diameter: 3.2 mm
- Used together with SATA 2Pc. deburring tool set 93451 and SATA 3pc. deburring tool set 93452

No.			
93455	10	-	-

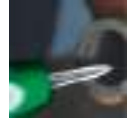
▲ No warranty as consumables

**93456 5Pc. Deburring Blades for Plastics**

- Used for plastic materials
- Made of high speed steel (HSS), the hardness of blade up to 62-64HRC
- Blade diameter: 3.2 mm
- Can be operated in holes with diameter as small as 1.5 mm
- Used together with SATA 2Pc. deburring tool set 93451 and SATA 3Pc. deburring tool set 93452

No.			
93456	10	-	-

▲ No warranty as consumables

**93457 3Pc. Scraper Set**

- Special handle: applicable to different quick-change cutting tips;
- Applicable to all types of hand;
- The chuck can adjust and fix length of the cutting tip.

**SATA 93460**

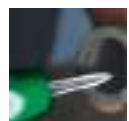
- Reversible triangular scraper;
- Hardness of blade up to 58-60HRC;
- Blade size: 80xΦ4.2 mm;
- Widely used in machining and mold manufacturing;
- Used for scraping, trimming and deburring tools and castings made of various materials.

**SATA 93461**

- HSS triangular scraper;
- Hardness of blade up to 62-64HRC;
- Blade size: 75x- The cutting tip can be operated in more limited space;
- Used for scraping, trimming and deburring objects made of various materials.
- This item is consumable, and is not covered under SATA lifetime warranty.

No.			
93457	10	-	-

▲ No warranty as consumables

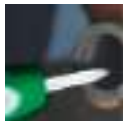
**93458 2Pc. Reversible Triangular Scraper Set**

- Special handle: Capable of changing blade quickly
- Suitable for various hand shapes
- Adjustable chuck for locking blade length
- SATA 93460 medium double-headed triangular scraper:
- Suitable for scraping, trimming and burr removing of various material tools and castings
- Applicable to machining and mold manufacturing
- Blade size 80\*4.2mm

No.			
93458	10	-	-

▲ No warranty as consumables

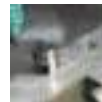


**93459 2Pc. Reversible Triangular Scraper Set**

- Special handle: Capable of changing blade quickly
- Suitable for various hand shapes
- Adjustable chuck for locking blade length
- SATA 93461 small triangular scraper made of HSS high-speed steel:
- Suitable for scraping, trimming and burr removing of various materials
- Tip applicable in narrow space
- Blade size 75\*3.2mm

No.			
93459	10	-	-

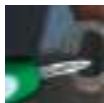
▲ No warranty as consumables

**93462 Heavy Duty Rotary Deburring Tool Set**

- Capable of quick manual internal chamfering
- Applicable to handle of SATA 93452 3-piece trimmer
- Suitable for SATA 93463 crank counterbore trimmer:
- Applicable aperture range: 1-16.5mm
- Made of HSS high-speed steel

No.			
93462	10	-	-

▲ No warranty as consumables

**93460 Reversible Triangular Scraper**

- Suitable for scraping, trimming and burr removing of various material tools and castings
- Applicable to machining and mold manufacturing
- Blade size 80\*4.2mm

No.			
93460	10	-	-

▲ No warranty as consumables

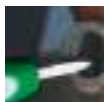
**93463 Countersink Chamfering Blade**

Applicable inner chamfer aperture range: 1-16.5mm

- Made of HSS high-speed steel
- Applicable to handles of SATA 93451 2-piece mini trimmer and SATA 93452 3-piece trimmer

No.			
93463	10	-	-

▲ No warranty as consumables

**93461 HSS Triangular Scraper**

- Suitable for scraping, trimming and burr removing of various materials
- Tip applicable in narrow space
- Blade size 75\*3.2mm

No.			
93461	10	-	-

▲ No warranty as consumables

**93464 Internal O-Ring Groove Deburring Blade**

- Suitable for burr removing of O-shaped groove with width of less than 3mm
- Made of HSS high-speed steel
- Applicable to handles of SATA 93451 2-piece mini trimmer and SATA 93452 3-piece trimmer

No.			
93464	10	-	-

▲ No warranty as consumables



## 93466 External Shaft Chamfering Blade



- Made of HSS high-speed steel
- Applicable to handles of SATA 93451 2-piece mini trimmer and SATA 93452 3-piece trimmer

No.			
93466	10	-	-

▲ No warranty as consumables

## 50405 Adjustable Tap Wrench M3-M12



- Steel material with more durability than zinc alloy one
- Black oxide surface

No.			
50405	10	60	9.2

▲ No warranty as consumables

## 50401 Ratcheting Tap & Die Wrench



Arc swing of less than 5° for narrow rotating space



- With the function of arc swing of less than 5° , it can be rotated in a narrow space to ensure that the tap and die adapters are locked
- Through the arrow buttons, quick and easy reversing can be achieved, such that the tap and die adapters can be twisted quickly without manual reversing
- Fully polished and electroplated handle for comfortable grip and long-term operation
- Used with tap adapter 50421/50422 and die adapter 50423

No.			
50401	20	40	13

## Ratcheting Tap Wrench



- Integral all steel machining makes the product suitable for high torque and load applications. The jaws have good toughness and surface hardness.
- The following three positions are set: Fast left-handed, fast right-handed and fixed. This wrench is more durable than the conventional zinc alloy ratchet wrench.
- Provided with a two-way ratchet for tightening the square handle of the tap. Adjustable extension bar with grooves at both ends for snap-on positioning of the ball.
- Ideal for tapping in small stations.

No.	Spec.	L(mm)	Tube Body Diameter (mm)	Four-side Opening (mm)	Four-side Clamping Range (mm)			
50403	M3-M8	85	21	2.6-5.5	2.4-5.5	6	48	11
50404	M5-M12	110	23	4.6-8	4.5-8	6	48	16

▲ No warranty as consumables

## 50411 Die Stock M3-M12



- Steel material with more durability than zinc alloy one
- Black oxide surface

No.			
50411	10	60	12.5

▲ No warranty as consumables

## Tap Adaptor



- Automatic locking function for easy and safe removal
- Spring-loaded chuck cap design for quick removal
- Equipped with a simple extension bar for tapping in a small station
- Suitable for M3-M4 taps
- It can be used with a tap and die ratchet wrench or directly with an operating lever

No.	Spec.			
50421	M3-M4	20	40	7.8
50422	M5-M12	20	40	9.8

▲ No warranty as consumables



## 50423 Die Adaptor M3-M12



- Patented twist lock guide rail, to ensure the accurate concentricity of threading die
- Applicable to isometric round die
- To be used with patented tap and die ratchet wrench

No.			
50423	20	40	6.7

▲ No warranty as consumables

## 50452 32Pc. HSS Coarse Thread Tap & Die Set



- High accuracy with full milling process
- Vapor oxide surface treatment to make tapping smoother
- Longer lifecycle than other traditional tap and die
- Scope of Application: Used for machining for material of carbon steel, alloy steel and casting iron, etc.
- 21Pc. Tap Set (M3x0.5, M4x0.7, M5x0.8, M6x1.0, M8x1.25, M10x1.5, M12x1.75)x3Pc.
- 7Pc. Die Set (M3x0.5, M4x0.7, M5x0.8, M6x1.0, M8x1.25, M10x1.5, M12x1.75)
- 1Pc. Adjustable Tap Wrench M3-M12
- 1Pc. Die Stock M3-M12
- 1Pc. Screwdriver
- 1Pc. Thread Pitch Gauge

No.			
50452	-	10	16.1

▲ No warranty as consumables

## 50451 40Pc. HSS Coarse Thread Tap & Die Set



- 21Pc. Tap Set: M3x0.5、M4x0.7、M5x0.8、M6x1.0、M8x1.25、M10x1.5、M12x1.75
- 7Pc. Die Set: M3x0.5、M4x0.7、M5x0.8、M6x1.0、M8x1.25、M10x1.5、M12x1.75
- 5Pc. Threaded Extractor Set
- 1Pc. Ratcheting Tap Wrench
- 2Pc. Tap Adaptor M3-M4、M5-M12
- 1Pc. Die Adaptor M3-M12
- 1Pc. Handle
- 1Pc. CRV Hex Key 4MM
- 1Set Thread Pitch Gauge
- SATA ratcheting tap and die wrench offers higher torque, makes the operation quicker and more durable as well
- Full milling process to make die have higher accuracy
- Vapor oxide surface treatment to make tapping smoother, longer lifecycle than other traditional tap
- Used for machining for material of carbon steel, alloy steel and casting iron, etc.

No.			
50451	1	8	16.2

▲ Please comply with the warranty terms for each open stock product in the set

## 50453 21Pc. HSS Coarse Thread Tap Set



- High accuracy with full milling process
- Vapor oxide surface treatment to make tapping smoother
- Longer lifecycle than other traditional tap and die
- Scope of Application: Used for machining for material of carbon steel, alloy steel and casting iron, etc.
- 21Pc. Tap Set (M3x0.5, M4x0.7, M5x0.8, M6x1.0, M8x1.25, M10x1.5, M12x1.75)x3Pc.

No.			
50453	-	20	15

▲ No warranty as consumables

## 50457 7Pc. Threading Tool Set

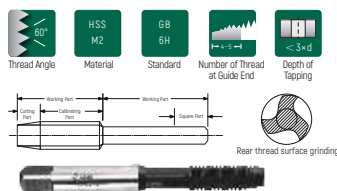


- Made of HSS 6542 high-speed steel, and with full grinding process
- Time and labor saving. One-time operation can complete the whole process such as drilling, tapping, deburring/countersinking
- Designed with back tap after tapping, to prevent damaging threads after over-drilling
- After tapping, the drill bit spins reversely to exit
- Tapping speed is generally slower than drilling speed, and a little lubricant should be applied
- Scope of application: in general, processing of carbon steel, alloy steel, cast iron, etc
- Specifications of 6-piece compound tap drill: M3x0.5, M4x0.7, M5x0.8, M6x1.0, M8x1.25, M10x1.5
- 1/4" quick change magnetic holder




No.			
50457	5	10	4

▲ No warranty as consumables

## 5Pc. HSS Coarse Thread Machining Tap



- High accuracy with full milling process
- Vapor oxide surface treatment to make tapping smoother
- Longer lifecycle than other traditional tap and die
- Scope of Application: Used for machining for material of carbon steel, alloy steel and casting iron, etc.
- 21Pc. Tap Set (M3x0.5, M4x0.7, M5x0.8, M6x1.0, M8x1.25, M10x1.5, M12x1.75)x3Pc.
- 7Pc. Die Set (M3x0.5, M4x0.7, M5x0.8, M6x1.0, M8x1.25, M10x1.5, M12x1.75)
- 1Pc. Adjustable Tap Wrench M3-M12
- 1Pc. Die Stock M3-M12
- 1Pc. Screwdriver
- 1Pc. Thread Pitch Gauge

No.	Spec.	Screw Pitch (mm)	Thread (mm)	L (mm)	Shank Diameter (mm)	Square Part Width (mm)	Depth of Tapping ≤3xd(mm)			
50603	M3	0.5	11	48	3.15	2.5	9	20	120	4
50604	M4	0.7	13	53	4	3.15	12	20	120	5
50605	M5	0.8	16	58	5	4	15	10	80	5.8
50606	M6	1	19	66	6.3	5	18	10	80	7.8
50608	M8	1.25	22	72	8	6.3	24	10	80	11.4
50610	M10	1.5	24	80	10	8	30	5	60	14
50612	M12	1.75	29	89	9	10	36	5	60	15

▲ No warranty as consumables

## 5Pc. HSS Drill/Tap Bits



- Time and labor saving. One-time operation can complete the whole process including drilling, tapping, deburring, and countersinking
- Designed with back tap after tapping, to prevent damaging threads after over-drilling
- After tapping, the drill bit spins in reverse to exit
- Tapping speed is generally slower than drilling speed, and a little lubricant should be applied
- Scope of application: in general, processing of carbon steel, alloy steel, cast iron, etc

### Warning:

- Must wear goggles to avoid possible broken danger
- Be careful to harm of flying swarf when using
- Do not touch the cutting edge with hands

No.	Spec.	Screw Pitch (mm)	Thread (mm)	Length (mm)	Hexagonal Shank Diameter (mm)	Depth of Tapping ≤3xd (mm)			
50803	M3	0.5	99	52.3	7.2	9	10	80	6
50804	M4	0.7	12	52.3	7.2	12	10	80	6
50805	M5	0.8	12	56.6	7.2	15	10	80	7
50806	M6	1.0	12	56.6	7.2	18	10	80	6
50808	M8	1.25	14	57.2	7.2	24	10	80	8
50810	M10	1.50	24	57.9	7.2	30	5	60	8

▲ No warranty as consumables

## HSS Coarse Thread Die



- Made of HSS66542 high-speed steel
- Equal radius  $\varnothing 25 \times$  thickness 9mm
- Scope of Application: In general, through-hole processing of carbon steel, alloy steel, cast iron, etc

### Warning:









- Must wear goggles to avoid possible broken danger
- Be careful to harm of flying swarf when using
- Do not touch the cutting edge with hands

No.	Spec.	Screw Pitch (mm)	OD × Thickness (mm)			
50903	M3	0.5	25 × 9	10	120	5.8
50904	M4	0.7	25 × 9	10	120	5.8
50905	M5	0.8	25 × 9	10	120	5.8
50906	M6	1	25 × 9	10	120	5.8
50908	M8	1.25	25 × 9	10	120	5.2
50910	M10	1.50	25 × 9	10	120	5.2
50912	M12	1.75	25 × 9	10	120	4.9

▲ No warranty as consumables

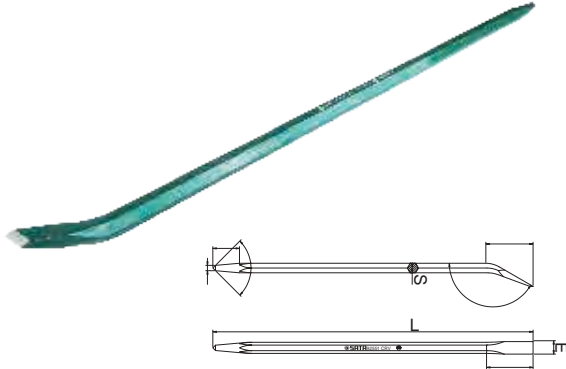


# Striking Tool




	Crowbar	<b>185</b>
	Punch, Chisel and Hammer	<b>185-188</b>
	Ball Pein Hammer	<b>190-193</b>
	Claw Hammer	<b>188-192</b>
	Engineers Hammer	<b>190</b>
	Soft Face Hammer	<b>190-191</b>
	Dead Blow Hammer	<b>191</b>
	Damping Claw Hammer	<b>192</b>

# Striking Tool

## Pinch Bar

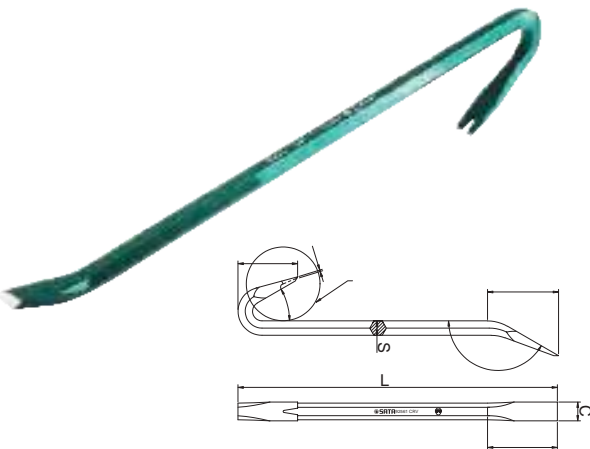


- Made of alloy steel for high strength and good toughness
- Subjected to heat treatment for uniform hardness and strong load bearing capacity
- Power-coated surface for elegance and strong anti-rust ability




No.	Spec. (mm)	E(mm)	S(mm)	L(mm)			
92551	18x400	22	18	400	4	24	20
92552	20x600	24	20	600	4	16	25.4
92553	22x800	26	22	800	4	8	20.7
92554	22x1000	26	22	1000	4	8	26
92556	25x1500	30	25	1500	2	4	25.8

▲ No warranty as consumables

## Wrecking Bar



- Made of alloy steel for high strength and good toughness
- Universal nail nipping end for wide application and good effect
- Power-coated surface for elegance and strong anti-rust ability

No.	Spec. (mm)	C(mm)	S(mm)	L(mm)			
92561	18x400	22	18	400	4	16	17.3
92562	18x600	22	18	600	4	16	25.2
92564	20x1000	24	20	1000	2	8	25.7




▲ No warranty as consumables

## 09161 5Pc. Punch Set



- Made of 60Cr-V, ensuring superior mechanical properties
- Surface plated with chrome ensuring high anti-rust capability

No.	Spec. (mm)
90751	Center Punch 4x120
90752	Taper Punch 3x120
90753	Pin Punch 4x150
90754	Cape Chisel 5x130
90755	Cold Chisel 12x130




No.			
09161	20	40	14.4

## 09162 6Pc. Pin Punch Set



- Made of 60Cr-V, ensuring superior mechanical properties
- Surface plated with chrome ensuring high anti-rust capability

No.	Spec. (mm)
90771	Pin Punch 2x150
90772	Pin Punch 3x150
90753	Pin Punch 4x150
90774	Pin Punch 5x150
90775	Pin Punch 6x150
90776	Pin Punch 8x150

No.			
09162	6	24	17.5








### 09163 3Pc. Chisel Set

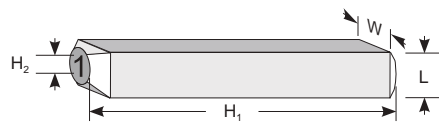


- Made of Cr-V (chrome-vanadium steel) ensuring superior mechanical properties
- Surface spray plastics, I665




No.	Spec. (mm)		
90784	Cold Chisel 20x200		
90785	Cold Chisel 22x250		
90786	Cold Chisel 25x300		

No.			
09163	3	6	12.2

### 9Pc. Number Punch Set



- Artistic font
- High hardness
- Baking varnish on surface for rust protection

No.	L(mm)	W(mm)	H <sub>1</sub> (mm)	H <sub>2</sub> (mm)			
90800	7	7	60	3	10	100	21.6
90801	7.5	7.5	60	4	5	50	13.1
90802	8.8	8.8	63	5	5	50	18
90803	10	10	65	6	5	50	23.7
90804	12	12	69	8	5	20	14.1




▲ Single product is covered under SATA lifetime warranty

### 09164 13Pc. Punch & Chisel Set

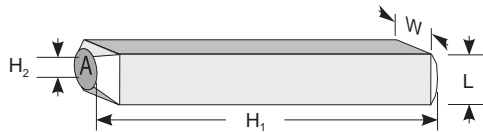


- Made of 60Cr-V (chrome-vanadium steel) ensuring high strength and toughness
- Surface plated with chrome, ensuring high anti-rust capability




No.	Spec. (mm)	No.	Spec. (mm)
90751	Center Punch 4x120	90776	Pin Punch 8x150
90762	Center Punch 5x150	90752	Taper Punch 3x120
90771	Pin Punch 2x150	90755	Cold Chisel 12x130
90772	Pin Punch 3x150	90782	Cold Chisel 15x150
90753	Pin Punch 4x150	90783	Cold Chisel 18x175
90774	Pin Punch 5x150	90754	Cape Chisel 5x130
90775	Pin Punch 6x150		

No.			
09164	4	8	11.5

### 27Pc. Letter Punch Set



- Artistic font
- High hardness
- Baking varnish on surface for rust protection

No.	L(mm)	W(mm)	H <sub>1</sub> (mm)	H <sub>2</sub> (mm)			
90805	7	7	60	3	5	30	19.1
90806	7.5	7.5	60	4	5	20	14.9
90807	8.8	8.8	63	5	5	20	21
90808	10	10	65	6	3	12	17
90809	12	12	69	8	2	8	16.8

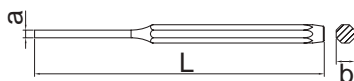
▲ Single product is covered under SATA lifetime warranty

## Center Punch



No.	Working End Diameter a(mm)	Rod Diameter L(mm) b(mm)			
90751	4	8 120	10	300	16.5
90762	5	10 150	10	120	14

## Pin Punch

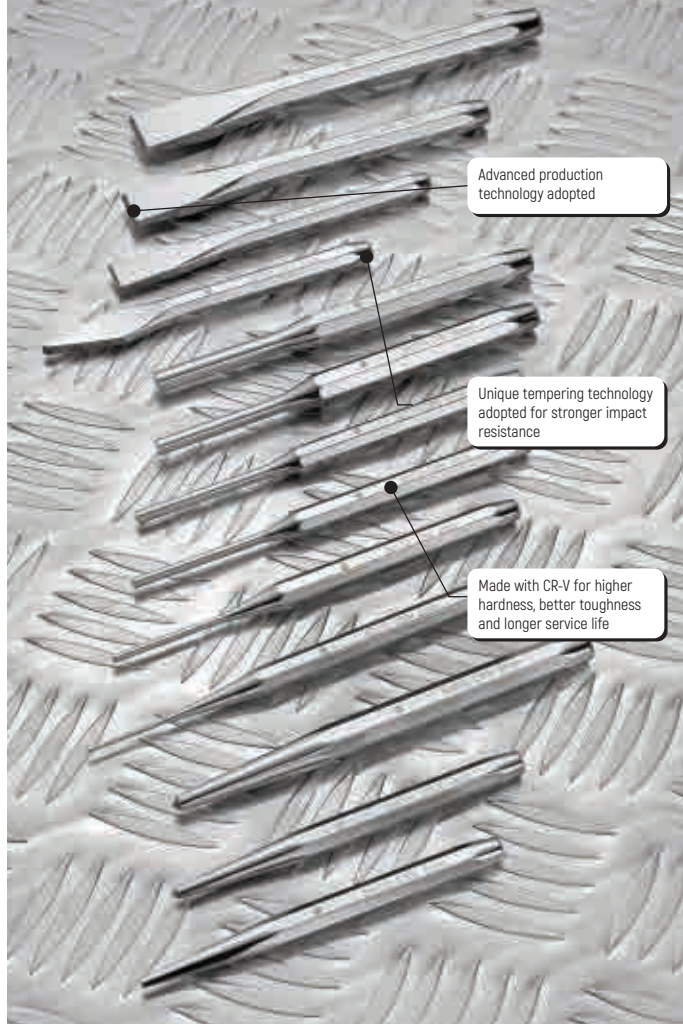


No.	Working End Diameter a(mm)	Rod Diameter L(mm) b(mm)			
90771	2	8 150	10	200	12.2
90772	3	8 150	10	200	12.2
90753	4	8 150	10	300	17.9
90774	5	8 150	10	200	12.9
90775	6	10 150	10	120	12.1
90776	8	10 150	10	120	13.2

## Taper Punch

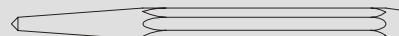


No.	Working End Diameter a(mm)	Rod Diameter L(mm) b(mm)			
90752	3	8 120	10	300	17.2



## Impact Chisel Application

### Center Punch



Mainly used for positioning and marking before tapping in mechanical maintenance, installation, construction, automobile repair and other industries

### Pin Punch



Mainly used for mechanical maintenance, installation, bicycle, motorcycle, automobile maintenance and other industries where pins are required. The dimensional tolerance of each pin punch working end is strictly controlled to ensure a good fit with the dimensions of the corresponding pins.

### Taper Punch



Mainly used for mechanical maintenance, installation, bicycle, motorcycle, automobile maintenance and other industries where pins (taper pins) are required. The dimensional tolerance of each pin punch working end is strictly controlled to ensure a good fit with the dimensions of the corresponding pins. Taper punch can also be used for chambering.

### Cold Chisel



### Cape Chisel



Mainly used for grooving, welding slag removal, shaping and carving in mechanical maintenance, installation, construction, automobile repair, rock engineering and concrete engineering and other industries.





## Cold Chisel



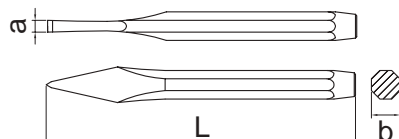
No.	Working End Diameter a(mm)	Rod Diameter b(mm)	L(mm)			
90755	12	8	130	10	250	17.5
90782	15	10	150	10	120	15.4
90783	18	12	175	10	80	16.5

## Cold Chisel



No.	Working End Diameter a(mm)	Rod Diameter b(mm)	L(mm)			
90784	20	14	200	6	48	15.1
90785	22	17	250	6	24	14.8
90786	25	18	300	4	16	14.5

## Cape Chisel



No.	Working End Diameter a(mm)	Rod Diameter b(mm)	L(mm)			
90754	5	8	130	10	250	16.5

## 92309 Fiberglass Short Handle Claw Hammer



- Short handle for operation in narrow space
- PP+TPR handle for comfort
- Magnetic hammerhead suitable for fixing nails, with powder coating for rust protection and elegance

No.	Spec.	L(mm)			
92309	0.5 lbs	180	6	36	13

▲ No warranty as consumables

## One-Piece Forged Claw Hammer



- Forged with medium carbon steel with fully-polished surface
- Double-injection molded handle (PP&TPR soft material) for comfort
- P-shaped two-tone shockproof handle
- Integrated hammer for higher safety

No.	Spec.	L(mm)			
92331	1 lbs	331	4	24	22.5
92332	1.25 lbs	350	4	24	23.4





## Fiberglass Handle Sledge Hammer



- Concave and convex design on both sides of the handle for tapping direction control
- Bottom with baseball bat shape for anti-slipping

No.	Working End Diameter a(mm)	Rod Diameter b(mm)			
92341	2.5 lbs	361	4	12	18.4
92342	3 lbs	400	4	12	21.2
92343	4 lbs	400	4	12	27
92344	6 lbs	910	2	6	25
92345	8 lbs	910	2	6	30.7
92346	10 lbs	910	2	4	37
92347	12 lbs	910	2	4	28.1
92348	14 lbs	910	-	2	30.8
92349	16 lbs	910	-	2	17.8

## 92351 Welders Chipping Hammer 0.5 Lb.



- Pointed head for removing welding slag
- Tip baked with black lacquer + walnut handle

No.	Spec.	L(mm)			
92351	0.5 lbs	295	6	48	17.2

## 92352 Welders Scaling Hammer 0.6 Lb.



- Flat tip for removing rust spots from workpiece before welding
- Tip baked with black lacquer + walnut handle

No.	Spec.	L(mm)			
92352	0.6 lbs	180	6	36	17.9

## Hickory Sledge Copper Hammer



- Hammer head made of copper material with 99% red copper for moderate hardness, avoiding damage to workpiece surface
- Octagonal hammerhead for various surfaces
- Handle made of imported hickory for comfort and toughness

No.	Spec.	L(mm)			
92365	1 lbs	310	6	36	21
92366	2 lbs	320	6	24	27
92367	3 lbs	360	6	18	31

▲ No warranty as consumables

## 92371 Hatchet 1.25 Lbs.



\* Protective leather jacket provided

- Forged with medium carbon steel, with fully-polished tip surface, chrome-plated anti-rust iron tube + iron ring + environmentally-friendly TPR handle, and blade subjected to heat treatment for lasting sharpness

No.	Spec.	L(mm)			
92371	1.25 lbs	330	6	24	22.1

▲ No warranty as consumables



## Rubber Mallet



No.	Spec.	L(mm)			
92912	1 lbs	315	6	36	26.2
92913	1.5 lbs	331	4	24	20.2

▲ No warranty as consumables

## 92336 One-Piece Forged Claw Hammer



- Integrated curve design for tapping accuracy
- T-shaped body
- Curved design for reducing nail pulling force
- Ergonomic design for safety and comfort

No.	Spec.	L(mm)			
92336	1 lbs	342	6	24	21.1

## Hickory Ball Pein Hammer



- Hammerhead made of high carbon steel for impact resistance
- Special embedding technology adopted to preventing hammerhead from fall-off
- Handle made of American walnut for comfort and toughness

No.	Spec.	L(mm)			
92311	0.5 lbs	290	6	12	5.4
92312	1 lbs	350	6	12	9.2
92313	1.5 lbs	360	6	12	12
92314	2 lbs	390	6	12	15.2
92315	2.5 lbs	400	4	8	12.5

## Hickory Claw Hammer



- Hammerhead made of high carbon steel for impact resistance
- Special embedding technology adopted to preventing hammerhead from fall-off
- Handle made of American walnut for comfort and toughness

No.	Spec.	L(mm)			
92321	0.5 lbs	275	6	12	5
92322	0.8 lbs	308	6	12	7.5
92323	1 lbs	330	6	12	8.5
92324	1.25 lbs	335	6	12	9
92325	1.5 lbs	390	6	12	12.8

## Hickory Engineers Hammer



- Hammer head made of high carbon steel for impact resistance
- Handle made of American hickory for comfort and toughness
- Special embedding technology adopted to preventing hammerhead from fall-off

No.	Spec.	L(mm)			
92401	200	285	8	16	5.2
92402	300	300	8	16	8
92403	400	320	4	8	4.7
92404	500	320	4	8	6
92405	800	350	4	8	8.8
92406	1000	360	4	8	10.7

## Hickory Soft Face Hammer



- Hammer head made of high carbon steel for impact resistance
- Handle made of American hickory for comfort and toughness
- Special embedding technology adopted to preventing hammerhead from fall-off

No.	Hammerhead Diameter (mm)	L(mm)			
92501	22	260	6	12	2.5
92502	28	303	6	12	3
92503	35	320	6	12	4.8
92504	45	323	6	12	6.6
92505	60	380	4	8	8



## Threaded Soft Face Hammer Tip



- The hammer is made of amine phenolic material and will not deform, crack or leave remnants.
- Good match between hammer hardness and that of the material surface, eliminating wears and dents on the surface

No.	L(mm)			
92521	22	6	180	8.1
92522	28	6	144	8
92523	35	6	96	7
92524	45	6	48	6
92525	60	6	48	8

▲ No warranty as consumables

## Threaded Hard Face Hammer Tip



- The hammer is made of amine phenolic material and will not deform, crack or leave remnants.
- Good match between hammer hardness and that of the material surface, eliminating wears and dents on the surface

No.	L(mm)			
92531	22	6	180	7.2
92532	28	-	180	7.7
92533	35	6	96	7.8
92534	45	6	48	6.5
92535	60	-	80	14.2

▲ No warranty as consumables

## Dead Blow Hammer



- Made of industrial-grade SBR rubber for resistance to knock, anti-slip, anti-oil and comfort, suitable for fire prevention
- Hammerhead with steel balls to avoid rebounding
- No damage to workpiece surface and free of tapping spark

No.	Hammerhead Diameter (mm)	L(mm)			
92921	35	260	6	36	13.1
92922	45	286	6	36	16.6
92923	55	350	4	16	17.3
92924	65	370	2	12	19.1

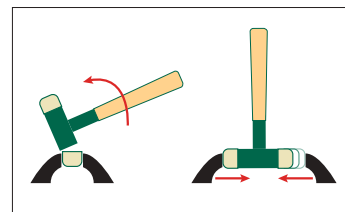
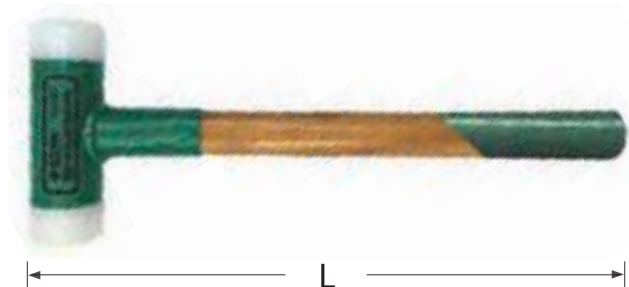
## Dead Blow Hammer



- Made of industrial-grade NBR for stronger wear resistance and oil corrosion resistance
- Tapping surface thickness increased from 5-6mm to 10-16mm for longer service life
- Anti-slipping handle tail

No.	Hammerhead Diameter (mm)	L(mm)			
92901	35+/-0.5	280	6	36	13.1
92902	45+/-0.5	300	6	24	16.6
92903	55+/-0.5	350	4	16	17.3
92904	65+/-0.5	370	2	12	19.1

## Hickory Dead Blow Hammer



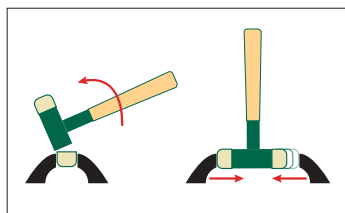
- Hammerhead made of special material for good wear resistance and low temperature resistance, high corrosion resistance and chemical stability
- Anti-blocking with other materials
- Embedded hammerhead for firmness
- Improved impact effect with sensitive workpiece surface protected
- Handle made of American walnut
- Built-in steel balls for increased tapping force and rebounding prevention
- Hammerhead replaceable with bench vice
- Anti-slipping handle tail

No.	Hammerhead Diameter (mm)	L(mm)			
92601	30	320	6	48	22
92602	35	325	6	48	25
92603	40	352	6	36	25
92604	50	365	6	24	24
92605	60	400	4	16	27

▲ No warranty as consumables



## Tubular Steel Handle Dead Blow Hammer



- Hammerhead made of special material for good wear resistance and low temperature resistance, high corrosion resistance and chemical stability
- Anti-blocking with other materials
- Embedded hammerhead for firmness
- Improved impact effect with sensitive workpiece surface protected
- Handle made of American walnut
- Built-in steel balls for increased tapping force and rebounding prevention
- Hammerhead replaceable with bench vice
- Anti-slipping handle tail

No.	Hammerhead Diameter (mm)	L(mm)			
92611	30	280	6	48	25
92612	35	285	6	36	23
92613	40	300	6	24	22
92614	50	315	6	18	24
92615	60	325	4	12	22

▲ No warranty as consumables

## Fiberglass Handle Claw Hammer



- Hammerhead made of high carbon steel for strong impact resistance
- Embedded hammerhead for firmness
- Glass fiber handle for comfort, with fashionable two-tone option available

No.	Spec.	L(mm)			
92306	1 lbs	330	2	8	6.4
92307	1.5 lbs	380	2	8	8.5
92308	0.5 lbs	280	4	8	3.6

## Fiberglass Handle Ball Pein Hammer



- Hammerhead made of high carbon steel for strong impact resistance
- Embedded hammerhead for firmness
- Glass fiber handle for comfort, with fashionable two-tone option available

No.	Spec.	L(mm)			
92301	0.5 lbs	297	4	8	3.6
92302	1 lbs	343	4	8	6.6
92303	1.5 lbs	349	4	8	8.6
92304	2 lbs	351	4	8	11.5
92305	2.5 lbs	380	4	8	13.2

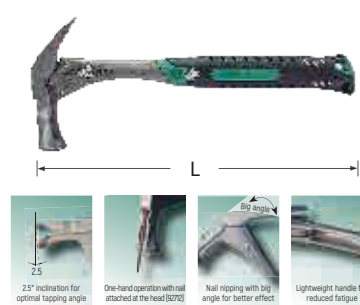
## 92703 Anti-Vibration Claw Hammer 1Lb.



- Hammerhead made of chrome-molybdenum alloy steel for high toughness and durability
- Integrated rivet shape keeping hammerhead and handle together
- Capable of shock absorption to reduce vibration for comfort and safety
- Round-hole damping handle, being elegant and ergonomic

No.	Weight (g)	L(mm)			
92703	870	340	5	20	20.4

## 92712 Anti-Vibration Curved Claw Hammer 0.8Lb.



- Hammerhead made of chrome-molybdenum alloy steel for high toughness and durability
- Integrated rivet shape keeping hammerhead and handle together
- Capable of shock absorption to reduce vibration for comfort and safety
- Round-hole damping handle, being elegant and ergonomic




No.	Weight (g)	L(mm)			
92712	730	335	5	20	22



## 92722 Anti-Vibration Ball Pein Hammer 1 Lb.






- Hammerhead made of chrome-molybdenum alloy steel for high toughness and durability
- Integrated rivet shape keeping hammerhead and handle together
- Capable of shock absorption to reduce vibration for comfort and safety
- Round-hole damping handle, being elegant and ergonomic

No.	Weight (g)	L(mm)			
92722	780	355	5	20	19.2

## 92734 Anti-Vibration Engineers Hammer 440g





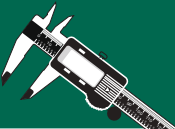



- Hammerhead made of chrome-molybdenum alloy steel for high toughness and durability
- Integrated rivet shape keeping hammerhead and handle together
- Capable of shock absorption to reduce vibration for comfort and safety
- Round-hole damping handle, being elegant and ergonomic

No.	Weight (g)	L(mm)			
92734	890	335	5	20	20.4



# Measuring Tool

	Tape Measure	<b>195-196</b>
	Feeler Gauge	<b>197</b>
	Level	<b>197-198</b>
	Ruler/Angle Ruler	<b>198</b>
	Vernier Caliper	<b>198-201</b>
	Micrometer	<b>202</b>
	Laser Distance Meter	<b>203-204</b>

# Measuring Tool

## Tape Measure



No.	Ruler Length (m)	Tape Width L (mm)			
91311A	2	13	12	120	8.6
91312A	3	16	12	120	13.6
91314A	5	19	12	120	23.3
91315A	5	25	12	120	30.5
91316A	7.5	25	6	60	22.3
91317A	10	25	6	60	28.6

▲ No warranty as consumables

## Tape Measure



- Carbon steel blades, yellow painting with matt surface
- Stronger spring perform better retractable power
- High impact ABS case
- True zero end hook device allow an outside/inside accurate measurement

No.	Ruler Length (m)	Tape Width L (mm)			
91321	3.5/12FT	16	12	36	6.1
91322	5/16FT	19	6	36	8.5
91323	7.5/25FT	25	6	24	9.9

▲ No warranty as consumables

## Tape Measure



- Carbon steel blades, white painting with matt surface. Stronger spring perform better retractable power
- True zero end hook device allow an outside/inside accurate measurement
- High impact ABS case

No.	Ruler Length (m)	Tape Width L (mm)			
91311	2	13	6	24	2.5
91312	3	16	6	36	5.3
91314	5	19	6	36	8.5
91315	5.5	25	6	24	7.9
91316	7.5	25	6	24	9.7
91317	10	25	6	24	11.1

▲ No warranty as consumables

## Tape Measure



- Carbon steel blades, nylon coating wear—resistant treatment
- Stronger spring perform better retractable power
- High impact ABS plastic housing with rubber over-mold grip for extra comfort
- True zero end hook device allow an outside/inside accurate measurement

No.	Ruler Length (m)	Tape Width L (mm)			
91333	3.5	16	6	24	4.4
91334	5	19	6	36	9.4
91335	5.5	25	6	24	8.5
91336	7.5	25	6	24	10.5

▲ No warranty as consumables



\*Nylon-coated steel ruler tape can be used in inclement weather or environment and can be scrubbed repeatedly



\*Nylon-covered steel ruler tape can be washed

## Tape Measure



- Carbon steel blades, nylon coating wear-resistant treatment. Stronger spring perform better retractable power
- Stainless steel shell with durable ABS housing. Rubber over mold grip for impact resistance
- True zero end hook device allow an outside/inside accurate measurement

No.	Ruler Length (m)	Tape Width L (mm)			
91341	3.5	19	6	24	5.6
91342	5	19	6	36	9.7
91343	5.5	25	6	24	9
91344	7.5	25	6	24	11.6

▲ No warranty as consumables

## Steel Tape Measure



- High quality carbon steel material with nylon coated blade.
- Ergonomic metal case design covered by PVC with extra comfort.

No.	Ruler Length (m)	Tape Width L (mm)			
91351	20	10	-	24	16.0
91352	30	10	1	24	14.7

▲ No warranty as consumables

## Fiberglass Tape Measure



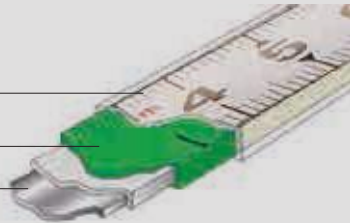
- High quality carbon steel material with nylon coated blade.
- Ergonomic metal case design covered by PVC with extra comfort.

No.	Ruler Length (m)	Tape Width L (mm)			
91361	20	13	-	24	8.6
91362	30	13	-	6	3.2
91363	50	13	-	6	4.9

▲ No warranty as consumables

## Nylon coating and wear-proof treatment technology

Special wear-proof coating  
Nylon coating  
Quality steel tape



SATA tapes are nylon-coated

**09401 14Pc. Feeler Gauge Set 0.05-1.00mm**

- Made of 65Mn steel, with polished surface

**Specification**

- Feeler Gauge: 0.05mm, 0.10mm, 0.15mm, 0.20mm, 0.25mm, 0.30mm, 0.40mm, 0.50mm, 0.60mm, 0.70mm, 0.80mm, 0.90mm, 1.00mm
- Ruler: 2"

No.			
09401	-	24	1.8

▲ No warranty as consumables

**09407 32Pc. Feeler Gauge Set 0.02-1.00mm, Metric & SAE**

- Made of 65Mn steel, with polished surface

**Specification**

- Feeler Gauge: 0.02mm, 0.03mm, 0.04mm, 0.05mm, 0.06mm, 0.07mm, 0.08mm, 0.09mm, 0.10mm, 0.13mm, 0.15mm, 0.18mm, 0.20mm, 0.23mm, 0.25mm, 0.28mm, 0.30mm, 0.33mm, 0.38mm, 0.40mm, 0.45mm, 0.50mm, 0.55mm, 0.60mm, 0.63mm, 0.65mm, 0.70mm, 0.75mm, 0.80mm, 0.85mm, 0.90mm, 1.00mm

No.			
09407	-	24	3.1

▲ No warranty as consumables

**09402 16Pc. Feeler Gauge Set 0.05-1.00mm**

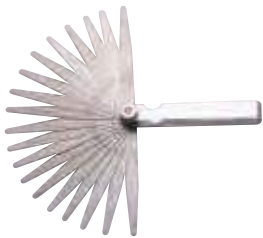
- Made of 65Mn steel, with polished surface

**Specification**

- Feeler Gauge: 0.05mm, 0.10mm, 0.15mm, 0.20mm, 0.25mm, 0.30mm, 0.35mm, 0.40mm, 0.50mm, 0.55mm, 0.60mm, 0.70mm, 0.75mm, 0.80mm, 0.90mm, 1.00mm

No.			
09402	-	12	1.3

▲ No warranty as consumables

**Level****09405 23Pc. Feeler Gauge Set 0.02-1.00mm, Metric & SAE**

- Made of 65Mn steel, with polished surface

**Specification**

- Feeler Gauge: 0.02mm, 0.03mm, 0.04mm, 0.05mm, 0.10mm, 0.15mm, 0.20mm, 0.25mm, 0.30mm, 0.35mm, 0.40mm, 0.45mm, 0.50mm, 0.55mm, 0.60mm, 0.65mm, 0.70mm, 0.75mm, 0.80mm, 0.85mm, 0.90mm, 0.95mm, 1.00mm

No.			
09405	-	36	3.7

▲ No warranty as consumables



- Accuracy: 0.5mm/m
- Being magnetic for easy operation
- Two-tone end cover with soft rubber coating, preventing it from fall-off
- CNC-formed inner wall of level bubble, being smooth and clean with even bending rate
- Measuring surface subjected to bottom milling and finishing for straightness
- Body scaled for auxiliary measurement

No.	Spec.	L(mm)			
91601	12"	300	10	60	11.2
91602	18"	450	10	60	15.7
91603	24"	600	10	60	21
91604	30"	750	6	30	12.2
91605	36"	900	6	30	14.5
91606	48"	1200	6	30	19.3

▲ No warranty as consumables







### 91503 Vernier Caliper 0-300mm



- Measurement range: 0-300mm
- Made of stainless steel, ensuring high measurement accuracy
- For measurement of inner hole, outer circle and depth

No.	Measuring Range (mm)	Indexing (mm)	Accuracy(mm)			
91503	0-300	0.02	+/-0.03	4	24	22.9

▲ Excluded from lifetime warranty terms

### 91512 Digital Caliper 0-200mm



- Measurement range: 0-200mm and accurate reading Made of stainless steel, ensuring high measurement accuracy
- Reset at any position, and metric/inch conversion
- Relative/absolute value. With data output port RS232 Be able to conversion with

No.	Measuring Range (mm)	Indexing (mm)	Accuracy(mm)			
91512	0-200	0.01	+/-0.03	6	36	18

▲ Excluded from lifetime warranty terms

### 91511 Digital Caliper 0-150mm



- Measurement range: 0-150mm and accurate reading Made of stainless steel, ensuring high measurement accuracy
- Reset at any position, and metric/inch conversion
- Relative/absolute value. With data output port RS232 B

No.	Measuring Range (mm)	Indexing (mm)	Accuracy(mm)			
91511	0-150	0.01	+/-0.03	6	36	13.9

▲ Excluded from lifetime warranty terms

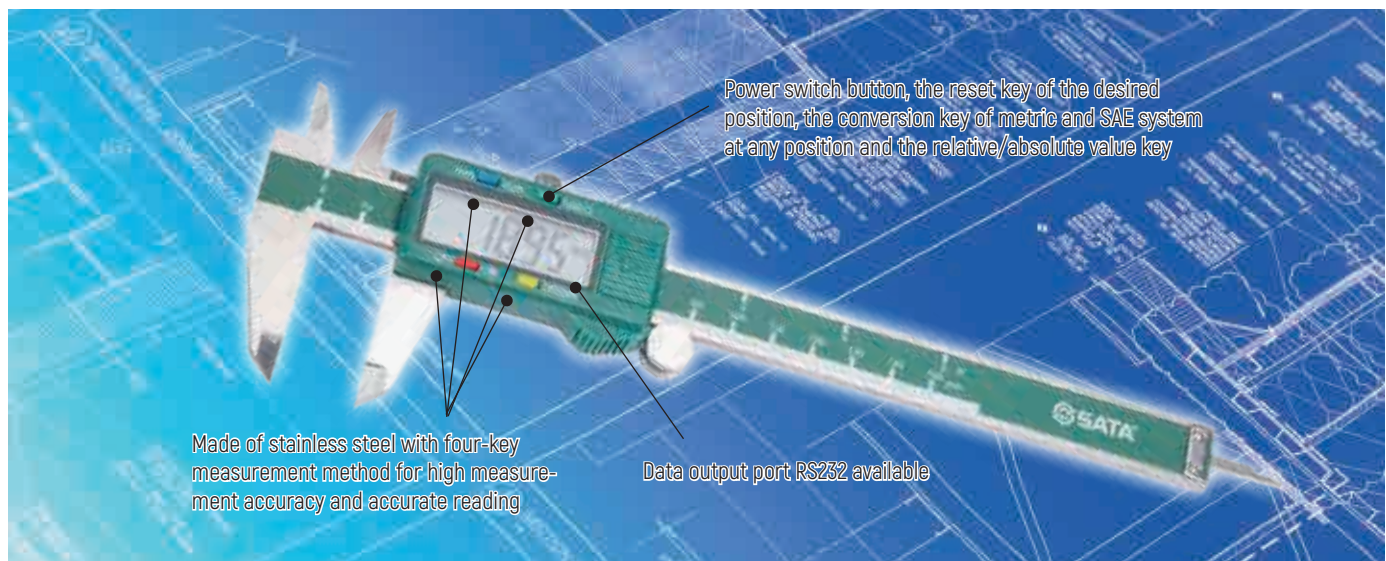
### 91513 Digital Caliper 0-300mm



- Measurement range: 0-300mm and accurate reading Made of stainless steel, ensuring high measurement accuracy
- Reset at any position, and metric/inch conversion
- Relative/absolute value. With data output port RS232 Be able to conversion with

No.	Measuring Range (mm)	Indexing (mm)	Accuracy(mm)			
91513	0-300	0.02	+/-0.03	4	24	19.8

▲ Excluded from lifetime warranty terms





## 91521 Dial Caliper 0-150mm



- Measurement range: 0-150mm
- Made of stainless steel, easy to read
- Indicator core upgraded to two-way shockproof performance
- With outer ring locking device

No.	Measuring Range (mm)	Indexing (mm)	Accuracy(mm)			
91521	0-150	0.02	+/-0.03	6	36	13.8

▲ Excluded from lifetime warranty terms

## 91522 Dial Caplier 0-200mm



- Measurement range: 0-200mm
- Made of stainless steel, easy to read
- Indicator core upgraded to two-way shockproof performance
- With outer ring locking device

No.	Measuring Range (mm)	Indexing (mm)	Accuracy(mm)			
91522	0-200	0.02	+/-0.03	6	36	19.4

▲ Excluded from lifetime warranty terms

## 91523 Dial Caplier 0-300mm



- Measurement range: 0-300mm
- Made of stainless steel, easy to read
- Indicator core upgraded to two-way shockproof performance
- With outer ring locking device

No.	Measuring Range (mm)	Indexing (mm)	Accuracy(mm)			
91523	0-200	0.02	+/-0.03	4	24	23

▲ Excluded from lifetime warranty terms



Tool Knowledge Station

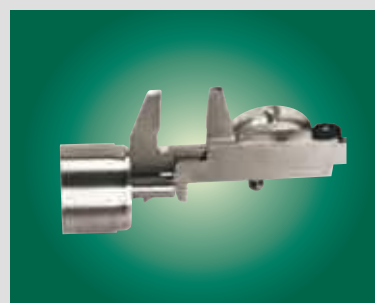
## Measurement Applications



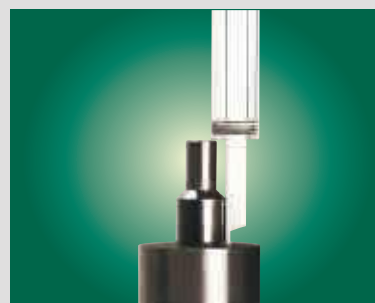
Outer diameter measurement



Inner diameter measurement



Difference measurement



Depth measurement

## High-Precision Digital Caliper (with NGTC)



91514



91515



91516

- High measurement accuracy
- Certified by national professional organization for accuracy
- Digital large display to facilitate reading

No.	Measuring Range (mm)	Indexing (mm)	Accuracy(mm)			
91514	0-150	0.01	0.02	6	36	12.2
91515	0-200	0.01	0.02	6	36	16.9
91516	0-300	0.01	0.03	4	24	17.5

▲ Excluded from lifetime warranty terms

## Digital Depthometer



91551



91552



91553

- Measuring base is polished twice to fit close to the measuring object
- Large digital display for quick reading

No.	Measuring Range (mm)			
91551	0-150	6	36	7
91552	0-200	6	36	8
91553	0-300	6	24	10

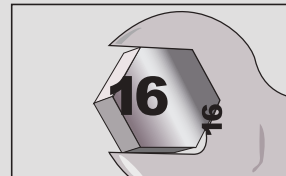
▲ Excluded from lifetime warranty terms



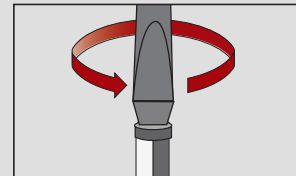
### Tool Knowledge Station

## Common Sense for using SATA tools

### Use tools correctly



Wrench size and nut type must be the same



Make sure the tool is in normal use position



Repair frequently and replace rusty or damaged tools in time



When using with electric and pneumatic tools, please select special electric and pneumatic hand tools



Wear protective equipment if required by work environment



Make sure the cabinet is locked and pulley active before moving the toolbox





## 91531 Outside Micrometer 0-25mm



- Measurement range: 0-25mm
- Hard alloy measuring surface, ensuring high wear resistance
- With micrometer screw locking device

No.	Measuring Range (mm)	Indexing (mm)	Accuracy(mm)			
91531	0-25	0.01	+/-0.004	6	36	12.3

▲ Excluded from lifetime warranty terms

## 91532 Outside Micrometer 25-50mm



- Measurement range: 25-50mm
- Hard alloy measuring surface, ensuring high wear resistance
- With micrometer screw locking device

No.	Measuring Range (mm)	Indexing (mm)	Accuracy(mm)			
91532	25-50	0.01	+/-0.004	6	36	16

▲ Excluded from lifetime warranty terms

## 91533 Outside Micrometer 50-75mm



- Measurement range: 50-75mm
- Hard alloy measuring surface, ensuring high wear resistance
- With micrometer screw locking device

No.	Measuring Range (mm)	Indexing (mm)	Accuracy(mm)			
91533	50-75	0.01	+/-0.004	6	36	23.3

▲ Excluded from lifetime warranty terms

## 91539 Micrometer Base



No.			
91539	-	10	4

▲ Excluded from lifetime warranty terms

## IP65 Digital Micrometer



91534



91535

No.	Measuring Range (mm)	Indexing (mm)	Accuracy(mm)			
91534	0-25	0.001	0.002	6	36	7
91535	25-50	0.001	0.002	6	36	7

▲ Excluded from lifetime warranty terms





## 62709 Laser Distance Meter 30M



Maximum measuring range <sup>1</sup>	0.2-30m
Measurement accuracy <sup>2</sup>	+/-3 mm
Measurement Unit	m/ft+in
Laser level	Class 2
Laser type	630-670nm, <1mW
Single measurement	✓
Key	Soft rubber key
Operating temperature	0°C ~40°C
Storage temperature	-10°C ~60°C
Battery life	Up to 5000 measurements
Battery selection	AAA 2 x 1.5V
Automatic laser shutdown	30s
Automatic instrument shutdown	After 3 minutes

### 1 Range:

- Use sighting board or a better reflecting surface if under sunlight or target is not reflecting well

### 2 Accuracy:

- In good measuring conditions (good measuring surface, room temperature, indoor lighting, etc.), the rated range can be reached. In poor measurement conditions, such as too strong light, weak reflection on the surface of the measured object or too large temperature difference, the error will increase

- Typical accuracy +/-3mm
- Small size for easy carrying
- Single key for easy operation
- HD backlight display for clear data display
- Rugged case for durability
- 2 \* AA 15V batteries
- Automatic shutdown for saving power

No.	Spec.			
62709	30	8	20	13

## Laser Distance Meter



62712



62713

Range <sup>1</sup>	0.2-60mm (62712) 0.2-100mm (62713)
Accuracy <sup>2</sup>	+/- (2.0mm+5x10-5D)
Single measurement	✓
Continuous measurement	✓
Area measurement	✓
Volume measurement	✓
Simple Pythagorean	✓
Quadratic Pythagorean <sup>①</sup>	✓
Quadratic Pythagorean <sup>②</sup>	✓
Automatic level	✓
Automatic verticality	✓
Addition and Subtraction	✓
Angular Transducer	✓
Angle measurement accuracy <sup>3</sup>	+/- (0.3° +0.1° +0.01 * D)
Measuring Basis	Front/rear benchmark
Measurement Unit	m /ft/ in /ft+in
Auto shutdown	Automatic shutdown after no operation for 3 minutes
Screen Type	20-inch screen
History measurement record	20 sets
Laser level	Class 2
Laser type	630-670nm, <1mw
Operating temperature	0~+40 (32F~+104F)
Size	115 × 49 × 26mm

### 1 Range:

- The range data is referenced against the default rear benchmark; the maximum range will be changed according to different models. For the actual range, see the outer packing of the machine.

### 2 Accuracy (refers to the measured distance):

- In good measuring conditions (good measuring surface, room temperature, indoor lighting, etc.), the rated range can be reached. In poor measurement conditions, such as too strong light, weak reflection on the surface of the measured object or too large temperature difference, the error will increase

### 3 Angle measurement accuracy

- 01° is the error caused by temperature, D is +/-45, for example: 0° error is +/-0.3° at normal temperature, and 45° error is +/-0.85° at abnormal temperature
- Tip: Use sighting board or a better reflecting surface if under sunlight or target is not reflecting well

- Typical accuracy +/-2mm

- Angle measurement function

- High-definition backlight display capable of displaying 5 lines of data at the same time, with data comparison at a glance

- Capable of storing 20 sets of history data

- Capable of single measurement, continuous measurement, maximum/minimum measurement, area and volume measurement, hook, automatic leveling, automatic verticality, as well as Pythagorean, addition and subtraction operation

- Prompt with beeper

- Charging with Micro USB

- Automatic shutdown for saving power

No.	Spec.			
62712	60	-	20	5.3
62713	100	-	20	5.3





## 62703 Ultrasonic Distance Meter



- Measurement range: 0.55-15m
- Accuracy: +/- (0.5%+1digit)
- Direct conversion between imperial and metric systems
- Locating the point by laser
- Memory function
- Length calculation range: 300.00m
- Area calculation range: 225m<sup>2</sup>
- Volume calculation range: 3375m<sup>3</sup>
- Auto power off
- Low power consumption

No.	Measuring Range			
62703	55cm-15m	10	40	9.3

▲ No warranty as consumables

## Laser Distance Meter



62704



62705

- Effective range: 0.2 ~ 60m(62704)/0.2 ~ 80m(62705)
- Typical accuracy: +/-1.5mm
- Double measurement buttons, easy to use
- HD backlight display, displaying 4 lines of data at the same time, ensuring clear data contrast
- Available for saving 20 sets of historical data
- Available for single/continuous measurement; max./min. measurement; area/volume measurement; indirect pythagorean theorem measurement
- Available for buzzer prompt
- Available for automatic power-off, electric energy saving

No.			
62704	-	12	5.1
62705	-	12	5.1

▲ Please refer to the instruction for detailed warranty rules

# Others Hand Tools

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	Pipe Wrench	206
	Bench Vice	206-207
	Pipe Cutter	207-208
	Chain Pipe Wrench	210
	G Clamp	210
	Riveter	210-211
	Puller	211
	Extractor	212
	Pickup Tool	212





## Heavy-Duty Ductile Iron Bench Vice



- Clamp body made of ductile iron
- Big clamping force
- Big openness
- Rotation of up to 210°

No.	Spec.	Openness (mm)	Clamping force (kg)	Gross/Net Weight(kg)			
70851	4"	127	2500	8.7/7.9	-	1	9.4
70852	5"	152	3500	12.5/11.8	-	1	13.3
70853	6"	178	4500	19/17.8	-	1	20
70854	8"	229	5000	27/25.8	-	1	28.2

▲ No warranty as consumables

## Ratcheting Pipe Cutter Blade



97317



97318

- Suitable for carbon steel and stainless steel pipe
- Special for 97315, 97316 Ratcheting pipe cutter

### Cutting capacity

- Carbon steel pipe Pipe wall thickness < 3.2mm
- Stainless steel pipe Pipe wall thickness 1.5mm-3.0mm

No.	Blade cutting capability	Tube wall thickness(mm)			
97317	Carbon steel pipe Stainless steel pipe	< 3.2 1.5< Pipe wall thickness< 3.0	10	100	2.1
97318	Stainless steel pipe	< 1.5	10	100	3

▲ No warranty as consumables

## Ratcheting Pipe Cutter



97316



97315

- Suitable for pipe diameter from Ø16 to Ø35
- Special blades ensure operating without chips or burrs
- Including two piece of blade 97317
- Suitable for pipe of carbon steel and stainless steel
- It applies to the carbon steel pipe and stainless steel pipe
- For stainless steel pipe (thickness <1.5 mm) to be cut, it is necessary to replace to blade 97318 which is sold separately
- The ratchet mechanism makes it easier to cut. Constant blade feeding amount (power) is kept by the automatic feeding function without any excessive forces
- Swing angle is 75°, which makes it easy to operate even in narrow places
- The body is made of aluminum alloy; the surface treatment is chrome-plated finish with excellent wear resistance
- Release function can prevent the rotary head locking

No.	Spec. (mm)	Steel tube wall thickness(mm)	Stainless steel tube weight(kg)			
97315	Ø16-35	<3.2	1.5-3.0	-	10	10.5
97316	Ø35-66	<3.8	1.5-3.0	-	10	19.4

## Pipe Cutter



97301



97302

- 97301 suitable for cutting copper, aluminum and thin-walled tubes between 3mm and 30mm in diameter
- 97302 suitable for cutting copper, aluminum and thin-walled tubes between 3mm and 32mm in diameter
- Cleanliness and integrity guaranteed
- Spare blades available in handle
- When closing the cutter, do not contact the cutter with the roller, keep it clean and lubricate the parts regularly with light grease.

No.	Cutting Range(mm)			
97301	3-30	6	60	16
97302	3-32	6	60	19.9

▲ No warranty as consumables



## 97303 Pipe Cutter 6-64mm



- Suitable for cutting copper pipe, aluminum pipe and thin-walled pipe with diameter between 6mm and 64mm
- Cleanliness and integrity guaranteed
- Spare blades provided in handle
- When closing the cutter, do not contact the cutter with the roller, keep it clean and lubricate the parts regularly with light grease.

No.	Cutting Range(mm)			
97303	6-64	6	24	16.9

▲ No warranty as consumables

## 97304 PVC Pipe Cutter 3-42mm



- Suitable for the PVC pipe below Diameter 42mm

No.	Max. Cutting Range(mm)			
97304	3-42	12	48	19.3

▲ No warranty as consumables

## 97305 Mini Pipe Cutter 3-16mm



- Suitable for cutting thin-walled pipe, plastic pipe and copper pipe with diameter between 3mm and 16mm
- Free of rough edges
- Suitable for use in narrow spaces

No.	Cutting Range(mm)			
97305	3-16	12	120	14.6

▲ No warranty as consumables

## S/S Pipe Cutter

\* One high-speed steel trimmer provided for 97307



97307



97306

- Special pin for quick blade replacement without special tools
- Spare blades available in cutter holder
- Please select SATA blade 97313

No.	Max. Cutting Range(mm)			
97306	3-35	6	18	14
97307	3-45	6	18	19

▲ No warranty as consumables

## Tube Bender



- Suitable for copper tubes and aluminum tubes with different curved outer diameters
- Elbow range: 0-180°
- Elbow coil made of aluminum alloy for firmness and durability
- Anti-slipping handle coated with two-tone rubber for comfort

No.	Maximum bending diameter(mm)			
97321	6	1	18	16
97322	8	1	18	19
97323	10	1	12	18
97324	12	1	12	18
97325	16	1	6	17

## 97326 3-in-1 Tube Bender 90°



- Suitable for bending copper pipes and aluminum pipes with outer diameter of 6/8/10mm
- Elbow range: 0-90°
- Elbow coil made of aluminum alloy for firmness and durability

No.	Maximum bending diameter(mm)			
97326	6/8/10	1	18	17





### 97327 3-in-1 Tube Bender 180°



- Suitable for bending copper pipes and aluminum pipes with outer diameter of 6/8/10mm
- Elbow range: 0-90°
- Elbow coil made of aluminum alloy for firmness and durability

No.	Maximum bending diameter(mm)			
97327	6/8/10	1	18	17

### 97311 2Pc. Pipe Cutter Blades 3x18mm



- Made of hardened alloy steel for cutting copper and aluminum tubes and thin conduits
- Suitable for 97301 and 97302 97305 pipe cutters

No.	Spec. (mm)			
97311	3.0x18, 3.0x18	24	240	44

▲ No warranty as consumables

### 97331 Flaring Tool Φ3/16"-Φ5/8"



- Suitable for copper, aluminum and other metal pipes

No.	Expansion pipe diameter			
97331	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8"	6	24	20

### 97312 2Pc. Pipe Cutter Blades (6.2x18, 6.2x22mm)



- Made of hardened alloy steel for cutting copper pipes, aluminum tubes and thin tubes
- Suitable for 97303 pipe cutters

No.	Spec. (mm)			
97312	6.2x18, 6.2x22	24	240	5.7

▲ No warranty as consumables

### Stainless Tube Bender



- Elbow range: 0-180°
- The elbow coil forged with carbon steel for firmness and durability

No.	Maximum bending diameter (mm)	Pipe thickness			
97341	6	Below 1mm	1	12	14
97342	8	Below 1mm	1	12	14.6
97343	10	Below 1.2mm	1	6	12.4
97344	12	Below 1.2mm	1	6	16.2

### 97313 Stainless Pipe Cutter Blade 5x20mm



- Made of HSS high speed steel for cutting stainless steel pipes
- Suitable for 97306 and 97307 stainless steel pipe cutters

No.	Spec. (mm)			
97313	5x20	24	240	6

▲ No warranty as consumables

## Strap Wrench



- Nylon-based belt to protect workpiece surface
- Suitable for twisting working parts

No.	Spec. (mm)			
97461	9"	6	60	20
97462	11"	5	20	12

▲ No warranty as consumables

## Chain Pipe Wrench



- Cr-V steel forged
- 28 chains, clamping range 55-110mm

No.	Spec. (mm)	Application(mm)			
97451	12"(28 Sections)	Diameter 55-110	4	16	14.6
97452	15"(34 Sections)	Diameter 60-130	4	16	19.3

## G Clamp



- Made by precision casting with high quality spheroidal cast iron, with electrostatic coating on surface
- Special reinforcement rib design, ensuring higher clamping force and safer use
- Precision machined screw rod, black finished surface, longer service life
- Special movable clamping head, ensuring effective clamping of workpiece and not easy to fall off

No.	Spec.			
90433	3"	6	24	17.8
90434	4"	4	16	17
90435	6"	6	12	20
90436	8"	1	8	18

▲ No warranty as consumables

## 90521 Manual Rivet Nut Tool



- Replaceable head for wide riveting range, suitable for the following rivet nuts:
  - M3(6-32), M4(8-32), M5(10-24), M6(1/4-20);
  - M8(5/16-18), M10( 3/8-16), M12(1/2-13)
- Handle with connecting rod to drive the part to exit the nut automatically
- New structure for easy operation and labor saving

No.	L(mm)			
90521	400	-	5	9

▲ No warranty as consumables

## 90501 Manual Riveter 8"



- Nose piece configuration specifications including 24mm (3/32"); 3.2mm (1/8"); 4.0mm(5/32"); 4.8mm(3/16")
- Circular knurled nose piece available for removal without tools, nose piece with lock structure design, ensuring no looseness
- Ergonomic handle, comfortable and labor-saving

No.	Spec.			
90501	8"	-	10	6.1

▲ No warranty as consumables

## Heavy Duty Riveter



- Outer hexagon socket, available for operating stroke adjustment
- Thicker heat-treated handle, ensuring long service life
- 3-piece chromium-molybdenum alloy heat-treated claw, ensuring a long service life
- Nose piece replacement wrench fixed on the riveter, ensuring easy access

No.	Spec.			
90502	13"	-	8	9.5
90504	11"	10	10	16

▲ No warranty as consumables



## 90522 3-in-1 Multifunctional Hand Riveter



- Simple Structure, high reliability
- Reinforced carbon steel heat treatment handle

No.	L(mm)			
90522	265	-	8	18

▲ No warranty as consumables

## Reversible 2-Jaw Puller



- The heat treated pin of drive screw is strong and durable
- High strength drive screw and cold-rolled threads offer smooth peration
- Special designed and forged puller jaws offer high clamping and pulling force to avoid slip

No.	Spec.	L(mm)	Maximum drawing diameter(mm)	Stroke (mm)			
90623	3"	140	75	60	-	48	21.8
90624	4"	160	100	95	-	24	19.6
90626	6"	240	150	160	1	12	21.9
90628	8"	333	200	235	-	5	19
90630	10"	360	250	240	-	4	23.9
90632	12"	405	300	270	-	3	24.9

▲ 1-year warranty for overall unit, lifetime warranty for jaw

## Reversible 3-Jaw Puller



- The heat treated pin of drive screw is strong and durable
- High strength drive screw and cold-rolled threads offer smooth peration
- Special designed and forged puller jaws offer high clamping and pulling force to avoid slip

No.	Spec.	L(mm)	Maximum drawing diameter(mm)	Stroke (mm)			
90633	3"	130	75	60	-	24	14.5
90634	4"	160	100	95	1	18	20.1
90636	6"	245	150	160	1	8	20.9
90638	8"	330	200	235	-	4	21.6
90640	10"	360	250	240	-	3	25.1
90642	12"	405	300	270	-	2	23.1

▲ 1-year warranty for overall unit, lifetime warranty for jaw

## 90510 Caulking Gun 9"



- High quality aluminum alloy handle, design for labor-saving
- Anti-Slip
- 360° rotating gun body, suitable for narrow space

No.	Spec.			
90510	9"	-	12	9.6

▲ No warranty as consumables



## 90511 Caulking Gun 15"



- High quality aluminum alloy handle, design for labor-saving
- Anti-Slip
- Able to extrude high viscosity glue

No.	Spec.			
90511	15"	-	12	10.9

▲ No warranty as consumables

## 11924 Magnetic Pickup Tool 380mm



No.	Spec. (mm)			
11924	380	6	-	-

▲ No warranty as consumables

## Flexible Magnetic Pickup Tool



- Acetate handle for heat, filth and dirt resistance
- Long-life flexible rod with chrome-plated surface for flexibility
- Quality strong magnet capable of adsorbing falling workpiece

No.	Spec.	L(mm)	Pickup weight(kg)			
64104	6	502	0.5	6	48	7.8
64101	8	510	1	6	48	11.2
64102	8	510	2	6	48	11.5
64103	8	510	3	6	48	11.6

▲ No warranty as consumables

## 5Pc. Fine / Coarse Threaded Extractor Set



09704  
5Pc. Fine Threaded Extractor Set



09704A  
5Pc. Coarse Threaded Extractor Set

- Made of GCr. Bearing steel
- Quick and convenient removing of damaged screws, pipes, bolts and tacks

Spec.	Applicable screw specification	Applicable drill bits specification	Handle diameter
No.1	M3-M6	2.0	3.3
No.2	M6-M8	3.0	5.3
No.3	M8-M10	4.0	6.4
No.4	M10-M14	6.5	8.8
No.5	M14-M18	7.0	11.2

No.			
09704	12	72	11.1
09704A	6	72	11.1

▲ No warranty as consumables

# Insulated Tools

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NEV Repair Tool Set

**214-215**



Insulated Set

**216**



Insulated Socket

**216-218**



Insulated Wrench

**220-222**



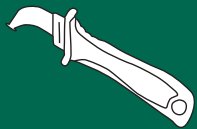
Insulated Screwdriver

**223-227**



Insulated Pliers

**227-232**



Insulated Cable Cutter

**233**





## 09933 39Pc. NEV Repair Tool Set



- 8Pc. 3/8" Dr. VDE Insulated 6-Point Socket (8,10,11,12,13,14,17,19mm)
- 1Pc. 3/8" Dr. VDE Insulated T-shaped Handle 200mm
- 1Pc. 3/8" Dr. VDE Insulated Drive Wobble Extensions 125mm
- 1Pc. 3/8" Dr. VDE Insulated Quick-Release Ratchets 200mm
- 4Pc. 3/8" Dr. VDE Insulated 6-Point Screwdriver Socket (4,5,6,8mm)
- 7Pc. VDE Insulated Open End Wrench (7,8,10,12,13,14,17mm)
- 3Pc. T-Series Insulated Phillips Screwdriver Set with Two-Tone Handle (#0\*60,#1\*80,#2\*100mm)
- 3Pc. T-Series Insulated Slotted Screwdriver with Two-Tone Handle (2.5\*75,4\*100,5.5\*125mm)
- 1Pc. G-Series VDE Insulated Circuit Tester 370mm
- 1Pc. VDE Insulated Voltage-Withstanding Long Nose Pliers 6"
- 1Pc. VDE Insulated Voltage-Withstanding Diagonal Pliers 6"
- 1Pc. VDE Insulated Voltage-Withstanding Linesman Pliers 8"
- 7Pc. VDE Insulated Torx® Hex Key (T10, T15, T20, T25, T27, T30, T40)

No.			
09933	1	1	6.9

## 09928 68Pc. NEV Repair Tool Set

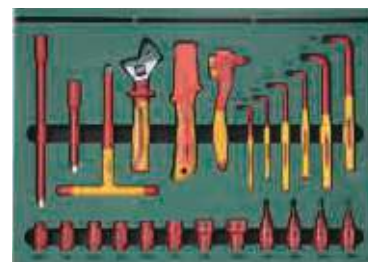


\* Applicable to tool trolley 95125 (tool trolley not included)

- 8Pc. 3/8" Dr. VDE Insulated 6-Point Socket (8,10,12,13,14,16,17,18mm)
- 1Pc. 3/8" Dr. VDE Insulated Drive Wobble Extensions 125mm
- 1Pc. 3/8" Dr. VDE Insulated Drive Wobble Extensions 250mm
- 1Pc. 3/8" Dr. VDE Insulated Quick-Release Ratchets 200mm
- 1Pc. 1/2" Dr. VDE Insulated Quick-Release Ratchets 250mm
- 1Pc. 1/2" Dr. VDE Insulated T-Shaped Handle 200mm
- 2Pc. 1/2" Dr. VDE Insulated Drive Wobble Extensions (125,250mm)
- 11Pc. 1/2" Dr. VDE Insulated 6-Point Socket (10,11,12,13,14,16,17,19,21,22,24mm)
- 5Pc. 1/2" Dr. VDE Insulated 6-Point Screwdriver Socket (4,5,6,8,10mm)
- 13Pc. VDE Insulated Open End Wrench (8,10,12,13,14,15,16,17,18,19,21,22,24mm)
- 13Pc. VDE Insulated Box Wrench (8,10,12,13,14,15,16,17,18,19,21,22,24mm)
- 1Pc. VDE Insulated Voltage-Withstanding Adjustable Wrench 8"
- 3Pc. T-Series Insulated Phillips Screwdriver Set with Two-Tone Handle (#0\*60,#1\*80,#2\*100mm)
- 1Pc. T-Series Insulated Slotted Screwdriver with Two-Tone Handle (2.5\*75,4\*100,5.5\*12mm)
- 1Pc. VDE Insulated Voltage-Withstanding Long Nose Pliers 8"
- 1Pc. VDE Insulated Voltage-Withstanding Diagonal Pliers 7"
- 1Pc. Insulated Voltage-Withstanding Linesman Pliers 8"
- 1Pc. Protected-Type VDE Insulated Cable Stripper

No.			
09928	1	1	10

## 09935 59Pc. NEV Repair Tool Set



- 8Pc. 3/8" Dr. VDE Insulated 6-Point Socket (8,10,12,13,14,17,19,22mm)
- 1Pc. 3/8" Dr. VDE Insulated T-Shaped Handle 200mm
- 2Pc. 3/8" Dr. VDE Insulated Drive Wobble Extensions (125,250mm)
- 1Pc. 3/8" Dr. VDE Insulated Quick-Release Ratchets 200mm
- 4Pc. 3/8" Dr. VDE Insulated 6-Point Screwdriver Socket (4,5,6,8mm)
- 12Pc. VDE Insulated Open End Wrench (6,7,8,10,12,13,14,15,16,17,18,19mm)
- 1Pc. VDE Insulated Voltage-Withstanding Adjustable Wrench 8"
- 4Pc. T-Series Insulated Phillips Screwdriver Set with Two-Tone Handle (#0\*60,#1\*80,#2\*100,#3\*150mm)
- 4Pc. T-Series Insulated Slotted Screwdriver with Two-Tone Handle (2.5\*75,4\*100,5.5\*125,6.5\*150mm)
- 9Pc. VDE Insulated Torx® Screwdriver (T8,T10,T15,T20,T25,T27,T30,T40,T45)
- 1Pc. G-Series VDE Insulated Circuit Tester 370mm
- 1Pc. VDE Insulated Voltage-Withstanding Long Nose Pliers 8"
- 1Pc. VDE Insulated Voltage-Withstanding End Cutting Nippers 6"
- 1Pc. VDE Insulated Voltage-Withstanding Diagonal Pliers 6"
- 1Pc. VDE Insulated Voltage-Withstanding Linesman Pliers 8"
- 1Pc. Insulated Voltage-Withstanding Cable Nippers 6"
- 6Pc. VDE Insulated Hex Key (2.5,3,4,5,6,8mm)
- 1Pc. Straight-Blade VDE Insulated Cable Stripper

No.			
09935	1	1	7.8

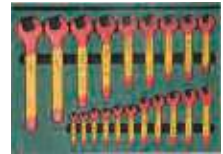
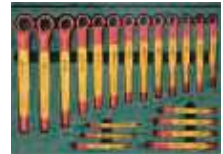
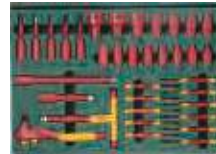
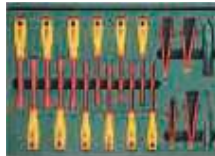
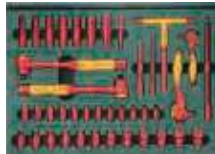


## 09936 116Pc. NEV Repair Tool Set



- 11Pc. 3/8" Dr. VDE Insulated 6-Point Socket (8,10,12,13,14,16,17,18,19,21,22mm)
- 6Pc. 3/8" Dr. VDE Insulated Long 6-Point Socket (8,10,12,14,15,17mm)
- 1Pc. 3/8" Dr. VDE Insulated T-Shaped Handle 200mm
- 2Pc. 3/8" Dr. VDE Insulated Drive Wobble Extensions (125,250mm)
- 1Pc. 3/8" Dr. VDE Insulated Quick-Release Ratchets 200mm
- 1Pc. 1/2" Dr. VDE Insulated Quick-Release Ratchets 250mm
- 1Pc. 1/2" Dr. VDE Insulated T-Shaped Handle 200mm
- 2Pc. 1/2" Dr. VDE Insulated Drive Wobble Extensions (125,250mm)
- 12Pc. 1/2" Dr. VDE Insulated 6-Point Socket (10,11,12,13,14,16,17,18,19,21,22,24mm)
- 5Pc. 1/2" Dr. VDE Insulated 6-Point Screwdriver Socket (4,5,6,8,10mm)
- 16Pc. VDE Insulated Open End Wrench (6,7,8,10,11,12,13,14,15,16,17,18,19,21,22,24mm)
- 12Pc. VDE Insulated Box Wrench (6,8,10,12,13,14,16,17,18,19,21,22mm)
- 1Pc. VDE Insulated Voltage-Withstanding Adjustable Wrench 8"
- 4Pc. T-Series Insulated Phillips Screwdriver Set with Two-Tone Handle (#0\*60,#1\*80,#2\*100,#3\*150mm)
- 4Pc. T-Series Insulated Slotted Screwdriver with Two-Tone Handle (2.5\*75,4\*100,5.5\*125,6.5\*150mm)
- 12Pc. VDE Insulated Nutdriver (4.0\*125,5.0\*125,5.5\*125,6.0\*125,7.0\*125,8.0\*125,9.0\*125,10\*125,11\*125,12\*125,13\*125,14\*125mm)
- 9Pc. VDE Insulated Torx® Screwdriver (T8,T10,T15,T20,T25,T27,T30,T40,T45)
- 1Pc. Non-Contact Circuit Tester
- 1Pc. G-Series VDE Insulated Circuit Tester 3\*70mm
- 1Pc. VDE Insulated Voltage-Withstanding Long Nose Pliers 8"
- 1Pc. VDE Insulated Voltage-Withstanding End Cutting Nippers 6"
- 1Pc. VDE Insulated Voltage-Withstanding Diagonal Pliers 6"
- 1Pc. VDE Insulated Voltage-Withstanding Linesman Pliers 8"
- 1Pc. Insulated Voltage-Withstanding Cable Nippers 6"
- 6Pc. VDE Insulated Hex Key (2.5, 3, 4, 5, 6, 8mm)
- 1Pc. VDE Insulated Electrician's Scissors 150mm
- 1Pc. Protective VDE Insulated Cable Stripper
- 1Pc. Straight-Blade VDE Insulated Cable Stripper

## 09937 166Pc. NEV Repair Tool Set



- 12Pc. 1/4" Dr. VDE Insulated 6-Point Socket (4,5,5.5,6,7,8,9,10,11,12,13,14mm)
- 1Pc. 1/4" Dr. VDE Insulated Quick-Release Ratchets
- 2Pc. 1/4" Dr. VDE Insulated Drive Wobble Extensions (75,150mm)
- 12Pc. 3/8" Dr. VDE Insulated 6-Point Socket (8,10,11,12,13,14,16,17,18,19,21,22mm)
- 7Pc. 3/8" Dr. VDE Insulated Long 6-Point Socket (8,10,12,13,14,17,19mm)
- 1Pc. 3/8" Dr. VDE Insulated T-Shaped Handle 200mm
- 2Pc. 3/8" Dr. VDE Insulated Drive Wobble Extensions (125,250mm)
- 1Pc. 3/8" Dr. VDE Insulated Quick-Release Ratchets 200mm
- 1Pc. 1/2" Dr. VDE Insulated Quick-Release Ratchets 250mm
- 1Pc. 1/2" Dr. VDE Insulated T-Shaped Handle 200mm
- 2Pc. 1/2" Dr. VDE Insulated Drive Wobble Extensions (125,250mm)
- 15Pc. 1/2" Dr. VDE Insulated 6-Point Socket (10,11,12,13,14,16,17,18,19,21,22,24,27,30,32mm)
- 5Pc. 1/2" Dr. 6-Point Screwdriver Socket (4mmx120mm,5mmx120mm,6mmx120mm,8mmx120mm,10mmx120mm)
- 20Pc. VDE Insulated Open End Wrench (6,7,8,9,10,11,12,13,14,15,16,17,18,19,21,22,24,27,30,32mm)
- 20Pc. VDE Insulated Box Wrench (6,7,8,9,10,11,12,13,14,15,16,17,18,19,21,22,24,27,30,32mm)
- 1Pc. VDE Insulated Voltage-Withstanding Adjustable Wrench 8"
- 4Pc. T-Series Insulated Phillips Screwdriver Set with Two-Tone Handle (#0\*60,#1\*80,#2\*100,#3\*150mm)
- 4Pc. T-Series Insulated Slotted Screwdriver with Two-Tone Handle (2.5\*75,4\*100,5.5\*125,6.5\*150mm)
- 12Pc. VDE Insulated Nutdriver (4.0\*125,5.0\*125,5.5\*125,6.0\*125,7.0\*125,8.0\*125,9.0\*125,10\*125,11\*125,12\*125,13\*125,14\*125mm)
- 9Pc. VDE Insulated Torx® Screwdriver (T8,T10,T15,T20,T25,T27,T30,T40,T45)
- 1Pc. Non-Contact Circuit Tester
- 1Pc. G-Series VDE Insulated Circuit Tester 3\*70mm
- 3Pc. VDE Insulated Slotted Precision Screwdriver with Two-Tone Handle (1.5\*0.23\*50,1.8\*0.30\*50,2.0\*0.40\*50mm)
- 3Pc. VDE Insulated Phillips Precision Screwdriver with Two-Tone Handle (PH00\*50,PH0\*50,PH1\*50mm)
- 5Pc. VDE Insulated Torx® Precision Screwdriver with Two-Tone Handle (T6\*50,T8\*50,T10\*50,T15\*50,T20\*50mm)
- 1Pc. VDE Insulated Voltage-Withstanding Long Nose Pliers 6"
- 1Pc. VDE Insulated Voltage-Withstanding End Cutting Nippers 6"
- 1Pc. VDE Insulated Voltage-Withstanding Diagonal Pliers 6"
- 1Pc. VDE Insulated Voltage-Withstanding Linesman Pliers 8"
- 1Pc. Insulated Voltage-Withstanding Bent Nose Pliers 6"
- 1Pc. Insulated Voltage-Withstanding Cable Nippers 6"
- 6Pc. VDE Insulated Hex Key (2.5, 3, 4, 5, 6, 8mm)
- 1Pc. Injection-Molded Two-Tone Insulated Saw Frame 150mm
- 1Pc. VDE Insulated Electrician's Scissors 150mm
- 1Pc. Straight-Blade VDE Insulated Cable Stripper
- 1Pc. 1/4" Series Insulated Torque Wrench 5-25Nm
- 1Pc. 3/8" series Insulated Torque Wrench 10-50Nm
- 1Pc. Injection-Molded Two-Tone VDE Insulated Fine Pointed Tips Tweezers 134mm
- 1Pc. Injection-Molded Two-Tone VDE Insulated Pointed Tips Tweezers, Inside Serrated 160mm
- 1Pc. Injection-Molded Two-Tone VDE Insulated Curved Pointed Tips Tweezers, Inside Serrated 159mm
- 1Pc. Injection-Molded Two-Tone VDE Insulated Flat Round Tips Tweezers, Inside Serrated 146mm

No.			
09936	1	1	16.3

No.			
09937	1	1	23.4



## 09267 20Pc. 1/2" Dr. VDE Socket Set



- 11Pc. 1/2" Dr. 6-Point Socket (10,11,12,13,14,17,19,22,24,27,32mm)
- 1Pc. 1/2" Dr. Professional Quick-Release Ratchets 250mm
- 1Pc. 1/2" Dr. Professional T-Shaped Handle 200mm
- 1Pc. 1/2" Dr. Professional Extension 125mm
- 1Pc. 1/2" Dr. Professional Extension 250mm
- 5Pc. 1/2" Dr. Hex Bits Socket (4,5,6,8,10mm)
- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Passed impact test, insulation layer adhesion test for safety and reliability
- Passed high and low temperature test with low temperature resistance of up to -40 degrees Celsius

No.	Spec.			
09267	1/2"	-	2	8.7

▲ No warranty as consumables

## 09268 16Pc. 3/8" Dr. VDE Socket Set



- 8Pc. 3/8" Dr. 6-Point Socket (8,10,12,13,14,17,19,22mm)
- 1Pc. 3/8" Dr. Professional Quick-Release Ratchets 200mm
- 1Pc. 3/8" Dr. Professional T-Shaped Handle 200mm
- 1Pc. 3/8" Dr. Professional Extension 150mm
- 1Pc. 3/8" Dr. Professional Extension 250mm
- 4Pc. 3/8" Dr. Hex Bits Socket (4,5,6,8mm)
- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Passed impact test, insulation layer adhesion test for safety and reliability
- Passed high and low temperature test with low temperature resistance of up to -40 degrees Celsius

No.	Spec.			
09268	3/8"	-	2	4.6

▲ No warranty as consumables

## 1/4" Dr. 6Pt. VDE Socket



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Made of Cr-V via cold extrusion
- Elegant chrome-plated surface for rust protection

No.	Spec. (mm)	L(mm)			
11504	4	42	12	192	2.5
11505	5	42	12	192	2.8
11515	5.5	42	12	192	2.8
11506	6	42	12	192	3
11507	7	42	12	192	3
11508	8	42	12	192	3
11509	9	42	12	192	3.4
11510	10	42	12	192	3.5
11511	11	42	12	144	4.5
11512	12	42	12	144	4.5
11513	13	42	12	144	4.5
11514	14	42	12	144	5.5

## 1/4" Dr. 6Pt. VDE Bit Socket, Hexagon



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Hexagonal bit made of S2 material
- Elegant chrome-plated surface for rust protection

No.	Spec. (mm)	L(mm)			
11523	3	66	6	108	2.6
11524	4	66	6	108	2.6
11525	5	66	6	108	2.6
11526	6	66	6	108	2.9
11528	8	66	6	108	3



### 1/4" Dr. VDE Extension Bar



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Made of Cr-V material and subjected to heat treatment
- Elegant chrome-plated surface for rust protection

No.	Spec. (mm)	L(mm)			
11982	75	91	6	108	6
11983	150	166	6	72	4

### 3/8" Dr. 12Pt. VDE Deep Socket



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Made of Cr-V via cold extrusion
- Elegant chrome-plated surface for rust protection

No.	Spec. (mm)	L(mm)			
12538	8	80	12	144	7.5
12540	10	80	12	144	9
12542	12	80	12	144	11.5
12544	14	80	12	144	12.5
12545	15	80	12	144	12.5
12547	17	80	8	96	9.9
12549	19	80	8	96	11
12552	22	80	6	72	10

### 3/8" Dr. 6Pt. VDE Socket



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
  - Made of Cr-V via cold extrusion
  - Elegant chrome-plated surface for rust protection
- Note: \* for new arrival

No.	Spec. (mm)	L(mm)			
12508	8	45	7	126	4.8
12510	10	45	7	126	4.8
12511	11	45	7	126	4.8
12512	12	45	7	126	4.8
12513	13	45	7	126	6
12514	14	45	7	126	6
12516	16	45	7	126	6
12517	17	45	5	90	6
12518	18	45	5	90	4.6
12519*	19	47	5	90	5.5
12521*	21	47	5	90	6.5
12522*	22	47	4	72	6.6

### 3/8" Dr. VDE Extension Bar



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Made of Cr-V material and subjected to heat treatment
- Elegant chrome-plated surface for rust protection

No.	Spec. (mm)	L(mm)			
12941	125	141	18	72	11.1
12942	250	266	12	48	14



## 3/8" Dr. VDE Bit Socket, Hexagon



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Hexagonal bit made of S2 material
- Elegant chrome-plated surface for rust protection

No.	Spec. (mm)	L(mm)			
22704	4.0	77	12	144	8.5
22705	5.0	77	12	144	9
22706	6.0	77	12	144	9
22708	8.0	77	12	144	9

## 1/2" Dr. 6Pt. VDE Socket



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
  - Made of Cr-V via cold extrusion
  - Elegant chrome-plated surface for rust protection
- Note: \* for new arrival

No.	Spec. (mm)	L(mm)			
14010	10	55	12	144	9.6
14011	11	55	12	144	9.6
14012	12	55	12	144	9.6
14013	13	55	12	144	9.6
14014	14	55	12	144	9.6
14016	16	55	12	144	9.6
14017	17	55	12	144	11.1
14018	18	55	12	144	11.1
14019	19	55	12	144	11.1
14021	21	55	10	120	10.7
14022	22	55	10	120	11.9
14024	24	55	10	120	11.9
14027*	27	55	6	72	10.4
14030*	30	55	6	72	11.9
14032*	32	55	6	72	11.9

## 1/2" Dr. VDE Extension Bar



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Made of Cr-V material and subjected to heat treatment
- Elegant chrome-plated surface for rust protection

No.	Spec. (mm)	L(mm)			
12985	125	141	6	72	17.6
12986	250	266	8	32	15.1

## 1/2" Dr. VDE Bit Socket, Hexagon



Impregnated insulation layer meeting VDE680 standard  
Three specifications printed for distinguishing

No.	Spec. (mm)	L(mm)			
24404	4x120	120	18	144	16.8
24405	5x120	120	18	144	16.8
24406	6x120	120	18	144	16.8
24408	8x120	120	18	144	16.8
24410	10x120	120	18	144	18.3



## Insulated Cord Sleeve



- Impregnated insulation layer meeting VDE680 standard
- Three specifications printed for distinguishing

No.	Spec.	L(mm)			
93491	1#	100	5	90	1
93492	2#	100	5	90	1
93493	3#	100	5	90	1

▲ No warranty as consumables

## Insulated Self-Gripping Cord Sleeve



- Impregnated insulation layer meeting VDE680 standard
- Cross card slot provided

No.	Spec. (mm)	L(mm)			
93494	10	80	5	90	1.5
93495	20	100	5	90	2.5
93496	30	110	5	90	4

▲ No warranty as consumables

## 93480 VDE Electricians Insulated Tape



Color: Red

No.	Thickness(mm)	Length(mm)	L(mm)			
93480	0.15	10	71	20	240	13

▲ No warranty as consumables

## 92801 Insulated Dead Blow Hammer



No.	L(mm)			
92801	310	4	24	18

▲ No warranty as consumables

## 93419 Insulated Hacksaw 6"



- Socket handle insulation meeting EN/IEC 60900 standard
- Firm and durable metal saw frame
- Screw tightening structure, facilitating saw blade replacement

No.	Spec. (mm)	L(mm)			
93419	150	375	8	48	25

▲ No warranty as consumables

**03181 VDE Fine Pointed Tips Tweezers 134mm**

• Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard

No.	Spec. (mm)			
03181	134	12	288	10

**03182 VDE Pointed Tips Tweezers, Inside Serrated 160mm**

• Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard

No.	Spec. (mm)			
03182	160	12	288	13

**03183 VDE Curved Pointed Tips Tweezers, Inside Serrated 159mm**

• Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard

No.	Spec. (mm)			
03183	159	12	288	13

**03184 VDE Flat Round Tips Tweezers, Inside Serrated 145mm**

• Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard

No.	Spec. (mm)			
03184	145	12	288	13

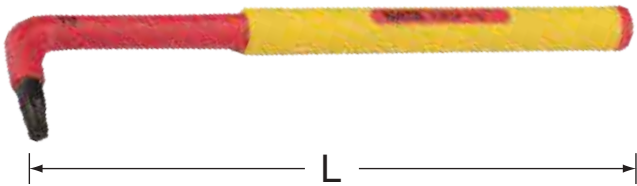
**VDE Hex Key**

• Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard  
 • Made of S2 material and subjected to heat treatment  
 • Blackened surface for high rust protection

No.	Spec. (mm)	L(mm)			
80402	2.5	134	20	400	7.2
80403	3	134	20	400	7.2
80404	4	170	10	200	11.7
80405	5	170	10	200	11.7
80406	6	215	10	120	20.3
80408	8	215	10	120	20.6



## VDE Torx® Wrench



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Made of S2 material and subjected to heat treatment
- Blackened surface for high rust protection

No.	Spec.	L(mm)			
84801	T10	134	20	200	4
84802	T15	134	20	200	4
84803	T20	170	10	200	12.5
84804	T25	170	10	200	12.5
84805	T27	170	10	200	12.6
84806	T30	170	10	240	13.9
84807	T40	215	10	120	20.2
84808	T45	215	10	160	26.9
84809	T50	215	10	80	13.9

## 1/4" Dr. Insulated Torque Wrench 5-25N.m



- Tested to 10,000 volts, meeting IEC/EN 60900 standard
- Forward torque accuracy: +/-4%

No.	Spec. (Nm)	L(mm)			
96610	5-25	285	1	12	6.5

▲ Warranty of 6 months (except for the insulating layer)

## 3/8" Dr. VDE Torque Wrench



- Tested to 10,000 volts, meeting IEC/EN 60900 standard
- Forward torque accuracy: +/-4%

No.	Spec. (Nm)	L(mm)			
96611	5-25	285	1	12	6.5
96612	10-50	285	1	12	6.5
96614	20-100	390	1	12	15

▲ Warranty of 6 months (except for the insulating layer)

## 1/2" Dr. Insulated Torque Wrench



- Tested to 10,000 volts, meeting IEC/EN 60900 standard
- Forward torque accuracy: +/-4%

No.	Spec. (Nm)	L(mm)			
96613	10-50	285	1	12	6.6
96615	20-100	390	1	12	10
96616	40-200	560	1	6	11

▲ Warranty of 6 months (except for the insulating layer)

## 11981 1/4" Dr. VDE Quick Release Ratchet



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Turning with only one hand for effortlessness
- Capable of quick release, requiring only one hand for operation

No.	L(mm)			
11981	145	6	72	13



## 12982 3/8" Dr. VDE Quick Release Ratchet



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Turning with only one hand for effortlessness
- Capable of quick release, requiring only one hand for operation
- Made of Cr-V material and subjected to heat treatment

No.	L(mm)			
12982	200	6	48	18.3

## 12984 1/2" Dr. VDE T-Handle 10"



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Made of Cr-V material and subjected to heat treatment
- Elegant chrome-plated surface for rust protection

No.	L(mm)			
12984	200	4	32	19.6

## 12983 1/2" Dr. VDE Quick Release Ratchet



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Turning with only one hand for effortlessness
- Capable of quick release, requiring only one hand for operation
- Made of Cr-V material and subjected to heat treatment

No.	L(mm)			
12983	250	6	36	25.5

## VDE Open End Wrench



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
  - Forged with Cr-V material with high strength
  - Elegant chrome-plated surface for rust protection
- Note: \* for new arrival

No.	Spec. (mm)	L(mm)			
41306	6	90	6	108	3.2
41307	7	90	6	108	3.2
41308	8	100	6	108	4.2
41309	9	100	6	108	5.3
41310	10	110	6	108	5.3
41311	11	110	6	108	5.3
41312	12	130	6	108	6.4
41313	13	135	6	72	8.6
41314	14	145	6	72	6.8
41315	15	150	6	72	7.5
41316	16	160	6	72	8.2
41317	17	160	6	72	8.9
41318	18	175	6	72	10.4
41319	19	175	6	72	11.8
41321	21	195	6	72	14
41322	22	195	6	72	15.5
41324	24	225	6	72	20.5
41327*	27	250	4	60	21.5
41330*	30	290	4	48	21
41332*	32	310	4	48	26

## 12940 3/8" Dr. VDE T-Handle 8"



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Made of Cr-V material and subjected to heat treatment
- Elegant chrome-plated surface for rust protection

No.	L(mm)			
12940	200	4	32	12.5



## VDE Adjustable Wrench



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Handle made from imported two-tone material, being elegant, oil-resistance and scratch-proofing
- Forged with alloy steel, with chrome-plated surface for strong rust protection

No.	Spec.	L(mm)			
47101	6"	163	6	48	9
47102	8"	215	6	48	15.9
47103	10"	260	6	36	21.6
47104	12"	312	6	24	18.5

## VDE Box End Wrench



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
  - Forged with Cr-V material with high strength
  - Elegant chrome-plated surface for rust protection
- Note: \* for new arrival

No.	Spec. (mm)	L(mm)			
42406	6	150	6	126	7.3
42407	7	150	6	126	7.3
42408	8	155	6	126	9.8
42409	9	155	6	90	9.8
42410	10	170	6	90	9.1
42411	11	170	6	90	10
42412	12	190	6	90	12.7
42413	13	190	6	90	12.7
42414	14	205	6	90	15.4
42415	15	205	6	90	15.4
42416	16	215	6	90	18.1
42417	17	215	6	90	18.1
42418	18	230	6	90	22.6
42419	19	230	6	90	22.6
42421	21	245	6	48	16.4
42422	22	245	6	48	16.4
42424	24	265	6	48	19.2
42427*	27	290	4	40	18.2
42430*	30	310	4	40	21.4
42432*	32	310	4	40	23

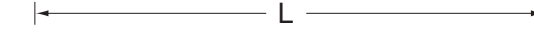
## VDE Precision Screwdriver, Slotted



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Shank made of S2 material with high strength

No.	Spec.	L(mm)			
63301	1.5 × 0.23 × 50	145	12	144	2
63302	1.8 × 0.30 × 50	145	12	144	2
63303	2 × 0.40 × 50	145	12	144	2
63304	2.5 × 0.40 × 50	145	12	144	2
63305	3 × 0.50 × 50	145	12	144	2

## VDE Precision Screwdriver, Phillips



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Shank made of S2 material with high strength

No.	Spec.	L(mm)			
63801	PH00 × 50	145	12	144	2
63802	PH0 × 50	145	12	144	2
63803	PH1 × 50	145	12	144	2

## VDE Precision Screwdriver, Torx®



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Shank made of S2 material with high strength

No.	Spec.	L(mm)			
63901	T6 × 50	145	1	1	2
63902	T8 × 50	145	12	144	2
63903	T10 × 50	145	12	144	2
63904	T15 × 50	145	12	144	2
63905	T20 × 50	145	12	144	2





## 09318 7Pc. VDE Precision Screwdriver Set



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Shank made of S2 material with high strength

No.	Spec. (mm)			
09318	Slotted: 1.5×50, 1.8×50, 2.0×50, 2.5×50, 3.0×50 Phillips: PH0×50, PH00×50	6	72	24

## VDE Nutdriver



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Made of Cr-V via cold extrusion
- Elegant blackened surface for rust protection

No.	Spec.	L(mm)			
61404	4.0×125	231	10	100	9
61405	5.0×125	231	10	100	9.2
61415	5.5×125	231	10	100	9.5
61406	6.0×125	231	10	100	9.5
61407	7.0×125	231	10	100	11
61408	8.0×125	231	10	100	11
61409	9.0×125	231	10	100	11
61410	10×125	241	10	100	15.5
61411	11×125	241	10	100	16
61412	12×125	241	10	100	16.4
61413	13×125	241	10	100	16.7
61414	14×125	241	10	100	17.1

## VDE Screwdriver, Torx®



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Made of S2 material and subjected to heat treatment
- Blackened surface for high rust protection

No.	Spec.	L(mm)			
61801	T8	181	10	100	4.3
61802	T10	181	10	100	4.3
61803	T15	181	10	100	4.5
61804	T20	181	10	100	4.8
61805	T25	231	10	100	9.2
61806	T27	231	10	100	9.2
61807	T30	256	10	100	11
61808	T40	291	10	100	16
61809	T45	291	10	100	16

## 62707 VDE Circuit Tester

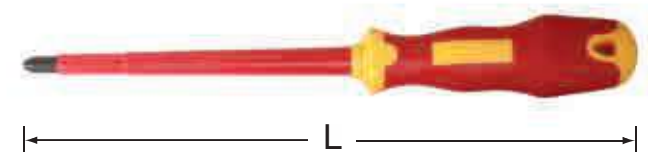


- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Made of Cr-V via cold extrusion
- Elegant blackened surface for rust protection

No.			
62707	10	240	6.5



## T Series VDE Screwdriver, Phillips



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Shank made of imported S2 material and subjected to heat treatment with phosphated head for accurate function end dimension
- Triangular handle made with imported two-tone material for big torque output, comfort, strong oil resistance and scratch proofing

No.	Spec.	L(mm)	Rod Diameter (mm)			
61221	#0x60	151	3	12	48	1.9
61222	#1x80	191	4.5	12	48	3.6
61223	#2x100	225	6	12	48	5.3
61224	#3x150	285	8	6	24	4.9

## T Series VDE Screwdriver, Phillips



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Shank made of imported S2 material and subjected to heat treatment with phosphated head for accurate function end dimension
- Triangular handle made with imported two-tone material for big torque output, comfort, strong oil resistance and scratch proofing

No.	Spec.	L(mm)	Rod Diameter (mm)			
61321	2.5x75	165	2.5	12	48	1.9
61322	3x100	190	3	12	48	2.2
61323	4x100	211	4	12	48	3.6
61324	5.5x125	250	5.5	12	48	5.5
61325	6.5x150	275	6.5	12	48	6.5

**Made in Germany**

# G-series Three-Tone Shank (Insulated) Screwdriver

Handle coated with engineering plastics PP+ advanced elastomer TPR tricolor composite, feeling comfortable and soft

Ergonomic triangular handle for bigger output torque

3-layer injection structure for better impact resistance

Ergonomic Triangular Handle

Injection-molded label

Shank made of high-performance chrome-vanadium-molybdenum alloy steel, with good hardness and toughness, higher durability and longer service life

Function end subjected to special phosphating treatment for high accuracy

AC 1000V  
IEC 60900  
WKG

Lifetime  
Warranty  
GUARANTEED

## 09303 7Pc. T Series VDE Screwdriver Set



- The imported S2 steel
- Shank has been subject to overall heat
- Treatment and proved by strict 10000V
- Insulation withstand voltage test. Handle made of special material, ensuring good skid and
- Scratch resistance and higher oil resistance.

No.	Spec.			
09303	VDE Slotted: 2.5x75mm, 4.0x100mm, 5.5x125mm, 6.5x150mm VDE Phillips: #0x60mm, #1x80mm, #2x100mm	0	10	64

## 09262 9Pc. VDE Tool Set



- With VDE certification passed 1000V insulated test to meet standard EN90900:2004
- 100% passed 10000V insulated test within mass production
- Forged by 60Cr-V steel, the pliers offers high strength and long lifecycle
- Nickel plated surface makes the pliers have high antirust feature
- Offering high cutting capacity to meet ASME standard:  
Combination Pliers ASME B10720-2004  
Long Nose Pliers ASME B10713-2003  
Diagonal Pliers ASME B10711-2002
- Germany made VDE screwdrivers meet DIN standard: DIN7437 and DIN7438

No.	Spec.			
09262	G Series VDE Slotted: 2.5x75mm, 4x100mm, 5.5x125mm G Series VDE Phillips: #0x60mm, #1x80mm, #2x100mm VDE Combination Pliers 8" VDE Diagonal Pliers 6" VDE Long Nose Pliers 6"	-	4	5.5

▲ Please comply with the warranty terms for each open stock product in the set

## 09301A G Series 7Pc. VDE Screwdriver Set



- Made in Germany in accordance with EN/IEC 60900:
- 2004 to meet DIN standard: DIN7437, DIN7438

No.	Spec.			
09301A	VDE Slotted: 2.5x75mm, 4x100mm, 5.5x125mm, 6.5x150mm VDE Phillips: #0x60mm, #1x80mm, #2x100mm	-	4	24

▲ Please comply with the warranty terms for each open stock product in the set

## 09302 5Pc. VDE Screwdriver Set



- Made in Germany in accordance with EN/IEC 60900:
- 2004 to meet DIN standard: DIN7437, DIN7439

No.	Spec.			
09302	G Series VDE Slotted: 3x100mm, 5.5x125mm G Series VDE Phillips: #1x80mm, #2x100mm Circuit Tester 190mm	-	6	2.8

▲ Please comply with the warranty terms for each open stock product in the set



## 09304 10Pc. VDE Interchangeable Screwdriver Set



- 3.0, 5.5, 6.5 mm
- #0, #1, #2
- T15, T20

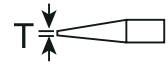


- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Made of imported SVCM+ material and subjected to heat treatment for high toughness, brittleness resistance, and long service life
- Made with imported TPV anti-slip soft rubber for oil resistance, scratch proofing and skidding prevention
- Handle acting as a mini screwdriver handle, suitable for various workplaces

No.	Spec.			
09304	VDE Slotted: 3mm, 5.5mm, 6.5mm VDE Phillips: #0, #1, #2 VDE Torx®: T15, T20	6	24	12.3

▲ No warranty for Nylon punch

## G Series VDE Screwdriver, Slotted



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Handle coated with engineering plastics PP+ advanced elastomer TPR trichromatic composite, feeling comfortable and soft
- Injection-molded trademark, being elegant and firm
- Front of the handle designed with section to avoid tool rolling
- Shank made of high-performance chrome-vanadium-molybdenum alloy steel, with good hardness and toughness, higher durability and longer service life
- Function end subjected to special phosphating treatment for high accuracy

No.	Spec.	L(mm)	T(mm)	Rod Diameter (mm)			
61311	2.5x75	180	0.4	2.5	10	240	10.5
61312	3x100	205	0.5	3	10	240	12.3
61313	4x100	205	0.8	4	10	140	8.3
61314	5.5x125	240	1	5.5	10	100	11.4
61315	6.5x150	265	1.2	6.5	10	100	13.4

## G Series VDE Screwdriver, Phillips



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Handle coated with engineering plastics PP+ advanced elastomer TPR trichromatic composite, feeling comfortable and soft
- Injection-molded trademark, being elegant and firm
- Front of the handle designed with section to avoid tool rolling
- Shank made of high-performance chrome-vanadium-molybdenum alloy steel, with good hardness and toughness, higher durability and longer service life
- Function end subjected to special phosphating treatment for high accuracy

No.	Spec.	L(mm)	Rod Diameter (mm)			
61211	#0x60	165	3	10	240	11.6
61212	#1x80	185	4.5	10	140	8.5
61213	#2x100	215	6	10	100	10.6
61214	#3x150	275	8	10	80	24.9

## 09261 3Pc. VDE Pliers Set



- With VDE certification passed 1000V insulated test to meet standard EN90900:2004
- 100% passed 10000V insulated test within mass production
- Forged by 60Cr-V steel, the pliers offers high strength and long lifecycle
- Nickel plated surface makes the pliers have high antirust feature
- Offering high cutting capacity to meet ASME standard:

No.	Spec.			
09261	VDE Combination Pliers 8" VDE Long Nose Pliers 6" VDE Diagonal Pliers 6"	-	6	5.5

▲ Please comply with the warranty terms for each open stock product in the set

## 93450 VDE Electricians Scissors

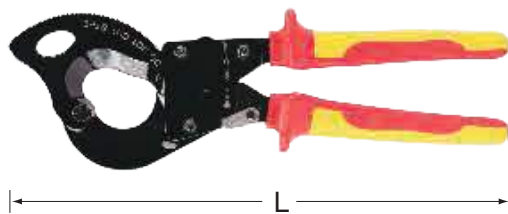


- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard

No.	Spec. (mm)			
93450	160	6	48	5

▲ No warranty as consumables

## VDE Ratcheting Cable Cutter



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Two-stage transmission for saving labor
- Special linkage feeding mechanism for high feeding speed and cutting efficiency

No.	Spec.	L(mm)			
93113	240mm <sup>2</sup>	285	1	12	9.6
93114	380mm <sup>2</sup>	380	1	10	14

▲ No warranty as consumables

## Insulated Cable Cutter



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Two-stage transmission for saving labor
- Special linkage feeding mechanism for high feeding speed and cutting efficiency

No.	Spec.	L(mm)			
93115	250mm <sup>2</sup>	610	1	4	9.6
93116	500mm <sup>2</sup>	805	1	4	16

▲ No warranty as consumables

## 93117 Insulated Bolt Cutter 24"



- Sleeve handle tested to 10,000 volts, meeting IEC/EN 60900 standard
- Suitable for cutting copper-aluminum cable and steel bar

No.	Spec. (mm)			
93117	600	1	2	4.9

▲ No warranty as consumables

## 70111 Insulated Flat Nose Pliers 6"



- Cr-V steel forged
- Pinstriped groove on clamping surface to make clamping tightly
- 100% passed 10000V insulation test to reach IEC/EN 60900-2012 standard

No.	Spec. (mm)	L(mm)			
70111	6"	170	6	36	6.9

## VDE Long Nose Pliers



- Cr-V steel forged
- Body hardness HRC40-50
- Cutting blades hardness: HRC55-65
- Cutting capacity: medium hard steel wire Φ1.6mm
- Germany VDE certification, pass 10000V insulated test, meet IEC/EN60900-2012 standard

No.	Spec. (mm)	L(mm)	Max. Cutting Capacity(mm)			
70131	6"	170	Medium hard steel wire Ø1.6	6	36	8
70132	8"	212	Medium hard steel wire Ø1.8	6	36	9.9





## 70161 Insulated Round Nose Pliers 6"



- Cr-V steel forged
- Nose diameter:  $\Phi 2.3-7.3\text{mm}$
- 100% passed 10000V insulation test to reach IEC/EN 60900-2012 standard

No.	Spec. (mm)	L(mm)	Outside diameter range of clamp opening (mm)			
70161	6"	170	$\Phi 2.3-7.3$	6	36	6.4

## Insulated Cable Cutting Pliers



- Cr-V steel forged
- Cutting ability :Copper / Aluminum Cable 22mm
- 100% passed 10000V insulation test to reach IEC/EN 60900-2012 standard

No.	Spec. (mm)	L(mm)	Cutting Capacity			
70191	6"	175	Copper-Aluminum Cable: 22mm <sup>2</sup>	6	36	8.7
70192	10"	245	Copper-Aluminum Cable: 80mm <sup>2</sup>	6	24	12.8

▲ No warranty as consumables

## Insulated Bent Nose Pliers



- Cr-V steel forged
- Cutting ability : Medium hard steel wire  $\Phi 1.6\text{mm}$
- 100% passed 10000V insulation test to reach IEC/EN 60900-2012 standard

No.	Spec. (mm)	L(mm)	Cutting Capacity(mm)			
70181	6"	166	Medium hard steel wire: $\Phi 1.6$	6	36	6.8
70182	8"	205	Medium hard steel wire: $\Phi 1.8$	6	36	8.9

## G Series VDE Long Nose Pliers



- Sleeve handle tested to 10,000 volts, meeting IEC/EN 60900 standard
- Suitable for cutting copper-aluminum cable and steel bar

No.	Spec. (mm)	L(mm)	Max. Cutting Capacity(mm)			
72610	6"	160	Medium hard steel wire $\phi 2.5$ , hard steel wire $\phi 1.6$	6	120	22.9
72611	8"	200	Medium hard steel wire $\phi 2.8$ , hard steel wire $\phi 1.8$	6	60	29.9

## 70234 Insulated Diagonal Pliers 8"



- Cr-V steel forged
- Cutting ability : Medium hard steel wire  $\Phi 2.2\text{mm}$
- 100% passed 10000V insulation test to reach IEC/EN 60900-2012 standard

No.	Spec. (mm)	L(mm)	Cutting Capacity(mm)			
70234	8"	215	Medium hard steel wire: $\Phi 2.2$	6	36	12.9

## G Series VDE Diagonal Pliers



- Sleeve handle tested to 10,000 volts, meeting IEC/EN 60900 standard
- Suitable for cutting copper-aluminum cable and steel bar

No.	Spec. (mm)	L(mm)	Max. Cutting Capacity(mm)			
72615	6"	160	Medium hard steel wire $\phi 2.8$ , hard steel wire $\phi 2.0$ , piano wire $\phi 1.4$	6	60	33.5
72616	8"	180	Medium hard steel wire $\phi 3.2$ , hard steel wire $\phi 2.5$ , piano wire $\phi 1.8$	6	60	19.5

## 72620 G Series Insulated Diagonal Pliers 8"



- Sleeve handle tested to 10,000 volts, meeting IEC/EN 60900 standard
- Suitable for cutting copper-aluminum cable and steel bar

No.	Spec. (mm)	L(mm)	Max. Cutting Capacity(mm)			
72620	8"	200	Medium hard steel wire $\phi 4.2$ , hard steel wire $\phi 3.0$ , piano wire $\phi 2.5$	6	60	40.8

## 72630 G Series VDE Wire Stripper 6"



- Sleeve handle tested to 10,000 volts, meeting IEC/EN 60900 standard
- Suitable for cutting copper-aluminum cable and steel bar

No.	Spec. (mm)	L(mm)	Max. Stripping Range (mm)			
72630	6"	160	$\phi 5.0/10$	6	60	19.8

## G Series VDE Combination Pliers



- Sleeve handle tested to 10,000 volts, meeting IEC/EN 60900 standard
- Suitable for cutting copper-aluminum cable and steel bar

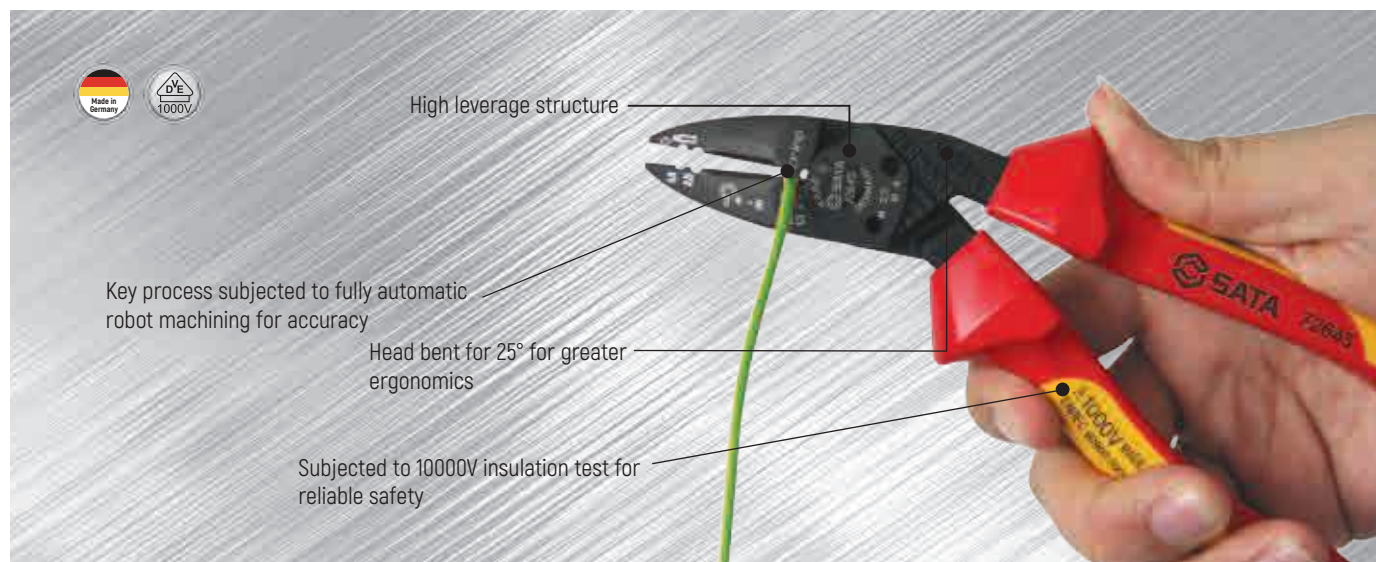
No.	Spec. (mm)	L(mm)	Max. Cutting Capacity(mm)			
72625	6"	160	Medium hard steel wire $\phi 2.5$ , hard steel wire $\phi 1.8$	6	60	30
72626	7"	180	Medium hard steel wire $\phi 2.8$ , hard steel wire $\phi 2.5$	6	60	20.4
72627	8"	200	Medium hard steel wire $\phi 3.0$ , hard steel wire $\phi 2.8$	6	60	24.2

## 72635 G Series VDE Groove Joint Pliers 10"



- Sleeve handle tested to 10,000 volts, meeting IEC/EN 60900 standard
- Suitable for cutting copper-aluminum cable and steel bar

No.	Spec. (mm)	L(mm)	Applicable Tube Diameter(mm)			
72635	10"	250	6-38	6	54	28



**72640 G Series High Leverage VDE Diagonal Pliers 7"**

- Sleeve handle tested to 10,000 volts, meeting IEC/EN 60900 standard
- Suitable for cutting copper-aluminum cable and steel bar

No.	Spec. (mm)	L(mm)	Max. Cutting Capacity(mm)			
72640	7"	180	Medium hard steel wire $\phi 3.8$ , hard steel wire $\phi 2.7$ , piano wire $\phi 2.3$	6	60	35.5

**72655 G Series High Leverage VDE Combination Pliers 7.5"**

- Sleeve handle tested to 10,000 volts, meeting IEC/EN 60900 standard
- Suitable for cutting copper-aluminum cable and steel bar

No.	Spec. (mm)	L(mm)	Max. Cutting Capacity(mm)			
72655	7.5"	190	Medium hard steel wire $\phi 3.5$ , hard steel wire $\phi 2.5$ , piano wire $\phi 2.0$	6	60	37

**72645 G Series Multipurpose High Leverage VDE Diagonal Pliers 7"**

- Sleeve handle tested to 10,000 volts, meeting IEC/EN 60900 standard
- Suitable for cutting copper-aluminum cable and steel bar

No.	Spec. (mm)	L(mm)	Max. Cutting Capacity(mm)			
72645	7"	180	Medium hard steel wire $\phi 3.5$ , hard steel wire $\phi 2.5$ , piano wire $\phi 2.0$	6	60	19.1

**72660 G Series VDE Cable Cutting Pliers 7"**

- Sleeve handle tested to 10,000 volts, meeting IEC/EN 60900 standard
- Suitable for cutting copper-aluminum cable and steel bar

No.	Spec. (mm)	L(mm)	Cutting Capacity(mm)			
72660	7"	180	$\phi 18.0/50$	6	60	38.3

**72650 G Series High Leverage VDE Long Nose Pliers 9"**

- Sleeve handle tested to 10,000 volts, meeting IEC/EN 60900 standard
- Suitable for cutting copper-aluminum cable and steel bar

No.	Spec. (mm)	L(mm)	Max. Cutting Capacity(mm)			
72650	9"	220	Medium hard steel wire $\phi 3.0$ , hard steel wire $\phi 2.0$ , piano wire $\phi 1.4$	6	60	38.5

**VDE Diagonal Pliers**

- Cr-V steel forged
- Body hardness HRC40-50
- Cutting blades hardness: HRC55-65
- Cutting capacity: medium hard steel wire  $\Phi 1.6$ mm
- Germany VDE certification, pass 10000V insulated test, meet IEC/EN60900-2012 standard

No.	Spec. (mm)	L(mm)	Max. Cutting Capacity(mm)			
70232	6"	170	Medium hard steel wire $\phi 1.6$	6	36	8.7
70233	8"	212	Medium hard steel wire $\phi 1.8$	6	36	13.6





Handle passed flame-retardant test



Handle passed impact resistance test



Product Usage Diagram



Passed 10,000V limit insulation and voltage resistance test



Handle passed 500N drawing force test

## 70145 VDE Insulated Groove Joint Pliers 10"



- Cr-V steel forged
- Body hardness HRC40-50
- Clamping range 0-36mm
- Germany VDE certification, pass 10000V insulated test, meet IEC/EN60900-2012 standard

No.	Spec. (mm)	L(mm)			
70145	10"	255	6	24	17

## VDE Combination Pliers



- Cr-V steel forged
- Body hardness HRC40-50
- Cutting blades hardness: HRC55-65
- Cutting capacity: medium hard steel wire  $\Phi 1.6\text{mm}$
- Germany VDE certification, pass 10000V insulated test, meet IEC/EN60900-2012 standard

No.	Spec. (mm)	L(mm)	Max. Cutting Capacity(mm)			
70331	6"	170	Medium hard steel wire $\Phi 1.6$	6	36	9.9
70332	7"	190	Medium hard steel wire $\Phi 2.0$	6	36	13
70333	8"	210	Medium hard steel wire $\Phi 2.0$	6	36	16

## 70141 VDE Wire Stripper 6"



- Cr-V steel forged
- Body hardness HRC40-50
- Use for stripping the insulating layer of the wire with 0.5-2.5mm diameter
- Germany VDE certification, pass 10000V insulated test, meet IEC/EN60900-2012 standard

No.	Spec. (mm)	L(mm)			
70141	6"	170	6	36	9.3



### 93470 VDE Insulated Cable Knife, Protective Blade



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Sickle-shaped blade with sliding guide block to avoid damage to lead core
- Ergonomic handle for safety and comfort
- Suitable for cutting wires and cables

No.			
93470	6	72	12.3

▲ No warranty as consumables

### 93472 VDE Insulated Cable Knife, Straight Blade



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Ergonomic handle for safety and comfort
- Suitable for cutting wires and cables

No.			
93472	6	72	11.9

▲ No warranty as consumables

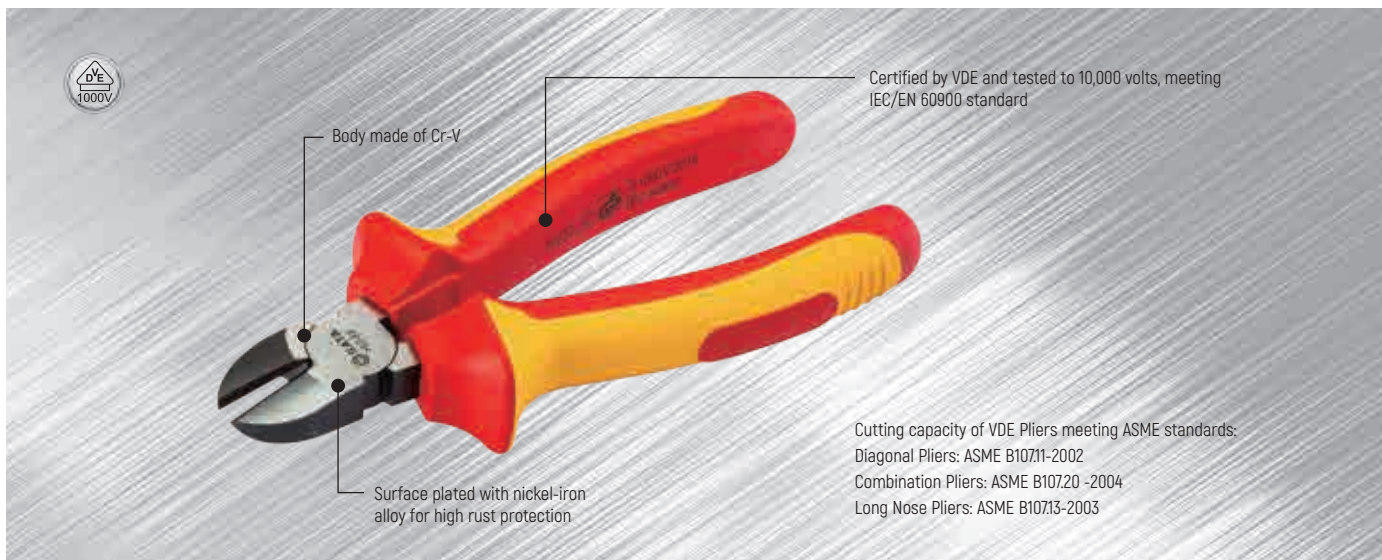
### 93471 VDE Insulated Cable Knife, Hooked Blade



- Certified by VDE and tested to 10,000 volts, meeting IEC/EN 60900 standard
- Bent blade with special insulating coating on the back to prevent short circuit
- Ergonomic handle for safety and comfort
- Suitable for cutting wires and cables

No.			
93471	6	72	11.4



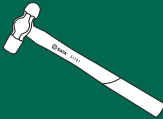

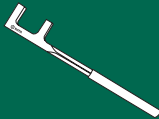
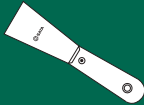
▲ No warranty as consumables





# Explosion-Proof Tool

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	Explosion-Proof Adjustable Wrench	<b>235</b>
	Explosion-Proof Combination Pliers	<b>236</b>
	Explosion-Proof Ball Pein Hammer	<b>236</b>
	Explosion-Proof Cold Chisel	<b>237</b>
	Explosion-Proof F Wrench	<b>237</b>
	Explosion-Proof Scraper	<b>237</b>

# Explosion-Proof Tool

## Explosion-Proof Adjustable Wrench



- Special beryllium bronze material is adopted, which is suitable for safe use environment such as non sparking and non magnetism
- Laser scale indication, maximum opening size 24mm
- Moderate soft hardness, high torque and long service life

No.	L	Maximum opening(mm)			
31101	8"	24	4	24	11
31102	10"	30	4	16	10.8
31103	12"	36	2	16	17.6

▲ No warranty as consumables

## Explosion-Proof Open End Wrench



- Made of special beryllium bronze for safe operation environment free of spark and magnetic
- Moderate hardness for high torque and long service life

No.	Spec. (mm)	L(mm)			
31121	14 × 17	150	4	24	6.2
31122	17 × 19	170	4	24	7.2
31123	19 × 22	185	4	24	8.4
31124	22 × 24	210	4	24	9.8
31125	24 × 27	230	4	24	12.4
31126	27 × 30	250	2	12	9.6
31127	30 × 32	265	2	12	11.1

▲ No warranty as consumables

## Explosion-Proof Combination Wrench



- Made of special beryllium bronze for safe operation environment free of spark and magnetic
- Moderate hardness for high torque and long service life

No.	Spec. (mm)	L(mm)			
31111	14	175	4	24	6.2
31112	17	195	4	24	7.4
31113	19	215	4	24	8.4
31114	22	245	4	24	10.5
31115	24	265	4	24	12.0
31116	27	290	2	12	9.6
31117	30	320	2	12	11.5
31118	32	340	2	12	13.2

▲ No warranty as consumables

## Explosion-Proof Box End Wrench



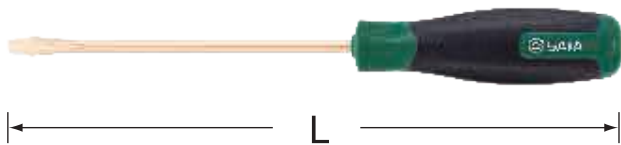
- Made of special beryllium bronze for safe operation environment free of spark and magnetic
- Moderate hardness for high torque and long service life

No.	Spec. (mm)	L(mm)			
31131	14 × 17	208	4	24	7.6
31132	17 × 19	235	4	24	9.3
31133	19 × 22	255	4	24	11
31134	22 × 24	280	4	24	12.9
31135	24 × 27	300	4	24	13.4
31136	27 × 30	325	2	12	11
31137	30 × 32	335	2	12	12

▲ No warranty as consumables



## Explosion-Proof Screwdriver, Slotted

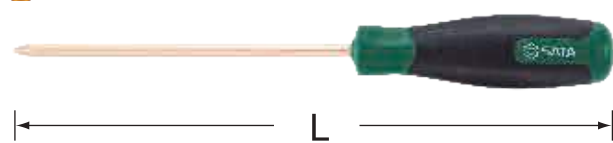


- Made of special beryllium bronze for safe operation environment free of spark and magnetic

No.	Spec. (mm)	L(mm)	Rod Diameter (mm)			
31141	6×100	200	6	4	24	5.7
31142	6×150	250	6	4	24	6
31143	8×200	300	8	4	24	7.9
31144	8×250	350	8	4	24	8.4

▲ No warranty as consumables

## Explosion-Proof Screwdriver, Phillips



- Made of special beryllium bronze for safe operation environment free of spark and magnetic

No.	Spec. (mm)	L(mm)			
31146	#2×100	200	4	24	5.7
31147	#2×150	250	4	24	6.2
31148	#3×200	300	4	24	7.9
31149	#3×250	350	4	24	8.4

▲ No warranty as consumables

## 31152 Explosion-Proof Combination Pliers 8"



- Special beryllium bronze material is adopted, which is suitable for safe use environment such as non sparking and non magnetism
- Maximum shear capacity: low carbon steel wire  $\phi$  1.6mm
- New design of handle, more comfortable to hold

No.	Spec.	Max. Cutting Capacity(mm)			
31152	8"	Mild carbon steel wire $\phi$ 1.6	4	24	13.4

▲ No warranty as consumables

## 31154 Explosion-Proof Long Nose Pliers 6"



- Special beryllium bronze material is adopted, which is suitable for safe use environment such as non sparking and non magnetism
- New design of handle, more comfortable to hold

No.	Spec.			
31154	6"	4	24	8.1

▲ No warranty as consumables

## 31156 Explosion-Proof Diagonal Pliers 6"



- Special beryllium bronze material is adopted, which is suitable for safe use environment such as non sparking and non magnetism
- Maximum shear capacity: low carbon steel wire  $\phi$  1.6mm
- New design of handle, more comfortable to hold

No.	Spec.	Max. Cutting Capacity(mm)			
31156	6"	Mild carbon steel wire $\phi$ 1.6	4	24	8.8

▲ No warranty as consumables

## Explosion-Proof Ball Pein Hammer



- Made with special beryllium bronze for safe operation environment free of spark and magnetism
- Handle made of imported Hickory for comfort and toughness

No.	Spec.	L(mm)			
31161	1 lbs	325	2	12	10.8
31162	1.5 lbs	365	2	12	14

▲ No warranty as consumables



## Explosion-Proof Sledge Hammer



- Made with special beryllium bronze for safe operation environment free of spark and magnetism
- Fiberglass handle for anti-skidding and durability

No.	Spec.	L(mm)			
31166	4 lbs	405	2	8	17.7
31167	6 lbs	676	2	4	15.6
31168	8 lbs	680	2	4	19

▲ No warranty as consumables

## Explosion-Proof F Wrench



- Made with special beryllium bronze for safe operation environment free of spark and magnetism
- Moderate hardness for high torsion

No.	Spec. (mm)	L(mm)			
31191	40 × 300	300	2	12	10.2
31192	50 × 400	400	2	12	15
31193	60 × 500	500	2	12	21

▲ No warranty as consumables

## Explosion-Proof Cold Chisel



- Made of special beryllium bronze for safe operation environment free of spark and magnetic

No.	Spec. (mm)	L(mm)			
31171	14 × 160	160	4	24	8.1
31172	18 × 200	200	4	24	12.9
31173	20 × 250	250	2	12	11

▲ No warranty as consumables

## 31194 Explosion-Proof Double Head Oil Drum Wrench



- Made with special beryllium bronze for safe operation environment free of spark and magnetism
- Moderate hardness for high torsion

No.	Spec. (mm)	L(mm)			
31194	70 × 95 × 350	350	1	6	10.7

▲ No warranty as consumables

## Explosion-Proof Pipe Wrench



- Made with special beryllium bronze for safe operation environment free of spark and magnetism
- Moderate hardness for high torsion

No.	Spec.	L(mm)			
31181	10"	250	2	12	13.4
31182	12"	300	2	12	17
31183	14"	350	1	6	11.3
31184	18"	450	1	6	17

▲ No warranty as consumables

## Explosion-Proof Scraper









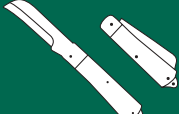


- Made of special beryllium bronze for safe operation environment free of spark and magnetic

No.	Spec. (mm)	L(mm)			
31196	50 × 200	200	2	24	9.2
31197	65 × 200	200	2	24	9.2

▲ No warranty as consumables

# Electrician's & Electronic Tool

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	Electronic Welding Tool	<b>239-243</b>
	Multimeter	<b>245-250</b>
	Infrared Thermometer	<b>251-252</b>
	Hot Air Gun	<b>252-256</b>
	Lighting Electrical Appliances	<b>257-271</b>
	Electronic Set	<b>272-274</b>
	Electrical Maintenance Tool	<b>274-275</b>
	Miniature Screwdriver	<b>276-279</b>
	Other Electronic Tools	<b>279-282</b>



# Electrician's & Electronic Tool

## 02002A ESD Digital Lead-Free Soldering Station



Voltage	AC 220V/50Hz
Max Power	90W
Temperature	50-600°C
Temperature Stability (No load)	+/-2°C
Time of Temperature Rising	25s (20-350°C)
Tip to Ground Resistance	<2Ω
Heating Mode	High Frequency Current
Auto Sleeping	Yes
ESD Housing	Yes
Weight	About 1.2kg

- LED display, key type temperature adjustment, digital temperature calibration
- Advanced HFEC heating technology realizes rapid heating and back to temperature
- Special sensor design ensures fast response and quick temperature adjustment
- Accurate temperature control circuit with a constant temperature accuracy of +/-2°C
- Automatic sleep function for power saving and extended service life
- Specially designed split internal heating welding head with smaller ground resistance
- Compact and robust housing made of aluminum alloy
- ESD design realizes anti-static operation

No.			
02002A	-	6	14.2

▲ 1-year warranty for overall unit except heating element, soldering iron, soldering tips

## 03200 ESD Digital Lead-Free Soldering Station



Supply Voltage	220VAC, 50Hz
Leakage Current	≤1mA
Electric Strength	No breakdown in 1 min. at 1500V
Static Capacity	≤20pF
Consumed Power	60W
Starting Time	60s
Temperature Range	200°C-450°C

### Product Feature:

- Lead-free long-life welding nozzle for lead-free welding and durability
- Handle with temperature control structure and knob for direct temperature indication
- Quality high-grade ceramic heating core for quick heating and high thermal efficiency
- High-precision IC temperature control circuit for accurate constant temperature control
- Equipped with LED indicator to provide more intuitive status indication during working and heating

### Precautions

- It is strictly prohibited to remove the electric heating parts when the electric iron is in use
- Soldering iron base with natural heat dissipation structure shall be provided during operation
- If the power cord is damaged, it must be repaired or replaced by a professional
- Keep the welding tip always hanging tin
- Do not use a file or hammer to repair and knock the welding tip
- Place it away from children to avoid scald

No.			
03200	-	18	4.3

▲ No warranty as consumables

## 02003 ESD Digital Lead-Free Soldering Station



Display Type	Digital LED
Power Consumption	70W
Working Voltage	AC 220V/50Hz
Temperature (As per Working Mode)	100°C - 450°C
Temperature Stability (Still Air Without Load)	+/-2°C
Ambient Temperature (Max)	40°C
Tip to Ground Voltage	<2mV
Tip to Ground Resistance	<2Ω
Dimensions	(WxHxD): 85x110x138mm
Main Unit Weight (Including Power Cord)	About 14kg
Length of Handle Wire	1.2m
Soldering Iron Weight	About 70g

- High temperature resistant heating element, long lifetime
- High-precision sensor, accurate temperature control and sensitive response
- Fast heating and rapid thermal compensation
- Digital temperature regulation, various of tips available, easy to use
- Special designed three temperature points for quick temperature switching and make sure consistent process

No.			
02003	-	6	13.2

▲ 1-year warranty for overall unit except heating element, soldering iron, soldering tips

## 03260 Inner-Heated Ceramic Heating Element Soldering Iron 25W



Voltage	AC 220V/50Hz Insulation
resistance	Greater than 100MΩ
Power	25W

- High-quality high-grade ceramic heating element, ensuring fast temperature rise and high thermal efficiency
- Heating temperature within 420°C-450°C, ultra-long service life, energy conservation and environmental protection
- Compatible with 900M series soldering tips
- Long-life lead-free soldering tips, especially suitable for lead-free soldering process, and also applicable to continuous soldering in production lines

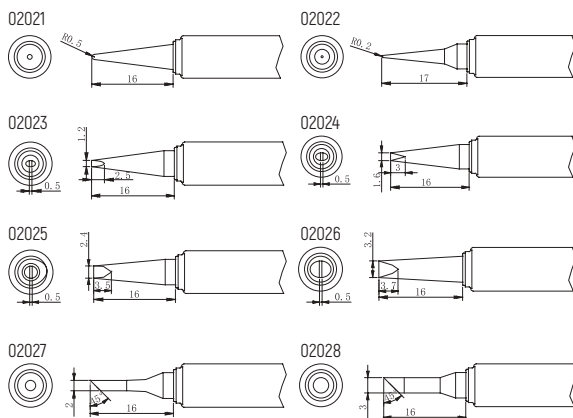
\*Replaceable soldering tips: 03264, 03265, 03266, 03267, 03268, 03269, 03270, 03271, 03272, 03273

No.	Spec.			
03260	25 Watts	18	36	5.9

▲ No warranty as consumables



## 5pc Lead-Free Soldering Tip Set (for 02002A Lead-Free Soldering Station)

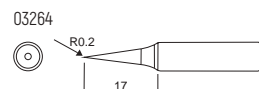


- Special tubing design, small touching resistance
- Processed by CNC digital machine, high precision sizes
- Ultra-long time of electroplating, excellent corrosion resistance
- Kinds of lead free soldering tips optional
- Suitable for SATA 02002A digital soldering station

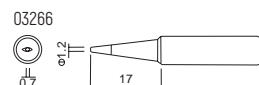
No.	Model			
02021	Lead-Free Soldering Tip, Round	5	100	6.2
02022	Lead-Free Soldering Tip, Pointed	5	100	6.5
02023	Lead-Free Soldering Tip, Slotted 1.2D	5	100	6.4
02024	Lead-Free Soldering Tip, Slotted 1.6D	5	100	6.4
02025	Lead-Free Soldering Tip, Slotted 2.4D	5	100	6.5
02026	Lead-Free Soldering Tip, Slotted 3.2D	5	100	6.6
02027	Lead-Free Soldering Tip, U-Shaped 2C	5	100	5.8
02028	Lead-Free Soldering Tip, U-Shaped 3C	5	100	6.5

▲ No warranty as consumables

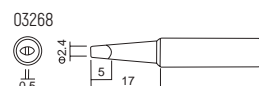
## Lead-Free Internally-Heating Soldering Tip (Suitable for 02003 Lead-Free Soldering Station, 03260 Electric Soldering Iron)



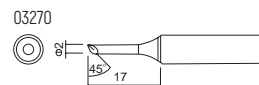
Suitable for welding high frequency devices, high frequency cables and plug cores, and applicable to SATA industrial-grade intelligent lead-free soldering station 02003, SATA 03260 ceramic internally-heated electric iron and 900M series electric iron products of other brands



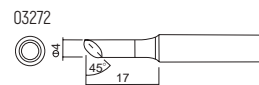
Suitable for welding components with narrow print line, and applicable to SATA industrial-grade intelligent lead-free soldering station 02003, SATA 03260 ceramic internally-heated electric iron and 900M series electric iron products of other brands



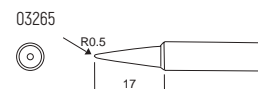
Suitable for welding of plugs, socket leads, small components and components with high density, and applicable to SATA industrial-grade intelligent lead-free soldering station 02003, SATA 03260 ceramic internally-heated electric iron and 900M series electric iron products of other brands



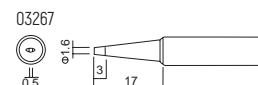
Suitable for welding of plugs, socket leads, small components and components with high density, and applicable to SATA industrial-grade intelligent lead-free soldering station 02003, SATA 03260 ceramic internally-heated electric iron and 900M series electric iron products of other brands



Suitable for welding components with wide print line and large welding surface such as panel components and ground wire, and applicable to SATA industrial-grade intelligent lead-free soldering station 02003, SATA 03260 ceramic internally-heated electric iron and 900M series electric iron products of other brands



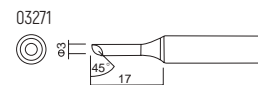
Suitable for welding high frequency devices, high frequency cables and plug cores, and applicable to SATA industrial-grade intelligent lead-free soldering station 02003, SATA 03260 ceramic internally-heated electric iron and 900M series electric iron products of other brands



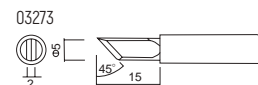
Suitable for welding components with narrow print line, and applicable to SATA industrial-grade intelligent lead-free soldering station 02003, SATA 03260 ceramic internally-heated electric iron and 900M series electric iron products of other brands



Suitable for welding components with narrow print line and low density, and applicable to SATA industrial-grade intelligent lead-free soldering station 02003, SATA 03260 ceramic internally-heated electric iron and 900M series electric iron products of other brands



Suitable for welding components with wide print line and large welding surface such as panel components and ground wire, and applicable to SATA industrial-grade intelligent lead-free soldering station 02003, SATA 03260 ceramic internally-heated electric iron and 900M series electric iron products of other brands



Suitable for welding components with wide print line and large welding surface such as panel components and ground wire, and applicable to SATA industrial-grade intelligent lead-free soldering station 02003, SATA 03260 ceramic internally-heated electric iron and 900M series electric iron products of other brands

- Long-life internal heating soldering iron tip made of high-grade and high-quality copper through special processing
- Specially treated surface: alloy layer with high resistance to oxidation and wear. Surface underwent anti-corrosion treatment, ensuring excellent corrosion resistance
- Service life up to 40000 soldering spots under normal-use conditions
- Tinned soldering iron tip, making the welding operation faster and more convenient
- This soldering iron tip is suitable for SATA 02003 lead-free soldering station, SATA 03260 ceramic internally-heated electric iron, and 900M series soldering iron products of general brands

No.	Model			
03264	Lead-Free Inner-Heated Soldering Tip, Pointed	10	1000	6
03265	Lead-Free Inner-Heated Soldering Tip, Round	10	1000	6
03266	Lead-Free Inner-Heated Soldering Tip, Slotted 1.2D	10	1000	6
03267	Lead-Free Inner-Heated Soldering Tip, Slotted 1.6D	10	1000	6
03268	Lead-Free Inner-Heated Soldering Tip, Slotted 2.4D	10	1000	6
03269	Lead-Free Inner-Heated Soldering Tip, Slotted 3.2D	10	1000	6
03270	Lead-Free Inner-Heated Soldering Tip, U-Shaped 2C	10	1000	6
03271	Lead-Free Inner-Heated Soldering Tip, U-Shaped 3C	10	1000	6
03272	Lead-Free Inner-Heated Soldering Tip, U-Shaped 4C	10	1000	11.5
03273	Lead-Free Inner-Heated Soldering Tip, Knife-Shaped 5K	10	1000	6

▲ No warranty as consumables



### 03261 Inner-Heated Ceramic Heating Element Soldering Iron 40W



- It is especially suitable for industrial use on large workpieces
- High-quality high-grade ceramic heating element ensuring fast temperature rise and high thermal efficiency
- Heating temperature within 420° C-450° C, ultra-long service life, energy conservation and environmental protection
- Long-life lead-free soldering tips, especially suitable for lead-free soldering process, and also applicable to continuous soldering in production lines
- \*Replaceable soldering tips: 03274

No.	Spec.			
03261	40 Watts	-	18	4.8

▲ No warranty as consumables

### 03262 Inner-Heated Ceramic Heating Element Soldering Iron 60W



- It is especially suitable for industrial use on large workpieces
- High-quality high-grade ceramic heating element ensuring fast temperature rise and high thermal efficiency
- Heating temperature within 420° C-450° C, ultra-long service life, energy conservation and environmental protection
- Long-life lead-free soldering tips, especially suitable for lead-free soldering process, and also applicable to continuous soldering in production lines
- \*Replaceable soldering tips: 03275

No.	Spec.			
03262	60 Watts	-	18	5.9

▲ No warranty as consumables

### 03263 Dual Power Soldering Iron 20W/130W



- Traditional soldering iron is configured with power in one-level mode. However, 03263 is configured with power in two-level mode. The power can be increased from 20W to 130W when the button is pressed. Therefore, one soldering iron can weld components in different sizes
- Provided with the ceramic heating element, heat-insulated handle for fear of scalds, and lightweight unit, ensuring a comfortable grip
- \*Replaceable soldering tips: 03276

No.	Spec.			
03263	20W/130W	18	36	6.7

▲ No warranty as consumables



#### Tool Knowledge Station

#### What is an externally-heating electric soldering iron?

Insert the soldering tip into the heater hole of the electric iron, and the heat of the heater is transmitted to the iron tip to make it heat up and complete the welding function. The temperature of the iron tip can be adjusted, and the length of the iron tip in the heater hole can be adjusted or different shapes of the iron tip can be used.

#### Product Knowledge

##### Why does the iron tip service life vary?

The life of the iron tip is determined by the number of solder joints, which is subjected to the thickness of the coating on the tip. The thicker the coating, the longer the service life of the soldering tip, but the heat transfer efficiency will be greatly reduced.

##### What is the feature of SATA product?

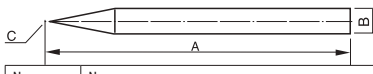
Iron tip with 40,000 solder joints can be called the long-life iron tip. The welding points of SATA iron tip are more than 40,000 points.

SATA electric iron tip coating is subjected to electroplating with optimal pyroconductivity while guaranteeing 40,000 solder joints.

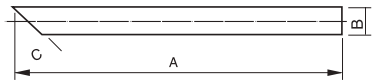




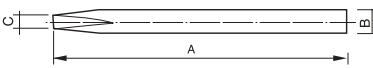
## Outer-Heated Soldering Tip, Pointed



No.	Name	Length (A)	Diameter (B)	Tip Size (C)
03241	Outer-Heated Soldering Tip, Ultra Pointed 30W	70mm	4mm	R 0.2
03242	Outer-Heated Soldering Tip, Ultra Pointed 40W	70mm	5mm	R 0.2
03211	Outer-Heated Soldering Tip, Pointed 30W	75mm	4mm	R 0.5
03212	Outer-Heated Soldering Tip, Pointed 40W	75mm	5mm	R 0.5
03213	Outer-Heated Soldering Tip, Pointed 50W	80mm	6mm	R 0.3



No.	Name	Length (A)	Diameter (B)	Tip Size (C)
03231	Outer-Heated Soldering Tip, Skew 30W	70mm	4mm	45°
03232	Outer-Heated Soldering Tip, Skew 40W	75mm	5mm	45°
03233	Outer-Heated Soldering Tip, Skew 50W	80mm	6mm	45°



No.	Name	Length (A)	Diameter (B)	Tip Size (C)
03221	Outer-Heated Soldering Tip, Slotted 30W	70mm	4mm	3
03222	Outer-Heated Soldering Tip, Slotted 40W	75mm	5mm	3
03223	Outer-Heated Soldering Tip, Slotted 50W	80mm	6mm	3.5

- SATA long-life externally-heated soldering iron tip made of quality copper by precision processing
- Specially treated alloy layer for excellent high temperature oxidation resistance and wear resistance with anti-corrosion surface for excellent corrosion resistance
- Tinned tip of the soldering iron to facilitate welding
- Suitable for SATA external long-life electric soldering iron

No.	Tip Shape	Power			
03211	Pointed	30W	10	-	-
03212	Pointed	40W	10	1000	10
03213	Pointed	50W	10	800	15.6
03221	Slotted	30W	10	1000	8.1
03222	Slotted	40W	10	-	-
03223	Slotted	50W	10	800	14.7
03231	Skew	30W	10	250	4.6
03232	Skew	40W	10	1000	12
03233	Skew	50W	10	300	12.3
03241	Ultra Pointed	30W	10	1000	12
03242	Ultra Pointed	40W	10	1000	12

▲ No warranty as consumables

## Outer-Heated Natural Mica Heating Element



- Externally-heated mica heating core suitable for SATA external long-life electric soldering iron
- Heating core with long life
- Heating core made of quality double-layer nickel-chromium wire wound around natural mica from India
- Heating core life of SATA external heating iron extended
- Simple replacement device for heating core
- End of the heating core outlet and the end of the power outlet connected via micro-connector crimping process
- Connection between the heating core and the power supply realized through connector

No.	Power			
03251	30W	10	480	5.7
03252	40W	10	480	6.1
03253	50W	10	480	7
03254	60W	10	480	74

▲ No warranty as consumables

## Coiled Soldering Wire



No.	Model			
90311	0.5mm/250g	-	10	2.6
90312	0.8mm/250g	-	10	2.6
90313	1.0mm/250g	-	10	2.6
90314	1.0mm/500g	-	10	5.6

▲ No warranty as consumables



S  
Customization










































90315 Pocket Pack Soldering Wire 1.0mm/17g



- Meeting national standards and the requirements of federal regulations of the United States
- Made of highly-purified lead tin alloy
- Made from 63% tin and 2% flux and suitable for printed circuit boards with strict temperature limits and other places with limited narrow melting temperature range of lead
- Few solder residues produced, and solder joints, being clean, plump and bright with low corrosivity
- Small smoke and irritation produced, ensuring safe operation of operators for fast melting, fast welding speed, and improved work efficiency

No.			
90315	-	24	0.7

▲ No warranty as consumaables

03511 Plastic Desoldering Pump



- Strong suction, able to realize fast and effective removal of soldering tin, and rapid separation of connectors
- High quality PTFE suction nozzle, featuring high resistance to high temperature and solvent




No.			
03511	12	48	4.1

▲ No warranty as consumaables

03512 Aluminum Desoldering Pump



- Strong suction, able to realize fast and effective removal of soldering tin, and rapid separation of connectors
- High quality PTFE suction nozzle, featuring high resistance to high temperature and solvent


No.			
03512	12	48	4.3

▲ No warranty as consumaables

03513 5Pc. Desoldering Pump Tips



- High quality PTFE suction nozzle, featuring high resistance to high temperature and solvent

No.			
03513	25	-	-

▲ No warranty as consumaables



## 03021 Digital Clamp Meter



- 3-1/2 digits LCD, with a max. reading of 1999
- Designed to measure DC/AC voltage, AC current, resistance, diode and continuity in addition hase sequence test function is also provided
- Data hold, backlight full-range overload protection

No.			
03021	1	12	6.5

▲ Warranty of 2 years (excluding battery and probe)





## 03022 AC/DC Clamp Meter



- 3-3/4 digits LCD, with a max. reading of frequency measurement : 9999
- Used to measure DC/AC voltage, DC/AC current, resistance, capacitance, frequency, diode and continuity
- Data-hold, backlight, full-range overload protection, etc.

No.			
03022	1	12	6.5

▲ Warranty of 2 years (excluding battery and probe)

No.	03021			03022			
Property							
Maximum Reading	1999			3999			
Measurement Function	Range	Resolution	Accuracy	Range	Resolution	Accuracy	
DC Voltage	200mV	0.1mV	+/-[0.5%+5]	400mV	0.1mV	+/-[0.8%+5]	
	2V	1mV		4V	1mV		
	20V	10mV		40V	10mV		
	200V	100mV		400V	0.1V		
	600V	1V		600V	1V		
AC Voltage	2V	1mV	+/-[1.2%+5]	4V	1mV	+/-[1.0%+5]	
	20V	10mV		40V	10mV		
	200V	100mV		400V	100mV		
	600V	1V		600V	1V		
DC Current	-	-	-	40A	0.01A	+/-[3.0%+10]	
	-	-	-	400A	0.1A	+/-[3.0%+6]	
	-	-	-	600A	1A		
AC Current	2A	0.001A	+/-[6%+20]≤0.4A +/-[5%+10]	40A	0.01A	+/-[2.5%+6]	
	20A	0.01A	+/-[4%+10]≤4A +/-[3%+8]	400A	0.1A		
	200A	0.1A	+/-[2.5%+5]	600A	1A		
	600A	1A	+/-[2.5%+5]				
Resistance	200Ω	0.1Ω	+/-[1.2%+5]]	400Ω	0.1Ω	+/-[1.0%+5]	
	2kΩ	1Ω	+/-[1%+5]	4kΩ	1Ω		
	20kΩ	10Ω		40kΩ	10Ω		
	200kΩ	100Ω		400kΩ	100Ω		
	2MΩ	1kΩ	+/-[1.2%+5]	4MΩ	1kΩ		+/-[1.5%+5]
	20MΩ	10kΩ	+/-[1.5%+5]	40MΩ	10kΩ		+/-[3.0%+10]
Capacitance (Measurements using relative values)	-	-	-	40nF	10pF	+/- (5.0%+5)	
	-	-	-	400nF	100pF		
	-	-	-	4μF	1nF		
	-	-	-	40μF	10nF		
	-	-	-	100μF	100nF		
Frequency	-	-	-	9.999Hz	0.001Hz	+/- (1.0%+5)	
	-	-	-	99.99Hz	0.01Hz		
	-	-	-	999.9Hz	0.1Hz		
	-	-	-	9.999kHz	1Hz		
	-	-	-	99.99kHz	10Hz		
	-	-	-	200kHz	100Hz		
Continuity and Diode Testing		0.1Ω	When resistance is ≤ about 30 Ω, the buzzer buzzes		The buzzer buzzes when R < 20Ω		
		1mV	The screen shows an approximation of forward voltage drop of diode; open circuit voltage: approx. 148V		The screen shows an approximation of forward voltage drop of diode; open circuit voltage: approx. 3V		
Phase Sequence Test	Measuring Range	Phase Sequence Indication	Phase voltage accuracy	-	-	-	
	380V+/-10%;50Hz	Negative phase sequence, reverse phase sequence, missing phase sequence	+/-2%	-	-	-	
Common							
Battery	Two 1.5 V AAA batteries						
Size (mm)	185 X 74 X 40			202.5 X 73.5 X 40			
Weight (g)	195 [battery included]			220 [battery included]			



## 03025 Wide Jaw Clamp Meter



- 3-3/4 digits LCD, with a max. reading of frequency measurement : 9999
- Used to measure DC/AC voltage, AC current, resistance, frequency, duty cycle, capacitance, diode and continuity
- Data-hold, backlight, flashlight function, full-range overload protection and etc.

No.			
03025	1	12	6.3

▲ Warranty of 2 years (excluding battery and probe)

## 03026 Wide Jaw AC/DC Clamp Meter



- 3-5/6 digits LCD, with a max. reading of frequency measurement : 9999
- Used to measure DC/AC voltage, DC/AC current, resistance, frequency, duty cycle, capacitance, diode and continuity
- NCV, data-hold, backlight, flashlight , full-range overload protection and etc.

No.			
03026	1	12	6.5

▲ Warranty of 2 years (excluding battery and probe)

No.	03025			03026		
Property						
Maximum Reading	3999			5999		
Measurement Function	Range	Resolution	Accuracy	Range	Resolution	Accuracy
DC Voltage	4V	1mV	+/- (0.8%+5)	6V	1mV	+/- (0.8%+5)
	40V	10mV		60V	10mV	
	400V	0.1V		600V	0.1V	
	1000V	1V		1000V	1V	
AC Voltage	4V	1mV	+/- (0.8%+5)	6V	1mV	+/- (0.8%+5)
	40V	10mV		60V	10mV	
	400V	100mV		600V	0.1V	
	750V	1V		750V	1V	
AC Current	40A	0.01A	+/- (3.0%+8)	60A	0.01A	+/- (2.5%+6)
	400A	0.1A		600A	0.1A	
	1000A	1A		1000A	1A	
DC Current	-	-	-	60A	0.01A	+/- (3.0%+10)
	-	-	-	600A	0.1A	+/- (3.0%+6)
	-	-	-	1000A	1A	
Resistance	400Ω	0.1Ω	+/- (1.0%+5)	600Ω	0.1Ω	+/- (1.0%+5)
	4kΩ	1Ω		6kΩ	1Ω	
	40kΩ	10Ω		60kΩ	10Ω	
	400kΩ	100Ω		600kΩ	100Ω	
	4MΩ	1kΩ	+/- (1.5%+5)	6MΩ	1kΩ	+/- (1.5%+5)
	40MΩ	10kΩ	+/- (3.0%+10)	60MΩ	10kΩ	+/- (3.0%+10)
Capacitance	40nF	10pF	+/- (5.0%+5)	40nF	10pF	+/- (5.0%+5)
	400nF	100pF		400nF	100pF	
	4μF	1nF		4μF	1nF	
	40μF	10nF		40μF	10nF	
	400μF	100nF		400μF	100nF	
	4000μF	1μF		4000μF	1μF	
Frequency	9.999Hz	0.001Hz	+/- (1.0%+5)	9.999Hz	0.001Hz	+/- (1.0%+5)
	99.99Hz	0.01Hz		99.99Hz	0.01Hz	
	999.9Hz	0.1Hz		999.9Hz	0.1Hz	
	9.999kHz	1Hz		9.999kHz	1Hz	
	99.99kHz	10Hz		99.99kHz	10Hz	
	999.9kHz	100Hz		999.9kHz	100Hz	
	9.999MHz	1kHz		9.999MHz	1kHz	
	For reference only			For reference only		
Frequency (Use binding clip)	-	-	-	40Hz-99.99Hz	0.01Hz	+/- (1.0%+5)
	-	-	-	100.0-999.9Hz	0.1Hz	
Duty ratio	5%-95%					
Short-circuit beep	Yes					
Diode test	Yes					
Non-contact circuit measurement	No			Yes		
Data Retention	Yes					
Backlight	Yes					
Auto shutdown	Yes					
Flashlight function	Yes					
Common						
Battery	3 1.5 V AAA batteries					
Size (mm)	243 X 87 X 44					
Weight (g)	364 (battery included)			380 (battery included)		



## 03005 Mini Digital Multimeter



- High-performance, low power consumption, auto-range
- Used to measure DC/AC voltage, DC/AC current, resistance, capacitance, continuity test, diode, backlight
- Full-range overload protection

No.			
03005	1	16	6.8

▲ Warranty of 2 years (excluding battery and probe)

## 03007 Mini Digital Multimeter with Frequency Test



- AC/DC voltage, AC/DC current, resistance, capacitance, frequency, duty cycle, continuity test, diode, backlight
- Auto-range
- Full-range overload protection

No.			
03007	1	16	6.8

▲ Warranty of 2 years (excluding battery and probe)

No.	03005		03007	
Property				
Maximum Reading	3999		3999	
Automatic/manual range	Automatic		Automatic	
Measurement Function	Range	Basic Accuracy	Range	Basic Accuracy
DC Voltage	4V	+/- (0.5%+5)	4V	+/- (0.5%+5)
	40V		40V	
	400V		400V	
	600V	+/- (1.0%+5)	600V	+/- (1.0%+5)
AC Voltage	400mV	+/- (1.0%+5)	400mV	+/- (1.0%+5)
	4V	+/- (0.8%+5)	4V	+/- (0.8%+5)
	40V	+/- (1.0%+5)	40V	+/- (1.0%+5)
	400V		400V	
	600V		600V	
DC Current	4A	+/- (1.0%+7)	4A	+/- (1.0%+7)
	10A	+/- (1.5%+7)	10A	+/- (1.5%+7)
AC Current	4A	+/- (1.5%+10)	4A	+/- (1.5%+10)
	10A	+/- (2.5%+10)	10A	+/- (2.5%+10)
Resistance	400Ω	+/- (1.0%+5)	400Ω	+/- (1.0%+5)
	4KΩ	+/- (0.5%+5)	4KΩ	+/- (0.5%+5)
	40KΩ		40KΩ	
	400KΩ		400KΩ	
	4MΩ	+/- (1.5%+5)	4MΩ	+/- (1.5%+5)
	40MΩ	+/- (3.0%+10)	40MΩ	+/- (3.0%+10)
Capacitance	51.2nF	+/- (3.5%+20)	51.2nF	+/- (3.5%+20)
	512nF	+/- (2.5%+5)	512nF	+/- (2.5%+5)
	512μF	+/- (5.0%+5)	512μF	+/- (5.0%+5)
	51.2μF		51.2μF	
	100μF		100μF	
Frequency	-	-	5Hz-500KHz	+/- (1.0%+5)
	-	-	5MHz	For reference only
Duty ratio	-	-	5%-95%	+/- (2.0%+3)
Short-circuit beep	Yes		Yes	
Diode test	Yes		Yes	
Other properties				
Data Retention	Yes		Yes	
Backlight	Yes		Yes	
Auto shutdown	Yes		Yes	
CAT level	CAT III 600V		CAT III 600V	
Battery	Two 1.5V AAA batteries		Two 1.5V AAA batteries	
Size (mm)	150 X 78 X 38		150 X 78 X 38	
Weight (G)	245 (Battery and jacket included)		245 (Battery and jacket included)	



## 03015 Digital Multimeter



- High performance, low power consumption, auto range function
- AC / DC voltage, AC / DC current, resistance, capacitance, frequency, continuity, diode, backlight function

No.			
03015	1	12	10.8

▲ Warranty of 2 years (excluding battery and probe)

## 03017 Digital Multimeter with Temperature Test



- High performance, low power consumption, auto range function
- AC / DC voltage, AC / DC current, resistance, capacitance, frequency, continuity, diode, backlight function, temperature measurement

No.			
03017	1	12	10.8

▲ Warranty of 2 years (excluding battery and probe)

No.	03015		03017	
Property				
Maximum Reading	3999		5999	
Automatic/manual range	Automatic		Automatic	
Measurement Function	Range	Basic Accuracy	Range	Basic Accuracy
DC Voltage	400mV	+/-[0.8% + 5]	600mV	+/-[0.8% + 5]
	4V / 40V / 400V	+/-[0.5% + 5]	6V / 60V / 600V	+/-[0.5% + 5]
	1000V	+/-[1.0% + 5]	1000V	+/-[1.0% + 5]
AC Voltage	4V	+/-[0.8% + 5]	6V	+/-[0.8% + 5]
	40V / 400V	+/-[1.0% + 5]	60V / 600V	+/-[1.0% + 5]
	1000V	+/-[1.2% + 5]	1000V	+/-[1.2% + 5]
DC Current	400μA / 4000μA / 40mA / 400mA	+/-[1.0% + 7]	600μA / 6000μA / 60mA / 600mA	+/-[1.0% + 7]
	4A / 20A	+/-[1.5% + 7]	6A / 20A	+/-[1.5% + 7]
AC Current	400μA / 4000μA / 40mA / 400mA	+/-[1.8% + 10]	600μA / 6000μA / 60mA / 600mA	+/-[1.8% + 10]
	4A / 20A	+/-[2.5% + 10]	6A / 20A	+/-[2.5% + 10]
Resistance	400Ω	+/-[1.0% + 5]	600Ω	+/-[1.0% + 5]
	4kΩ / 40kΩ / 400kΩ	+/-[0.5% + 5]	6kΩ / 60kΩ / 600kΩ	+/-[0.5% + 5]
	4MΩ	+/-[1.5% + 5]	6MΩ	+/-[1.5% + 5]
	40MΩ	+/-[3.0% + 10]	60MΩ	+/-[3.0% + 10]
Frequency	10Hz ~ 1MHz	+/-[1.0% + 5]	10Hz ~ 1MHz	+/-[1.0% + 5]
	10MHz	For reference only	10MHz	For reference only
Capacitance	40nF	+/-[3.5% + 20]	40nF	+/-[3.5% + 20]
	400nF	+/-[2.5% + 5]	400nF	+/-[2.5% + 5]
	4μF	+/-[3.5% + 5]	4μF	+/-[3.5% + 5]
	40μF	+/-[4.0% + 5]	40μF	+/-[4.0% + 5]
	400μF	+/-[5.0% + 5]	400μF	+/-[5.0% + 5]
	1000μF	For reference only	1000μF	For reference only
Duty ratio	5% ~ 95%	+/-[2.0% + 3]	5% ~ 95%	+/-[2.0% + 3]
Temperature	-	-	-20°C ~ 0°C	+/-[6.0% + 5°C]
	-	-	0°C ~ 400°C	+/-[1.5% + 4°C]
	-	-	400°C ~ 1000°C	+/-[1.8% + 5°C]
Short-circuit beep	Yes		Yes	
Diode test	Yes		Yes	
Relative mode test	Yes		Yes	
Other properties				
Data Retention	Yes		Yes	
Backlight	Yes		Yes	
Auto shutdown	Yes		Yes	
EN61010-1 CAT II/CAT III	CAT III 1000V		CAT III 1000V	
Battery	9V 6F22Battery		9V 6F22Battery	
Size (mm)	184 X 89 X 62		184 X 89 X 62	
Weight (g)	440 [Battery and jacket included]		440 [Battery and jacket included]	



## 03075 EBTN Intelligent True RMS Multimeter



- 4-5/6-digit true RMS digital multimeter
- Basic measurement features: DC/AC voltage, AC/DC current, resistance, capacitance, frequency, continuity, diode, temperature
- Special measurement: ACV LoZ, AC voltage AC+DC, lowpass filtering, current loop, conductivity, ACV peak
- USB data transmission, lithium battery charging protection, square wave output, and automatic alarm for probe insertion error
- Safe, reliable, all-position 1000V protection, TPR bi-color plastic-coated enclosure, resistant to dropping from a 1 m height

No.			
03075	1	4	5

▲ 2-year warranty for overall unit except fuse, battery, probe

## 03079 OLED Intelligent True RMS Multimeter



- 4-5/6-digit true RMS digital multimeter
- Basic measurement features: DC/AC voltage, AC/DC current, resistance, capacitance, frequency, continuity, diode, temperature
- Special measurement: ACV LoZ, AC voltage AC+DC, lowpass filtering, current loop, conductivity, ACV peak
- USB data transmission, lithium battery charging protection, square wave output, and automatic alarm for probe insertion error
- Safe, reliable, all-position 1000V protection, TPR bi-color plastic-coated enclosure, resistant to dropping from a 1 m height

No.			
03079	1	4	5

▲ 2-year warranty for overall unit except fuse, battery, probe




Function	03075 EBTN Intelligent True RMS Multimeter	03079 LED Intelligent True RMS Multimeter
Safety level	CAT IV 600V/CAT III 1000V	CAT IV 600V/CAT III 1000V
Maximum Reading	59999	59999
Automatic/manual range	Automatic/manual	Automatic/manual
DC Voltage	0.01 mV-1000 V	0.01 mV-1000 V
AC Voltage	0.01 mV-1000 V	0.01 mV-1000 V
LoZ ACV	Yes	Yes
DC Current	0.01 $\mu$ A -10 A	0.01 $\mu$ A -10 A
AC Current	0.01 $\mu$ A -10 A	0.01 $\mu$ A -10 A
Resistance	0.01 $\Omega$ -60 M $\Omega$	0.01 $\Omega$ -60 M $\Omega$
Capacitance	1 pF-60 mF	1 pF-60 mF
Frequency Measuring Range	60 MHz	60 MHz
Duty ratio	1%-99%	1%-99%
Temperature Measurement	-40°C ~1000°C / - 40 ~ 1832F	-40°C ~1000°C / - 40 ~ 1832F
Lowpass filtering	Yes	Yes
Current loop measurement %(4-20mA)	Yes	Yes
Conductivity measurement	60.00nS	60.00nS
Square Wave Output	No	Yes
Current Transducer	No	1mV/A maximum range 600A (optional)
ACV peak measurement	Yes	Yes
USB transmission	Yes	Yes
Display Type	EBTN	OLED
Bluetooth	(Optional)	(Optional)
Charging Function	Yes	Yes
Input hole mis-plugging alarm	Yes	Yes
Common		
Power	One 74V/1800mAh lithium ion battery	
Overall dimensions	206mm*95mm*53mm	
Weight	518g (battery included)	



## 03055 Slim Digital Multimeter



- LCD with Max. reading of 3999, with high definition white backlight
- Used to measure DC/AC voltage, DC/AC current, resistance, capacitance, continuity test, diode
- Ultra-thin, easy to hold
- Auto-range
- Full-range overload protection




No.			
03055	-	12	6.5

▲ All the parts except the fuse, battery and measuring pen are guaranteed for two years

## 03057 Slim Digital Multimeter with Temperature Tester



- Auto-range
- LCD with Max. reading of 3999, with high definition white backlight
- Used to measure DC/AC voltage, DC/AC current, resistance, capacitance, continuity test, diode, frequency, duty cycle, temperature
- Ultra-thin, easy to hold

No.			
03057	-	12	6.5

▲ All the parts except the fuse, battery and measuring pen are guaranteed for two years

Function	03055 Slim Digital Multimeter	03057 Slim Multimeter with Temperature Test
Maximum Reading	3999	3999
Automatic/manual range	Automatic	Automatic
DC Voltage	400mV/4V/40V/400V/600V	400mV/4V/40V/400V/600V
AC Voltage	400mV/4V/40V/400V/600V	400mV/4V/40V/400V/600V
DC Current	400μA/4000μA/40mA/400mA/4A/10A	400μA/4000μA/40mA/400mA/4A/10A
AC Current	400μA/4000μA/40mA/400mA/4A/10A	400μA/4000μA/40mA/400mA/4A/10A
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ
Capacitance	10nF/100nF/1μF/10μF/100μF	10nF/100nF/1μF/10μF/100μF
Frequency	No	10Hz/100Hz/1KHz/10KHz/100KHz
Duty ratio	No	5%-95%
Temperature	No	-20°C~1000°C (4°F~1832°F)
Short-circuit beep	Yes	Yes
Diode test	Yes	Yes
Data Retention	Yes	Yes
Backlight	White	White
Auto shutdown	Yes	Yes
Common		
Power	Two 1.5 V AAA batteries	
Size	175×78×18.5mm	
Weight	190G (battery included)	



### 03031 Infrared Thermometer



- Non-contact temperature thermometer
- Three-color backlight display
- The temperature change point can be quickly detected according to the settings.

No.			
03031	1	12	5

▲ Warranty of 2 years (excluding battery)

Performance	
Measuring Range	-38°C ~ +520°C ( -36.4 °F ~ +968 °F )
Spectral Response	7.5 ~ 13.5μm
Measurement accuracy	+/-2 °C (4° F) or 2% of the reading, taking the one with bigger error range
Response time	1s, 95%
Distance coefficient ratio D:S	8 : 1
Emissivity	0.95
Reading Resolution	0.1°C / 0.1 °F
Backlight automatic shutdown time	About 15 seconds after the instrument stops operation
Automatic shutdown time	About 60 seconds after the instrument stops operation
Operating temperature	0°C ~ 40°C
Operating humidity	Relative humidity <75%, no condensation
Storage Temperature	-20°C ~ 60°C , relative humidity ≤85%
Common	
Battery	Two 1.5 V AAA batteries
Size (mm)	160 X 118 X 40
Weight (G)	155g (battery included)

### 03032 Industrial Infrared Thermometer 800



- Capable of measuring temperature of up to 800°C
- Simple operation
- Adjustable transmission power

No.			
03032	-	24	6.3

▲ Warranty of 2 years (excluding battery)

Temperature Range	-20°C~800°C
Accuracy	+/-2°C or +/-2% reading (+/-3.6°F or +/-2% reading) Of the two reading choose the maximum value.
Resolution Ratio	0.1°C
Emissivity	Adjustable between 0.10~1.00 (0.95 by default), adjusting 0.01 each time
Automatic shutdown time	Automatic shutdown after no operation for about 1 minute
Operating temperature	0~40°C, relative humidity ≤85%
Battery model/quantity	Two 1.5 V AAA batteries
Weight	145+/- 10g (battery not included)

### 03036 High-Precision Infrared Thermometer 33.5-42



- High-precision measurement
- 6 set of memories

No.			
03036	-	24	6.3

▲ Warranty of 2 years (excluding battery)

Temperature Range	33.5°C~42°C
Measurement accuracy	+/-0.3°C
Resolution	0.1°C
Automatic shutdown time	Automatic shutdown after no operation for about 30s
Record storage	Automatically storing 6 sets of recent measurements
Temperature measurement	Green backlight lit when <37.4°C, while red backlight lit when measuring temperature ≥37.4°C
Operating temperature	16°C~35°C, relative humidity ≤85%
Battery model/quantity	Two 1.5 V AA batteries
Weight	135+/- 10g (battery not included)



## 03081 Infrared Thermal Imager



- Fast response during measurement
- High accuracy in temperature measurement
- Built-in with dual laser transmitter for quick locking of the measurement area
- Large-capacity lithium battery for long-time continuous power supply
- Designed with such functions as automatic tracking of cold and hot spots and automatic high/low temperature alarm, enabling quick tracking of abnormal temperature points

No.			
03081	1	4	3.4

▲ 2-year warranty for overall unit except battery

Infrared Temperature Measurement	
Temperature Range	-30°C~400°C
Basic Accuracy	Accuracy of $\pm 3^{\circ}\text{C}$ at $-30^{\circ}\text{C}$ ~ $0^{\circ}\text{C}$ ; Accuracy of $\pm 2^{\circ}\text{C}$ at $1^{\circ}\text{C}$ ~ $100^{\circ}\text{C}$ ; Accuracy of $\pm 2\%$ at $101^{\circ}\text{C}$ ~ $400^{\circ}\text{C}$ ; (Nominal temperature and humidity: $23^{\circ}\text{C}$ ~ $25^{\circ}\text{C}$ , 50~75%RH)
Emissivity	0.95 (default, with custom adjustment between 0.01~1.00)
Distance coefficient ratio D:S	20:01
Measurement resolution ratio	$0.1^{\circ}\text{C}$
Response time	250ms
Thermal Imaging Technology	
Thermal imaging resolution	4800 pixels (80 x60)
Pixel Size	$17\mu\text{m}$
Display mode	Thermal imaging, image fusion, visible light
Palette	Iron red, rainbow color, gray
Image fusion ratio	0% (Total Thermal Imaging), 25%, 50%, 75%, 100% (Total Visible Light)
Optimum fusion distance	$\geq 1\text{m}$
Wavelength coverage	8~14 $\mu\text{m}$
Field of view (FOV)	$50^{\circ}$
Thermal imaging sensitivity	150mk
Frame frequency	$\leq 9\text{Hz}$
Save image format	Bitmap (BMP) image (320*240 pixels)
General Parameters	
Visible light camera	2 million pixels
Display type	2.4" TFT LCD
Display resolution	320*240 pixels
Laser indication	Dual Laser
Auto shutdown function	Yes
Battery continuous operating time	6h
Charging time	7h
Storage temperature	$-20^{\circ}\text{C}$ ~ $50^{\circ}\text{C}$ , $-4^{\circ}\text{F}$ ~ $122^{\circ}\text{F}$
Operating temperature	$0^{\circ}\text{C}$ ~ $45^{\circ}\text{C}$ , $32^{\circ}\text{F}$ ~ $113^{\circ}\text{F}$
Temperature coefficient	$\pm 0.1^{\circ}\text{C}/^{\circ}\text{C}$ or $\pm 0.1\%/^{\circ}\text{C}$ , whichever is bigger
Test of resistance to dropping	1m
Standard configuration	USB cable, 8GB mini TF card
Common	
Battery	One 3.7V/2600mAh lithium ion battery
Size (mm)	205*124*65
Weight (g)	367g (battery included)

## 97921 Two Stage Heat Gun



- Double insulation protection, ensuring higher safety
- Unique overheat protection device, ensuring normal operation of heating components
- Imported core components, such as heating and air supply components
- The nozzles required for some functional applications can be purchased separately
- Technical Specification
- Voltage 220V 50Hz
- Output Power 1600W
- Temperature Range  $350$ ~ $500^{\circ}\text{C}$
- Air Flow 350/500l/min
- Weight 680g

No.			
97921	1	8	9.7

▲ 3-month warranty except heater

## 97922 Adjustable Heat Gun



- Double insulation protection, ensuring higher safety
- Unique overheat protection device, ensuring normal operation of heating components
- Imported core components, such as heating and air supply components
- The nozzles required for some functional applications can be purchased separately
- Technical Specification
- Voltage 220V 50Hz
- Output Power 1800W
- Temperature Range  $100$ ~ $550^{\circ}\text{C}$
- Air Flow 250/550l/min
- Weight 720g

No.			
97922	-	8	9.9

▲ 3-month warranty except heater



### 97923 Digital Heat Gun



- Double insulation protection, ensuring higher safety
- Unique overheat protection device, ensuring normal operation of heating components
- Imported core components, such as heating and air supply components
- The nozzles required for some functional applications can be purchased separately
- Technical Specification
- Voltage 220V 50Hz
- Output Power 2000W
- Temperature Range 80-650° C
- Air Flow 200/550l/min
- Weight 780g

No.			
97923	-	8	10

▲ 3-month warranty except heater

### 09812 4Pc. Adjustable Heat Gun Set



- Double insulation protection, ensuring higher safety
- Unique overheat protection device, ensuring normal operation of heating components
- Imported core components, such as heating and air supply components
- Fragile heating core, no dropping

No.			
09812	-	8	15.2

▲ 3-month warranty except heater

### 09811 3Pc. Two Stage Heat Gun Set



- Double insulation protection, ensuring higher safety
- Unique overheat protection device, ensuring normal operation of heating components
- Imported core components, such as heating and air supply components
- Fragile heating core, no dropping

No.			
09811	-	8	15

▲ 3-month warranty except heater

### 09813 6Pc. Digital Heat Gun Set



- Double insulation protection, ensuring higher safety
- Unique overheat protection device, ensuring normal operation of heating components
- Imported core components, such as heating and air supply components
- Fragile heating core, no dropping

No.			
09813	-	8	15.9

▲ 3-month warranty except heater





## Industrial hot air gun accessories (Others only applicable to industrial hot air gun except for the pressure roller)

### 97901 Deflector Nozzle



• Application: Protecting glass when peeling off the glass frame paint

No.			
97901	1	-	-

▲ No warranty as consumables

### 97903 Reduction Nozzle



• Application: Stripping tags, etc

No.			
97903	1	-	-

▲ No warranty as consumables

### 97904 Reflector Nozzle



• Application: Forming processing and copper pipe welding

No.			
97904	1	90	3.9

▲ No warranty as consumables

### 97905 Reduction Nozzle for Welding



• Application: Pendulum welding

No.			
97905	-	140	6.2

▲ No warranty as consumables

### 97907 Reflector Nozzle for Soldering



• Application: Thermoplastic casing

No.			
97907	-	6	4.5

▲ No warranty as consumables

### 97906 Reduction Nozzle for Precision Welding



• Application: Repair welding

No.			
97906	-	180	8.2

▲ No warranty as consumables

### 97902 Spreader Nozzle



• Application: Scraping paint, etc

No.			
97902	6	180	7.8

▲ No warranty as consumables

### 97908 Seam Roller



• Application: Furniture facing and repair welding

No.			
97908	-	60	7.4

▲ No warranty as consumables



## 97924 Adjustable Heat Gun



- Unique overheat protection, ensuring normal operation of the heating element
- Long life ceramic heater and motor, ensuring long-term continuous operation
- Technical
  - Voltage 220V 50Hz
  - Output Power 2000W
  - Switch Position ( I / II / III )
  - Temperature Range I: 50° C II: 50-450° C III: 50-600° C
  - Air Flow I: 250L/MIN II: 250L/MIN III: 500L/MIN

No.			
97924	-	6	8.8

▲ 3-month warranty except heating element

## 97925 Digital Heat Gun



- Unique overheat protection, ensuring normal operation of the heating element
- Long life ceramic heater and motor, ensuring long-term continuous operation
- Technical
  - Voltage 220V 50Hz
  - Output Power 2000W
  - Switch Position ( I / II / III )
  - Temperature Range I: 50° C II: 450° C III: 600° C
  - Air Flow I: 500L/MIN II: 200L/MIN III: 500L/MIN

No.			
97925	-	6	9.1

▲ 3-month warranty except heating element

## 97926 6Pc. Adjustable Heat Gun Set

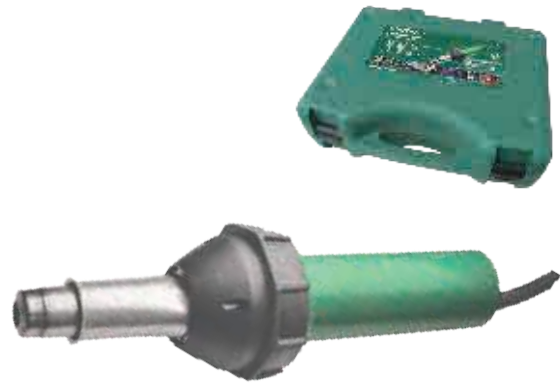


- Unique overheat protection, ensuring normal operation of the heating element
- Long life ceramic heater and motor, ensuring long-term continuous operation
- Technical
  - Voltage 220V 50Hz
  - Output Power 2000W
  - Switch Position ( I / II )
  - Temperature Range I: 50° C II: 50-650° C
  - Air Flow I: 250-500L/MIN II: 250-500L/MIN

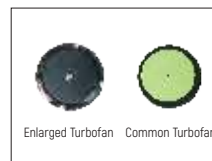
No.			
97926	-	6	14.7

▲ 3-month warranty except heating element

## 97927 Industrial Heat Gun



2 nozzles provided for free  
(Spreader Nozzle of 20MM,  
standard round nozzle of 5MM)



Large turbofan for stable  
output air volume and low  
noise



Customized industrial motors  
adopted for continuous  
operation of production line



Suitable for various heating operation  
Used with quick welding nozzle for higher welding efficiency

- Industrial hot air gun with customized industrial motor, suitable for continuous use on production lines
- Air outlet temperature up to 700° C
- High-power fan for high air supply efficiency and low noise
- Anti-watering and anti-electric design, suitable for outdoor work
- Design featured by quick replacement of the heating core and carbon brush
- Fragile heating core, no dropping

No.			
97927	-	5	16




▲ 1-year warranty for overall unit except heating core

## Optional Components of Industrial Heat Gun

### 97930 Tubular Nozzle $\Phi 5\text{mm}$



• Application: Plastic welding and car body repair




No.			
97930	-	50	1.8

▲ No warranty as consumables

### 97933 Triangular Speed Welding Nozzle 7mm



• Application: Fast plastic welding with plastic welding rod

No.			
97933	-	50	1.1

▲ No warranty as consumables

### 97935 Tacking Nozzle



• Application: Fine welding operation




No.			
97935	-	50	1

▲ No warranty as consumables

### Spreader Nozzle



• Application: Small area welding and heating




No.	Spec. (mm)			
97928	20	-	50	2.6
97929	40	-	50	2.7

▲ No warranty as consumables

### Round Speed Welding Nozzle



• Application: Fast plastic welding with plastic welding rod

No.	Spec. (mm)			
97931	$\Phi 5$	-	50	1.4
97932	$\Phi 4$	-	50	1.4

▲ No warranty as consumables

### 97934 Silicone Seam Roller 40mm



• Application: Facing

No.			
97934	-	50	9.6

▲ No warranty as consumables



## Overview of SATA Lighting Series:

### SATA Glare Flashlight Series:

Suitable for all kinds of professional users with small size, high brightness and powerful function

### SATA Alkaline-Battery Flashlight Series:

Suitable for entry-level users with affordable price and rich variety

### High-brightness ABS Flashlight Series:

Floodlight: Suitable for a wide range of operation lighting and users with special working requirements with high brightness, wide range of illumination, various shapes and powerful extension function

### Headlamp Series:

Spotlight: suitable for polling, long distance lighting and operation lighting with high brightness, long irradiation distance, and hands-free feature

### Portable Worklight Series:

Suitable for automobile repair and other machine repair environment

You can choose products according to different color block labeling and performance description of each product.

## 90791 Multi-purpose Flashlight (High Color Rendering)



- Color matching
- Flashlight 250LM
- Color matching lamp 120LM
- Maximum service life 45 h
- Sidelight used for frame work and painting during auto repair and color matching in printing, and headlights used as flashlights or battery pack to charge the phone

No.			
90791	10	40	3

▲ Warranty of 6 months (excluding the battery)

## 90790 Multi-purpose Flashlight



300° Adjustable Stand



Magnetic Stand



Warning Light



Power Bank

### Optical Performance

- Flashlight: 250LM
- Worklight: 200LM

### Adjustable Brightness

- Holding the power button to adjust the brightness

### Adjustable Stand

- 300° Adjustable Stand
- Magnetic Stand

### Multi-function

- Warning Light
- Power Bank
- Widely used for repair/ inspection/outdoor lighting

No.			
90790	10	40	8

▲ 6-month warranty except battery

## 90769 Multi-Function Spotlight 330lm



- One light with two purposes
- Searchlight 300LM
- Work light 200LM
- Maximum service life 6h
- Suitable for maintenance, property management and domestic purpose
- Suitable for long-range inspection and used as working lamp to illuminate the working area

No.			
90769	-	10	4.5

▲ No warranty as consumables

## 90795 Portable Floodlight 1000lm



- Large area lighting
- 1000LM
- Maximum operation time : 7 h
- Suitable for large area lighting at construction site and equipment installation with super high brightness of 1000 lumens

No.			
90795	-	5	2.9

▲ No warranty as consumables

## Dual Purpose Headlamp



90901



Three AAA batteries provided with the product for free

90902



USB cable provided with the product for free

- Dual LED design, suit for large area and detail lighting
- Memory mode function
- Sensor on/off switch function
- Detachable design, can be used as independent light source

No.	SMDLED	COBLED	SMDCOB	Charging time			
90901 AAA Battery	250lm/2h 75lm/5h	180lm/3h	300lm/1.2h	-	6	24	4.6
90902 Li-Ion Battery	250lm/4h 75lm/10h	180lm/6h	350lm/2.5h	About 3h	6	24	4

▲ Excluded from lifetime warranty terms.

## 90606 Wireless Charging Folding Worklight



- Wireless charging / wired charging dual charging mode
- IP65 waterproof and dustproof
- Pocket size only, easy to carry and store
- Maximum 300lm LED (Front), 100lm LED (Torch)
- Plastic body case with soft rubber. Lightweight and durable
- Can fold or set at different angle with continuous adjustable lamp stand
- High efficiency COB strip LED provides a wide range of lighting angles of 110 degrees
- Stepless dimming (Front light)
- Back and bottom magnets can be fixed on the metal surface to release hands
- 360 degree swivel hook at back to hang to release hands
- Constant current drive, stable brightness, no noise

### Product parameters

- Luminous flux: 300-100lm LED (Front), 100lm LED (Torch)
- Operating time: 3-6 hours (Front light) / 6 hours (Torch light)
- Charging time: 2.5 hours(USB charging), 3.5 hours(wireless charging)
- Switch mode: light touch to turn on the light (Torch light - Front light - off), long press to adjust the front light)
- battery: Build-in 1500mAh Li-poly battery
- Weight: 200g
- Dimensions (L/W/H): 133x68x25mm

### Standard equipment:

- Wireless Charging Folding Worklight 300lm x1
- 1m USB type-C cable x1

No.	L×W×H(mm)	Rated Luminous Flux(lm)	Rated Maximum Battery Life(h)	Rated Charging Time(h)	Battery(MAH)	Weight(kg)			
90606	133×68×25	300-100 (Front light) 100 (Dome light)	3-6 (Front light) 6 (Dome light)	Approx. 2.5 (wired) Approx. 3.5 (wireless)	1500 lithium polymer battery	0.2	-	34	9.4

▲ No warranty as consumables







## 90607 Wireless Charging Folding Worklight



- Wireless charging / wired charging dual charging mode
- IP65 waterproof and dustproof
- Impact resistant case
- Maximum 600lm LED (Front), 100lm LED (Torch)
- Plastic body case with soft rubber. Lightweight and durable
- Can fold or set at different angle with continuous adjustable lamp stand
- High efficiency COB strip LED provides a wide range of lighting angles of 110 degrees
- Stepless dimming (Front light)
- Back and bottom magnets can be fixed on the metal surface to release hands
- 360 degree swivel hook at back to hang to release hands
- Constant current drive, stable brightness, no noise

### Product parameters:

- Luminous flux: 600-100lm LED (Front), 100lm LED (Torch)
- Operating time: 3-10 hours (Front light) / 10 hours (Torch light)
- Charging time: 2.5 hours(USB charging), 4.5 hours(wireless charging)
- Switch mode: light touch to turn on the light (Torch light - Front light - off), long press to adjust the front light)
- Battery: Build-in 2600mAh Li-ion battery
- Weight: 302g
- Dimensions (L/W/H): 205x55x40mm

### Standard equipment:

- Wireless Charging Folding Worklight 600lm x1
- 1m USB type-C cable x1



No.	L×W×H(mm)	Rated Luminous Flux(lm)	Rated Maximum Battery Life(h)	Rated Charging Time(h)	Battery(MAH)	Weight(kg)			
90607	205×55×40	600-100 (Front light) 100 (Dome light)	3-10 (Front light) 10 (Dome light)	Approx. 2.5 (wired) Approx. 4.5 (wireless)	2600 lithium polymer battery	0.3	-	30	8

▲ No warranty as consumables

## 90608 Wireless Charging Folding Slim Worklight



- Wireless charging / wired charging dual charging mode
- IP65 waterproof and dustproof
- Thin aluminum alloy lamp head, suitable for using in narrow space
- Maximum 600lm LED (Front), 100lm LED (Torch)
- Plastic body case with soft rubber. Lightweight and durable
- Stainless steel shaft can be folded 180 degrees and rotated 270 degrees
- High efficiency COB strip LED provides a wide range of lighting angles of 110 degrees
- Stepless dimming (Front light)
- Back and bottom magnets can be fixed on the metal surface to release hands
- 180 degree swivel hook at bottom to hang to release hands
- Constant current drive, stable brightness, no noise

### Product parameters:

- Luminous flux: 600-100lm LED (Front), 100lm LED (Torch)
- Operating time: 3-10 hours (Front light) / 10 hours (Torch light)
- Charging time: 2.5 hours(USB charging), 4.5 hours(wireless charging)
- Switch mode: light touch to turn on the light (Torch light - Front light - off), long press to adjust the front light)
- Battery: Build-in 2600mAh Li-ion battery
- Weight: 230g
- Dimensions (L/W/H): 325x44x38mm

### Standard equipment:

- Wireless Charging Folding Slim Worklight 600lm x1
- 1m USB type-C cable x1



No.	L×W×H(mm)	Rated Luminous Flux(lm)	Rated Maximum Battery Life(h)	Rated Charging Time(h)	Battery(MAH)	Weight(kg)			
90608	325×44×38	600-100 (Front light) 100 (Dome light)	3-10 (Front light) 10 (Dome light)	Approx. 2.5 (wired) Approx. 4.5 (wireless)	2600 lithium polymer battery	0.2	-	50	16.1

▲ No warranty as consumables

**90609 Single Output Wireless Charger**

- Single output wireless charger
- Stick to Wireless Worklight and metal surface with build-in magnet
- Charging for mobile phones with wireless charging function

**Product parameters:**

- Output power: 5W
- Input: 5V / 2a, USB type-C input
- Weight: 190g
- Dimensions (L/W/H): 55x24x115mm

No.			
90609	-	30	10.4

No warranty as consumables

**90618 Tripod for Waterproof Fieldlight**

- Three section expansion with a maximum height of 2M
- High quality iron pipe material, stable and durable
- Can place waterproof field lighting(90613,90614,90615,90616,90617)

No.			
90618	-	4	15.5

No warranty as consumables

**90610 Double Output Wireless Charger**

- Double output wireless charger
- Stick to Wireless Worklight and metal surface with build-in magnet
- Charging for mobile phones with wireless charging function

**Product parameters:**

- Output power: 5W/single charger
- Input: 5V / 2a, USB type-C input
- Weight: 270g
- Dimensions (L/W/H): 52x35x204mm

No.			
90610	-	30	13.6

No warranty as consumables

**90797 Stereo-type Work Light**

- Compact and light (only 330 grams) requiring only one hand for operation
- Wireless audio enabled with one key for enjoying music while working
- Front 500-lumen COB headlamp for regional lighting
- Top 170-lumen LED remote spot light, also acting as flashlight

No.			
90797	-	12	5.5

No warranty as consumables



## Li-Ion Waterproof Fieldlight



- IP65 waterproofing and dustproofing for outdoor use
- ABS plastic shell +TPR front cover to protect the product from falling and damage
- High-brightness 1000LM LED with built-in 4000mAh lithium ion battery
- 270-degree foldable bracket for multi-angle lighting and acting as bracket
- Soft light shade for reducing fatigue
- 5V1A USB output port for reversely charging other devices

No.	Spec.	L×W×H(mm)	Rated Luminous Flux(lm)	Rated Maximum Battery Life(h)	Rated Charging Time(h)	Battery(MAH)	Weight(kg)			
90613	1000LM LED	173×133×43	High brightness 1000LM LED	2.5 (100% brightness) 5 (50% brightness)	About 4.5	4000 lithium polymer battery	0.4	-	18	10.3
90614	2000LM LED	204×156×51	High brightness 2000LM LED	3 (100% brightness) 5 (50% brightness)	About 6	8000 lithium polymer battery	0.7	-	10	9

▲ No warranty as consumables

## Waterproof Fieldlight



- IP65 waterproofing and dustproofing for outdoor use
- ABS plastic shell +TPR front cover to protect the product from falling and damage
- 270-degree foldable bracket for multi-angle lighting and acting as bracket
- Soft light shade for reducing fatigue
- 220-240V AC power supply

No.	Spec.	L×W×H(mm)	Rated Luminous Flux(lm)	Power (W)	Power (V)	Power cord (M)	Weight(kg)			
90615	2400LM LED	208×204×52	High brightness 2400LM LED	30	220-240V AC	2	1.1	-	8	9
90616	5000LM LED	208×254×68	High brightness 5000LM LED	47	220-240V AC	2	1.8	-	8	13.6

▲ No warranty as consumables



## 90617 Waterproof Fieldlight 6000lm



- IP54 waterproof and dustproof
- High brightness 6000lm led
- 360 degree Soft light shade, provide comfortable and soft lighting
- Bottom metal hook can be hung
- Tripod can be purchased separately
- 220-240VAC

### Product parameters:

- Luminous flux: 6000lm
- Power: 50w
- Power supply: 220-240VAC, 2m cord
- Weight: 2.1kg
- Dimensions (L/W/H): 240x209x252mm

### Standard equipment:

- Waterproof Fieldlight 6000lm x1

No.	L×W×H(mm)	Rated Luminous Flux(lm)	Power (W)	Power (V)	Power cord (M)	Weight(kg)			
90617	240×209×252	High brightness 6000LM LED	50	220-240V AC	2	2.1	-	4	8.9

No warranty as consumables

## 90619 Battery Replaceable Folding Worklight 500lm



- IP54 waterproof and dustproof
- Exchangeable battery can be replace when used outdoors, greatly extending the Operating time
- Maximum 500lm LED (Front), 100lm LED (Torch)
- Plastic body case with soft rubber. Lightweight and durable
- Can fold or set at different angle with continuous adjustable lamp stand
- High efficiency COB strip LED provides a wide range of lighting angles of 110 degrees
- Stepless dimming (Front light)
- Back and bottom magnets can be fixed on the metal surface to release hands
- 360 degree swivel hook at back to hang to release hands
- Constant current drive, stable brightness, no noise

### Product parameters:

- Luminous flux: 500-100lm LED (Front), 100lm LED (Torch)
- Operating time: 3-8 hours (Front light) / 8 hours (Torch light)
- Charging time: 3.5 hours
- Switch mode: light touch to turn on the light (Torch light - Front light - off), long press to adjust the front light)
- battery: 2600mAh Li-ion battery
- Weight: 302g
- Dimensions (L/W/H): 58x32x200mm

### Standard equipment:

- Wireless Charging Folding Worklight 600lm x1
- 1m USB type-C cable x1
- Battery Replaceable Folding Worklight 500lm x1
- 18650 Li-ion rechargeable battery x1
- 1m USB type-C cable x1
- 18650 Li ion battery charging stand x1
- 5v1a charger x1



No.	L×W×H(mm)	Rated Luminous Flux(lm)	Rated Maximum Battery Life(h)	Rated Charging Time(h)	Battery(MAH)	Weight(kg)			
90619	58×32×200	500-100(Front light) 100 (Dome light)	3-8(Front light) 8 (Dome light)	About 3.5	2600 lithium ion battery	0.3	-	50	18.6

No warranty as consumables



## 90620 Folding Worklight 400lm



- Thin aluminum alloy lamp head, suitable for using in narrow space
- Stainless steel shaft can be folded 180 degrees and rotated 270 degrees
- Maximum 400lm LED (Front), 70lm LED (Torch)
- Plastic body case with soft rubber. Lightweight and durable
- High efficiency COB strip LED provides a wide range of lighting angles of 110 degrees
- Stepless dimming (Front light)
- Back and bottom magnets can be fixed on the metal surface to release hands
- 180 degree swivel hook at bottom to hang to release hands
- Constant current drive, stable brightness, no noise

### Product parameters:

- Luminous flux: 400-70lm LED (Front), 70lm LED (Torch)
- Operating time: 3-8 hours (Front light) / 8 hours (Torch light)
- Charging time: 3 hours
- Switch mode: touch switch + Front light roller switch, rolling dimming (5% - 100%)
- Battery: 2000mAh Li-ion battery
- Weight: 220g
- Dimensions (L/W/H): 300x44x34mm

### Standard equipment:

- Folding Worklight 400lm x1
- 1m Micro-USB cable x1
- 5v1a charger x1



No.	L×W×H(mm)	Rated Luminous Flux(lm)	Rated Maximum Battery Life(h)	Rated Charging Time(h)	Battery(MAH)	Weight(kg)			
90620	300×44×34	400-70 (Front light) 70 (Dome light)	3-8(Front light) 8 (Dome light)	About 3	2000 lithium ion battery	0.2	-	20	64

▲ Excluded from lifetime warranty terms

## 90621 Folding Worklight 250lm



- Light and small, easy to hold
- Can set at different angle with continuous adjustable lamp stand
- Maximum 250lm LED (Front), 70lm LED (Torch)
- High efficiency COB strip LED provides a wide range of lighting angles of 110 degrees
- Back and bottom magnets can be fixed on the metal surface to release hands
- 360 degree swivel hook at back to hang to release hands

### Product parameters:

- Luminous flux: 250lm LED (Front), 70lm LED (Torch)
- Operating time: 3.5 hours (Front light) / 8 hours (Torch light)
- Charging time: 2.5 hours
- Switch mode: Short press to turn on the light (Torch- Front light-off)
- Battery: Build-in 1000mAh Li-poly battery
- Weight: 127g
- Dimensions (L/W/H): 186x47x30mm

### Standard configuration

- Folding work light 250lm x1
- 1m micro USB cable x1
- 5v1a charger x1



No.	L×W×H(mm)	Rated Luminous Flux(lm)	Rated Maximum Battery Life(h)	Rated Charging Time(h)	Battery(MAH)	Weight(kg)			
90621	186×47×30	250 (Front light) 70 (Dome light)	3-5(Front light) 8 (Dome light)	About 2.5	1000 lithium ion battery	0.1	-	50	124

▲ Excluded from lifetime warranty terms





## 90738 Super Bright Rechargeable Flashlight 270lm

Classic Flashlight



- CREE XP-E2R3 high-power LED light source imported from USA with original packaging
- High-performance lithium ion rechargeable battery provided with drive circuit of 6-level linear dimming mode (rather than PWM dimming mode), without strobe or noise for eyesight protection and keeping quiet at night
- Super highlight: 2.5h; Highlight: 8h; Normal light: 100h
- Self-defense blasting flash: 10h; Framing signal: 34h; SOS distress signal: 20h
- Integrated solid cylinder ensuring water resistance and preventing accidental removing
- Operated with one standard 18650 lithium ion battery or two standard CR123A disposable lithium batteries
- Fluorescent silica gel waterproof ring adopted at the front for searching at night
- Complying with IP67 waterproof standard
- High-light flashlight subjected to normal temperature rise due to high brightness and high calorific value
- Product service time based on test data obtained under initial performance and full charge of the battery at room temperature (20°C )

No.			
90738	-	6	2.3

▲ No warranty as consumables

## 90743 Multipurpose Rechargeable Flashlight 120lm

Classic model with universal nickel-metal hydride rechargeable batteries and AA alkaline batteries for high expansibility



- Suitable for industrial lighting, security patrol and camping expedition
- CREE XP-E2R3 high-power LED light source imported from USA with original packaging
- Equipped with high-performance rechargeable Ni-MH battery for operation for more than 4 hours after full charge
- Solid integrated flashlight body for water resistance and against accidental removing
- Drive circuit of linear dimming mode (rather than PWM dimming mode) for eyesight protection and keeping quiet at night without strobe or noise
- Operated with two standard AA batteries or two rechargeable Ni-MH batteries
- Fluorescent silica gel waterproof ring adopted at the front to facilitate search at night
- Complying with IP67 waterproof standard
- High-light flashlight subjected to normal temperature rise due to high brightness and high calorific value
- Product service time based on test data obtained under initial performance and full charge of the battery at room temperature (20°C )

No.			
90743	-	6	2.5

▲ No warranty as consumables

## 90745 Penlight 60lm

Portable with common alkaline battery



- Pen-shaped for easy operation
- CREE R2 high-power LED light source imported from America
- Reflective orange peel cup made of aluminum alloy for soft light
- Operated with two standard AAA batteries
- Dustproof and splashproof for safety
- High-light flashlight subjected to normal temperature rise due to high brightness and high calorific value

No.			
90745	-	12	14

▲ No warranty as consumables

## 90746 Mini Rechargeable Flashlight 280lm

Just a little longer than a cigarette with high brightness and various functions



- Light: Optimal 18650 rechargeable flashlight
- Highlight: CREE series high-power LED imported from the USA with original packaging
- Long service time: Illumination time up to 100 hours
- Intelligence: HDD 6-level (3+3) linear LED drive circuit with hidden function
- Firmness: Aviation-grade aluminum alloy housing for long life and wear resistance
- Utility: Invertible with switch against unintended activation
- Benefits: Complimentary quality anti-slipping wrist rope
- High-light flashlight subjected to normal temperature rise due to high brightness and high calorific value
- Product service time based on test data obtained under initial performance and full charge of the battery at room temperature (20°C )

No.			
90746	-	6	1.6

▲ No warranty as consumables



## 90747 Zoomable Rechargeable Flashlight 480lm

Adjustable range with long range for point light source and short range for area light source



- Precision: New full-reflection optical focusing lens with precision optical focusing structure for free switch of irradiation range
- Highlight: CREE series high-power LED imported from the USA with original packaging
- Long service time: Illumination time up to 100 hours
- Intelligence: HDD 6-level (3+3) linear LED drive circuit with hidden function
- Firmness: Aviation-grade aluminum alloy housing for long life and wear resistance
- High-light flashlight subjected to normal temperature rise due to high brightness and high calorific value
- Product service time based on test data obtained under initial performance and full charge of the battery at room temperature (20°C )

No.			
90747	-	6	2

▲ No warranty as consumables

## 90749 Li-Ion Battery 2600mAh



- Suitable for 90738, 90746, 90747 and 90748 flashlights

No.	Spec.			
90749	Lithium battery imported with original package	12	96	5.8

▲ No warranty as consumables

## 90748 Long Throw Rechargeable Flashlight 460lm

Large light cup with strong long-range performance for outdoor polling

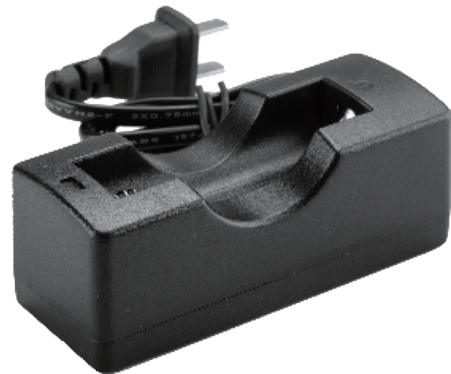


- Long range: 295m
- Highlight: CREE series high-power LED imported from the USA with original packaging
- Long service time: Illumination time up to 100 hours
- Intelligence: HDD 6-level (3+3) linear LED drive circuit with hidden function
- Firmness: Aviation-grade aluminum alloy housing for long life and wear resistance
- Utility: Invertible with switch against unintended activation
- Quality silicone tactical ring on the body for better grip
- Benefits: Complimentary quality anti-slipping wrist rope
- High-light flashlight subjected to normal temperature rise due to high brightness and high calorific value
- Product service time based on test data obtained under initial performance and full charge of the battery at room temperature (20°C )

No.			
90748	-	6	24

▲ No warranty as consumables

## 90750 18650 Li-Ion Battery Charger



- Suitable for 90738, 90746, 90747 and 90748 flashlights

No.	Spec.			
90750	Dedicated high-performance charger provided	-	12	1.7

▲ No warranty as consumables



## Aluminum Flashlight



- American Cree 3W LED light source adopted with brightness of up to 90LM
  - Single light intensity up to 12,000 MCD
  - Energy conservation compared with conventional xenon bulbs
  - Dustproof and splashproof for safety
  - Batteries not provided
  - Product performance subjected to occasional upgrade and improvement from SATA to meet various requirements and parameters subjected to those shown on the package
- Note: Do not tap the flashlight, and prevent it from dropping.

No.	Spec.	Light bulb specification			
90731A	1 AAA batteries	1LED	6	60	3.6
90732A	2 AA batteries	5LED	6	60	7.3
90734A	2 D batteries	24LED	6	36	14.5
90741A	3 AAA batteries	Cree LED 3W	6	36	7.1
90742A	3 D batteries	Cree LED 3W	6	24	11.2

▲ One-year warranty provided under normal use (excluding bulbs)

## 18-LED Li-Ion Waterproof Flashlight



- 18LEDs with high bright intensity
- 3.7V 1000mAh Li-ion battery
- The LED charging indicator is red on while charging and turns green when full charged
- Top with belt clip, back with strong magnetic base
- With 220V main charger and 12V car charger
- Dust&water proof design for outdoor use

No.	Spec.	L1(mm)	L2(mm)			
90704A	220V charger and 12V car charger included	57	210	-	6	3.7
90705A	220V charger included	57	210	-	6	3.4

▲ No warranty as consumables

## 18-LED Li-Ion Waterproof Flashlight



- 21LEDs at the front as working light, 5LEDs at the top as a torch
- 3.7V 1000mAh Li-ion battery
- The LED charging indicator is red on while connecting to the power
- 120° foldable with three-position to adjust the lighting
- Top with metal hook, bottom with strong magnetic base
- With 220V main charger and 12V car charger
- Dust&water proof design for outdoor use

No.	Spec.	L(mm)			
90706A	220V charger and 12V car charger included	220	-	6	3.8
90707A	220V charger included	220	-	6	3.6

▲ No warranty as consumables

## 90701A 18-LED Rechargeable Worklight



- 18 LEDs
- Environment friendly rechargeable lithium battery with a service life longer than NIMH battery
- Two 360-degree rotatable hooks, to facilitate hanging

### Note:

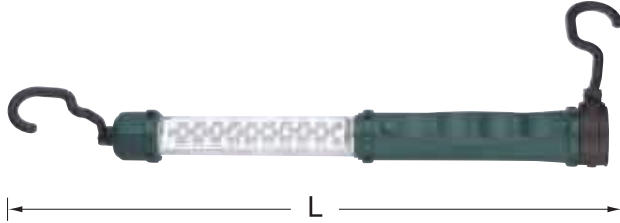
- The battery is not fully charged upon delivery. Before the first-time use, be sure to fully charge it. Please confirm that the LED light switch is off before charging
- 220V charging voltage, 50Hz power supply
- During charging, the red indicator on the charger stays on; after charging is completed, the green indicator comes on
- When the battery is too low, the blue indicator will come on, prompting you to charge the battery
- Fully charge the battery at least every 6 months to maintain its performance
- Only use the charger supplied with this product. Do not use other chargers to charge the product; otherwise it may damage the product and bring risks to personal safety

No.	L(mm)	Capacitance(mAH)	Weight(kg)			
90701A	255	1300	0.31	-	10	3.7

▲ No warranty as consumables



## 90702A 30-LED Rechargeable Worklight



- 30 LEDs
- Environment friendly rechargeable lithium battery with a service life longer than NiMH battery
- Two 360-degree rotatable hooks, to facilitate hanging

### Note:

- The battery is not fully charged upon delivery. Before the first-time use, be sure to fully charge it. Please confirm that the LED light switch is off before charging
- 220V charging voltage, 50Hz power supply
- During charging, the red indicator on the charger stays on; after charging is completed, the green indicator comes on
- When the battery is too low, the blue indicator will come on, prompting you to charge the battery
- Fully charge the battery at least every 6 months to maintain its performance
- Only use the charger supplied with this product. Do not use other chargers to charge the product; otherwise it may damage the product and bring risks to personal safety

No.	L(mm)	Capacitance(mAH)	Weight(kg)			
90702A	420	2000	0.6	-	10	8

▲ No warranty as consumables

## 90715 Portable Worklight

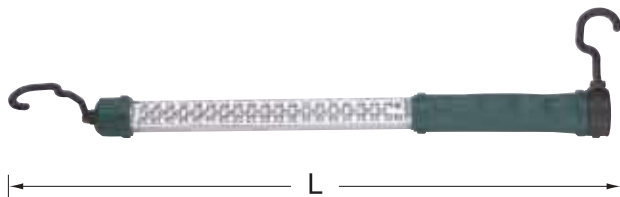


- Non-flammable ABS handle for comfort and safety
- 10m-long 3C-certificated power supply extension cord for safety
- Cymbiform switch for easy operation and safety
- Galvanized antirust metal lampshade facilitating bulb replacement
- Product performance subjected to occasional upgrade and improvement from SATA to meet various requirements and parameters subjected to those shown on the package

No.	L(mm)	Voltage(V)	Light bulb specifications(W)	Weight(kg)			
90715	350	220	60	0.9	-	10	12.4

▲ No warranty as consumables

## 90703A 60-LED Rechargeable Worklight



- 60 LEDs
- Environment friendly rechargeable lithium battery with a service life longer than NiMH battery
- Two 360-degree rotatable hooks, to facilitate hanging

### Note:

- The battery is not fully charged upon delivery. Before the first-time use, be sure to fully charge it. Please confirm that the LED light switch is off before charging
- 220V charging voltage, 50Hz power supply
- During charging, the red indicator on the charger stays on; after charging is completed, the green indicator comes on
- When the battery is too low, the blue indicator will come on, prompting you to charge the battery
- Fully charge the battery at least every 6 months to maintain its performance
- Only use the charger supplied with this product. Do not use other chargers to charge the product; otherwise it may damage the product and bring risks to personal safety

No.	L(mm)	Capacitance(mAH)	Weight(kg)			
90703A	500	2000	0.51	-	10	6.3

▲ No warranty as consumables

## 90709 Multipurpose Floodlight Headlamp



- Suitable for industrial lighting, security patrol and camping expedition
- Highlight LED light source, with brightness up to 35 LM
- Dustproof and splashproof for safety
- Operated with three AAA batteries for more than 5 hours
- Product performance subjected to occasional upgrade and improvement from SATA to meet various requirements and parameters subjected to those shown on the package

No.			
90709	-	12	2.3

▲ No warranty as consumables





## 90903 Portable aluminum alloy headlamp 140LM



- Aircraft-grade aluminum alloy housing
- Weighing only 118 grams for handiness, firmness and durability
- 2600mAh lithium battery
- Dual charging mode
  - \*Direct charge battery compartment
  - \*Taking battery out for charging
- Luminophor: American CREE high-power LED
- LED drive circuit:
  - Linear constant current drive, without strobe or noise
  - Six-gear (3+3) hidden dimming output with memory function
  - \*Three lighting modes: high, medium and low
- Maximum output: 140 lumens & 8 hours (high mode)
- Operating light endurance: no less than 26 hours
- Max. endurance: 120 h
  - \*Three hidden flashing modes: sharp-flash, positioning and SOS
- Drop resistance level: 1m; Waterproof grade: IP67; Waterproof immersion level: 1m
- Standard configuration
  - Light, angle-adjustable and direct charge headlamp X1
  - 18650 lithium-ion rechargeable battery X1
  - Smart charger for lithium-ion battery with  $\varnothing$  3.5 port X1\*

No.	Continuous lighting time(h)	Irradiation distance(m)	Light intensity(CD)	Falling distance(m)	Lumen(LM)	Waterproofing grade			
90903	8 (high) / 120 (low)	70	1225	1	140/50/10	IP67	-	6	24

▲ Warranty of 12 months (excluding the battery)

## 90710 Multipurpose Spotlight Headlamp



- Suitable for industrial lighting, security patrol and camping expedition
- American CREE-1W highlight LED light source with brightness up to 70LM
- Irradiation range over 50m
- Dustproof and splashproof for safety
- Operated with three AAA batteries for more than 5 hours
- Product performance subjected to occasional upgrade and improvement from SATA to meet various requirements and parameters subjected to those shown on the package

No.			
90710	-	12	2.3

▲ No warranty as consumables

## 90708A Portable Li-Ion Spotlight



- Upgraded light source and brightness
- Upgraded charging base not compatible with old model
- Upgraded battery and capacity



- High quality LED illumination
- High power LED, for a wide range and long distance lighting
- Strong lighting: 600LM
- Save lighting: 300LM
- Easy to use and carry
- Double switches design
- Three steps lighting: strong lightingsave lightingand flashing function
- Fluorescence straps
- Adjustable bracket
- Special charger base
- Dust&water proof
- Easy to charge
- Charged with special charger base for 4-7hours
- Full capacity
- 3.7v 6000mAh LF ion battery for 3 6hrs lighting

No.	Capacitance			
90708A	Lithium battery 6000 MAH	-	4	5.8

▲ No warranty as consumables



**90765 Waterproof Floodlight 1100lm****IP67**

- IP67
- High-power floodlighting
- Working duration: 3-9 hours



Charging via USB



180° rotated lamp holder



Ultra-portable



Detachable magnet

No.	Brightness	LxWxH(mm)	Charging time	Operating time	Battery Specification			
90765	1100/450 lm	196x189x44	3-3.5h	3h (high) /9h (low)	2600mAh 11.1V	-	8	10

▲ Excluded from lifetime warranty terms

**90766 Waterproof Floodlight 2200lm****IP65**

- IP65 rated product
- High-power floodlighting
- Remote control switch



Remote control switch



180° rotated lamp holder



Ultra-portable



Detachable magnet

No.	Brightness	LxWxH(mm)	Charging time	Operating time	Battery Specification			
90766	2200/700 lm	226x216x63	4.5-5h	4h (high) /6.5h (low)	6000mAh 7.2V	-	6	8

▲ Excluded from lifetime warranty terms

## Waterproof Extension Worklight

IP54



90717

90718

90719



90720

90721

90722



90723

90724



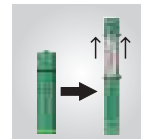
Overhead lighting



Invisible hook at the bottom



Magnetic hook (90726 to be purchased separately)



Telescopic type



Battery capacity indication



Overhead lighting



180° adjustable support



360° belt buckle design



Battery capacity indication



90725 Charging Base (for 90722 only)



Overhead lighting



Fully foldable



Invisible hook at the bottom



Battery capacity indication

- Quality lighting  
Overhead: 70 lm  
Front: 300/130 lm
- Constant current  
Consistent and even brightness with wide irradiation range
- Rugged case  
1m-dropping protection
- Hands-free  
Hidden hook

- Convenient to use  
Fully telescopic
- 5V2A adapter
- 2.5-hour charging
- High efficiency  
2600 mAh lithium battery
- Highlight lasting for 3 hours
- Lowlight lasting for 7 hours

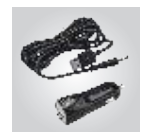
No.	Product Name	LxWxH(mm)	Continuous Lighting Time (h)	Full Charging Time (h)	Capacitance (MAH)	Lumens (top) LM	Lumens (front) LM			
90717	Waterproof Extension Worklight	201×44×41.5	3/7	2.5	2600	70	300/130	-	24	9.2
90718	Waterproof Extension Worklight	236×44×41.5	3/6	4.5	5200	70	500/250	-	24	11.3
90719	Waterproof Extension Worklight	301×44×41.5	4/6	4.5	7800	70	750/350	-	24	14
90720	Waterproof Extension Worklight	181×24.5×24	2.5-3	1	750	60	100	18	36	5.2
90721	Waterproof Extension Worklight	178×50×34.5	3	2.5	2200	60	200	-	40	12.7
90722	Waterproof Extension Worklight	200×60×38	3	2.5	2600	60	300	-	32	12.5
90723	Waterproof Extension Worklight	150×38×38	3/5	2.5	2600	70	300/150	-	48	13.7
90724	Waterproof Extension Worklight	190×42×42	3.5/7	3.5	5000	70	500/250	-	40	16.9
90725	5V/1.3A Lithium Charging Base (for 90722, Without Wires)									
90726	2pc Magnetic Hook Set (for Retractable Triangular Lamps)									
90727	Car Charger (Applicable to All Series of Triangular Lamps)									
90728	5V/ 1A Charging Adapter (for 90720)									
90729	5V/ 2A Charging Adapter									



90725



90726



90727



90728



90729

▲ Excluded from lifetime warranty terms

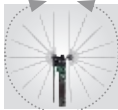
## 90736 3-in-1 Quick Change Flashlight



\* This product does not include a charger plug

### Zoom lamp holder

- 3.320 lm
- Condensation: 140m
- Operating time: 2h



### Zoom lamp hose holder

- Zoom
- 180 lm
- Operating time: 5.5h



### COB Thin Lamp

- 350 lm
- Foldable in 360°
- Operating time: 1.5h



- Quick-change light holder
- Three kinds of light holders for multiple applications Conventional long-range zoom light COB high-intensity short-beam work light, flexible tube zoom light fully folded for easy carrying, satisfying narrow-area applications
- Constant current
- USB charging interface
- Strong magnetic base
- IP rating: IP54
- Providing battery power indicator, convenient to check the status of battery

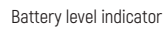
### Operation instructions:

- Before using it for the first time, charge it for at least 8h.
- When the charging indicator comes on in red, the charging begins; when it turns to green, the charging is completed.
- Switch cycle: Low - High - OFF
- Remove the battery from the product, which will not be used for a long time. It is recommended to fully charge the battery once every 30 days.
- Always use a power adapter with an output of 5V 1A or 5V 2A to charge the product.
- Red switch light indicates the battery level is lower than 10% and reminds of battery charging.

No.			
90736	-	10	9.5

▲ Excluded from lifetime warranty terms

## 90767 Multipurpose Spotlight/Floodlight



Battery level indicator



Front: warm-color floodlight



USB output



Long beam distance front spotlight

- Top 500 lumens/500 m long beam distance spotlight
- 800-lumen warm-color floodlight in the front, warning via red lighting
- Multi-stage stepless dimming with arbitrary brightness settings
- USB charging port for external device
- Li-ion rechargeable battery can constantly supply power for 16 hours

No.	L×W×H	Continuous time (h) Front end	Continuous time (h) Front	Lumen (LM) Front end	Lumen (LM) Front			
90767	232×104×116	16 (high)/ 6 (low)	8 (high )/ 3.5 (low )	500/ 250	800/ 400	-	6	7

▲ Excluded from lifetime warranty terms

## 90716 Li-Ion Waterproof Headlamp



- COB LED adopted for floodlight illumination, with maximum brightness up to 150 lumens
- Three-level switch (weak/strong/flicker) with working time of 4-12 hours
- IP54 dustproof and splashproof for outdoor operation
- Helmet clasp and USB universal charging cable available
- Constant current for little brightness change from full power to no power

No.			
90716	6	24	6

▲ Warranty of 1 year, excluding USB cable and battery



## 03710 13Pc. Electronic Tool Set



- 1Pc. Outer-Heated Soldering Iron 30W
  - 1Pc. Soldering Iron Bracket
  - 1Pc. Pocket Pack Soldering Wire 1.0mm/17g
  - 1Pc. Plastic Desoldering Pump
  - 1Pc. Fine Pointed Tips Tweezers 125mm
  - 1Pc. Electricians Scissors 138mm
  - 1Pc. Circuit Tester 145mm
  - 1Pc. Mini Long Nose Pliers 5.5"
  - 1Pc. Mini Diagonal Pliers 5"
  - 1Pc. Screwdriver, Slotted 3.2x75mm
  - 1Pc. Screwdriver, Slotted 5x75mm
  - 1Pc. Screwdriver, Phillips #0x75mm
  - 1Pc. Screwdriver, Phillips #1x75mm
  - Special designed for electronic engineers and technicians
  - Adding the anti-freezing component to avoid split in winter and offering a comfortable touch feeling
  - Adding the reinforced lining to avoid deformation when used
- Note: please protect the tool bag from water to avoid damaging bag

No.			
03710	4	16	15.9

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set

## 03720 22Pc. Electronic Tool Set



- 1Pc. Outer-Heated Soldering Iron 30W
  - 1Pc. Soldering Iron Bracket
  - 1Pc. Pocket Pack Soldering Wire 1.0mm/17g
  - 1Pc. Plastic Desoldering Pump
  - 1Pc. Fine Pointed Tips Tweezers 125mm
  - 1Pc. ESD Nylon Toothbrush-Shaped Brush
  - 1Pc. ESD Wrist Strap
  - 1Pc. Digital Circuit Tester
  - 1Pc. Zinc Alloy Snap-Off Knife, 13-Point, 9x80mm
  - 1Pc. ESD Wire Stripper 5", 0.8-2.6mm
  - 1Pc. Mini Long Nose Pliers 5.5"
  - 1Pc. Mini Diagonal Pliers 5"
  - 2Pc. Precision Screwdriver, Slotted (1x40, 2x50mm)
  - 2Pc. Precision Screwdriver, Phillips (#000x40, #00x50mm)
  - 3Pc. Screwdriver, Slotted (3.2x75, 5x75, 6x100mm)
  - 3Pc. Screwdriver, Phillips (#0x75, #1x75, #2x100mm)
  - Special designed for electronic engineers and technicians
  - Adding the anti-freezing component to avoid split in winter and offering a comfortable touch feeling
  - Adding the reinforced lining to avoid deformation when used
- Note: please protect the tool bag from water to avoid damaging bag

No.			
03720	4	16	26.7

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set

## 03750 9Pc. Electronic Tool Set



- 1Pc. Electronic Long Nose Pliers 5"
  - 1Pc. Electronic Cutting Pliers 5"
  - 1Pc. Wire Stripper with Cutter 6"
  - 1Pc. Electricians Scissors 138mm
  - 1Pc. Digital Circuit Tester
  - 1Pc. Electricians Insulated Tape
  - 1Pc. Fine Pointed Tips Tweezers 125mm
  - 1Pc. Screwdriver, Slotted 5x75mm
  - 1Pc. Screwdriver, Phillips #1x75mm
  - Special designed for electronic engineers and technicians
  - Adding the anti-freezing component to avoid split in winter and offering a comfortable touch feeling
  - Adding the reinforced lining to avoid deformation when used
- Note: please protect the tool bag from water to avoid damaging bag

No.			
03750	-	12	9

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set

## 03760 28Pc. Electronic Tool Set



- 1Pc. Outer-Heated Soldering Iron 30W
  - 1Pc. Soldering Iron Bracket
  - 1Pc. Pocket Pack Soldering Wire 1.0mm/17g
  - 1Pc. ESD Wrist Strap
  - 1Pc. Plastic Desoldering Pump
  - 1Pc. Fine Pointed Tips Tweezers 125mm
  - 1Pc. ESD Nylon Toothbrush-Shaped Brush
  - 1Pc. Digital Circuit Tester
  - 1Pc. Electricians Scissors 138mm
  - 1Pc. Multipurpose Wire Stripper 8"
  - 1Pc. Electronic Long Nose Pliers 5"
  - 1Pc. Electronic Cutting Pliers 5"
  - 1Pc. Adjustable Wrench 6"
  - 8Pc. Folding Hex Key Set (1.5, 2.2, 2.5, 3, 4, 5, 6, 8mm)
  - 3Pc. Screwdriver, Slotted (6x38, 3.2x75, 5x100mm)
  - 3Pc. Screwdriver, Phillips (#2x38, #0x75, #1x100mm)
  - 1Pc. Tape Measure 3m x 16mm
  - Special designed for electricians and electronic technicians to repair electric and electronic appliance
  - Adding the anti-freezing components into bag fabric to avoid split in winter and offering a comfortable touch feeling
  - Adding the reinforced lining of bag to avoid deformation when used
- Note: please protect the tool bag from water to avoid damaging bag

No.			
03760	-	6	12.2

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set





### 03790 21Pc. Electricians Tool Set



- 1Pc. Mini Digital Multimeter
  - 1Pc. Circuit Tester 145mm
  - 1Pc. Electricians Insulated Tape
  - 1Pc. Adjustable Wrench 6"
  - 7Pc. Ball Point Hex Key Set
  - 1Pc. Combination Pliers 6"
  - 1Pc. Long Nose Pliers 6"
  - 1Pc. Diagonal Pliers 6"
  - 2Pc. Screwdriver, Slotted (3.2x75,6x100mm)
  - 2Pc. Screwdriver, Phillips (#0x75,#2x100mm)
  - 1Pc. Plastic Snap-Off Knife, 8-Point, 18x100mm
  - 1Pc. Tape Measure 3mx16mm
  - 1Pc. Aluminum Flashlight, 2-Cell AA
  - Special designed for electricians and electronic technicians to repair electric and electronic appliance
  - Adding the anti-freezing components into bag fabric to avoid split in winter and offering a comfortable touch feeling
  - Adding the reinforced lining of bag to avoid deformation when used
- Note: please protect the tool bag from water to avoid damaging bag

No.			
03790	1	6	13.5

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set

### 03780 25Pc. Electricians Tool Set



- 1Pc. Outer-Heated Soldering Iron 30W
  - 1Pc. Soldering Iron Bracket
  - 1Pc. Pocket Pack Soldering Wire 1.0mm/17g
  - 1Pc. Aluminum Desoldering Pump
  - 1Pc. Fine Pointed Tips Tweezers 125mm
  - 1Pc. Digital Circuit Tester
  - 1Pc. Wire Stripper with Cutter 7"
  - 1Pc. Electricians Insulated Tape
  - 1Pc. 1/4" Dr. Spinner Handle
  - 1Pc. 1/4" Dr. 6Pt. Socket 5mm
  - 1Pc. 1/4" Dr. 6Pt. Socket 6mm
  - 1Pc. Adjustable Wrench 6"
  - 1Pc. Combination Pliers 6"
  - 1Pc. Long Nose Pliers 6"
  - 1Pc. Diagonal Pliers 5"
  - 6Pc. 6-in-1 Interchangeable Screwdriver Set
  - 1Pc. Hickory Claw Hammer 0.5Lb.
  - 1Pc. Flat Second Cut File 6"
  - 1Pc. Round Second Cut File 6"
  - 1Pc. Aluminum Flashlight, 2-Cell AA
  - Special designed for electricians and electronic technicians to repair electric and electronic appliance
  - Adding the anti-freezing components into bag fabric to avoid split in winter and offering a comfortable touch feeling
  - Adding the reinforced lining of bag to avoid deformation when used
- Note: please protect the tool bag from water to avoid damaging bag

No.			
03780	-	6	14.6

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set

### 03795 32Pc. Electricians Tool Set



- 1Pc. Mini Digital Multimeter
  - 1Pc. Digital Circuit Tester
  - 1Pc. Wire Stripper with Cutter 7"
  - 1Pc. Electricians Insulated Tape
  - 1Pc. Outer-Heated Soldering Iron 40W
  - 1Pc. Soldering Iron Bracket
  - 1Pc. Pocket Pack Soldering Wire 1.0mm/17g
  - 1Pc. Aluminum Desoldering Pump
  - 1Pc. Adjustable Wrench 8"
  - 9Pc. Long Arm Ball Point Hex Key Set (1.5,2,2.5,3,4,5,6,8,10mm)
  - 1Pc. Combination Pliers 7"
  - 1Pc. Long Nose Pliers 6"
  - 1Pc. Diagonal Pliers 6"
  - 3Pc. Screwdriver, Slotted (3x75,5x100,6x150mm)
  - 3Pc. Screwdriver, Phillips (#0x75,#1x100,#2x150mm)
  - 1Pc. Hickory Claw Hammer 0.5 Lb.
  - 1Pc. Mini Hacksaw 6"
  - 1Pc. Plastic Snap-Off Knife, 8-Point, 18x100mm
  - 1Pc. Tape Measure 5mx19mm
  - 1Pc. Aluminum Flashlight 3-Cell AAA
  - Special designed for electricians and electronic technicians to repair electric and electronic appliance
  - Adding the anti-freezing components into bag fabric to avoid split in winter and offering a comfortable touch feeling
  - Adding the reinforced lining of bag to avoid deformation when used
- Note: please protect the tool bag from water to avoid damaging bag

No.			
03795	1	4	18

▲ No warranty for the tool bag, please comply with the warranty terms of each open stock product in the set

### 09535 56Pc. Telecom Tool Set



- 1Pc. Multimeter
- 1Pc. Digital Circuit Tester
- 1Pc. Wire Stripper with Cutter 7"
- 1Pc. Electricians Knife, Straight Blade 70mm
- 1Pc. Electricians Insulated Tape
- 1Pc. Outer-Heated Soldering Iron 30W
- 1Pc. Soldering Iron Bracket
- 1Pc. Pocket Pack Soldering Wire 1.0mm/17g
- 1Pc. Plastic Desoldering Pump
- 1Pc. Aluminum Flashlight 1-Cell AAA
- 1Pc. Combination Pliers 7"
- 1Pc. Long Nose Pliers 6"
- 1Pc. Diagonal Pliers 6"
- 11Pc. 1/4r.6pt. Socket (4,5,5.5,6,7,8,9,10,11,12,13mm)
- 1Pc. 1/4" Dr. Bit Driver
- 1Pc. 1/4" Hex Shank Socket Holder, 25mm Length
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Slotted (4,5,5.6mm)
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Phillips (#1,#2,#3)
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Tamper-Proof Torx (TT10, TT15,TT20)
- 1Pc. Adjustable Wrench 8"
- 9Pc. Long Arm Ball Point Hex Key Set (1.5,2,2.5,3,4,5,6,8,10mm)
- 2Pc. Screwdriver, Slotted (5x150,6x150mm)
- 2Pc. Screwdriver, Phillips (#1x75, #2x150mm)
- 3Pc. Precision Screwdriver, Slotted (2x75,3x100,4x100mm)
- 3Pc. Precision Screwdriver, Phillips (#000x75,#0x100, #1x100mm)
- 1Pc. Tape Measure 3mx16mm

No.			
09535	-	2	9.9

▲ Please comply with the warranty terms for each open stock product in the set





## 09536 61Pc. Telecom Tool Set



- 1Pc. Mini Multimeter
- 1Pc. Digital Circuit Tester
- 1Pc. Wire Stripper With Cutter 7"
- 1Pc. Electricians Insulated Tape
- 1Pc. Outer-Heated Soldering Iron 30w
- 1Pc. Soldering Iron Bracket
- 1Pc. Pocket Pack Soldering Wire 1.0mm/17g
- 1Pc. Plastic Desoldering Pump
- 1Pc. Fine Pointed Tips Tweezers 125mm
- 1Pc. Combination Pliers 8"
- 1Pc. Long Nose Pliers 6"
- 1Pc. Diagonal Pliers 6"
- 13Pc. 1/4" Dr. 6Pt. Socket (4,4.5,5.5,6,7,8,9,10,11,12,13,14mm)
- 1Pc. 1/4" Dr. Spinner Handle
- 1Pc. 1/4" Dr. Bit Adaptor 1/4" Fx1/4" Hexagon
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Slotted (4,5,5.6mm)
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Phillips (#1,#2,#3)
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Tamper-Proof Torx®(TT10,TT15,TT20)
- 1Pc. Fiberglass Handle Claw Hammer 0.5Lb.
- 1Pc. Adjustable Wrench 6"
- 9Pc. Long Arm Ball Point Hex Key Set (1.5,2.2,5,3,4,5,6,8,10mm)
- 3Pc. Screwdriver, Slotted (3.2x75,5x100,6x150mm)
- 3Pc. Screwdriver, Phillips (#0x75,#1x100,#2x150mm)
- 6Pc. Precision Screwdriver Set, Slotted & Phillips
- 1Pc. Plastic Snap-off Knife, 8-Point, 18x100mm
- 1Pc. Tape Measure 3mx16mm
- Special designed for telecommunication industry, used for telecommunication equipment installation and repair

No.			
09536	-	2	21

▲ Please comply with the warranty terms for each open stock product in the set

## Circuit Tester



- Measurement range no more than 500VAC
- Shank made of quality Cr-V steel with hard heat treatment for durability
- Made to CE standard for safety
- Portable 62501 provided with electroplated test holder made of highly elastic steel
- Not used as screwdriver

No.	L(mm)			
62501	145 (with pen holder)	24	480	12
62502	190	24	72	3.1

▲ Warranty of electrical parts of one year under normal use

## 62601 Digital Circuit Tester



- Convenient and economical, and capable of operation with no batteries
- Elegant and multi-purpose
- LCD display with the straightforward reading
- Induction testing available for induction breakpoints, wire breaking points, microwave radiation and leakage detection, etc
- Direct or indirect measurement of 12, 36, 55, 110, 220V AC/DC current for wide application

### Note:

- It cannot be used to test the 380V power supply.
- Do not use it as screwdriver.

No.	L(mm)			
62601	130	24	144	5.3

▲ No warranty as consumables

## 62602 Digital Circuit Tester



Non-contact circuit induction test   Blue clear display   Contact voltage test   LED Light   Wire continuity test

- Available for detection of AC and DC voltage, and segmented LCD display (display max. reference value)
  - Test range: DC 12/36/55V, AC 70~250V
  - Available for checking on/off states of circuits, distinguishing zero wire and phase wire, finding break-point, and detecting battery level
  - With non-contact induction test function, available for detecting automobile high voltage branch wires
  - With LED lighting, blue display design, facilitating test in a dark environment
- Warning: Before conducting test, first do self-inspection for the test pen, and test a known circuit with the inspected pen. If the test fails, please replace the battery. If the pen still does not work, please contact the dealer

No.	L(mm)			
62602	140	10	120	7.9

▲ No warranty as consumables



## Ratcheting Cable Cutter



- Used for cutting copper and aluminum cables and armoured cables
- Not used for stranded steel wires, stranded steel-conductor aluminium wires and steel wire ropes
- Two-stage driver for labor-saving cutting
- Special linkage type feeding mechanism allows for faster feeding and higher cutting efficiency
- lightweight, compact structure, easy to carry

No.	Spec.	L(mm)	Max. Cutting Diameter (mm)			
72511	240mm <sup>2</sup>	245	36	3	6	4.9
72512	400mm <sup>2</sup>	320	52	3	6	6.6

▲ No warranty as consumables

## 03109 Electricians Knife, Straight Blade 70mm



◀ After folding

- It is made of special hard steel containing manganese and thus boasts good toughness
- The blade hardness is greater than 52HRC (Rockwell hardness), achieving high durability and strong cutting power
- The handle is made of imported rosewood, achieving aesthetic appearance and comfortable operation

### Note

- Please keep the blade clean and dry after operation.
- Keep blade away from saline environments to prevent rusting
- Please preserve the product with antirust paint before putting it into a long-term stoppage
- This product is uninsulated and thus shall never be operated with power on, for fear of an accident
- The handle is made of wood and thus shall never be knocked with force, for fear of cracking

No.			
03109	20	40	6

▲ No warranty as consumables

## 03110 Electricians Knife, Curved Blade 70mm



◀ After folding

- It is made of special hard steel containing manganese and thus boasts good toughness
- The blade hardness is greater than 52HRC (Rockwell hardness), achieving high durability and strong cutting power
- The handle is made of imported rosewood, achieving aesthetic appearance and comfortable operation

### Note

- Please keep the blade clean and dry after operation
- Keep blade away from saline environments to prevent rusting
- Please preserve the product with antirust paint before putting it into a long-term stoppage
- This product is uninsulated and thus shall never be operated with power on, for fear of an accident
- The handle is made of wood and thus shall never be knocked with force, for fear of cracking

No.			
03110	20	40	5.9

▲ No warranty as consumables

## 03131 Electricians Scissors



- Made of stainless steel with hardness up to HRC52-56
- Serrated blade for antislip when operating
- Cutting capacity: 13-16AWG
- Overall length 138mm, blade length 42mm

No.			
03131	12	48	6.1

▲ No warranty as consumables



### 03141 6Pc. Precision Screwdriver Set, Slotted & Phillips Tips



PH00	+	+
PH0	+	+
PH1	+	+
1.6mm	○	○
2mm	○	○
2.4mm	○	○

- All screwdriver bits made of CrVMo through special heat treatment, ensuring high hardness and toughness. Hardness above 52HRC (Rockwell hardness)
- Precisely designed and manufactured chunk capable of locking the required bits safely
- Screwdriver rod made of professional aviation aluminum, featuring high strength, light weight and high corrosion resistance; miniature bits stored inside the screwdriver rod
- Screwdriver with holder made of high quality manganese steel and treated by fine polishing and electroplating, easy to carry
- Stylish lightweight pen-type design, being your good helper in household use

No.	Spec.			
03141	Phillips: PH00,PH0,PH1 Slotted: 1.6mm,2mm,2.4mm	-	20	1.2

### 03142 6Pc. Precision Screwdriver Set, Phillips & Torx® Tips



T5	+	+
T6	+	+
T7	+	+
T8	+	+
PH00	+	+
PH0	+	+

- All screwdriver bits made of CrVMo through special heat treatment, ensuring high hardness and toughness. Hardness above 52HRC (Rockwell hardness)
- Precisely designed and manufactured chunk capable of locking the required bits safely
- Screwdriver rod made of professional aviation aluminum, featuring high strength, light weight and high corrosion resistance; miniature bits stored inside the screwdriver rod
- Screwdriver with holder made of high quality manganese steel and treated by fine polishing and electroplating, easy to carry
- Stylish lightweight pen-type design, being your good helper in household use

No.	Spec.			
03142	Torx: T5,T6,T7,T8 Phillips: PH00,PH0	-	10	0.6

### 09311 6Pc. Precision Screwdriver Set, Slotted Tips



- Applicable to the main+V15tenance and repairof TV, clock & watch, computer, glasses, communication equipment, optical instrument, VCR, telephone, toy & model, camera, and various precision instruments and equipment
- The rod is made of importer SVCM+alloy steel, and has been subject to precision machining and heat treatment, achieving best torque and hardness. The cutting tip is blackened
- Unique rotary screw cap design, easy to use and labor saving

No.	Spec.			
09311	Slotted: 1.0X40,1.4X50,2.0X50,2.4X50,3.0X50,3.5X50mm	6	24	10.1

### 09312 6Pc. Precision Screwdriver Set, Slotted & Phillips Tips



- Applicable to the main+V15tenance and repairof TV, clock & watch, computer, glasses, communication equipment, optical instrument, VCR, telephone, toy & model, camera, and various precision instruments and equipment
- The rod is made of importer SVCM+alloy steel, and has been subject to precision machining and heat treatment, achieving best torque and hardness. The cutting tip is blackened
- Unique rotary screw cap design, easy to use and labor saving

No.	Spec.			
09312	Slotted: 14X50,2.0X50,2.4X50,3.0X50 Phillips: PH0X50,PH00X50	6	24	10.4

### 09313 6Pc. Precision Screwdriver Set, Torx® Tips



- Applicable to the main+V15tenance and repairof TV, clock & watch, computer, glasses, communication equipment, optical instrument, VCR, telephone, toy & model, camera, and various precision instruments and equipment
- The rod is made of importer SVCM+alloy steel, and has been subject to precision machining and heat treatment, achieving best torque and hardness. The cutting tip is blackened
- Unique rotary screw cap design, easy to use and labor saving

No.	Spec.			
09313	Torx: T6X50,T7X50,T8X50,T9X50,T10X50,T15X50	6	24	10.3



### 09314 7Pc. Precision Screwdriver Set, Slotted & Phillips Tips



- Applicable to the main+V151tenance and repairof TV, clock & watch, computer, glasses, communication equipment, optical instrument, VCR, telephone, toy & model, camera, and various precision instruments and equipment
- The rod is made of importer SVC+alloy steel, and has been subject to precision machining and heat treatment, achieving best torque and hardness. The cutting tip is blackened
- Unique rotary screw cap design, easy to use and labor saving

No.	Spec.			
09314	Slotted : 1.4X50,2.0X50,2.4X50,3.0X50 Phillips : PH0X50,PH00X50,PH000X40	6	24	10.7

### 09317 15Pc. Precision Screwdriver Set



- Applicable to the main+V151tenance and repairof TV, clock & watch, computer, glasses, communication equipment, optical instrument, VCR, telephone, toy & model, camera, and various precision instruments and equipment
- The rod is made of importer SVC+alloy steel, and has been subject to precision machining and heat treatment, achieving best torque and hardness. The cutting tip is blackened
- Unique rotary screw cap design, easy to use and labor saving

No.	Spec.			
09317	Slotted : 1.0X40,2.0X50,3.0X50,3.5X50 Phillips : PH0X50,PH00X50,PH000X40 Hex : 1.5X50,2.0X50,2.5X50,3.0X50 Torx : T6X50,T8X50,T10X50,T15X50	5	12	7.1

### 09315 7Pc. Precision Screwdriver Set, Torx® Tips



- Applicable to the main+V151tenance and repairof TV, clock & watch, computer, glasses, communication equipment, optical instrument, VCR, telephone, toy & model, camera, and various precision instruments and equipment
- The rod is made of importer SVC+alloy steel, and has been subject to precision machining and heat treatment, achieving best torque and hardness. The cutting tip is blackened
- Unique rotary screw cap design, easy to use and labor saving

No.	Spec.			
09315	Torx: T5X50,T6X50,T7X50,T8X50,T9X50,T10X50,T15X50mm	6	24	10.8

### Precision Screwdriver, Slotted



- Suitable for maintenance and repair of TV, clock, computer, glasses, communication instrument, optical instrument, video recorder, telephone, toy model, camera and all kinds of precision instrument and equipment
- Imported SVC+ shank with heat treatment
- Matte-electroplated shank surface with phosphated and blackened tip for accuracy
- Rotary turncap adopted

No.	Spec. (mm)			
62802	1.0x40	12	432	8
62803	1.2x40	12	432	7.8
62804	1.4x50	12	432	8
62805	1.6x50	12	432	8
62806	1.8x50	12	432	8
62807	2.0x50	12	432	8
62808	2.0x75	12	432	8.7
62809	2.4x50	12	432	9.5
62810	2.4x75	12	432	10.2
62811	3.0x50	12	432	8.5
62813	3.0x75	12	432	9.3
62816	3.0x100	12	432	10.3
62817	3.5x50	12	432	11
62821	4.0x100	12	432	8
62822	4.0x150	12	288	10.9

### 09316 9Pc. Precision Screwdriver Set, Slotted & Phillips Tips









- Applicable to the main+V151tenance and repairof TV, clock & watch, computer, glasses, communication equipment, optical instrument, VCR, telephone, toy & model, camera, and various precision instruments and equipment
- The rod is made of importer SVC+alloy steel, and has been subject to precision machining and heat treatment, achieving best torque and hardness. The cutting tip is blackened
- Unique rotary screw cap design, easy to use and labor saving

No.	Spec.			
09316	Slotted : 1.0X40,2.0X50,2.4X75,3.0X75,4X100 Phillips : PH0X75,PH1X100,PH00X75,PH000X40	6	12	6.2






## Miniature Screwdriver Description

- Phillips:   
PH0 × 40mm  
→ Shank length 40MM  
→ The groove number of the Phillips screwdriver corresponding to the bit is PH0
- Phillips:   
PH0-2 × 40mm  
→ Shank length 40MM  
→ The groove number of the Phillips screwdriver corresponding to the bit is PH0-2
- Slotted:   
1.0 × 40mm  
→ Shank length 40MM  
→ Screwdriver bit width 1.0MM
- Torx®:   
T5 × 40mm  
→ Shank length 40MM  
→ The groove number of the Torx® screwdriver corresponding to the bit is T8
- Hex Key:   
1.3 × 46mm  
→ Shank length 46MM  
→ Hex key edge-to-edge size 1.3MM
- Ball End Hex Key:   
1.3 × 46mm  
→ Shank length 46MM  
→ Representative hex key edge-to-edge size 1.3MM

## Precision Screwdriver, Torx®






- Suitable for maintenance and repair of TV, clock, computer, glasses, communication instrument, optical instrument, video recorder, telephone, toy model, camera and all kinds of precision instrument and equipment
- Imported SVCN+ shank with heat treatment
- Matte-electroplated shank surface with phosphated and blackened tip for accuracy
- Rotary turncap adopted

No.	Spec. (mm)			
63012	T3x40	12	432	7.9
63013	T4x40	12	432	7.9
63001	T5x50	12	432	8
63002	T6x50	12	432	8.9
63003	T7x50	12	432	8.7
63004	T8x50	12	432	9.3
63005	T9x50	12	432	9.5
63008	T9x60	12	432	9.4
63006	T10x50	12	432	9.3
63007	T15x50	12	432	10.3
63009	T10x60	12	432	9.8
63010	T15x60	12	432	10.7
63011	T20x60	12	432	11.7

## Precision Screwdriver, Phillips






- Suitable for maintenance and repair of TV, clock, computer, glasses, communication instrument, optical instrument, video recorder, telephone, toy model, camera and all kinds of precision instrument and equipment
- Imported SVCN+ shank with heat treatment
- Matte-electroplated shank surface with phosphated and blackened tip for accuracy
- Rotary turncap adopted

No.	Spec. (mm)			
62903	#000x40	12	432	7.4
62907	#000x75	12	432	8.7
62904	#00x50	12	432	9.3
62908	#00x75	12	432	9.3
62905	#0x50	12	432	9.4
62910	#0x75	12	432	10.2
62911	#0x100	12	432	11
62906	#1x50	12	432	10
62915	#1x100	12	432	12.4
62916	#1x150	12	288	9.7

## Precision Screwdriver, Hexagon



- Suitable for maintenance and repair of TV, clock, computer, glasses, communication instrument, optical instrument, video recorder, telephone, toy model, camera and all kinds of precision instrument and equipment
- Imported SVCN+ shank with heat treatment
- Matte-electroplated shank surface with phosphated and blackened tip for accuracy
- Rotary turncap adopted

No.	Spec. (mm)			
63101	0.67x40	12	432	7.8
63102	0.9x40	12	432	7.9
63103	1.3x50	12	432	8.1
63104	1.5x50	12	432	8.1
63105	2.0x50	12	432	6.5
63106	2.5x50	12	432	9.4
63112	2.5x75	12	432	10.3
63107	3.0x50	12	432	10.4
63113	3.0x75	12	432	11.4



## Precision Screwdriver, Ball Point, Hexagon



- Suitable for maintenance and repair of TV, clock, computer, glasses, communication instrument, optical instrument, video recorder, telephone, toy model, camera and all kinds of precision instrument and equipment
- Imported SVCM+ shank with heat treatment
- Matte-electroplated shank surface with phosphated and blackened tip for accuracy
- Rotary turncap adopted

No.	Spec. (mm)			
63201	1.3x50	12	432	8.1
63202	1.5x50	12	432	8.9
63207	2.0x50	12	432	8.8
63210	2.5x75	12	432	10.3
63211	3.0x75	12	432	11.3

## 03371 ESD Nylon Toothbrush-Shaped Brush



- It is applicable to dust-free plant or laboratory in industries including electronics, communications, semiconductor and optics.
- This product can withstand normal cleaning agents such as gasoline, alcohol, acetone and Freon, without damage to appearance and performance.
- Performance parameters:
- Surface resistance of brush holder:  $<106\Omega$
- Surface resistance of bristle:  $<109\Omega$

### Size/Specifications:

- Brush length  $\times$  width: 175mm  $\times$  12mm
- Brush head length  $\times$  width: 40mm  $\times$  12mm
- Bristle height: 18mm
- Arrangement of bristle: 8 holes/row  $\times$  2

No.			
03371	10	160	6.2

No warranty as consumables

## 03372 ESD Nylon U-Shaped Brush



- It is applicable to dust-free plant or laboratory in industries including electronics, communications, semiconductor and optics.
- This product can withstand normal cleaning agents such as gasoline, alcohol, acetone and Freon, without damage to appearance and performance.
- Performance parameters:
- Surface resistance of brush holder:  $<106\Omega$
- Surface resistance of bristle:  $<109\Omega$

### Size/Specifications:

- Brush length  $\times$  width: 115mm  $\times$  55mm
- Brush head length  $\times$  width: 95mm  $\times$  45mm
- Bristle height: 25mm
- Arrangement of bristle: 14 holes/row  $\times$  2

No.			
03372	10	80	12.2

No warranty as consumables

## 03310 ESD Wrist Strap



- The wrist strap may be optionally stretchable to 2.5M
- The wrist strap applies unique knitted mesh structure which ensures uniform load distribution and good resistance to deformation and no-clean
- Safe, reliable, able to discharge static within 0.1 s
- Allowing for safe operation in a clean room

No.			
03310	-	18	14

No warranty as consumables

## 03311 ESD Liquid Dispenser Bottle 60ml



- Applicable to electronic manufacturers and various laboratories
- Stainless steel resistant to strong corrosive solvents
- Stainless steel pump with unique mechanical structure and bottle body made from high-density polyethylene material for holding various solvents
- Capable of holding various cleaning agents, oil remover, rosin cleaning agents, ethanol, pure alcohol, methanol acetone and water-based solution
- Anti-static design for operation safety in electrostatic protection environment
- Pump head of each alcohol bottle sealed with plastic film before delivery for internal cleanliness
- Proper dosage obtained by gently pressing the pump head once to avoid solvent overflowing and dirt infiltration
- Pump head with a hinged stainless steel cover to prevent impurities from entering the bottle when not in use
- Precise pump head valve against solvent volatilization

No.			
03311	10	40	4.6

No warranty as consumables



## 62701 Digital Tire Pressure Gauge



- Light weight, compact structure, easy to use
- It can measure vehicle's tire pressure
- It can measure tire thread depth for safe driving
- Accuracy:  $\pm 0.1$  BAR
- Units: PSI, BAR
- Auto power off
- LCD backlight: Easy to read in low light environment

No.			
62701	10	40	64

▲ Exclude from lifetime warranty terms.

## 62702 Touchless Voltage Detector



- Safe, reliable non-contact AC voltage detection, it can quickly detect whether the object under test is charged or not

### Adjustable sensitivity design:

- When set to high sensitivity, it ensures the test under low voltage and avoids the danger of missing judgment.
- Set to low sensitivity to improve the accuracy of adjacent lines
- Auditory and visual cues, easy to use
- Measurement range: 12V-1000V
- Frequency range: 50Hz/60Hz
- Meet CAT IV 1000V

No.			
62702	15	60	6.3

▲ Exclude from lifetime warranty terms.

## 03101 Fine Pointed Tips Tweezers 125mm



- Made of high-grade stainless steel with acid resistance and diamagnetism
- Fine tips for components in different sizes
- Moderate hardness of working tips, providing excellent performance in operation
- Please choose the SATA industrial electric tweezers with a specification suitable for your application
- The tips of tweezers are sharp, thus please use them carefully
- Keep them out of the reach of children

No.	L(mm)			
03101	125	48	144	4.3

▲ No warranty as consumables

## 03102 Extra Pointed Tips Tweezers 135mm



- Made of high-grade stainless steel with acid resistance and diamagnetism
- Fine tips for components in different sizes
- Moderate hardness of working tips, providing excellent performance in operation
- Please choose the SATA industrial electric tweezers with a specification suitable for your application
- The tips of tweezers are sharp, thus please use them carefully
- Keep them out of the reach of children

No.	L(mm)			
03102	135	24	144	4.4

▲ No warranty as consumables

## 03103 Extra Pointed Tips Tweezers 115mm



- Made of high-grade stainless steel with acid resistance and diamagnetism
- Fine tips for components in different sizes
- Moderate hardness of working tips, providing excellent performance in operation
- Please choose the SATA industrial electric tweezers with a specification suitable for your application
- The tips of tweezers are sharp, thus please use them carefully
- Keep them out of the reach of children

No.	L(mm)			
03103	115	12	144	4.2

▲ No warranty as consumables

## 03104 Flat Round Tips Tweezers 120mm



- Made of high-grade stainless steel with acid resistance and diamagnetism
- Fine tips for components in different sizes
- Moderate hardness of working tips, providing excellent performance in operation
- Please choose the SATA industrial electric tweezers with a specification suitable for your application
- The tips of tweezers are sharp, thus please use them carefully
- Keep them out of the reach of children

No.	L(mm)			
03104	120	24	144	4.5

▲ No warranty as consumables



### 03105 Pointed Tips Tweezers 115mm



- Made of high-grade stainless steel with acid resistance and diamagnetism
- Fine tips for components in different sizes
- Moderate hardness of working tips, providing excellent performance in operation
- Please choose the SATA industrial electric tweezers with a specification suitable for your application
- The tips of tweezers are sharp, thus please use them carefully
- Keep them out of the reach of children

No.	L(mm)			
03105	115	12	144	4.3

▲ No warranty as consumables

### 03152 Flat Round Tips Tweezers, Serrated Grips 175mm



- Made of high-grade stainless steel with acid resistance and diamagnetism
- Fine tips for components in different sizes
- Moderate hardness of working tips, providing excellent performance in operation
- Please choose the SATA industrial electric tweezers with a specification suitable for your application
- The tips of tweezers are sharp, thus please use them carefully
- Keep them out of the reach of children

No.	L(mm)			
03152	175	12	144	8.7

▲ No warranty as consumables

### 03106 Curved Pointed Tips Tweezers 118mm



- Made of high-grade stainless steel with acid resistance and diamagnetism
- Fine tips for components in different sizes
- Moderate hardness of working tips, providing excellent performance in operation
- Please choose the SATA industrial electric tweezers with a specification suitable for your application
- The tips of tweezers are sharp, thus please use them carefully
- Keep them out of the reach of children

No.	L(mm)			
03106	118	24	144	4.5

▲ No warranty as consumables

### 03153 Curved Pointed Tips Tweezers, Serrated Grips 175mm



- Made of high-grade stainless steel with acid resistance and diamagnetism
- Fine tips for components in different sizes
- Moderate hardness of working tips, providing excellent performance in operation
- Please choose the SATA industrial electric tweezers with a specification suitable for your application
- The tips of tweezers are sharp, thus please use them carefully
- Keep them out of the reach of children

No.	L(mm)			
03153	170	12	144	8.5

▲ No warranty as consumables

### 03151 Fine Pointed Tips Tweezers, Serrated Grips 175mm

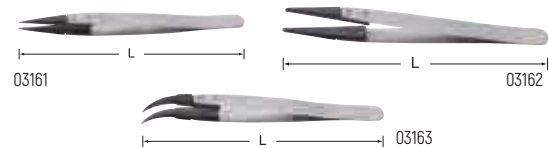


- Made of high-grade stainless steel with acid resistance and diamagnetism
- Fine tips for components in different sizes
- Moderate hardness of working tips, providing excellent performance in operation
- Please choose the SATA industrial electric tweezers with a specification suitable for your application
- The tips of tweezers are sharp, thus please use them carefully
- Keep them out of the reach of children

No.	L(mm)			
03151	175	12	144	8.4

▲ No warranty as consumables

### ESD Fine Pointed Tips Tweezers 130mm



- Made of high-grade stainless steel with acid resistance and diamagnetism
- Fine tips for components in different sizes
- Moderate hardness of working tips, providing excellent performance in operation
- Please choose the SATA industrial electric tweezers with a specification suitable for your application
- The tips of tweezers are sharp, thus please use them carefully
- Keep them out of the reach of children

No.	Product Name	L(mm)			
03161	ESD Fine Pointed Tips Tweezers 130mm	130	12	144	4.8
03162	ESD Flat Round Tips Tweezers 130mm	130	12	144	4.8
03163	ESD Curved Pointed Tips Tweezers 130mm	130	12	144	4.8




▲ No warranty as consumables






### 03108 IC Chip Extractor



- Component positioning terminal: for easy and correct adjustment of the position of pins of surface-mounted components on the soldering pad or gold finger
- Curved needle: for adjustment of pins of mounted components such as IC and PLCC
- Hook: for hooking out pins and leads of components
- Fork: for fixation and adjustment of pins or connecting lines of components
- Awl: for cleaning or enlargement of the hole of the soldering pad
- Scraper: for removal of residual sold and welding flux as well as oxide layer on the soldering pad or gold finger
- Knife: for cutting copper-clad connecting lines on printed circuit boards
- Brush: for removal of dust and residues from the welded part before welding

No.			
03120	12	216	18.9




- A universal integrated circuit (IC) puller quickly separates components from the circuit board
- Specification of integrated circuit that can be pulled: 8-pin to 24-pin

No.			
03108	12	480	16.7

### 03107 PLCC Chip Extractor




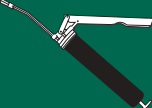







- Gently squeeze the puller handle to separate PLCC components from the socket safely and reliably
- Spring-assisted pulling structure, and one hand operation for convenience and fastness
- Sizes of PLCC that can be pulled: 20-pin to 84-pin

No.			
Q3107	12	360	15.8

282

# Auto Repair Tool

	Tube Coiler	<b>284</b>
	Cable Reel	<b>284</b>
	Universal Auto Repair Set	<b>285-286</b>
	Lubricating Equipment and Tools	<b>287-289</b>
	Tyre Repair Tools	<b>289-298</b>
	Engine Repair Tools	<b>291-295</b>
	Chassis Repair Tools	<b>295-297</b>
	Autobody Repair Tools	<b>297-299</b>
	Electric Appliance Repair Tools	<b>300</b>



# Auto Repair Tool

## Air Hose Reel



- Aluminum alloy valve core
- Imported seals
- High quality PU pipe for temperatures from -20-60° C

No.	Spec.			
98001	PU Tube, ID 6MM, Length 10m	-	1	4.2
98002	PU Tube, ID 6MM, Length 15m	-	1	4.8

▲ 1-year warranty for overall unit, 6-month warranty for air hoses and seals

## Air Hose Reel



- Shaft, sleeve and hose joint are made of high quality brass
- Air hose is made of imported polyether TPU, which is resistant to hydrolysis

No.	Air Hose Spec (mm)	Output Hose Length (m)	Inlet Plug Spec (PM)	Outlet Coupler Spec (RC)			
98003	Ø6.5×10	10	20	1/4"	-	4	4.2
98004	Ø6.5×10	15	20	1/4"	-	4	4.7
98005	Ø8×12	10	30	3/8"	-	4	5.3

▲ Equipment warranty of 12 months

## 3-Core Cable Reel



- Equipped with a temperature protection device
- High quality three-conductor wire, resistant to oil and for a wide temperature range of -20° C to 60° C

No.	Spec. m			
98021	3-Core Wire, 1.5MM <sup>2</sup> , 10m	-	1	4.2
98022	3-Core Wire, 1.5MM <sup>2</sup> , 15m	-	1	4.8

▲ 1-year warranty for overall unit, 6-month warranty for air hoses and seals

## 3-Core Cable Reel



- Shaft, sleeve are made of high quality brass
- Cable rubber is made of special synthetic, soft and well tensile strength

No.	Cable Core Spec (mm <sup>2</sup> )	Output Cable Length (m)	Rated Voltage (V)	Rated Current (A)			
98025	1.5	10	220	6	-	4	5
98026	1.5	15	220	6	-	4	6.1

▲ Equipment warranty of 12 months

## 3-Core Cable Reel with Worklight



- Equipped with a temperature protection device
- High quality three-conductor wire, resistant to oil and for a wide temperature range of -20° C to 60° C
- IP54 LED work light

No.	Spec. m			
98023	3-Core Wire, 1.5mm <sup>2</sup> , 10m	-	1	6.1
98024	3-Core Wire, 1.5mm <sup>2</sup> , 15m	-	1	6.8

▲ 1-year warranty for overall unit, 6-month warranty for air hoses and seals



## 09014A 128Pc. 1/4"x3/8"x1/2" Dr. Mechanics Tool Set



- 11Pc. 1/4" Dr. 6pt. Socket (4,5,6,7,8,9,10,11,12,13,14mm)
- 5Pc. 1/4" Dr. 6Pt. Deep Socket (8,9,10,11,12mm)
- 1Pc. 1/4" Dr. Quick Release Ratchet 5"
- 1Pc. 1/4" Dr. Extension Bar 2"
- 1Pc. 1/4" Dr. Universal Joint
- 1Pc. 1/4" Dr. Spinner Handle
- 1Pc. 1/4" Dr. Bit Adaptor 1/4"x1/4" Hexagon
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Slotted (4,5,6,5mm)
- 2Pc. 1/4" Hex Shank Bits, 25mm Length, Phillips (#1,#3)
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Pozidriv (#1,#2)
- 4Pc. 1/4" Hex Shank Bits, 25mm Length, Hexagon (3,4,5,6mm)
- 7Pc. 1/4" Hex Shank Bits, 25mm Length, Tamper-Proof Torx@ (TT10,TT15, T20,TT25, TT27, T30,TT40)
- 11Pc. 3/8" Dr. 6pt. Socket (9,10,11,12,13,14,15,16,17,18,19mm)
- 7Pc. 3/8" Dr. 6Pt. Deep Socket (13,14,15,16,18,19mm)
- 8Pc. 3/8" Dr. Torx@ Socket (E8,E10,E11,E12,E14,E16,E18,E20)
- 2Pc. 3/8" Dr. Spark Plug Socket (16,21mm)
- 2Pc. 3/8" Dr. Bit Socket, Slotted (5,5,6,5mm)
- 4Pc. 3/8" Dr. Bit Socket, Phillips (#1,#2)x2pc
- 4Pc. 3/8" Dr. Bit Socket, Hexagon (3,4,5,6mm)
- 3Pc. 3/8" Dr. Bit Socket, Torxe (T20, T30,T40)
- 4Pc. 3/8" Dr. Bit Socket, 50mm Length, Tamper-Proof Torxe (TT45,TT50,TT55,TT60)
- 1Pc. 3/8" Dr. Quick Release Ratchet 8"
- 2Pc. 3/8"r. Extension Bar (3",6")
- 1Pc. 3/8" Dr. Universal Joint
- 1Pc. 3/8" Dr. Socket Adaptor 3/8"x1/4"M
- 1Pc. 3/8" Dr. Socket Adapter 3/8"x1/2"M
- 7Pc. 1/2" Dr.6pt. Socket (20,21,22,24,27,30,32mm)
- 1Pc. 1/2" Dr. Quick Release Ratchet 10"
- 2Pc. 1/2" Dr. Extension Bar (5",10")
- 1Pc. 1/2" Dr. Universal Joint
- 12Pc. Combination Wrench (8,9,10,11,12,13,14,15,16,17,18,19mm)
- 1Pc. X-Beam Combination Wrench 13mm
- 9Pc. Long Arm Ball Point Hex Key Set (1,5,2,2,5,3,4,5,6,8,10mm)
- 1Pc. Go-Through Screwdriver, Slotted 6x100mm
- 1Pc. Go-Through Screwdriver, Phillips #2x100mm
- 1Pc. Universal 3-Jaw Oil Filter Wrench 63-102mm
- 1Pc. Bit Socket for Engine Cover Screws
- 1Pc. Automotive Circuit Tester 6V/12V/24V

## 09508 49Pc. Mechanics Tool Set



- 11Pc. 1/2" Dr. 6pt. Socket (8,10,12,17,18,19,20,21,22,24,27mm)
- 2Pc. 1/2" Dr. Spark Plug Socket (16,21mm)
- 1Pc. 1/2" Dr. Bit Socket, 50mm Length, Hexagon 17mm
- 1Pc. 1/2" Dr. Bit Socket, 70mm Length, Hexagon 6mm
- 1Pc. 1/2" Dr. Bit Socket, 100mm Length, Hexagon 7mm
- 1Pc. 1/2" Dr. Bit Socket, 120mm Length, Hexagon 8mm
- 2Pc. 1/2" Dr. Bit Socket, 140mm Length, Hexagon (6,10mm)
- 1Pc. 1/2" Dr. Bit Socket, 100mm Length, Triple Square M8
- 1Pc. 1/2" Dr. Bit Socket, 100mm Length, Triple Square M10
- 1Pc. 1/2" Dr. Bit Socket, 100mm Length, Triple Square M12
- 1Pc. 1/2" Dr. Quick Release Ratchet 10"
- 1Pc. 1/2" Dr. L-Shaped Wrench 10"
- 2Pc. 1/2" Dr. Extension Bar (5,10")
- 1Pc. 1/2" Dr. Sliding T-Handle 10"
- 1Pc. 1/2" Dr. Universal Joint
- 8Pc. Combination Wrench (8, 10,13, 17,19,22mm)
- 9Pc. Extra Long Ball Point Hex Key Set (1,5,2,2,5,3,4,5,6,8,10mm)
- 1Pc. Go-Through Screwdriver, Slotted 6x100mm
- 1Pc. Go-Through Screwdriver, Phillips #2x100mm
- 1Pc. Front Shock Absorber Socket
- 1Pc. Shock Absorber Removal Socket
- 1Pc. Universal 3-Jaw Oil Filter Wrench 63-102mm
- 1Pc. Automotive Multimeter

No.			
09014A	-	2	21.7

▲ Please comply with the warranty terms for each open stock product in the set

No.			
09508	-	2	18.1

▲ Please comply with the warranty terms for each open stock product in the set



### 09509 59Pc. Mechanics Tool Set



- 15Pc. 3/8" Dr. 6pt. Socket (7,8,10,11,12,13,14,15,16,17,18,19,21,22,24mm)
- 2Pc. 3/8" Dr. Spark Plug Socket (16,21mm)
- 1Pc. 3/8" Dr. Quick Release Ratchet 8"
- 2Pc. 3/8" Dr. Extension Bar (3",10")
- 1Pc. 3/8" Dr. Universal Joint
- 1Pc. 3/8" Dr. Socket Adaptor 3/8"Fx1/ 4"M
- 1Pc. 1/4" Dr. Socket Adaptor 1/4"Fx3/8"M
- 1Pc. 1/2" Dr. 3-Way Socket Adaptor
- 1Pc. 1/4" Dr. Spinner Handle
- 1Pc. 1/4" Dr. Bit Adaptor 1/4"Fx1/"Hexagon
- 3Pc. 1/4" Hex Shank Bits, 25mm Length, Slotted (4,5,6,5mm)
- 2Pc. 1/4" Hex Shank Bits, 25mm Length, Phillips (#1,#3)
- 4Pc. 1/4" Hex Shank Bits, 25mm Length, Hexagon (3,4,5,6mm)
- 11Pc. Combination Wrench (8,10,12,13,14,15,16,17,18,19,22mm)
- 9Pc. Long Arm Tamper-Proof Torx® Key Set (TT10, TT15,TT20, T25,TT27, 30, TT40, TT45, TT50)
- 1Pc. Go-Through Screwdriver, Slotted 6x100mm
- 1Pc. Go-Through Screwdriver, Phillips #2x100mm
- 1Pc. Long Nose Pliers 6"
- 1Pc. Slip Joint Pliers 8"

No.			
09509	-	3	21.7

▲ Please comply with the warranty terms for each open stock product in the set

### 09518 80Pc. 1/4"x1/2" Dr. Mechanics Tool Set



- 7Pc. 1/4" Dr. 6Pt. Socket (7, 8, 9, 10, 11, 12, 13mm)
- 3Pc. 1/4" Dr. Bit Socket, Slotted (4, 5.5, 6.5mm)
- 2Pc. 1/4" Dr. Bit Socket, Phillips (#1, #2)
- 2Pc. 1/4" Dr. Bit Socket, Pozidriv (#1, #2)
- 4Pc. 1/4" Dr. Bit Socket, Hexagon (3, 4, 5, 6mm)
- 7Pc. 1/4" Dr. Bit Socket, Torx® (T8, T10, T15, T20, T25, T30, T40)
- 1Pc. 1/4" Dr. Quick Release Ratchet 5"
- 2Pc. 1/4" Dr. Extension Bar (2", 4")
- 1Pc. 1/4" Dr. Sliding T-Handle 4"
- 1Pc. 1/4" Dr. Universal Joint
- 1Pc. 1/4" Dr. Flexible Extension Bar 6"
- 1Pc. 3/8" Dr. 3-Way Socket Adaptor (3/8" Fx1/2" M)
- 13Pc. 1/2" 6Pt. Socket (8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24mm)
- 2Pc. 1/2" Dr. Spark Plug Socket (16, 21mm)
- 1Pc. 1/2" Dr. Quick Release Ratchet 10"
- 2Pc. 1/2" Dr. Extension Bar (5", 10")
- 1Pc. 1/2" Dr. Universal Joint
- 1Pc. 1/4" Dr. Spinner Handle
- 1Pc. 1/2" Bit Holder (5/16" Dr.)
- 3Pc. 5/16" 30mm-long Slotted Bit (8, 10, 12mm)
- 2Pc. 5/16" 30mm-long Phillips Bit (#3, #4)
- 2Pc. 5/16" 30mm-long Pozidriv Bit (#3, #4)
- 4Pc. 5/16" 30mm-long 6Pt. Bit (8, 10, 12, 14mm))
- 4Pc. 5/16" 30mm-long Torx® Bit (T40, T45, T 50, T55)
- 12Pc. combination wrench set (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm)

No.			
09518	-	2	12.7

▲ Please comply with the warranty terms for each open stock product in the set



## 09531 3Pc. L-Shaped Lug Wrench Set



- 1pc 1/2" Dr. L-Shaped Lug wrench
- 2pc 1/2" Double End Socket (17×19, 21×23mm)
- Cr-V material forged sockets
- Extension type wrench in length from 340mm to 550mm

No.			
09531	-	10	12

## 97202 Grease Gun 400cc



- Engineering machine
- Agriculture equipments
- Automobiles
- 2 applicable greases: 14oz standard barrel packed grease; 400CC bulk grease
- Pressure zinc alloy die cast head
- Heat-treated spring ensures constant and balanced pressure during filling
- Unique self-locking device making filling safe and convenient
- Nozzle with special design added a steel ball, preventing the grease from returning
- Highest pressure for the grease gun: 10000 PSI (300 KGF/CM2)

No.	Working pressure (PSI)	Burst pressure (PSI)	Oil pump capacity			
97202	4500	10000	1 oz./40 compressions	-	12	17.3

▲ No warranty as consumables

## 97201 Pistol Grip Grease Gun 100cc



- Engineering machine
- Agriculture equipments
- Automobiles
- 2 applicable greases: 3 oz standard barrel packed grease; 100 CC bulk grease
- Pressure zinc alloy die cast head
- Heat-treated spring ensures constant and balanced pressure during filling
- Unique self-locking device making filling safe and convenient
- Nozzle with special design added a steel ball, preventing the grease from returning
- Highest pressure for the grease gun: 4500 PSI (300 KGF/CM2)

No.	Working pressure (PSI)	Burst pressure (PSI)	Oil pump capacity			
97201	2900	4000	0.5 oz./40 compressions	-	12	9.1

▲ No warranty as consumables

## 97203 Plastic Handle Grease Gun 400cc



- Engineering machine
- Agriculture equipments
- Automobiles
- 3 applicable grease: 14oz standard barrel packed grease; grease in sealed tank; 400CC bulk grease
- Pressure Zinc alloy die cast head, designed with easy-to-handle plastic handle
- Heat-treated spring ensures constant and balanced pressure during filling
- Unique self-locking device making filling safe and convenient
- Nozzle with special design added a steel ball, preventing the grease from returning
- Highest pressure for the gease gun: 10000PSI (700 KGF/CM2)

No.	Working pressure (PSI)	Burst pressure (PSI)	Oil pump capacity			
97203	4500	10000	1 oz./40 compressions	-	12	18.4

▲ No warranty as consumables





## 97204A Quick Release Grease Gun 600cc



- Engineering machine
- Agriculture equipments
- Automobiles
- For #0-#3 grease only
- New "flared" exhaust nozzle design ensures better exhaust effect and reduces empty bleeding
- Add an anti-impurity filter screen to prevent impurities from entering the grease pipeline and causing block-age during filling of bulk grease
- Lightweight aluminum tip and extended handle design makes the product more labor-saving and more portable
- Equipped with grease gun hose and tip nozzle to meet the grease filling requirements of small space or multiple nozzles

No.	Working pressure (PSI)	Burst pressure (PSI)	Oil pump capacity			
97204A	7000	10000	1.2Oz/40 compressions [36cc/40 compressions]	-	10	18

▲ No warranty as consumables

## 97204 Heavy Duty Grease Gun 600cc



- High strength cast iron grease nozzle for industrial applications
- Equipped with a hose and nozzle for special needs
- 3-way loading: 14 oz cartridge, filler pump or 600CC bulk
- Application: excavators, loaders, graders, rollers, spreaders and cranes and other mechanical equipment
- Suitable for #0-#3 butters only

No.	Working pressure (PSI)	Burst pressure (PSI)	Oil pump capacity			
97204	7000	10000	1 oz./40 compressions	-	10	19.5

▲ No warranty as consumables

## 97205 High Pressure Grease Gun 400cc



- High-low pressure switch, easy to operate
- Patented circulating air bleed valve, ensuring to discharge air in the gun cylinde, making the grease gun operate smootherly
- Patented large-small shaft design, lubricating through switching from high pressure to low pressure and vice versa. Firstly use high pressure to get through the grease passage instantly, to ensure smooth filling of grease; then switch to low pressure to fill in grease rapidly, thus increasing working efficiency
- Unique square thread, ensuring convenient assembly and disassembly of the nozzle and the gun cylinder, increasing airtightness
- Detachable rear cover for easy cleaning of the gun cylinder
- Heavy duty thickened handle, bearing higher operating forces

No.	Working pressure (PSI)	Burst pressure (PSI)	Oil pump capacity			
97205	Small core: 8000 Large core: 1000	Small core: 13000 Large core: 2000	Small core: 0.5OZ/40 compressions Large core: 3.5OZ/40 compressions	-	10	22.9

▲ No warranty as consumables

## 97206 Transparent Barrel Grease Gun 400cc



- Engineering machine
- Agriculture equipments
- Automobiles
- Aluminum alloy adapter, enable frequent open and close the nozzle to fill in grease, avoid direct connection between the cylinder and nozzle to increase durability
- Special transparent tube design, easy to observe the reseryed grease amount
- Self-locking rear cover is easy to be removed

No.	Working pressure (PSI)	Burst pressure (PSI)	Oil pump capacity			
97206	4500	7000	1 OZ/40 compressions	-	12	22.9

▲ No warranty as consumables



**97101 Tire Valve Extractor 320mm**

• For quick removing or installation of tire valve inserts

No.	L(mm)			
97101	320	12	60	19

**97213 Grease Gun Flexible Hose 18"**

• High pressure nylon hose, easy to be inserted into working area

No.	Spec.	L(mm)			
97213	18"	450	9	72	10

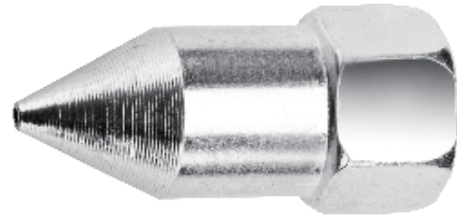
▲ No warranty as consumables

**97211 Grease Gun Coupler**

• Nozzle with special design added a steel ball, preventing the grease from returning

No.			
97211	18	72	3.3

▲ No warranty as consumables

**97216 Grease Gun Taper Nozzle**

• Nozzle Suitable for lubrication under special conditions

No.			
97216	10	80	1.8

▲ No warranty as consumables

**97212 Grease Gun Flexible Hose 12"**

• High pressure nylon hose, easy to be inserted into working area

No.	Spec.	L(mm)			
97212	12"	308	9	72	7.2

▲ No warranty as consumables

**Flat Beam Torque Wrench**

\*This product is not intended for use as an indicative torsion wrench



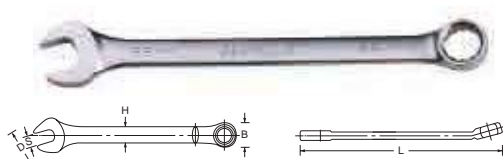
• The working tip and rod are made of Cr-V steel  
• Nickel plated surface, high antirust performance

No.	Spec. (N.m)	Driver			
48111	300	1/2"	-	12	12.2
48112	500	3/4"	-	12	19.4

▲ Excluded from lifetime warranty terms



## Combination Wrench



- Forged with quality Cr-V with high durability
- Electroplated matte surface with texture
- Suitable for auto maintenance

No.	Spec. (mm)	L(mm)	H(mm)	S(mm)	D(mm)	B(mm)			
40504	8	112	10.0	8.15	16.5	14.4	6	96	3.3
40505	9	123	10.0	9.15	18.2	16.3	6	96	3.8
40506	10	131	10.5	10.1	20.5	16.3	6	96	4.5
40507	11	147.6	11.8	11.1	22.6	17.8	6	36	2.3
40508	12	155	12.8	12.1	24.5	19.4	6	36	3
40509	13	164	13.0	13.1	26.7	21	6	36	3.5
40510	14	182	15.3	14.2	28.8	22.3	6	36	4.5
40511	15	192	15.5	15.2	30.8	23.7	6	36	5.2
40512	16	202	15.9	16.2	32.8	24.5	6	36	5.9
40513	17	223	16.7	17.2	35.1	27.8	6	36	7
40514	18	236	17.4	18.2	37	28.5	4	24	5.2
40515	19	245	17.8	19.2	39	29.6	6	36	8.9
40516	21	271	18.7	21.2	43	32	4	24	7.6
40517	22	296	18.7	22.2	45	34	4	24	8
40518	24	322	19.6	24.3	49	36	4	24	10.2

## Oil Filter Wrench



No.	Spec. (mm)			
97427	55-75	12	24	7.3
97428	75-95	12	24	8.4

▲ No warranty as consumables

## Cross Lug Wrench



- Cr-V material forged
- 3pc. Socket End (17, 19, 21mm) and 1pc. 1/2" Drive End

No.	Spec.			
48101	16"	-	12	16.4
48102	20"	-	12	20.8

▲ No warranty as consumables

## 97106 Round Point Finishing Hammer 260g



### Operating Instructions

- Capable of marking tire puncture and pulling out the debris
- Capable of finding out puncture direction via spiral needle and inserting it to remove debris
- Capable of repairing tire by inserting the rubber strip into the crochet needle by 2/3 in length along the hole, rotating 360° ,
- Pulling it out and cutting off the remaining rubber strip

No.			
97106	10	40	8.8

▲ No warranty as consumables

## 09412 Disc Brake Piston Tool Set



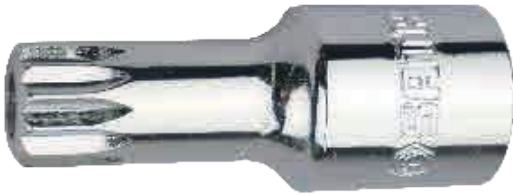
- Capable of replacing brake pad by adjusting brake pump
- Universal type
- Smooth thread with precision machining

No.			
09412	-	8	17.7

▲ Excluded from lifetime warranty terms



### 97631 1/2" Dr. Bit Socket for Oil Pan Screw M16



- Forged with Cr-Mo with chrome-plated surface and tamper at the function end
- Suitable for removing and assembling oil pan screws of German cars

No.	Spec.			
97631	M16	6	48	6.3

### 09003 5Pc. 3/8" Dr. Spark Plug Socket Set



- 3/8" Dr. Spark Plug Socket 16mm
- 3/8" Dr. Spark Plug Socket 21mm
- 3/8" Dr. Flex-Head Quick Release Ratchet
- 3/8" Dr. Extension Bar 6"
- 3/8" Dr. Locking Extension Bar 6"

No.			
09003	-	5	6.1

▲ Please comply with the warranty terms for each open stock product in the set

### 97635 1/2" Dr. Bit Socket for Oil Pan Screw H17



- Forged with Cr-V with chrome-plated surface
- Suitable for removing and assembling oil pan screws of German cars

No.	Spec.			
97635	H17	6	48	5

### 3/8" Dr. Spark Plug Socket

3/8"



No.	○ (mm)			
12915	16	6	-	-
12916	21	6	-	-

### 12925 3/8" Dr. 12Pt. Thin Wall Spark Plug Socket 14mm



- Forged with Cr-V with chrome-plated surface
- Rubber plug inserted for holding spark plug

No.	Spec. (mm)			
12925	14	6	48	3.6

### 1/2" Dr. Spark Plug Socket

1/2"



← L →

No.	○ (mm)			
13915	16	4	-	-
13916	21	4	-	-



## T-Handle Flex Spark Plug Socket



- Shank length: 450mm
- Magnetic sleeve
- Made of Cr-V with sandblasted electroplated surface
- Equipped with movable handle and suitable for ratchet wrench

No.	Spec.(mm)			
47801	16	10	30	15.8
47802	21	10	30	17.8

## 97422 Universal 3-Jaw Oil Filter Wrench 63-102mm



- 1/2" Drive size fit to used with 1/2" Dr. Ratchet

No.	Scope of application(mm)			
97422	63-102	-	24	8.5

## 09703 8Pc. End Cap Oil Filter Wrench



- 6Pc Oil Filter Wrench (65, 74, 76, 80, 90, 93 mm)
- 1pc 10 mm Quick-Release Ratchet
- 1pc 10 mm Adapter (3/8" F X1/2" M)
- \* Oil filter wrench used with 3/8"DR. or 1/2"DR. drive tool

No.			
09703	-	4	8.8

## End Cap Oil Filter Wrench



- Made from imported high-carbon tensile material
- Plates thickened and tempered by heat treatment
- Black electro-deposition coated finish for durability and corrosion resistance
- New model upgraded to 12.5mm (1/2") and applicable to 1/2" ratchet wrench for auto repair
- Tightly-fit adapter for firmness and anti-deformation

No.	Spec. (mm)			
97401	65	10	12	12.4
97403	74	-	12	3.1
97404	76	1	12	14.3
97405	80	-	12	15
97406	90	-	12	17
97407	93	-	12	16.3

## 97426 Adjustable Oil Filter Wrench Pliers 12"



- For removing oil filters from 63.5mm to 116mm in diameters
- Suitable for removing stubborn oil filters
- Two-clamp handle allows larger clamping power
- Plastisol coated handles provides a firm grip

No.			
97426	6	36	18.4

## 97441 1/2" Dr. Oil Filter Strap Wrench 18"



- Used for disassembling A/C pipe and oil pipe
- Applicable pipe diameters:
- 1/4"(6mm), 5/16"(8mm), 3/8"(9.5mm), 1/2"(12.7mm), 5/8"(16mm), 3/4"(19mm), 7/8"(22mm)

No.	Spec.			
97441	18"	12	72	12.8

## Piston Ring Compressor



- Made of high-strength spring steel with ratchet and locking device
- Working range:  
97501 53-175mm  
97502 60-175mm

No.	Spec.			
97501	3"	30	60	19.3
97502	4"	30	60	21.8

▲ No warranty as consumables

## 09406 3Pc. A/C & Fuel Line Spring Lock Coupling Tool Set



- Suitable for most Fords, GM and Mazda vehicles
- Suitable for Chrysler and Ford A/C circuit adapters
- Used for other purposes

No.			
09406	10	50	10.9

## 09411 7Pc. A/C & Fuel Line Disconnect Set



- Used for disassembling A/C pipe and oil pipe
- Applicable pipe diameters:  
• 1/4"(6mm), 5/16"(8mm), 3/8"(9.5mm), 1/2"(12.7mm), 5/8"(16mm), 3/4"(19mm), 7/8"(22mm)

No.			
09411	6	72	11.2

▲ No warranty as consumables

## 09706 12Pc. Transmission Repair Tool Set



### Contents

- Jaw and locking ring
- Bearing
- Mandrel
- Pulling device
- Thrust washer
- Quad4 drawing pin
- GM3.1 drawing pin
- Quad4 screw-shaped drawing pin
- Ford4.6 Modular screw-shaped drawing pin
- Drawing pins for other vehicle model
- GM.3.1 screw-shaped drawing pin
- Buckle-type head
- Used to remove and install power steering pulley on the alternator of most domestic cars

No.			
09706	-	18	16.5

▲ No warranty as consumables

## 09709 5Pc. Hook & Pick Set



- 5-piece set including an extended magnetic grip to be absorbed at places within easy reach
- Heat treated picks for improved durability
- Use picks to pull O-Rings, seals and cotter pins quickly and easily

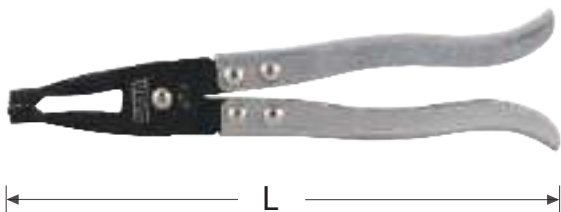
No.			
09709	20	200	9.7

▲ No warranty as consumables





## 97511 Valve Seal Removal Pliers 10"



- For removing or installation of valve stem seals and valve spring

No.	Spec. (mm)			
97511	250	6	48	20

## Bearing Separator



- Used to pull and remove bearings
- Made of Cr-Mo

No.	Spec. (mm)			
90657	30-50	1	25	17.5
90658	50-75	-	12	17.6

- ▲ No warranty as consumables

## 09712 37Pc. Bolt Grip Puller Set



- Including Heavy-duty 4-hole drawing choke, long jackscrew, short jackscrew, long terminal, and flat short terminal X3PCS
- Screws:  
[1/4"-28\*3"x2pc, 5/16"-18\*4-1/2"x3pc, 5/16"-24\*3-1/2"x2pc, 3/8"-16\*4" x3pc, 8mm 1.25\*65\*2pc, 8mm 1.25\*80\*3pc, 8mm 1.25\*40\*3pc, 10mm 1.5\*50\*3pc, 3/8"-16\*2\*3pc, 3/8"-24\*2\*3pc and 5/16"-18\*2\*3pc]
- Suitable for removing harmonic balancer, crank wheel and steering wheel
- Used for flywheel removing of electric engine with mechanical taphole or 2-stroke engine

No.			
09712	1	5	17.2

- ▲ No warranty as consumables

## 09410 Valve Spring Compressor Set



- For removing or installing valve springs
- The arch structure ensures coaxiality with the valve
- Connector size: 16mm, 19mm, 23mm, 25mm, 30mm
- Length of crimping thread: 70mm, 110mm, 120mm

No.			
09410	-	8	16.3

- ▲ No warranty as consumables

## 90664 Timing Belt Pulley Puller



- Used for removing crankshaft timing belt pulley
- Adjustable jaw opening from 40mm to 90mm to be compatible with most cars
- Claw of 100mm long and 22mm wide

No.			
90664	10	20	15.2

- ▲ No warranty as consumables

## 97512 Hose Gripper Pliers



- Aperture of 15mm with total length of 280mm and inclination angle of tooth surface jaw of 30°
- Used to disassemble round and oval parts
- Suitable for sparking plug removing and assembly

No.			
97512	6	36	11.9

- ▲ No warranty as consumables



## 97619 Bit Socket for Engine Cover Screws



• Used to disassemble and install screws of cylinder heads of Volkswagen's Jetta and Santana

No.	Spec.			
97619	T52	24	144	18.4

## Outer Tie Rod Romover



- For separating the ball joint from the steering knuckles
- Powerful center force screw for maximum torque
- Made of Cr-V with special heat treatment to withstand heavy duty work
- Reasonable shape for anti-slipping

No.	Spec.			
90661	Small Type	1	18	14.5
90662	Large Type	6	12	14

## 90651 Universal Ball Joint Separator



- For separating the ball joint from the steering knuckles
- Lengthened gasket for various applications
- Made of Cr-V with special heat treatment to withstand heavy duty work

No.	Spec.			
90651	Small Type	-	18	22.1

## 90652 Ball Joint Separator for European Vehicle



- Bolt subjected to heat treatment for durability
- For separating the ball joint from the spindle support arm in narrow spaces

No.	Spec.			
90652	Small Type	-	16	21.6

## 90654 Disc Brake Piston Separator



- Used for pressing back piston during brake pad installation
- Professional design
- Easy to use
- Fine thread for accurate stroke adjustment
- Made of special steel for high performance

No.			
90654	-	16	18.7

## 90653 Ball Joint Separator for Japannish Vehicle



For separating the ball joint from the spindle support arm for most cars and light trucks  
Working range: 30mm-56mm

No.			
90653	-	16	20.2



## 90663 Pitman Arm Puller



- Used to remove connecting rod arm
- Made of medium carbon steel
- Subjected to stamp forging and heat treatment
- Note: Please wear goggles. Do not use power tools.

No.			
90663	6	24	22.1

▲ No warranty as consumables

## 90665 Ball Joint Separator 12"



- Used to separate ball joint from steering knuckles
- Separating ball joint by inserting the tool in place and tapping to separate it with a hammer
- Forged to withstand hard usage

No.	Spec.			
90665	12"	6	24	19.3

## 90666 Ball Joint Separator 16"



- Powerful tool used to remove the ball joint of steering tie rod
- Separating ball joint by inserting the tool in place and tapping to separate it with a hammer
- Forged to withstand hard usage

No.	Spec.			
90666	16"	6	24	24.4

## Coil Spring Compressor



- Forged with quality carbon steel for high strength
- Works with 1/2" drive tools or with 21mm socket and wrench
- Reinforced screw thread design to ensure safety

No.	Spec. (mm)			
97701	270	-	8	14.9
97702	370	1	8	17.1

## 97102 Front Shock Absorber Removal Socket



- Used for disassembling and assembling front shock absorber of Santana cars
- Forged with Cr-V

No.	Application			
97102	Front shock absorber of Santana cars	6	36	13.1

## 97103 Rear Shock Absorber Removal Socket



- Used for disassembling and assembling front shock absorber of Santana cars
- Forged with Cr-V

No.	Application			
97103	Front shock absorber of Santana cars	12	36	16.8



## 97104 Shock Absorber Removal Socket



- Used for disassembling and assembling front shock absorber of Santana cars
- Forged with Cr-V

No.	Application			
97104	Shock absorber	24	48	3.1

## 09408 Auto Clips Removal Pliers



- Special rivet tongs for removing rivets holding the car door panel and other parts (for example, wheel covers)
- Suitable for removing plastic rivets for automobile bodies and industrial applications
- Used to selectively remove plastic rivet fastening systems
- Special flat nose pliers for pulling rivets without risk

No.			
09408	12	72	20.5

## 09413 Bearing Separator Set 30-75mm



- Remove the steering wheel bearing
- Remove the bearing
- Remove the crankshaft belt pulley

No.			
09413	-	3	15.7

No warranty as consumables

## 92101 Standard Bumping Hammer 320g



- Hammerhead forged with high milling steel and subjected to quenching for anti-breakage
- Miniature plane for uniform force on the tapping surface
- Special embedding technology adopted to avoid fall-off
- Hickory handle ensuring dryness, elasticity, firmness and fitness with octagonal shape

No.	Spec. (G)	L(mm)			
92101	320	330	6	36	17.3

## 09152 6Pc. Auto Body Repair Tool Set



- 1pc Anvil Dolly
- 1pc Wedge Dolly
- 1pc Pry Bumping Spoon
- 1pc Toe Dolly
- 1pc Light Shrinking Hammer
- 1pc Pick & Finishing Hammer of 260G

No.			
09152	-	2	14.6

## 92102 Heavy Duty Shrinking Hammer 390g



- Hammerhead forged with high milling steel and subjected to quenching for anti-breakage
- Miniature plane for uniform force on the tapping surface
- Special embedding technology adopted to avoid fall-off
- Hickory handle ensuring dryness, elasticity, firmness and fitness with octagonal shape

No.	Spec. (G)	L(mm)			
92102	390	330	6	36	17



### 92103 Curved Pein Finishing Hammer 350g



- Hammerhead forged with high milling steel and subjected to quenching for anti-breakage
- Miniature plane for uniform force on the tapping surface
- Special embedding technology adopted to avoid fall-off
- Hickory handle ensuring dryness, elasticity, firmness and fitness with octagonal shape

No.	Spec. (G)	L(mm)			
92103	305	330	6	36	16.1

### 92104 Light Duty Shrinking Hammer 320g



- Hammerhead forged with high milling steel and subjected to quenching for anti-breakage
- Miniature plane for uniform force on the tapping surface
- Special embedding technology adopted to avoid fall-off
- Hickory handle ensuring dryness, elasticity, firmness and fitness with octagonal shape

No.	Spec. (G)	L(mm)			
92104	320	330	6	36	174

### 92105 Straight Pein Finishing Hammer 305g



- Hammerhead forged with high milling steel and subjected to quenching for anti-breakage
- Miniature plane for uniform force on the tapping surface
- Special embedding technology adopted to avoid fall-off
- Hickory handle ensuring dryness, elasticity, firmness and fitness with octagonal shape

No.	Spec. (G)	L(mm)			
92105	305	330	6	36	16

### 92106 Round Point Finishing Hammer 260g



- Hammerhead forged with high milling steel and subjected to quenching for anti-breakage
- Miniature plane for uniform force on the tapping surface
- Special embedding technology adopted to avoid fall-off
- Hickory handle ensuring dryness, elasticity, firmness and fitness with octagonal shape

No.	Spec. (G)	L(mm)			
92106	260	330	6	36	15.5

### 92107 Wheel Weight Pliers



- Designed to remove and install wheel weights, allowing user to pinch, pry and hammer weights

No.			
92107	12	48	23

▲ No warranty as consumables

### 92203 Anvil Dolly



- Made of high carbon steel, forged and tempered, for strength and durability

No.	Spec.			
92203	Anvil Dolly	6	12	14.1





## 92205 Wedge Dolly



- Made of high carbon steel, forged and tempered, for strength and durability

No.	Spec.			
92205	Wedge Dolly	6	12	14.3

## 92207 Toe Dolly



- Made of high carbon steel, forged and tempered, for strength and durability

No.	Spec.			
92207	Pry Bumping Spoon	6	12	16.2

## 92209 Pry Bumping Spoon



- Made of high carbon steel, forged and tempered, for strength and durability

No.	Spec.			
92209	Toe Dolly	-	12	15.4

## 95201 Wood Handle Putty Scraper



- Heavy duty blade with ground edge for maximum strength
- Wood handle provides more comfort
- Capable of clearing dirt on engine cylinder surface and all kinds of metal surfaces

No.			
95201	6	120	174

- ▲ No warranty as consumables

## 97105 Rigid Scraper



- Used for surface cleaning for installing new gaskets
- Used for cleaning cylinder cover surface of the automatic temperature regulating pump, crankcase and timing chain before gasket installation

No.			
97105	12	72	15.3

- ▲ No warranty as consumables

## Air Blow Gun



97221



97222

- Working air pressure 5.0-8.0KGF/cm<sup>2</sup>
- Brass joint dimensions 1/4"NPT
- Gas flow
- 1/4"-inner-diameter air tube: 350L/min 3/8"-inner-diameter air tube: 430L/min
- Safety precautions
- Wear ear protection, eye protection, work gloves and other personal protective equipment for operation.

No.	Spec. (mm)			
97221	100	5	60	10.6
97222	250	5	50	12.6




- ▲ No warranty as consumables



**62503 Automotive Circuit Tester 6V/12V/24V**



- Used for detection of low voltage circuit faults in transportation machinery
- For use in automobiles, motorcycles, bulldozers, rollers and other transportation machinery maintenance/operations




No.	Voltage Measuring Range			
62503	6V-12V-24V	-	36	24

 No warranty as consumables

### 62504 Dual Purpose Automotive Circuit Tester



- Used to test 6V and 12V circuit voltage and spark plug discharge
- Testing by grounding the duckbill clip end, and inserting the probe end into the tested end
- Testing spark plug by unscrewing the probe and screwing it into the other end of the handle




No.			
62504	10	100	14.9

 No warranty as consumables

**97521 Multi-purpose Wire Stripper 8"**



- 7 features in one
- Clamp
- Insulated-terminal crimper
- End cutting nippers (0.75-6mm)
- Non-insulated-terminal crimper
- Wire cutters 7-8mm
- Terminal pliers for automobiles
- Bolt cutter M2.6-M5

No.			
97521	6	72	17.3

# Cordless Tool

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J-Series Li-Ion Tools

**302-306**



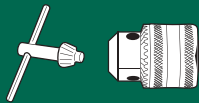
Li-Iony Impact Wrench

**307**



Li-Ion Dr. Ratchet

**308**



Electric Drill Chuck

**309-310**

# Cordless Tool

## 51075 J Series 18V Li-Ion Brushless Impact Wrench 1000N.m



Battery 51519



Charger 51505



- High efficiency brushless motor for quick work progress
- Max impact torque up to 1000N.m
- Three speed/ torque settings
- Slim handle with softgrip
- Integrated working light for illumination of the work area

\*This set includes two batteries and one charger

No.	Battery No.	Charger No.	Battery (AH)	Voltage (V)	Chuck Type	RPM 1/ Impact frequency 1	RPM 2/ Impact frequency 2	RPM 3/ Impact frequency 3	Maximum Torque(NM)	Standard Bolt	High-Strength Bolt	Charging time (MIN)	Unit Weight(kg)			
51075	51519	51505	4.0	18	1/2" Male	0-400/0-800	0-800/0-1600	0-1800/0-2200	1000	M14-M27	M16-M24	60	3.6	-	2	14.9

## 51090 J Series 18V Li-Ion Brushless Angle Grinder 5"



Battery 51519



Charger 51505



- High efficiency brushless motor for quick work progress
- Overload protection: protect the motor from over heating
- Deadman switch for high user protection
- Slim handle with softgrip
- Easy to remove dust mesh
- Electronic safety shutdown, reduces kickback if the disc stops unexpectedly
- Tool-free adjustable guard

\*This set includes two batteries and one charger

No.	Battery No.	Charger No.	Battery (AH)	Voltage(V)	Output shaft specification	Grinding Wheel Specification(mm)	No-load Speed(RPM)	Driving Capacity (mm)	Charging time(MIN)	Unit Weight(kg)			
51090	51519	51505	4.0	18	M14	125	8000	-	60	2.3	-	4	15.8



## 51086 J Series 12V Li-Ion Impact Screwdriver



Battery 51517



Charger 51504



- Lightweight and compact structure, with great output Multi-speed control switch, easy high/slow-speed adjustment by fingers Large area of soft rubber handle, which effectively prevents slippage and is easy for gripping
- Front white LED lamp, illuminating the working space
- Quick charger completes charging in half an hour, improving the work continuity

\*This set includes two batteries and one charger

No.	Battery No.	Charger No.	Battery(AH)	Voltage(V)	Max. Clamping Diameter(mm)	No-load Speed(RPM)	Impact Frequency (BPM)	Driving Capacity (mm)	Maximum Torque(NM)	Charging time(MIN)	Unit Weight(kg)			
51086	51517	51504	2.0	12	6.35	0-2300	0-3000	-	100	30	1.1	-	5	17.5

## 51005 J Series 12V Li-Ion Drill/Screwdriver



Battery 51516



Charger 51503



- Small size, which increases flexibility in operation
- Lightweight, which increases gripping comfort
- One-hand switching between high/low speed positions
- Various speed control switches, easy high/slow-speed adjustment by fingers
- Large surface area of soft rubber handle, which effectively prevents slippage and is easy for gripping
- Front white LED lamp, illuminating the working space

\*This set includes two batteries and one charger

No.	Battery No.	Charger No.	Battery(AH)	Voltage(V)	Max. Clamping Diameter (mm)	No-load Speed(RPM)	Torque Adjustment	Drilling Capacity (mm)	Maximum Torque(NM)	Charging time(MIN)	Unit Weight(kg)			
51005	51516	51503	2.0	12	10	0-440 at low speed 0-1450 at high speed	17+1	20(wood) 8(steel)	30	45	1.0	-	6	16.8





## 51006 J Series 12V Li-Ion Drill/Screwdriver



Battery 51517



Charger 51504



- Small size, which increases flexibility in operation
  - Lightweight, which increases gripping comfort
  - One-hand switching between high/low speed positions
  - Various speed control switches, easy high/slow-speed adjustment by fingers
  - Large area of soft rubber handle, which effectively prevents slippage and is easy for gripping
  - Front white LED lamp, illuminating the working space
  - Quick charger completes charging in half an hour, improving work continuity
- \*This set includes two batteries and one charger

No.	Battery No.	Charger No.	Battery(AH)	Voltage(V)	Max. Clamping Diameter(mm)	No-load Speed(RPM)	Torque Adjustment	Driving Capacity (mm)	Maximum Torque(NM)	Charging time(MIN)	Unit Weight(kg)			
51006	51517	51504	2.0	12	10	0-440 at low speed 0-1450 at high speed	17+1	20(wood) 8(steel)	30	30	1.1	-	5	17.5

## 51011 J Series 18V Li-Ion Brushless Drill/Screwdriver



Battery 51518



Charger 51505



- High efficiency brushless motor for quick work progress
  - Variable speed switch for easy speed control
  - Slim handle with softgrip
  - Integrated working light for illumination of the work area
  - 30 minutes quick charger, improving work continuity
- \*This set includes two batteries and one charger

No.	Battery No.	Charger No.	Battery(AH)	Voltage(V)	Max. Clamping Diameter(mm)	No-load Speed(RPM)	Torque Adjustment	Driving Capacity (mm)	Maximum Torque(NM)	Charging time(MIN)	Unit Weight(kg)			
51011	51518	51505	2.0	18	13	0-560 at low speed 0-1900 at high speed	15+1	32(wood) 13(steel)	60	30	1.6	-	4	15.8



## 51012 J Series 18V Li-Ion Brushless Impact Drill/Screwdriver



Battery 51518



Charger 51505



- High efficiency brushless motor for quick work progress
- Quick switch between screw tightening/ drilling/ impact drilling
- Variable speed switch for easy speed control
- Slim handle with softgrip
- Integrated working light for illumination of the work area

\*This set includes two batteries and one charger

No.	Battery No.	Charger No.	Battery(AH)	Voltage(V)	Max. Clamping Diameter(mm)	No-load Speed(RPM)	Torque Adjustment	Driving Capacity (mm)	Maximum Torque(NM)	Charging time(MIN)	Unit Weight(kg)			
51012	51518	51505	2.0	18	13	0-560 at low speed 0-1900 at high speed	21+1	32(wood) 13(steel) 6.5(brick wall)	60	30	1.7	-	4	16.6

## 51073 J Series 18V Li-Ion Brushless Impact Wrench 220N.m



Battery 51519



Charger 51505



- High efficiency brushless motor
- Compact size with Max. impact torque up to 220N.m
- Three speed/ torque settings
- Slim handle with softgrip
- Integrated working light for illumination of the work area

\*This set includes two batteries and one charger

No.	Battery No.	Charger No.	Battery (AH)	Voltage (V)	Chuck Type	RPM 1/ Impact frequency 1	RPM 2/ Impact frequency 2	RPM 3/ Impact frequency 3	Maximum Torque(NM)	Standard Bolt	High-Strength Bolt	Charging time (MIN)	Unit Weight(kg)			
51073	51519	51505	4.0	18	1/2"Male	0-1200/0-1600	0-1800/0-2300	0-2500/0-3200	220	M8-M16	M6-M14	60	1.6	-	4	16.4



## 51074 J Series 18V Li-Ion Brushless Impact Wrench 580N.m



Battery 51519



Charger 51505

- High efficiency brushless motor
- Compact size with Max. impact torque up to 580N.m
- Three speed/ torque settings
- Slim handle with softgrip
- Integrated working light for illumination of the work area

\*This set includes two batteries and one charger



No.	Battery No.	Charger No.	Battery (AH)	Voltage (V)	Chuck Type	RPM 1/ Impact frequency 1	RPM 2/ Impact frequency 2	RPM 3/ Impact frequency 3	Maximum Torque(NM)	Standard Bolt	High-Strength Bolt	Charging time (MIN)	Unit Weight(kg)			
51074	51519	51505	4.0	18	1/2" Male	0-900/0-1700	0-1400/0-2500	0-2000/0-3400	580	M12-M22	M10-M20	60	2.5	-	4	19.8

## 51085 J Series 18V Li-Ion Brushless Impact Screwdriver



Battery 51519



Charger 51505

- High efficiency brushless motor for quick work progress
- Compact size with Max. impact torque up to 155N.m
- Three speed/ torque settings
- Slim handle with softgrip
- Integrated working light for illumination of the work area

\*This set includes two batteries and one charger



No.	Battery No.	Charger No.	Battery (AH)	Voltage (V)	Chuck Type	RPM 1/ Impact frequency 1	RPM 2/ Impact frequency 2	RPM 3/ Impact frequency 3	Maximum Torque(NM)	Standard Bolt	High-Strength Bolt	Charging time (MIN)	Unit Weight(kg)			
51085	51519	51505	4.0	18	1/4" Hex Key	0-1200/0-1600	0-1800/0-2300	0-2500/0-3200	155	60	1.6	1	2.5	-	4	16.4



## 51070 18V Li-Ion 1/2" Dr. Impact Wrench



Battery 51512



Charger 51501

- Front white LED lamp
  - 4-pole motor
  - Plastic injection molded grip
  - Dust wire mesh
- \*This set includes two batteries and one charger

No.	Battery No.	Charger No.	Battery (AH)	Voltage (V)	Male Size	No-load Speed(RPM)	Maximum Torque(NM)	Bolt Capacity	Unit Weight(kg)			
51070	51512	51501	4.0	18	1/2"	0-2300	210	M16	1.84	1	4	19.5

## 18V Li-Ion 1/2" Dr. Impact Wrench



Battery 51512



Charger 51501

- Optimized impacting structure and all metal drive system
  - Temperature controlled overheat protection switch
  - Plastic injection molded grip
  - Dust wire mesh
  - Brand new replaceable carbon brush
- \*This set includes two batteries and one charger

No.	Battery No.	Charger No.	Battery(AH)	Voltage(V)	Male Size	No-load Speed(RPM)	Maximum Torque(NM)	Bolt Capacity	Unit Weight(kg)			
51071	51512	51501	4.0	18	1/2"	0-1650	570	M22	2.9	1	4	23.3
51072	51512	51501	4.0	18	1/2"	0-550/0-1650	570	M22	2.9	1	4	23.3





## Li-Ion Dr. Ratchet



Battery 51510

Battery 51511

Charger 51500

- With greased ratchet head
- Compact and robust 4-pole motor and all metal drive system
- Fast response type Multi-speed control switch
- 14.4V 2.0 Ah high capacity battery
- Residual battery display

\*This set includes two batteries and one charger



51080



51081



51082

No.	Battery No.	Charger No.	Battery(AH)	Voltage(V)	Male Size	No-load Speed(RPM)	Maximum Torque(NM)	Unit Weight(kg)			
51080	51510	51500	2.0	10.8	1/4"	0-220	57	0.96	1	4	21.8
51081	51511	51500	2.0	14.4	3/8"	0-220	68	1.09	-	8	23.5
51082	51511	51500	2.0	14.4	1/2"	0-180	100	1.52	1	4	26.6







### 53101 Drill Chuck 0-6.5mm, 3/8" Mount



- Electroplated body for good rust protection
- Wide application
- Gripper jaw with higher wear resistance

No.	Clamping range(mm)	Connectiong Spec.			
53101	0-6.5	3/8" x 24	-	12	1.9

▲ No warranty as consumables

### 53131 Industrial Drill Chuck 0-6.5mm, B10 Mount



- High wear-resistance jaw with socket teeth and keyhole
- Integral sleeve for anti-breakage
- Little runout
- Big clamping force

No.	Clamping range(mm)	Connectiong Spec.			
53131	0-6.5	B10 (Taper)	1	4	0.7

▲ No warranty as consumables

### 53111 Drill Chuck 1-10mm, 3/8" Mount



- Electroplated body for good rust protection
- Wide application
- Gripper jaw with higher wear resistance

No.	Clamping range(mm)	Connectiong Spec.			
53111	1-10	3/8" x 24	-	12	2.4

▲ No warranty as consumables

### 53132 Industrial Drill Chuck 2-13mm, B16 Mount



- High wear-resistance jaw with socket teeth and keyhole
- Integral sleeve for anti-breakage
- Little runout
- Big clamping force

No.	Clamping range(mm)	Connectiong Spec.			
53132	1-13	B16 (Taper)	1	4	2

▲ No warranty as consumables

### 53121 Drill Chuck 1.5-13mm, 1/2" Mount



- Electroplated body for good rust protection
- Wide application
- Gripper jaw with higher wear resistance

No.	Clamping range(mm)	Connectiong Spec.			
53121	1.5-13	1/2" x 20	-	12	4.3

▲ No warranty as consumables

### 53201 Chuck Key, KG Style



- Suitable for KG-toothed chucks of all brands with wrenches

No.			
53201	1	-	-

▲ No warranty as consumables



53202 Chuck Key, KK Style



• Suitable for KG-toothed chucks of all brands with wrenches

No.			
53202	-	24	1.9

▲ No warranty as consumables

53203 Chuck Key, S2 Style



• Suitable for KG-toothed chucks of all brands with wrenches

No.			
53203	-	24	1.8

▲ No warranty as consumables

53204 String for Chuck Key






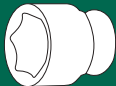
• Compatible with various drill chuck wrenches of SATA

No.			
53204	-	48	10.6

▲ No warranty as consumables

# Air Tool

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	Pneumatic Fastening Tools	<b>312-322</b>
	Pneumatic Polishing & Grinding Tools	<b>317-323</b>
	Pneumatic Drilling & Cutting Tools	<b>323</b>
	Pneumatic Socket	<b>325-333</b>

# Air Tool

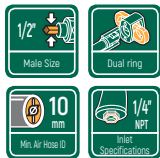
## Dr. Composite Air Impact Wrench



02124



02135



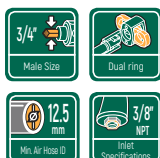
02136



02139



02145



02160



- Output shaft forged with SNCM616 steel imported from Japan
- Self-reset blade capable of attaching to the inner surface of the cylinder for quick startup and strong explosive force
- All series provided with 360-degree rotating intake assembly, free of pipe winding

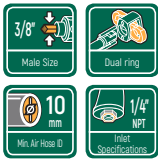
No.	Output End Specification	Working Torque <sup>3</sup> (N·m)	Max. Reversal Torque <sup>5</sup> (N·m)	Free Speed (RPM)	Bolt Tightening Capacity <sup>1</sup>	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>4</sup> (Kg/cm <sup>2</sup> )	Unit Weight (kg)			
02124	3/8"	450	650	7000	M16	4.4	89.5	159.1×178.9×60.3	1/4"	10	6.35	1.43	-	10	15.1
02135	1/2"	500	650	8000	M18	4.5	90	159.1×178.9×60.3	1/4"	10	6.35	1.44	-	10	15.2
02136	1/2"	800	1050	6700	M20	5.5	92	193.5×191.5×72	1/4"	10	6.35	2.34	-	8	20
02139	1/2"	850	1120	7300	M20	5.5	92	174.8×184×70	1/4"	10	6.35	1.79	-	10	19.5
02145	3/4"	1220	1700	4000	M24	7.0	97	220.8×221.1×89.2	3/8"	12.5	6.35	4.04	-	4	16.6
02160	1"	1220	1700	4000	M24	7.0	97	228.6×221.1×89.2	3/8"	12.5	6.35	4.14	-	4	17

<sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

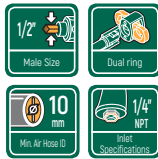
## Dr. Air Impact Wrench



02123



02150



02144



• Push-rod reversing knob operated with only one hand

No.	Output End Specification	Working Torque <sup>a</sup> (N-m)	Max. Reversal Torque <sup>b</sup> (N-m)	Free Speed (RPM)	Bolt Tightening Capacity <sup>c</sup>	Average Gas Consumption (CFM)	Noise Level <sup>d</sup> dB(A)	L×W×H (mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>e</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02123	3/8"	350	500	10500	M16	9.9	105	191×118×60	1/4"	10	6.35	1.47	-	10	16.8
02150	1/2"	650	880	7000	M18	10.6	103	202×169×71	1/4"	10	6.35	2.6	-	6	17.8
02144	3/4"	1200	1500	5000	M24	13.5	100	218×213×85	3/8"	12.5	6.35	4.55	-	4	20.8

▲ <sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

## 1" Dr. Air Impact Wrench



01132



01132S



- Suitable for disassembly and assembly of tires of large buses as well as disassembly and assembly and maintenance of large mechanical equipment
- Main parts subjected to vacuum heat treatment and ultra-low temperature quenching for high hardness, good toughness, good wear resistance and long product life
- 8" output shaft (01123) suitable for tire disassembly and assembly of large buses
- 2" output shaft (01132S) suitable for narrow space operation

No.	Output End Specification	Working Torque <sup>a</sup> (N-m)	Max. Reversal Torque <sup>b</sup> (N-m)	Free Speed (RPM)	Bolt Tightening Capacity <sup>c</sup>	Average Gas Consumption (CFM)	Noise Level <sup>d</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>e</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
01132	1"Male	2300	2900	4700	M30	8"	16	537×123.5×176	1/2"	12.5	8	12.4	-	1	13.4
01132S	1"Male	2300	2900	4700	M30	2"	16	384×123.5×176	1/2"	12.5	8	11.4	-	1	12.4

▲ <sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure







## 01113C 1/2" Dr. Air Impact Wrench



- Maximum torque: 800N.m
- Downward exhaust design
- Increased service life

No.	Output End Specification	Working Torque <sup>4</sup> (N-m)	Max. Reversal Torque <sup>5</sup> (N-m)	Free Speed (RPM)	Bolt Tightening Capacity <sup>1</sup>	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
01113C	1/2" Male	600	800	7500	M18	4.2	110	192×195×69	1/4"	10	6.35	2.58	-	6	28.5

▲ <sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

## 01113A 1/2" Dr. Air Impact Wrench



- High torque output
- CVT trigger for easy initial positioning

No.	Output End Specification	Working Torque <sup>4</sup> (N-m)	Max. Reversal Torque <sup>5</sup> (N-m)	Free Speed (RPM)	Bolt Tightening Capacity <sup>1</sup>	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
01113A	1/2" Male	610	810	7000	M18	4.2	102	189×191×69	1/4"	10	6.35	2.66	-	6	18

▲ <sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

## 02233 3/8" Dr. Composite Air Ratchet



- Handle designed with hexagon ring and made with composite for comfort

No.	Output End Specification	Working Torque <sup>4</sup> (N-m)	Max. Reversal Torque <sup>5</sup> (N-m)	Free Speed (RPM)	Bolt Tightening Capacity <sup>1</sup>	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02233	3/8" Male	34	41	280	M6	3.5	89	177×52×40	1/4"	10	6.35	0.59	-	10	7.9

▲ <sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure



## 02231 1/2" Dr. Air Ratchet



- Ratchet yoke made of chromium-molybdenum alloy steel and subjected to precision machining and special heat treatment for high precision and long service life
- Exhaust hood rotatable in 360 degrees for safety
- Precise planetary gear running in the inner ring gear tube made of nitride steel for stability and durability
- Trigger upgraded to stepless speed control
- Novel exhaust hood profile
- Reversing knob facilitating operation
- Output torque and service life increased



No.	Output End Specification	Working Torque <sup>4</sup> (N-m)	Max. Reversal Torque <sup>5</sup> (N-m)	Free Speed (RPM)	Bolt Tightening Capacity <sup>1</sup>	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02231	1/2" Male	75	81	160	M8	4	92.5	265×60×49	1/4"	8	6.35	1.13	-	16	20.8

<sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

## 02312 Heavy Duty Pistol Grip Air Screwdriver



- Exquisite special dual non-pin totally-enclosed blow mechanism for stable and strong torque output Suitable for 150mm-long screws or hardwood work piece
- Seven-blade high-efficiency motor with aluminum alloy cylinder without nickel plating, being light and durable and weighing only 0.9kg
- Accurate speed adjustment buttons provided
- Exhaust hood rotatable in 360 degrees for safety
- Positive/negative rotation with only one hand
- Suitable for left-handed operators

\*It is recommended to use SATA anti-impact bits. See the section of "Screwdrivers and bits" for details.



No.	Output End Specification	Working Torque <sup>4</sup> (N-m)	Max. Reversal Torque <sup>5</sup> (N-m)	Free Speed (RPM)	Bolt Tightening Capacity <sup>1</sup>	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02312	1/4" Hex Key	88	95	10000	M10	1.87	92	155×160×58	1/4"	6.35	6.35	0.97	-	10	12.6

<sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

## 02313 Straight Grip Air Screwdriver



- Main shaft and blow mechanism made of nickel-chrome-molybdenum alloy steel and subjected to special heat treatment and suitable for production line
- Blow chamber made of hot-forged steel blank for firmness and durability
- Precisely-casted steel cylinder for firmness and wear resistance
- Exhaust hood rotatable in 360 degrees for safety



No.	Output End Specification	Working Torque <sup>4</sup> (N-m)	Max. Reversal Torque <sup>5</sup> (N-m)	Free Speed (RPM)	Bolt Tightening Capacity <sup>1</sup>	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02313	1/4" Hex	28	40	10000	M6	7	90	185×65×47	1/4"	6.35	6.35	0.85	-	10	10.3

<sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure



## 02311 Composite Air Impact Screwdriver



- Handle coated with composite, weighing only 0.9kg
- Fully-enclosed reversing knob for effective dust control
- Main shaft, hammer, cam and hammer frame made of nickel-chrome-molybdenum alloy steel and subjected to special heat treatment
- CVT trigger for easy initial positioning

\*It is recommended to use SATA anti-impact bits. See the section of "Screwdrivers and bits" for details



No.	Output End Specification	Working Torque <sup>4</sup> (N-m)	Max. Reversal Torque <sup>5</sup> (N-m)	Free Speed (RPM)	Bolt Tightening Capacity <sup>1</sup>	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02311	1/4" Hex	50	68	12500	M6	1.76	83.6	220×150×45	1/4"	10	6.35	1	-	10	11.4

▲ <sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

## 02511 6mm Collet Air Die Grinder



- Made to industrial-grade grinding machine and suitable for small production in factory and general maintenance
- Cylinder made of special cast steel for wear resistance and long service life
- Elastic clamps subjected to precision machining for smoothness and little deflection and vibration



No.	Output End Specification	Working Torque <sup>4</sup> (N-m)	Max. Reversal Torque <sup>5</sup> (N-m)	Free Speed (RPM)	Bolt Tightening Capacity <sup>1</sup>	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02511	6mm Chuck	X	X	20000	X	3	95.1	154×70×40	1/4"	10	6.35	0.60	1	10	8.7

▲ <sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

## 02514 Air Pencil Die Grinder



- Lightweight and compact design for comfort
- Rotary switch for safety



No.	Output End Specification	Working Torque <sup>4</sup> (N-m)	Max. Reversal Torque <sup>5</sup> (N-m)	Free Speed (RPM)	Bolt Tightening Capacity <sup>1</sup>	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02514	3mm Chuck	X	X	54000	X	1	78	135×17×17	1/4"	10	6.35	0.21	-	10	4

▲ <sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure





## 02515 Air Tire Buffer



- Quick-release chuck facilitating replacement
- Speed control switch for accurate speed control
- Suitable for polishing, repairing, refurbishing tires and cleaning tire grooves

No.	Output End Specification	Grinding Disc Specification	Eccentric Distance (mm)	Free Speed (RPM)	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02515	10mm Hex: Chunk	-	-	2500	4	92	217×60×40	1/4"	10	6.35	0.97	-	10	11.7

<sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

## 02521 Composite Air Pre Surface Sander Set



- Suitable for quick removing of paint, rust, and bump and welding slag from castings such as brake drum, brake disc and aluminum alloy steel ring
- Fully-enclosed reversing knob for effective dust prevention
- Speed adjustment button for use with only one hand, facilitating speed control
- CVT trigger for continuous fine tuning speed

No.	Output End Specification	Grinding Disc Specification	Eccentric Distance (mm)	Free Speed (RPM)	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02521	1/4"-20T Main Shaft	2", 3"	-	16000	2.1	84.9	130×150×50	1/4"	10	6.35	0.63	-	5	9.1

<sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

## 02541 5" Air Angle Grinder



- Industrial-grade tools only suitable for 4.5" or 5" grinding wheel with inner hole diameter of 22mm
- Spiral bevel gear made of nickel-chrome-molybdenum alloy steel and subjected to special heat treatment for stability and wear resistance
- Coaxial centrifugal speed controller of motor for accurate motor speed control and safety
- Exhaust hood rotatable in 360 degrees to avoid exhausting to debris and sand dust, causing injury
- due to debris splash

No.	Output End Specification	Grinding Disc Specification	Eccentric Distance (mm)	Free Speed (RPM)	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02541	M14 Main Shaft	-	-	11000	5	80.6	223×196×93	1/4"	10	6.35	2.13	-	8	18.4

<sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure





## 02522 Composite Air Random Orbital Sander Set



- Suitable for grinding and sanding metal in small area and corners
- Eccentric sanding free of eddy grinding marks
- Eccentric mechanism for stability
- Fully-enclosed reversing knob for effective dust prevention
- Speed adjustment button for use with only one hand, facilitating speed control
- CVT trigger for continuous fine tuning speed



No.	Output End Specification	Grinding Disc Specification	Eccentric Distance (mm)	Free Speed (RPM)	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02522	5/16"-24T Main Shaft	3"	-	15000	2.1	84.2	150×150×45	1/4"	10	6.35	0.80	-	5	9.9

▲ <sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

## 02523 Composite Air Polisher Set



- Suitable for polishing of work pieces in small or narrow area
- Capable of polishing metal, paint finish or plastic surface, such as car bumper, plastic lamp shell surface, etc
- Fully-enclosed reversing knob for effective dust prevention
- Speed adjustment button for use with only one hand, facilitating speed control
- CVT trigger for continuous fine tuning speed



No.	Output End Specification	Grinding Disc Specification	Eccentric Distance (mm)	Free Speed (RPM)	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02523	5/16"-24T Main Shaft	3"	-	2200	2.2	83.5	160×147×47	1/4"	10	6.35	0.82	-	5	9.4

▲ <sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

## 02524 5" Non-Vacuum Air Random Orbital Sander



- Lightweight and durable composite shell for handiness and comfort
- Low vibration for smoothness and comfort
- Low grinding center of gravity for smooth polishing surface



No.	Output End Specification	Grinding Disc Specification	Eccentric Distance (mm)	Free Speed (RPM)	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02524	5/16"-24(F)	Self-Adhesive Discs 5"	5	11000	2	80	140×123×103	1/4"	10	6.35	0.80	-	8	9.9

▲ <sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure  
The grinding wheel is vulnerable, which is not covered by warranty.



## 02525 5" Central Vacuum Air Random Orbital Sander



\* Applicable sandpaper

- Used with vacuum cleaning system for collecting impurities and dust
- Lightweight and durable composite shell for handiness and comfort
- Low vibration for smoothness and comfort
- Low grinding center of gravity for smooth polishing surface



No.	Output End Specification	Grinding Disc Specification	Eccentric Distance (mm)	Free Speed (RPM)	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02525	5/16"-24(F)	6-Hole Self-Adhesive Discs 5"	5	11000	2	80	198×123×103	1/4"	10	6.35	0.86	-	8	10

▲ <sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure. The grinding wheel is vulnerable, which is not covered by warranty.

## 02421 3/8" Composite Reversible Air Drill



- Suitable for drilling, hole grinding, reaming, and fraising
- Handle coated with composite, weighting only 0.98KG, with low noise and light weight
- Fully-enclosed reversing knob for effective dust control
- 3/8" Jacobs drill chuck for durability
- CVT trigger for easy initial positioning

No.	Output End Specification	Grinding Disc Specification	Eccentric Distance (mm)	Free Speed (RPM)	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02421	3/8" Drill Chuck	-	-	1800	1.92	83.60	200×148×45	1/4"	10	6.35	0.98	-	10	12.3

▲ <sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure.

## 02422 3/8" Reversible Air Drill



- High-power industrial-grade air drill suitable for precision drilling, hole grinding, reaming, fraising and wire brush
- Cage-type planetary gear housing for sound transmission and solid spindle support
- Precisely-casted alloy steel cylinder for wear resistance and durability
- CVT trigger for easy initial positioning

No.	Output End Specification	Grinding Disc Specification	Eccentric Distance (mm)	Free Speed (RPM)	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02422	3/8" Drill Chuck	-	-	1800	5	78	215×150×44	1/4"	10	6.35	1.20	-	10	14.7

▲ <sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure.



## Self-Suction Air-Hydro Riveter



02704



02705



02706



02707

### Riveter Accessories

No.	Specification	Remark
P02704-2	Gripper	Standard Configuration 02704
P02705-2	Gripper	Standard Configuration 02705, 02706
P02707-2	Gripper	Standard Configuration 02707
P02704-49A	Top Tube Assembly 2.9MM ( Ø 3.2)	Standard Configuration 02704
P02704-49C	Top Tube Assembly 1.9MM ( Ø 2.4)	Standard Configuration 02704
P02705-49A	Top Tube Assembly 3.9MM ( Ø 4.8)	Standard Configuration 02705, 02706
P02705-49B	Top Tube Assembly 2.9MM ( Ø 3.2)	Standard Configuration 02705
P02706-49	Top Tube Assembly 4.4MM ( Ø 6.4)	Standard Configuration 02706
P02707-49A	Top Tube Assembly 5.0MM ( Ø 6.4)	Standard Configuration 02707
P02707-49B	Top Tube Assembly 4.0MM ( Ø 4.8)	Standard Configuration 02707

Rivet type	Rivet Material (Rivet Body - Nail Rod)	Rivet specifications available											
		02704				02705				02706			02707
		Tension ≥ 5800N *				Tension ≥ 9400N *				Tension ≥ 13000N *			Tension ≥ 18900N *
		Ø2.4	Ø3.2	Ø4.0	Ø3.2	Ø4.0	Ø4.8	Ø4.0	Ø4.8	Ø6.4	Ø4.8	Ø6.4	
Open-End Blind Rivet	Aluminum-Aluminum	●	●	●	●	●	●	●	●	●	●	●	●
	Aluminum/copper - Carbon steel/stainless steel	●	●	●	●	●	●	●	●	●	●	●	●
	Carbon steel-Carbon steel	●	●	●	●	●	●	●	●	●	●	●	●
	Stainless steel - Stainless steel	●	●	●	●	●	○	●	●	○	●	●	●
Close-End Blind Rivet	Aluminum-Aluminum	●	●	●	●	●	●	●	●	●	●	●	●
	Aluminum - Carbon steel/stainless steel	●	●	●	●	●	●	●	●	●	●	●	●
	Carbon steel-Carbon steel	●	●	●	●	●	●	●	●	●	●	●	●
	Stainless steel - Stainless steel	●	●	○	●	●	○	●	●	○	●	●	●
Lantern Rivet	Aluminum-Aluminum	●	●	●	●	●	●	●	●	●	●	●	●
Grip Rivet	Carbon steel-Carbon steel	●	●	●	●	●	●	●	●	●	●	●	●
Peel-Type Blind Rivet	Aluminum - Carbon steel	●	●	●	●	●	●	●	●	●	●	●	●
Self-lock Rivet	Aluminum-Aluminum	●	●	●	●	●	●	●	●	●	●	●	●
	Carbon steel-Carbon steel	●	●	○	●	●	●	●	●	○	●	●	●
Molobolt Rivet	Carbon steel-Carbon steel	-	-	-	-	-	●	-	●	○	●	●	●
	Stainless steel - Stainless steel	-	-	-	-	-	○	-	●	○	●	●	●
Hemlock (Hemlock Rivet)	Carbon steel-Carbon steel	-	-	-	-	-	●	-	●	○	●	●	●
	Stainless steel - Stainless steel	-	-	-	-	-	○	-	●	○	●	●	●

- Self-Suction function design
- Safety mechanism Designed
- No need tools to disassemble for maintenance

No.	Spec.	Max. rivet specifications available	Working Tension (N)	Effective Working Stroke (mm)	Max. Working Stroke (mm)	Air Consumption of Self-priming Function (L/min)	Single-cycle Gas Consumption (L)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Min. Air Hose ID	Unit Weight (kg)			
02704	Ø3.2	Ø 4.0 Close-Type Carbon Steel	≥5800	14	19	4.5	14	80	285×82×250	5-7	Ø8	1.3	-	10	20.7
02705	Ø4.8	Ø 4.8 Close-Type Carbon Steel	≥9400	13	18	6	2.1	80	300×86×280	5-7	Ø8	1.55	-	10	23.3
02706	Ø6.4	Ø 6.4 Close-Type Carbon Steel	≥13000	15	20	9	3.2	80	300×95×286	5-7	Ø8	1.6	-	10	24
02707	Ø6.4	Ø 6.4 Stainless Steel Molobolt	≥18900	20.5	25.5	16.5	6.2	80	335×108×320	5-7	Ø8	2.55	-	5	174

▲ <sup>1</sup> For tightening capability standard for bolts, ref<sup>r</sup> to bolts with strength level of 12.9 in DIN 267. 2 Noise level is sound pressure of level A. 3 Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; 4 Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; 5 Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

\*The tension listed refers to the tension under the working condition of 6.3 Kgf/cm<sup>2</sup> at the inlet pressure of the tool. " - " : No such specification " ● " : Specification recommended

○ \* : Specification not recommended

## 02755 Automatic Air-Hydro Rivet Nut Tool



### Rivet Nut Tool Accessories

No.	Specification
P02755M3	Pull Rod M3
P02755M4	Pull Rod M4
P02755M5	Pull Rod M5
P02755M6	Pull Rod M6
P02755M8	Pull Rod M8
P02755M10	Pull Rod M10
P02755M12	Pull Rod M12
P02755M14	Pull Rod M14
P02755M14U	M14 Pull Rod Assembly Package (Including M14 Head Housing, M14 Gun Head Nut and M14 Pull Rod)

- Automatic one-touch operation
- Adjustable riveting stroke
- Replacement of pull rod without using any tools
- Suitable for M3-M14 standard rivet nuts made of multiple materials
- Special nozzle assembly is required to be purchased separately for M14 rivet nuts



P02755M14U

No.	Rivet Nut Specification Applicable	Working Tension (N)	Max. Working Stroke (mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Min. Air Hose ID	Single-cycle Gas Consumption (L)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Unit Weight(kg)			
02755	M3 - M14	≥ 19100	7	5-7	Ø8	2.76	80	160×115×280	2.5	-	5	19.7

<sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure. The tension listed refers to the tension under the working condition of 6.3 Kgf/cm<sup>2</sup> at the inlet pressure of the tool. <sup>2</sup> Special pull rod assembly is required for M14 rivet nut

## 02531 7" Air Angle Polisher



- Capable of polishing and waxing various surfaces such as paints, metals and plastics at a speed of 3200RPM
- Built-in speed regulator
- Platen switch for easy operation

No.	Output End Specification	Grinding Disc Specification	Eccentric Distance (mm)	Free Speed (RPM)	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02531	5/8"-11 UNC Main Shaft	7"	-	3200	4	87	376×172×99	1/4"	10	6.35	1.90	-	6	16

<sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

## 6" Self Vacuum Palm Sander, 2.5mm Orbit



Applicable to 6-Hole 6" Self-Adhesive Discs



Applicable to 6-Hole 5" Self-Adhesive Discs

- Industrial-grade product for strong suction, handiness and comfort
- Low vibration for smoothness
- 5" and 6" stickup grinding disc for easy sandpaper replacement
- 2.5mm and 5.0mm eccentricities for fine grinding and common grinding respectively

No.	Output End Specification	Grinding Disc Specification	Eccentric Distance(mm)	Free Speed (RPM)	Average Gas Consumption(CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02659	5/16"-24(F)	6"	2.5	11000	2.2	88	213.2×150×96.3	1/4"	10	6.35	1.12	-	6	11.4
02662	5/16"-24(F)	6"	5	11000	2.2	88	213.2×150×96.3	1/4"	10	6.35	1.12	-	6	11.4
02665	5/16"-24(F)	5"	2.5	11000	2.2	88	200.6×124.7×96.8	1/4"	10	6.35	1.07	-	6	11.4
02668	5/16"-24(F)	5"	5	11000	2.2	88	200.6×124.7×96.8	1/4"	10	6.35	1.07	-	6	11.4

<sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

## 02545 Air Reciprocating Saw



P02545-35A Saw Blade, 32T

P02545-35B Saw Blade, 24T

- 32T saw blade available with additional one 24T saw blade and one 32T saw blade, with reciprocation of 9000BPM
- Capable of cutting iron plate with thickness of less than 1.6mm, 2mm-thick aluminum plate, glass fiber, plastic, etc
- Safety trigger with locking device provided to prevent accidental activation
- Adjustable hood for cutting depth adjustment

No.	Saw Blade Specification	Reciprocating Times (BPM)	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02545	32T, 24 Saw Blade	9000	9	88	279×36×68	1/4"	10	6.35	0.65	-	20	17

<sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

## 02542 2" Air Cutter



- Precise spiral bevel gear for smoothness and durability
- Rotary switch for safety
- Handiness for cutting in narrow spaces

No.	Output End Specification	Free Speed (RPM)	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H (mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02542	1/4"-28 (F) Main Shaft	15000	3	90	160×66×60	1/4"	10	6.35	0.655	-	10	9.3
02571	10MM Round Bar Chuck	3000 BPM	3	1014	175×180×50	1/4"	10	6.35	1.58	-	4	16

<sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure

## 02571 Air Hammer Set



- The set includes: 1 pc Pneumatic Chipping Hammer, 5 pc Medium Carbon Steel Chisel of 175mm in length subjected to heat treatment, 1 pc Spring Fixator, and 1 pc Blow Mold Case
- Cylinder and piston made of alloy steel for long service life
- Power control switch for speed and power output adjustment
- Rear exhaust keeping airflow away from operator and workpiece





## Industrial Air Blow Gun



97223



97224

- POM material handle
- Industrial valve inside
- Made in Denmark

No.	Air Outlet ID	Air Flow (L/MIN)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kg/cm <sup>2</sup> )	Unit Weight(kg)			
97223	φ2.3	380	85	233×122×23	1/4"	6.5	6-8	0.11	-	50	9.5
97224	φ2.3	380	85	414×122×23	1/4"	6.5	6-8	0.14	-	50	11.4

▲ <sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure  
No warranty as consumables

## Air Source Processor



Note: Please note that the compressed air should pass through the filter first and then through the lubricator.

No.	Connector Specification	Filtration Accuracy	Maximum Flow	Maximum Air Inlet Pressure	Maximum Air Outlet Pressure	Filter Cup Capacity	Oil Cup Capacity	L×W×H	Unit Weight			
	(PT)	(μm)	(L/min)	(psi)	(bar)	(psi)	(bar)	(ml)	(ml)	(mm)	(kg)	
29921	1/4"	5	2200	215	15	145	10	55	80	115×69×233	1.5	- 12 19.9
29931	3/8"	5	3000	215	15	145	10	55	80	115×69×233	1.5	- 12 19.9
29941	1/2"	5	3100	215	15	145	10	55	80	115×69×233	1.5	- 12 19.9

▲ No warranty as consumables

## PU spiral air hose



- Made from TPU materials imported from Taiwan
- Standard male/female quick couplings
- Joint with rubber sheath

No.	Air Hose Id	Air Hose Od	Total Length	Max. Working Pressure	Unit Weight			
	(mm)	(mm)	(M)	(psi)	(bar)	(kg)		
28081	8	12	6	145	10	0.61	-	12 8.2
28082	8	12	9	145	10	0.84	-	12 11.2
28083	8	12	15	145	10	1.30	-	9 13.4
28101	10	14	6	132	9	0.76	-	12 10.2
28102	10	14	9	132	9	1.04	-	12 13.8
28103	10	14	12	132	9	1.34	-	9 13.7

▲ No warranty as consumables



## 09008 12Pc. 1/2" Dr. Impact Socket Set, SAE



- 10Pc. 1/2" Dr. SAE Impact Socket [7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"]
- 1Pc. 1/2" Dr. Impact Universal Joint
- 1Pc. 1/2" Dr. Impact Extension Bar [5"]

No.			
09008	-	8	17.9

## 09009 12Pc. 1/2" Dr. Impact Socket Set, SAE



- 10Pc. 1/2" Dr. Impact Socket [10,11,13,14,17,19,21,22,23,24mm]
- 1Pc. 1/2" Dr. Impact Universal Joint
- 1Pc. 1/2" Dr. Impact Extension Bar [5"]

No.			
09009	-	8	16.5

## Japanese Quick Connector - External Thread



- Durable: Joint equipped with copper spool and stainless steel spring for rust protection and long service life
- Solid: Plug subjected to heat treatment for improved wear resistance and firmness
- Energy-saving: Unique structure for small resistance coefficient, small pressure loss and large gas flow
- Safety: Planar structure for safety

No.	Spec.			
29022	Rc1/4"	5	100	9.8
29032	Rc3/8"	5	100	10.6
29042	Rc1/2"	5	100	13.4

▲ No warranty as consumables

## Japanese Quick Connector - Internal Thread



- Durable: Joint equipped with copper spool and stainless steel spring for rust protection and long service life
- Solid: Plug subjected to heat treatment for improved wear resistance and firmness
- Energy-saving: Unique structure for small resistance coefficient, small pressure loss and large gas flow
- Safety: Planar structure for safety

No.	Spec.			
29122	Rc1/4"	5	100	14
29132	Rc3/8"	5	100	10.6
29142	Rc1/2"	5	100	11.9

▲ No warranty as consumables

## Japanese Quick Connector - Intubation Tube



- Durable: Joint equipped with copper spool and stainless steel spring for rust protection and long service life
- Solid: Plug subjected to heat treatment for improved wear resistance and firmness
- Energy-saving: Unique structure for small resistance coefficient, small pressure loss and large gas flow
- Safety: Planar structure for safety

No.	Spec.			
29222	Φ8mm	5	100	9.6
29232	Φ10mm	5	100	10
29242	Φ12mm	5	100	10.4

▲ No warranty as consumables

## Japanese Quick Connector - Lock Tube



- Durable: Joint equipped with copper spool and stainless steel spring for rust protection and long service life
- Solid: Plug subjected to heat treatment for improved wear resistance and firmness
- Energy-saving: Unique structure for small resistance coefficient, small pressure loss and large gas flow
- Safety: Planar structure for safety

No.	Spec.			
29322	Φ5×8mm	5	100	10.4
29332	Φ6.5×10mm	5	100	11.4
29342	Φ8×12mm	5	100	11.9

▲ No warranty as consumables



## Japanese Plug - External Thread



- Durable: Joint equipped with copper spool and stainless steel spring for rust protection and long service life
- Solid: Plug subjected to heat treatment for improved wear resistance and firmness
- Energy-saving: Unique structure for small resistance coefficient, small pressure loss and large gas flow
- Safety: Planar structure for safety

No.	Spec.			
29422	Rc1/4"	10	200	3.1
29432	Rc3/8"	10	200	3.6
29442	Rc1/2"	10	200	5.1

▲ No warranty as consumables

## Japanese Plug - Internal Thread



- Durable: Joint equipped with copper spool and stainless steel spring for rust protection and long service life
- Solid: Plug subjected to heat treatment for improved wear resistance and firmness
- Energy-saving: Unique structure for small resistance coefficient, small pressure loss and large gas flow
- Safety: Planar structure for safety

No.	Spec.			
29522	Rc1/4"	10	200	3
29532	Rc3/8"	10	200	3.3
29542	Rc1/2"	10	200	5.2

▲ No warranty as consumables

## Japanese Plug - Intubation Tube



- Durable: Joint equipped with copper spool and stainless steel spring for rust protection and long service life
- Solid: Plug subjected to heat treatment for improved wear resistance and firmness
- Energy-saving: Unique structure for small resistance coefficient, small pressure loss and large gas flow
- Safety: Planar structure for safety

No.	Spec.			
29622	Φ8mm	10	200	2.3
29632	Φ10mm	10	200	3
29642	Φ12mm	10	200	3.5

▲ No warranty as consumables

## Japanese Plug - Lock Tube



- Durable: Joint equipped with copper spool and stainless steel spring for rust protection and long service life
- Solid: Plug subjected to heat treatment for improved wear resistance and firmness
- Energy-saving: Unique structure for small resistance coefficient, small pressure loss and large gas flow
- Safety: Planar structure for safety

No.	Spec.			
29722	Φ5×8mm	10	200	3.2
29732	Φ6.5v10mm	10	200	4.3
29742	Φ8×12mm	10	200	6

▲ No warranty as consumables

## Japanese Quick Connector - with Intake Plug Tee



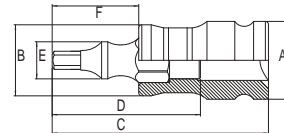
- Durable: Joint equipped with copper spool and stainless steel spring for rust protection and long service life
- Solid: Plug subjected to heat treatment for improved wear resistance and firmness
- Energy-saving: Unique structure for small resistance coefficient, small pressure loss and large gas flow
- Safety: Planar structure for safety

No.			
29822	1	40	16.1

▲ No warranty as consumables

## 1/4" Dr. Impact Bit Socket, Torx®

1/4"



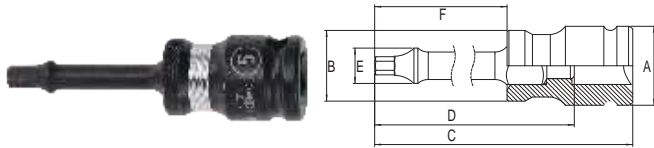
- Bit made of special alloy steel for high hardness and wear resistanceSocket made of CR-Mo by cold forging process for impact resistance
- Cylindrical shank for better torsion resistance
- Special construction for tight connection between bit and socket

No.	Spec. (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)			
35203	3	12.6	11.5	35	24	6	14	10	200	4.4
35204	4	12.6	11.5	35	24	6	14	10	200	4.5
35205	5	12.6	11.5	35	24	6	14	10	200	4.6
35206	6	12.6	11.5	35	24	7	14	10	200	4.7

▲ No warranty as consumables

### 3/8" Dr. Impact Bit Socket, Hexagon

3/8"



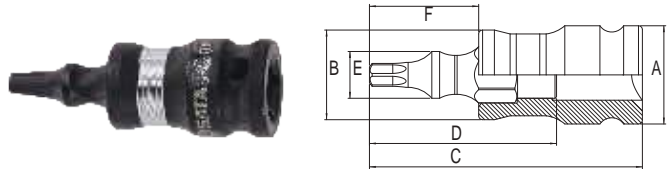
- Bit made of special alloy steel for high hardness and wear resistanceSocket made of CR-Mo by cold forging process for impact resistance
- Cylindrical shank for better torsion resistance
- Special construction for tight connection between bit and socket

No.	Spec. (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)			
35304	4	20	18	70	57	8	39	6	120	9.2
35305	5	20	18	70	57	8	39	6	120	9.2
35306	6	20	18	70	57	9	39	6	120	9.3
35307	7	20	18	70	57	9	39	6	120	9.5
35308	8	20	18	70	57	9.5	39	6	120	10

▲ No warranty as consumables

### 1/4" Dr. Impact Bit Socket, Torx®

1/4"



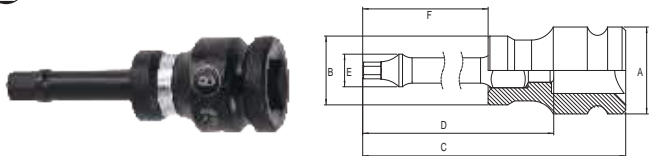
- Bit made of special alloy steel for high hardness and wear resistanceSocket made of CR-Mo by cold forging process for impact resistance
- Cylindrical shank for better torsion resistance
- Special construction for tight connection between bit and socket

No.	Spec.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)			
35221	T10	12.6	11.5	35	24	6	14	10	200	4.2
35222	T15	12.6	11.5	35	24	6	14	10	200	4.3
35223	T20	12.6	11.5	35	24	6	14	10	200	4.3
35224	T25	12.6	11.5	35	24	6	14	10	200	4.3
35225	T27	12.6	11.5	35	24	6	14	10	200	4.4
35226	T30	12.6	11.5	35	24	7	14	10	200	4.4

▲ No warranty as consumables

### 1/2" Dr. Impact Bit Socket, Hexagon

1/2"



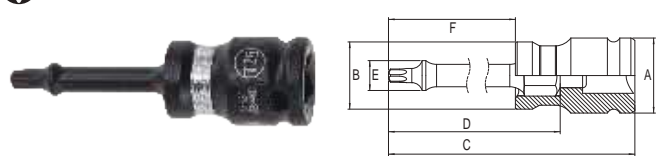
- Bit made of special alloy steel for high hardness and wear resistanceSocket made of CR-Mo by cold forging process for impact resistance
- Cylindrical shank for better torsion resistance
- Special construction for tight connection between bit and socket

No.	Spec. (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)			
35404	4	24	19	75	57	8	39	6	60	6.6
35405	5	24	19	75	57	8	39	6	60	6.6
35406	6	24	19	75	57	9	39	6	60	6.7
35407	7	24	19	75	57	9	39	6	60	6.8
35408	8	24	19	75	57	9.5	39	6	60	7
35410	10	25	25	75	57	14	39	6	60	8.2
35412	12	25	25	75	57	15	39	6	60	8.9
35414	14	25	25	75	57	17	39	6	60	9.5

▲ No warranty as consumables

### 3/8" Dr. Impact Bit Socket, Torx®

3/8"



- Bit made of special alloy steel for high hardness and wear resistanceSocket made of CR-Mo by cold forging process for impact resistance
- Cylindrical shank for better torsion resistance
- Special construction for tight connection between bit and socket

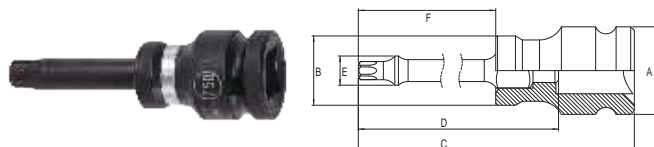
No.	Spec.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)			
35322	T15	20	18	70	57	5.2	39	6	120	8.9
35323	T20	20	18	70	57	5.2	39	6	120	8.9
35324	T25	20	18	70	57	8	39	6	120	8.9
35325	T27	20	18	70	57	8	39	6	120	9
35326	T30	20	18	70	57	8	39	6	120	9
35327	T40	20	18	70	57	9.5	39	6	120	9.4
35328	T45	20	18	70	57	9.5	39	6	120	10.2
35329	T50	20	18	70	57	11	39	6	120	10.2

▲ No warranty as consumables



## 1/2" Dr. Impact Bit Socket, Torx®

1/2"



- Bit made of special alloy steel for high hardness and wear resistanceSocket made of CR-Mo by cold forging process for impact resistance
- Cylindrical shank for better torsion resistance
- Special construction for tight connection between bit and socket

No.	Spec.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)			
35425	T27	24	19	75	57	8	39	6	60	6.5
35426	T30	24	19	75	57	8	39	6	60	6.5
35427	T40	24	19	75	57	9.5	39	6	60	6.7
35428	T45	24	19	75	57	9.5	39	6	60	6.9
35429	T50	24	19	75	57	11	39	6	60	7.1
35430	T55	25	25	75	57	14	39	6	60	8.9

▲ No warranty as consumables

## Impact Socket Adaptor

1/2"

1/4"

3/4"

3/8"



- Made of CR-Mo by cold forging process for impact resistance

No.	Male × Female			
34714	3/8"×1/4"[M×F]	20	300	5.2
34715	1/2"×3/8"[M×F]	20	200	12.7
34716	3/8"×1/2"[M×F]	20	200	13.5
34717	3/4"×1/2"[M×F]	12	60	9.4
34718	1/2"×3/4"[M×F]	12	60	20.7

## Impact Universal Joint

3/8"



32902

1/2"



34719

3/4"



34720

- Made of CR-Mo by cold forging process for impact resistance

No.	L			
32902	3/8"×3/8"[M×F]	-	140	12.8
34719	1/2"×1/2"[M×F]	6	90	16
34720	3/4"×3/4"[M×F]	4	24	16.4

## 3/8" Dr. 6Pt. Impact Deep Socket

3/8"



- Made of CR-Mo by cold forging process for impact resistance

No.	○ (mm)			
34101	7	6	-	-
34102	8	6	-	-
34103	9	6	-	-
34104	10	6	-	-
34105	11	6	-	-
34106	12	6	-	-
34107	13	6	-	-
34108	14	6	-	-
34109	15	6	-	-
34110	16	6	-	-
34111	17	6	-	-
34112	18	6	-	-
34113	19	6	-	-





### 3/8" Dr. 6Pt. Impact Socket

3/8"



• Made of CR-Mo by cold forging process for impact resistance

No.	○ (mm)			
34202	7	6	-	-
34203	8	6	-	-
34204	9	6	-	-
34205	10	6	-	-
34206	11	6	-	-
34207	12	6	-	-
34208	13	6	-	-
34209	14	6	-	-
34210	15	6	-	-
34211	16	6	-	-
34212	17	6	-	-
34213	18	6	-	-
34214	19	6	-	-

### 3/8" Dr. Impact Extension Bar

3/8"



• Made of CR-Mo by cold forging process for impact resistance

No.	L(mm)	Material			
34701	75	Cr-Mo	12	180	15
34702	150	Cr-Mo	6	60	9.7

### 1/2" Dr. Impact Extension Bar

1/2"



• Made of CR-Mo by cold forging process for impact resistance

No.	Spec.			
33911	3"	1	90	12.9
33901	5"	-	80	17.1

### 1/2" Dr. 6Pt. Impact Socket

1/2"



• Made of CR-Mo by cold forging process for impact resistance

No.	○ (mm)			
34303	10	6	-	-
34304	11	6	-	-
34305	12	6	-	-
34306	13	6	-	-
34307	14	6	-	-
34308	15	6	-	-
34309	16	6	-	-
34310	17	6	-	-
34311	18	4	-	-
34312	19	4	-	-
34314	21	4	-	-
34315	22	4	-	-
34316	23	4	-	-
34317	24	4	-	-
34320	27	4	-	-
34322	29	2	-	-
34323	30	2	-	-
34325	32	2	-	-



## 1/2" Dr. 6Pt. Thin Wall Impact Socket

1/2"



- Made of CR-Mo by cold forging process for impact resistance
- Thin-walled for use in narrow spaces

No.	○ (mm)			
34303T	10	6	-	-
34304T	11	6	-	-
34305T	12	6	-	-
34306T	13	6	-	-
34307T	14	6	-	-
34308T	15	6	-	-
34309T	16	6	-	-
34310T	17	6	-	-
34311T	18	4	-	-
34312T	19	4	-	-
34314T	21	4	-	-
34315T	22	4	-	-
34316T	23	4	-	-
34317T	24	4	-	-
34320T	27	4	-	-

▲ No warranty as consumables

## 1/2" Dr. 6Pt. Thin Wall Impact Deep Socket

1/2"



- Made of CR-Mo by cold forging process for impact resistance
- Thin-walled for use in narrow spaces

No.	○ (mm)			
34403T	10	6	-	-
34404T	11	6	-	-
34405T	12	6	-	-
34406T	13	6	-	-
34407T	14	6	-	-
34408T	15	6	-	-
34409T	16	6	-	-
34410T	17	6	-	-
34411T	18	6	-	-
34412T	19	4	-	-
34414T	21	4	-	-
34415T	22	4	-	-
34417T	23	4	-	-
34419T	24	4	-	-
34420T	27	4	-	-

▲ No warranty as consumables

## 1/2" Dr. 6Pt. Impact Deep Socket

1/2"



- Made of CR-Mo by cold forging process for impact resistance

No.	○ (mm)			
34403	10	6	-	-
34404	11	6	-	-
34405	12	6	-	-
34406	13	6	-	-
34407	14	6	-	-
34408	15	6	-	-
34409	16	6	-	-
34410	17	6	-	-
34411	18	6	-	-
34412	19	4	-	-
34414	21	4	-	-
34415	22	4	-	-
34417	23	4	-	-
34419	24	4	-	-
34420	27	4	-	-
34422	29	2	-	-
34423	30	2	-	-
34425	32	2	-	-

## 1/2" Dr. Impact Extension Bar

1/2"



- Made of CR-Mo by cold forging process for impact resistance

No.	L(mm)			
34703	125	6	72	17.2
34704	150	6	72	20.1
34705	250	6	36	16.2
34706	300	6	30	16






## 3/4" Dr. 6Pt. Impact Socket

3/4"



• Made of CR-Mo by cold forging process for impact resistance




No.	○ (mm)			
34505	17	6	72	17.1
34506	18	6	72	17.9
34507	19	6	72	17.8
34508	20	6	72	18.6
34509	21	6	72	19.6
34510	22	6	72	19.1
34511	23	6	54	14
34512	24	6	54	15.4
34513	25	6	54	15.4
34514	26	6	54	14.3
34515	27	6	36	10.9
34516	28	6	36	10.5
34517	29	6	36	12.1
34518	30	6	36	13.5
34519	31	6	36	15.4
34520	32	6	36	16.7
34521	33	6	36	16
34522	34	2	-	-
34523	35	6	36	16.7
34524	36	6	36	17.7
34525	37	6	36	20.3
34526	38	6	36	19.4
34527	39	6	36	21
34528	40	6	36	21.8
34529	41	6	36	21.7
34530	42	6	36	22.5
34531	43	1	18	12.8
34532	44	1	18	13
34533	45	1	18	13.6
34534	46	1	18	13.8
34535	47	1	18	15.1
34536	48	1	18	15.2
34537	49	-	18	16.5
34538	50	-	18	20.2
34540	52	1	-	-
34542	54	1	18	1.7
34543	55	1	12	14.9
34544	56	1	12	23.8
34545	57	-	12	15.5
34546	58	1	-	-
34547	59	1	12	25.7
34548	60	-	12	17.6
34549	63	-	12	18.5
34550	65	1	12	20
34551	67	1	12	21.4

## 3/4" Dr. 6Pt. Impact Deep Socket

3/4"



• Made of CR-Mo by cold forging process for impact resistance

No.	○ (mm)			
34605	17	1	20	12.5
34606	18	1	20	12.7
34607	19	1	20	12.8
34608	20	1	20	20.6
34609	21	1	20	13
34610	22	1	20	13.3
34611	23	1	20	13.8
34612	24	1	20	13.9
34613	25	1	20	14.4
34614	26	1	20	22.9
34615	27	1	20	12.9
34616	28	1	-	-
34617	29	1	-	-
34618	30	1	20	14.1
34619	31	1	20	23
34620	32	1	20	14.8
34621	33	1	20	15.9
34622	34	1	20	16
34623	35	1	-	-
34624	36	1	20	17
34625	37	-	20	28.1
34626	38	1	20	18
34628	40	1	18	17.6
34629	41	1	18	17.8
34630	42	1	18	18.6
34631	43	1	-	-
34632	44	-	18	19.7
34633	45	1	18	19.9
34634	46	6	18	20.4
34635	47	1	-	-
34636	48	1	-	-
34637	49	1	-	-
34638	50	-	12	16.5
34640	55	-	12	18.7



## 3/4" Dr. Impact Extension Bar

3/4"



• Made of CR-Mo by cold forging process for impact resistance

No.	L(mm)			
34707	90	4	24	13.5
34708	100	4	24	14.4
34709	150	3	18	14.2
34710	175	3	18	15.9
34711	200	2	12	11.9
34712	250	-	10	12.1

## 1/2" Dr. Wheel Protector Impact Socket

1/2"



• Made of CR-Mo by cold forging process for impact resistance

No.	Spec. (mm)			
34410H	17	6	60	11
34412H	19	6	60	12
34414H	21	6	60	15

▲ No warranty as consumables

## 1" Dr. 6Pt. Impact Socket

1"



• Made of CR-Mo by cold forging process for impact resistance

No.	○ (mm)			
34805	17	6	36	19.7
34806	18	6	36	19.9
34807	19	6	36	20.1
34808	20	6	36	20.1
34809	21	6	36	20.3
34810	22	6	36	20.6
34811	23	1	30	20.1
34812	24	5	30	17.6
34813	25	6	30	21.9
34814	26	6	30	22.3
34815	27	5	30	18.9
34816	28	6	30	19.2
34817	29	5	30	19.9
34818	30	4	24	16.3
34819	31	6	24	19.5
34820	32	4	24	16.7
34821	33	4	24	16.8
34822	34	4	24	17.1
34823	35	4	24	18.3
34824	36	4	24	18.6
34825	37	4	24	19.1
34826	38	4	24	19.7
34827	39	4	24	19.8
34828	40	4	24	20.2
34829	41	4	16	14.5
34830	42	4	16	14.7
34831	43	4	16	15.1
34832	44	4	16	15.5
34833	45	4	16	16.8
34834	46	4	16	17.3
34835	47	4	16	17.4
34836	48	4	16	19
34837	49	1	12	19.6
34838	50	4	12	15
34839	51	2	12	15.4
34840	52	2	12	17
34841	53	-	12	17.6
34842	54	2	12	17.9
34843	55	2	12	18.8
34844	56	2	12	37.6
34845	57	2	12	19.6
34846	58	1	8	13.7
34847	59	1	8	15
34848	60	1	8	14.8
34849	63	1	8	15.1
34850	65	1	8	16.8
34851	67	-	8	17.5
34852	68	1	8	18.2
34853	69	-	8	19.1






## 1" Dr. 6Pt. Impact Deep Socket

1"



- Made of CR-Mo by cold forging process for impact resistance

No.	○ (mm)			
34905	17	1	18	15.7
34906	18	1	18	25.4
34907	19	-	18	10.8
34908	20	1	-	-
34909	21	1	18	16
34910	22	1	18	16.2
34911	23	1	-	-
34912	24	1	18	16.4
34913	25	-	18	16.6
34914	26	1	-	-
34915	27	1	18	17
34916	28	1	18	17.1
34917	29	1	18	17.3
34918	30	-	18	17.6
34919	31	1	18	17.8
34920	32	1	18	18.7
34921	33	1	18	18.5
34922	34	-	18	18.6
34923	35	1	12	12.5
34924	36	-	12	12.7
34925	37	1	12	19.4
34926	38	-	12	13.3
34928	40	1	-	-
34929	41	1	12	14.5
34930	42	1	-	-
34931	43	1	-	-
34934	46	1	6	9.3
34937	49	1	6	10.2
34938	50	1	6	10.3
34940	55	1	6	11.4




## 1/4" Dr. Magnetic Nut Driver



L



- Made of SVCN for high hardness, wear resistance and toughness
- Cold forged and subjected to integral heat treatment for impact resistance
- Applicable to electric and pneumatic screwdrivers
- Built-in magnet for easy connection with screws and nuts

No.	○ (mm)	L(mm)			
35106	6	65	12	144	5.5
35107	7	65	12	144	6
35108	8	65	12	144	6
35110	10	65	12	144	6.2
35112	12	65	12	144	8.2
35113	13	65	12	144	8.2

## Warranty Terms for Pneumatic Tools

### Warranty Scope

Subject to the provisions of "Non-Warranty Scope" in Part II below, all pneumatic tools marked with the **SATA** trademark can be repaired free of charge or replaced at the designated maintenance store of SATA within 3 months from the date of purchase in case of any malfunction during normal use. Repaired or replaced items shall be warranted for the rest of the valid period in accordance with This Clause.

### Non-Warranty Scope

Pneumatic tools without the **SATA** trademark will not be warranted. Products that are damaged due to abnormal use will not be warranted.

Products that are worn due to too-much continuous use will not be warranted.

Products that are not repaired by maintenance store designated by SATA, disassembled without permission, or damaged due to the use of spare and accessory parts not authorized by SATA will not be warranted.

Products that are subjected to rust, plating peeling, surface scratches or plastic handle damage after use will not be repaired or replaced by SATA.

Products with warranty card not sent back within the specified time will not be repaired or replaced by SATA.

### How to replace or repair products

Users shall, within one month from the date of purchase of SATA pneumatic tools (i.e., within 30 days from the date marked on the purchase voucher, and the final date shall be subject to the postmark of the buyer), send back to SATA a complete and valid copy of the "Return Receipt of SATA Pneumatic Tools Warranty Card". Otherwise, it shall be deemed to be a waiver of the warranty rights.

For products within free repair or free replacement scope, users can go to the nearest SATA designated sales shop to fill in the product warranty card and enjoy free repair even repairment with proof of purchase like original receipts and copies.

### Service Consulting

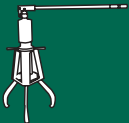


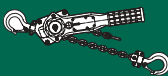



If you have any question about warranty terms for **SATA** pneumatic tools, or if you are not satisfied with the service provided by designated sales shop, please contact SATA Tool (Shanghai) Co., Ltd.: (021) 60611919 or 400 820 3885, 800 820 3885

### Power of Interpretation

These Terms shall be interpreted by SATA Tools (Shanghai) Co., Ltd.



# Hydraulic & Lifting

	Hydraulic Puller	<b>335-336</b>
	Hydraulic Bottle Jack	<b>335</b>
	Hand Chain Hoist	<b>339</b>
	Lever Block Chain Hoist	<b>339</b>
	Dr. Hydraulic Wrench	<b>340</b>
	Hydraulic Offset Ring Wrench	<b>340</b>
	Hydraulic Hose	<b>341</b>
	Electric Hydraulic Pump	<b>341</b>



## Hydraulic Bottle Jack



97810A



97809A



97808A



97804A



97803A



97802A



97801A

- Welded sturdy steel construction for strength and leak free performance
- Improved overall mechanical strength and resistance to biased load
- Integrated base forged with quality steel and new hydraulic oil circuit for stability
- Free of oil leakage with long service life, facilitating maintenance

Note: Jacks of 2T to 20T can pass the dynamic overload test with 1.5 times of the load capacity; Jacks of 32T to 50T can pass the dynamic overload test with 1.25 times of the load capacity.

No.	Spec. (t)	L×W×H(mm)	Max. Height(mm)	Extension Height(mm)	Unit Weight(kg)			
97801A	2	99×93×181	344	48	2.4	1	6	15.5
97802A	4	110×103×193	373	60	3.2	1	6	20.3
97803A	6	122×115×210	416	70	3.9	-	4	16.5
97804A	8	130×121×230	455	80	5	-	4	21.3
97805A	10	132×120×230	460	80	5.6	1	4	23.7
97807A	16	144×134×230	440	60	7.1	-	2	15
97808A	20	159×143×242	452	60	9.1	-	2	19.1
97809A	32	169×153×275	440	-	12	-	1	12.4
97810A	50	210×176×265	425	-	25.3	-	1	26.9

▲ No warranty as consumables

## Hydraulic Puller



Plastic Box Set



- With claws forming a "safe cage", three jaws ensure even clamping force
- Built-in "safety valve" design to avoid overload
- Japan imported NOK seals

No.	Puller Type	Nominal Tonnage(t)	Working Output (kg)	Stroke (mm)	Extension Distance(mm)	Maximum Pulling Torque(mm)	Claw Length (mm)	Body Height ≤(mm)	Number of small pump operations for one stroke			
99001	Integrated	6	6000	60	20-200	160	180	530	46+/-2	-	1	9.5
99002	Integrated	10	10000	80	20-300	210	237	640	96+/-2	-	1	14.5
99003	Integrated	15	10000	100	20-360	240	270	710	178+/-2	-	1	20.5

▲ 1-Year warranty for overall unit, lifetime warranty for jaw



## Hydraulic Puller



Puller Body



Manual Hydraulic Pump



- With claws forming a "safe cage", three jaws ensure even clamping force
- Built-in "safety valve" design to avoid overload
- Japan imported NOK seals

No.	Puller Type	Nominal Tonnage(t)	Working Output (kg)	Stroke (mm)	Extension Distance(mm)	Maximum Pulling Torque(mm)	Claw Length (mm)	Body Height ≤(mm)	Number of small pump operations for one stroke			
99014	Split	20	20000	100	25-420	285	320	620	Manual Pump 28+/-2	-	1	38.7
99015	Split	30	30000	100	25-515	340	375	715	Manual Pump 44+/-2	-	1	51.7

▲ 1-Year warranty for overall unit, lifetime warranty for jaw

## Hydraulic Cutter



99036






99038

### 085 Hydraulic Cutter 5T

- Suitable for cutting copper and aluminum cables, communication wires, and various soft wires
- Ultra high-pressure integrated hydraulic cutter with high and low pressures output via manual extrusion
- Two-stage oil ingress with maximum pressure of 700Kgf/ cm2 (10000psi)
- Tip rotatable in 180 degrees to facilitate operation

### Hydraulic Cutter (hard type)

- Suitable for cutting ACSR steel-core aluminum wire, soft copper, aluminum and iron bars, steel strand, steel cable, and reinforced steel iron
- Ultra high-pressure integrated hydraulic cutter with high and low pressures output via manual extrusion
- Two-stage oil ingress with maximum pressure of 700Kgf/ cm2 (10000psi)
- Tip rotatable in 180 degrees to facilitate operation
- FRP handle capable of insulating 20KV voltage for 5 minutes

No.	Output (T)	Opening (MM)	Cutting Capacity											Unit Weight (kg)			
			Wire Rope (MM)			Round Bar(mm)				Stranded Wire(mm)			Communication Cable(mm)				
			6x7	6x12	Soft Copper Bar	Soft Aluminum Bar	Soft Iron Bar	Rebar	Steel-Cored Aluminum Wire	Aluminum-Copper Stranded Wire	Steel Stranded Wire(1 x9)						
99036	5	85	-	-	-	-	-	-	-	28/38	-	85	8.5	-	1	8.5	
99038	71	40	25	25	24	24	16	16	38	40	20	40	6	-	1	6	

▲ 1-Year warranty for overall unit, lifetime warranty for jaw



## 99046 Hydraulic Crimper



- Suitable for crimping copper pipes, copper plate terminals, and C- and H-shaped overhead terminals
- Main body made of high carbon steel and subjected to heat treatment for high tensile strength
- Crimping via single loop for handiness
- Used with 99045

No.	Output (T)	Applicable Crimping Range(mm <sup>2</sup> )	Crimping Type	Unit Weight(kg)			
99046	12	JIS: 38, 60-70, 80, 100, 150-180, 200, 325 DIN: 50, 70, 95, 120, 150, 185, 240, 300, 400	Hexagonal	7.8	-	1	7.8

▲ 1-Year warranty for overall unit, lifetime warranty for jaw

## Hydraulic Cable Crimping Pliers



### Hydraulic Cable Crimping Pliers 8T

- Jaw made of forged alloy steel for strength and durability
- H-shaped jaw capable of rotating in 180 degrees
- Quick crimping for easy operation
- Hexagonal die adopted for tight crimping and firmness
- Reset by just turning the decompression valve
- Fiberglass insulated handle for voltage-withstanding and safety



### Hydraulic Cable Crimping Pliers 11T

- Jaw made of forged alloy steel for strength and durability
- C-shaped big jaw capable of rotating in 180 degrees for easy operation
- Two-stage hydraulic design for quick crimping with little force
- Decompression valve adopted for decompression by just turning and pressing the free handle with the hand holding the handle
- Built-in pressure relief valve with overload protection for automatic decompression after crimping
- Fiberglass insulated handle for voltage-withstanding and safety

No.	Hydraulic Pliers Type	Output(T)	Stroke(mm)	Crimping Range(mm <sup>2</sup> )	Body Length(mm)	Die Type	Configuration Mould(mm <sup>2</sup> )			
99018	Integrated	8	15.5	16~240	530	Hexagonal	16, 25, 35, 50, 70, 95, 120, 150, 185, 240	-	1	13.2
99019	Integrated	11	38	50~400	640	Hexagonal	50, 70, 95, 120, 150, 185, 240, 300, 400	-	1	20.7

▲ 1-Year warranty for overall unit, lifetime warranty for jaw



## 99045 Electric Hydraulic Pump



- 360-Degree flipping and suspension with normal output
- Fully closed for various harsh environments
- Auto shutdown at limit for safety and stability

No.	Maximum Output Pressure (kg/cm <sup>2</sup> psi)	Output Pressure(kg/cm <sup>2</sup> )	Oil pump capacity(L/min)	Voltage(V/Hz)	Motor Power(KW)	Oil Capacity(CC)	Unit Weight(kg)			
99045	700/10000	Low 0-100 High 10-700	Low 0-100 High 10-700	110/60	0.35	1000	72	-	1	72

▲ 1-Year warranty for overall unit, lifetime warranty for jaw

## 99047 Hydraulic Puncher



- Suitable for punching angle steel, copper, aluminum and iron plates, I-steel and all kinds of channel irons
- Oil cylinder and body forged with alloy steel together in C shape for firmness, durability and high tensile strength
- Small, portable, easy positioning and less burr from punching
- Used with 99045

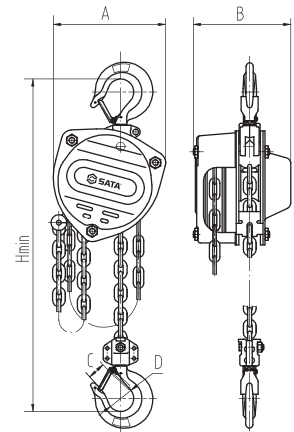
No.	Output(T)	Punching Capacity(mm)	Standard Mould(mm)	Unit Weight(kg)			
99047	31	Copper & aluminum 12, iron 10	3/8", 1/2", 5/8", 3/4"	16.5	-	1	16.5

▲ 1-Year warranty for overall unit, lifetime warranty for jaw





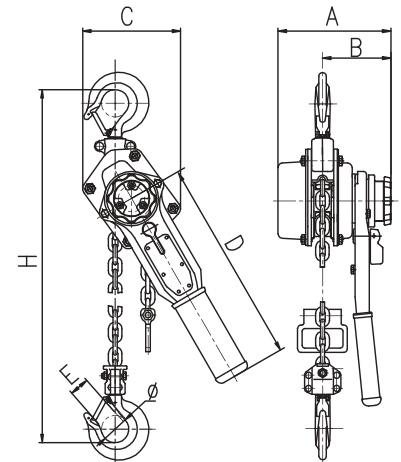
## Hand Chain Hoist



- High strength soft hook with safety clamp is adopted to effectively prevent breakage and decoupling
- High mechanical efficiency and low hand pull force
- Symmetrical double pawl design, reliable braking effect
- The shell has high stiffness and strong anti-falling deformation ability
- The safety factor is over 4:1, safe and reliable to use
- The integral bearing is used in the interior, which is convenient for disassembly, assembly and maintenance
- Implement standard JB/T7334-2016

No.	Lifting Weight (metric ton)	Lifting Height (m)	Lifting Chain		Hand Pull (N)	Main Dimensions(mm)					Unit Weight(kg)			
			Number of Load Chain falls	Diameter x Pitch Ø XP		A	B	C	D	H min.				
97861	1	3	1	6×18	250	172	151	26	40	360	12	1	1	12.8
97862	1	6	1	6×18	250	172	151	26	40	360	16.8	1	1	17.6
97863	2	3	1	8×24	340	210	175	34	50	470	19.5	1	1	20.5
97864	2	6	1	8×24	340	210	175	34	50	470	26.2	1	1	27.2
97865	3	3	2	7×21	280	230	173	37	55	580	24.4	1	1	25.6
97866	3	6	2	7×21	280	230	173	37	55	580	33.4	1	1	34.6
97867	5	3	2	10×30	390	280	189	46	65	640	41.6	1	1	44.8
97868	5	6	2	10×30	390	280	189	46	65	640	57.3	1	1	60.5

## Lever Block Chain Hoist



- High strength soft hook with safety clamp is adopted to effectively prevent breakage and decoupling
- Aluminum alloy handwheel with comfortable handle and light weight
- The design of the wrench reinforces the ribs and has a strong ability to resist falling
- The integral bearing is used in the interior, which is convenient for disassembly, assembly and maintenance
- Implement standard JB/T 7335-2016

No.	Lifting Weight (metric ton)	Lifting Height (m)	Lifting Chain Spec. (mm)	Handle Length (mm)	Pull Force (N)	Main Dimensions(mm)						Unit Weight(kg)			
						A	B	C	Ø	E	H min.				
97871	0.75	1.5	6×18	250	200	162	96	140	37	24	350	6.7	1	1	7.2
97872	0.75	3	6×18	250	200	162	96	140	37	24	350	8.0	1	1	8.5
97873	1.5	1.5	7×21	340	280	181	99	145	42.5	29	400	10.0	1	1	10.8
97874	1.5	3	7×21	340	280	181	99	145	42.5	29	400	11.7	1	1	12.5
97875	3	1.5	10×30	280	350	206	112	199	55	40	500	19.3	1	1	20.3
97876	3	3	10×30	280	350	206	112	199	55	40	500	22.6	1	1	23.6



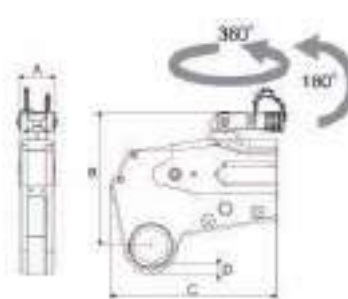
## Dr. Hydraulic Wrench



- It is made of new Al-Ti alloy of high hardness and high strength alloy steel
- The reaction arm allows 360° rotation to adjust and the tenon-type connection design facilitates the position adjustment according to different working conditions
- 360x180° oil inlet can be adjusted by universal rotation
- Unique chrome plating process makes the surface capable of rust proof; the reliable and durable double anti-reversing claw is provided with a ntilocking function, effectively improving the work efficiency
- Output accuracy: +/-3%, Repeat accuracy: +/-1%

No.	Driving Head Size	L1(mm)	L2(mm)	H1(mm)	H2(mm)	H3(mm)	H4(mm)	R1(mm)	R2(mm)	Min. Torque		Max. Torque		Bolt Range(mm)	Weight				
										(LBF.FT)	(N.m)	(LBF.FT)	(N.m)		(LB)	(KG)			
99050	3/4"	126	193	51	72	92	132	26	115	203	270	1366	1950	16~36	5.29	2.4	-	1	4
99051	1"	162	244	68	95	125	167	34	135	446	650	3031	4650	22~48	11.34	5.15	-	1	7
99052	1-1/2"	210	271	81	123	150	195	40	140	811	1150	5663	7650	27~56	19.5	8.86	-	1	10.5
99053	1-1/2"	223	295	91	131	168	220	48	154	841	1200	6890	9400	30~64	28.2	12.8	-	1	15.5
99054	1-1/2"	244	370	101	145	188	232	51	262	1538	2100	10910	14800	36~72	35.9	16.3	-	1	20
99055	2-1/2"	311	388	121	184	221	273	60	187	2960	4050	20115	27200	42~90	66.98	30.41	-	1	38
99056	2-1/2"	331	409	138	200	248	230	67	199	3817	5150	25697	34750	48~100	85.9	39	-	1	48
99057	2-1/2"	354	540	149	220	278	315	77	323	5235	7150	37756	51000	64~120	95.15	43.2	-	1	53

## Hydraulic Offset Ring Wrench



- 360° × 180° swivel allow movement of duplex hose
- Steel alignment pins connect lower reaction area for added strength
- Narrow nose radius allows to fit in applications where clearance constraints make other tools too big
- Rust-resistant finish
- Bronze bushing anti galling
- Output accuracy: +/-3%, Repeat accuracy: +/-1%

No.	Hexagon Head Size(mm)	Min. Torque		Max. Torque		Weight(kg)		External Dimension(mm)						
		(LBF.FT)	(N.m)	(LBF.FT)	(N.m)	Cylinder Block	Connector	A	B	C	D			
99060	30-60	182	250	2108	2850	1.99	1.48~1.85	32	148.8~156.8	168.0~175.5	9.1~11.7	-	1	5
99061	41-80	357	470	4336	5800	3.35	3.05~3.95	41.4	172.9~189.2	204.4~220.8	12.7~13.7	-	1	9.5
99062	50-105	750	1050	9800	13200	6.54	6.25~8.60	52.5	210.4~235.4	268.1~283.9	13.7~19.5	-	1	15.5
99063	70-115	1437	1950	15444	20800	9	11.98~14.16	64	245.7~258.3	326.7~344.7	19.5~23.0	-	1	26
99064	80-155	2910	3951	34421	46500	16.1	25.10~30.36	82.5	287.6~313.1	422.5~442.5	23.0~26.0	-	1	55



## Hydraulic Hose



NPT 1/4" Connector



- Twin pipe coated with polyurethane for both oil and aging resistance
- Pipe body with safety factor of 4 and wound with 6 layers of steel wire for safety and anti-bursting

No.	Spec. (m)	Pipe Diameter(in.)	Length		Size at Both Ends(in.)	Working pressure(bar)	Burst pressure(bar)			
			(FT)	(m)						
99035	6	1/4"	20	6	1/4"	1/4"	700	-	1	5
99037	12	1/4"	40	12	1/4"	1/4"	700	-	1	10

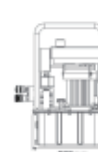
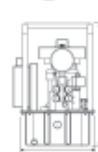
## 99030 Electric Hydraulic Pump, Brush Motor



- External pressure regulating valve for high accuracy
- Built-in safety relief valve for safety
- Carbon-brush high-speed motor capable of automatic idling protection and shutdown with safety start button for quick restart
- Built-in air cooling system for safety
- Large flow provided for high efficiency

No.	Speed(RPM)	Noise Level(dB)	Motor(kW)	Ampere	Flow(L/min)				Oil Tank(L)	Available Oil Amount(L)	Unit Weight(kg)			
					0(Bar)	50(Bar)	350(Bar)	700(Bar)						
99030	12000	80	0.84	25/110V 13/220V	11.3	71	1.2	0.9	8	7	32	-	1	40

## 99032 Electric Hydraulic Pump, Brushless Motor



- External pressure regulating valve for high accuracy
- Built-in safety relief valve for safety
- Carbon-brush high-speed motor capable of automatic idling protection and shutdown with safety start button for quick restart
- Built-in air cooling system for safety
- Large flow provided for high efficiency

No.	Speed(RPM)	Noise Level(dB)	Motor(kW)	Ampere	Flow(L/min)			Oil Tank(L)	Available Oil Amount(L)	Unit Weight(kg)			
					70(Bar)	350(Bar)	700(Bar)						
99032	1800	70	1.1	13/220V	16	1.5	0.85	8	7	33	-	1	42

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01113A	315	03182	220	03923	171	09042	70	09401	197	11208	43	12312	47	13108	51	13618	53
01113C	315	03183	220	03924	171	09043	70	09402	197	11209	43	12313	47	13109	51	13619	53
01132	313	03184	220	03925	171	09044	70	09403	4	11301	44	12314	47	13110	51	13620	53
01132S	313	03200	239	03926	171	09060	40	09404	5	11302	44	12315	47	13111	51	13701	53
02002A	239	03210	242	03931	171	09060-6	40	09405	197	11303	44	12316	47	13112	51	13702	53
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02024	240	03221	243	03936	172	09070	71	09411	293	11308	44	12403	48	13202	51	13707	53
02025	240	03222	243	03937	172	09079	71	09412	290	11309	44	12404	48	13203	51	13708	53
02026	240	03223	243	03938	172	09088	40	09413	297	11310	44	12405	48	13204	51	13810	53
02027	240	03230	242	03939	172	09099	41	09508	285	11311	44	12406	48	13205	51	13812	53
02028	240	03231	243	03940	172	09101	93	09509	286	11312	44	12407	48	13206	51	13813	53
02123	313	03232	243	03941	172	09101A	98	09510	3	11313	44	12408	48	13207	51	13814	53
02124	312	03233	243	03942	172	09101CH	97	09516	5	11314	44	12409	48	13208	51	13816	53
02131	314	03240	242	03943	171	09102	93	09517	6	11401	44	12410	48	13209	51	13817	53
02135	312	03241	243	03944	171	09103	93	09518	286	11402	44	12411	48	13210	51	13818	53
02136	312	03242	243	03945	171	09103A	98	09519	6	11403	44	12412	48	13211	51	13819	53
02137	314	03251	243	03946	171	09103CH	97	09521	37	11404	44	12413	48	13212	51	13901	53
02138	314	03252	243	03951	172	09104	93	09523	37	11405	44	12414	48	13213	51	13902	54
02139	312	03253	243	03952	172	09105	93	09524	37	11406	44	12415	48	13214	51	13904	54
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48619	81	52131	154	52223	155	55032	157	59025-70	118	59348	121	59751	127	62211	114	63102	278	63802	223
48620	81	52132	154	52224	155	55033	157	59026-150	118	59351	121	59752	127	62212	114	63103	278	63803	223
48621	81	52133	154	52225	155	55040	157	59026-25	118	59352	121	59753	127	62213	114	63104	278	63901	223
48622	81	52134	154	52226	155	55041	157	59026-50	118	59353	121	59754	127	62214	114	63105	278	63902	223
49201	79	52135	154	52227	155	55046	157	59026-70	118	59354	121	59755	127	62215	114	63106	278	63903	223
49202	79	52136	154	52228	155	55049	157	59027-150	118	59355	121	59757	127	62216	114	63107	278	63904	223
49203	79	52137	154	52229	155	55050	157	59027-25	118	59356	121	59801	126	62217	114	63112	278	63905	223
49204	79	52138	154	52230	155	55053	157	59027-50	118	59391	121	59802	126	62218	114	63113	278	64101	212
49205	79	52139	154	52310	156	55054	157	59027-710	118	59382	121	59803	126	62219	114	63201	279	64102	212
49208	79	52140	154	52315	156	55057	157	59031-50	117	59383	121	59811	127	62220	114	63202	279	64103	212
49210	79	52141	154	52320	156	55070	157	59032-50	117	59384	121	59812	127	62221	114	63207	279	64104	212
50401	181	52142	154	52325	156	55075	157	59033-50	117	59385	121	59813	127	62222	114	63210	279	64201	110
50403	181	52143	154	52328	156	55080	157	59034-50	117	59386	121	59821	127	62250	106	63211	279	66202	113
50404	181	52144	154	52330	156	55090	157	59034-70	117	59387	121	59822	127	62251	106	63301	223	66203	113
50405	181	52145	154	52332	156	55200	157	59035-50	117	59388	121	59823	127	62252	106	63302	223	66204	113
50411	181	52146	154	52333	156	55220	157	59035-70	117	59391	121	61002	125	62302	114	63303	223	66205	113
50421	181	52147	154	52335	156	55221	157	59036-50	117	59392	121	61004	110	62303	114	63304	223	66206	113
50422	181	52148	154	52338	156	55222	157	59036-70	117	59393	121	61101	113	62304	114	63305	223	70101A	134
50423	182	52149	154	52340	156	55223	157	59041-110	118	59411	122	61102	113	62305	114	63402	112	70102A	134
50451	182	52150	154	52342	156	55224	157	59041-150	118	59413	122	61103	113	62307	114	63403	112	70111	228
50452	182	52151	154	52345	156	55401	158	59041-65	118	59415	122	61104	113	62308	114	63404	112	70121A	130
50453	182	52152	154	52348	156	55402	158	59042-110	118	59416	122	61105	113	62309	114	63405	112	70122A	130
50457	183	52153	154	52350	156	55403	158	59042-150	118	59417	122	61106	113	62310	114	63407	112	70123A	131
50603	183	52154	154	52352	156	55404	158	59042-65	118	59421	122	61107	113	62311	114	63408	112	70124A	131
50604	183	52155	154	52355	156	55411	158	59043-110	118	59422	122	61108	113	62312	114	63409	112	70131	228
50605	183	52156	154	52360	156	55412	158	59043-150	118	59423	122	61211	227	62313	114	63410	112	70132	228
50606	183	52157	154	52365	156	55413	158	59043-65	118	59424	122	61212	227	62314	114	63411	112	70141	232
50608	183	52158	154	52368	156	55414	158	59211											

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70444	145	72034	147	80108	103	81312	102	84513	101	90709	267	91132	145	92311	190	93114	228	93491	219
70501	145	72041	147	80108A	101	81312A	100	84514	101	90710	268	91201	139	92312	190	93115	228	93492	219
70511	145	72042	147	80108CH	97	81313	102	84515	101	90715	267	91202	139	92313	190	93116	228	93493	219
70512	145	72043	147	80110	103	81313A	100	84604	100	90716	271	91212	139	92314	190	93117	228	93494	219
70521	145	72044	147	80110A	101	81314	102	84605	100	90717	270	91213	139	92315	190	93121	152	93495	219
70522	145	72201	132	80110CH	97	81314A	100	84606	100	90718	270	91311	195	92321	190	93122	153	93496	219
70611A	137	72201B	133	80112	103	81315	102	84607	100	90719	270	91311A	195	92322	190	93125	162	93501	152
70612A	137	72202	132	80112A	101	81316	102	84608	100	90720	270	91312	195	92323	190	93126	162	93502	152
70613A	137	72202B	133	80112CH	97	81316A	100	84609	100	90721	270	91312A	195	92324	190	93127	162	93503	152
70614A	137	72203	132	80113	103	81318	102	84610	100	90722	270	91314	195	92325	190	93128	162	93504	152
70615A	138	72203B	133	80113A	101	81320	102	84611	100	90723	270	91314A	195	92331	188	93129	162	93505	152
70616A	138	72301	132	80114	103	81323	102	84612	100	90724	270	91315	195	92332	188	93201	153	93506	152
70617A	138	72301B	133	80114A	101	82104	102	84704	100	90725	270	91315A	195	92336	190	93202	153	93507	152
70618A	138	72302	132	80114CH	97	82105	102	84705	100	90726	270	91316	195	92341	189	93203	153	93508	152
70621	134	72302B	133	80116	103	82106	102	84706	100	90727	270	91316A	195	92342	189	93204	153	93509	152
70622	134	72303	132	80116A	101	82107	102	84707	100	90728	270	91317	195	92343	189	93302	153	93601	153
70623	135	72303B	133	80116CH	97	82108	102	84708	100	90729	270	91317A	195	92344	189	93303	153	93603	153
70631	135	72401	132	80204	99	82109	102	84709	100	90731A	266	91321	195	92345	189	93304	153	95101	28
70632	135	72401B	134	80205	99	82111	102	84710	100	90732A	266	91322	195	92346	189	93305	153	95102	28
70633	135	72402	132	80206	99	82113	102	84711	100	90734A	266	91323	195	92347	189	93306	153	95103A	28
70634	135	72402B	134	80207	99	82115	102	84712	100	90736	271	91333	195	92348	189	93320S	159	95104A	28
70635	135	72411	129	80208	99	82117	102	84801	221	90738	264	91334	195	92349	189	93321S	159	95104A70	15
70641	136	72412	129	80210	99	82119	102	84802	221	90741A	266	91335	195	92351	189	93325S	159	95104A70-6	15
70642	136	72413	129	80212	99	82303	102	84803	221	90742A	266	91336	195	92352	189	93326S	159	95107	34
70643	136	72501	139	80213	99	82303A	101	84804	221	90743	264	91341	196	92353	189	93327S	159	95107A	31
70645	135	72502	139	80214	99	82304	102	84805	221	90745	264	91342	196	92366	189	93330S	159	95108A	30
70646	135	72503	139	80216	99	82304A	101	84806	221	90746	264	91343	196	92371	189	93331S	159	95109	34
70651	136	72511	275	80304	103	82305	102	84807	221	90747	265	91344	196	92401	190	93332S	159	95111	30
70812	206	72512	275	80304A	100	82305A	101	84808	221	90748	265	91351	196	92402	190	93333S	159	95115	28
70813	206	72610	229	80305	103	82306	102	84809	221	90749	265	91352	196	92403	190	93334S	159	95116	28
70814	206	72611	229	80305A	100	82306A	101	90311	243	90750	265	91361	196	92404	190	93335S	159	95117	29
70815	206	72615	229	80306	103	82307	102	90312	243	90751	187	91362	196	92405	190	93336S	159	95118	35
70816	206	72616	229	80306A	100	82307A	101	90313	243	90752	187	91363	196	92406	190	93401	162	95119	35
70817	206	72620	230	80307	103	82308	102	90314	243	90753	187	91401	198	92501	190	93402	163	95121	32
70818	206	72625	230	80307A	100	82308A	101	90315	244	90754	188	91402	198	92502	190	93404	163	95123	32
70819	206	72626	230	80308	103	82310	102	90433	210	90755	188	91403	198	92503	190	93405	163	95131A	26
70823	206	72627	230	80308A	100	82310A	101	90434	210	90762	187	91404	198	92504	190	93406	164	95132A	26
70824	206	72630	230	80310	103	82312	102	90435	210	90765	269	91411	198	92505	190	93407	164	95161	29
70825	206	72635	230	80310A	100	82312A	101	90436	210	90766	269	91412	198	92521	191	93408	164	95162	29
70826	206	72640	231	80312	103	82313	102	90501	210	90767	271	91501	198	92522	191	93411	164	95163	29
70827	206	72645	231	80312A	100	82313A	101	90502	210	90769	257	91502	198	92523	191	93413	163	95164	30
70828	206	72650	231	80313	103	82314	102	90504	210	90771	187	91503	199	92524	191	93414	163	95166	30
70829	206	72655	231	80313A	100	82314A	101	90510	211	90772	187	91511	199	92525	191	93416	163	95181	21
70836	206	72660	231	80314	103	82316	102	90511	212	90774	187	91512	199	92531	191	93417	163	95182	21
70837	206	72710	129	80314A	100	82316A	101	90521	210	90775	187	91513	199	92532	191	93418	163	95183	21
70838	206	72712	129	80316	103	83105	103	90522	211	90776	187	91514	201	92533	191	93419	219	95184	21
70839	206	72721	130	80316A	100	83106	103	90606	258	90782	188	91515	201	92534	191	93422A	164	95185	21
70841	206	72722	130	80402	220	83107	103	90607	259	90783	188	91516	201	92535	191	93424A	166	95186	21
70842	206	72723	130	80403	220	83108	103	90608	259	90784	188	91521	200	92551	185	93425A	166	95187	22
70843	206	72730	130	80404	220	83110	103	90609	260	90785	188	91522	200	92552	185	93426	166	95188	22
70845	206	72731	130	80405	220	83112	103	90610	260	90786	188	91523	200	92553	185	93427	166	95189	24
70851	207	72732	130	80406	220	83113	103	90613	261	90790	257	91531	202	92554	185	93428	166	95190	24
70852	207	73010	147	80408	220	83114	103	90614	261	90791	257	91532	202	92556	185	93429	167	95191	24
70853	207	73011	147	81104	102	83116	103	90615	261	90795	258	91533	202	92561	185	93430	167	95193	22
70854	207	73012	147	81104A	101	83305	103	90616	261	90797	260	91534	202	92562	185	93432A	166	95195	24
70921A	132	73013	147	81105	102	83306	103	90617	262	90800	186	91535	202	92564	185	93433A	167	95196	24
70922A	132	73014	147	81105A	101	83307	103	90618	260	90801	186	91539	202	92601	191	93434A	169	95197	24
71001	148	73020	148	81106	102	83308	103	90619	262	90802	186	91551	201	92602	191	93435A	169	95198	22
71002	148	73021	148	81106A	101	83310	103	90620	263	90803	186	91552	201	92603	191	93436	168	95199	25
71101	148	73022	148	81107	102	83312	103	90621	263	90804	186	91553	201	92604	191	93437	168	95201	299
71102	148	73023	148	81107A	101	83313	103	90623	211	90805	186	91601	197	92605	191	93438	165	95207	33
71103	148	73024	148	81108	102	83314	103	90624	211	90806	186	91602	197	92611	192	93441	168	95207S	19
71105	148	73030	148	81108A	101	83316	103	90626	211	90807	186	91603	197	92612	192	93442	168	95208	33
71106	148	73031	148	81110	102	84318	104	90628	211	90808	186	91604	197	92613	192	93443	168	95208S	19
71107	148	73032	148	81110A	101	84320	104	90630	211	90809	186	91605	197	92614	192	93446	168	95210	25
71202	149	73033	148	81111	102	84321	104	90632	211	90901	258	91606	197	92615	192	93450	228	95211	23



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96310	84	96553M	89	97203	287	97906	254
96311	84	96554K	88	97204	288	97907	254
96312	84	96554M	89	97204A	288	97908	254
96313	84	96555K	88	97205	288	97921	252
96321	85	96555M	89	97206	288	97922	252
96322	85	96556K	88	97211	289	97923	253
96323	85	96556M	89	97212	289	97924	255
96411	84	96557K	88	97213	289	97925	255
96412	84	96557M	89	97216	289	97926	255
96421	86	96558K	88	97221	299	97927	255
96422	86	96558M	89	97222	299	97928	256
96423	86	96559K	88	97223	324	97929	256
96424	86	96559M	89	97224	324	97930	256
96425	86	96562	89	97301	207	97931	256
96426	86	96563	89	97302	207	97932	256
96427	86	96564	89	97303	208	97933	256
96428	86	96572	88	97304	208	97934	256
96429	86	96573	88	97305	208	97935	256
96430	86	96574	88	97306	208	98001	284
96431	84	96575	88	97307	208	98002	284
96433	84	96610	221	97311	209	98003	284
96442	86	96611	221	97312	209	98004	284
96443	86	96612	221	97313	209	98005	284
96444	86	96613	221	97315	207	98021	284
96445	86	96614	221	97316	207	98022	284
96446	86	96615	221	97317	207	98023	284
96447	86	96616	221	97318	207	98024	284
96448	86	96621K	87	97321	208	98025	284
96449	86	96621M	87	97322	208	98026	284
96473	83	96622K	87	97323	208	99001	335
96474	83	96622M	87	97324	208	99002	335
96491	89	96623K	87	97325	208	99003	335
96492	89	96623M	87	97326	208	99014	336
96493	89	96624K	87	97327	209	99015	336
96494	89	96624M	87	97331	209	99018	337
96495	89	96625K	87	97341	209	99019	337
96496	91	96625M	87	97342	209	99030	341
96497	91	96626K	87	97343	209	99032	341
96498	91	96626M	87	97344	209	99035	341
96499	91	96627K	87	97401	292	99036	336
96521K	88	96627M	87	97403	292	99037	341
96521M	89	96628K	87	97404	292	99038	336
96522K	88	96628M	87	97405	292	99045	338
96522M	89	96629K	87	97406	292	99046	337
96523K	88	96629M	87	97407	292	99047	338
96523M	89	96630K	87	97422	292	99050	340
96524K	88	96630M	87	97426	292	99051	340
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96525	85	96631M	87	97428	290	99053	340
96525K	88	96632K	87	97441	292	99054	340
96525M	89	96632M	87	97451	210	99055	340
96526	85	96633K	87	97452	210	99056	340
96526K	88	96633M	87	97461	210	99057	340
96526M	89	96635M	87	97462	210	99060	340
96527	85	96636M	87	97501	293	99061	340
96527K	88	96655K	87	97502	293	99062	340
96527M	89	96655M	87	97511	294	99063	340
96528	85	96656K	87	97512	294	99064	340
96528K	88	96656M	87	97521	300		
96528M	89	96657K	87	97619	295		
96529	85	96657M	87	97631	291		
96529K	88	96659K	87	97635	291		
96529M	89	96659M	87	97701	296		
96530	85	96660K	87	97702	296		
96530K	88	96660M	87	97801A	335		
96530M	89	96662K	87	97802A	335		
96531	85	96662M	87	97803A	335		
96531K	88	96665K	87	97804A	335		
96531M	89	96665M	87	97805A	335		
96532	85	96668K	87	97807A	335		
96532K	88	96668M	87	97808A	335		
96532M	89	96670K	87	97809A	335		
96533K	88	96670M	87	97810A	335		
96533M	89	96710K	88	97861	339		
96534K	88	96711K	88	97862	339		
96534M	89	96712K	88	97863	339		
96535K	88	96713K	88	97864	339		
96535M	89	96714K	88	97865	339		
96536K	88	96716K	88	97866	339		
96536M	89	96717K	88	97867	339		
96537K	88	96718K	88	97868	339		
96537M	89	96719K	88	97871	339		
96538K	88	96721K	88	97872	339		
96538M	89	96722K	88	97873	339		
96539K	88	97101	289	97874	339		
96540K	88	97102	296	97875	339		
96541K	88	97103	296	97876	339		
96551K	88	97104	297	97901	254		
96551M	89	97105	299	97902	254		
96552K	88	97106	290	97903	254		
96552M	89	97201	287	97904	254		

The following products have been removed from the market in the near future. We will no longer accept customers' orders as soon as they are sold up at various SATA distribution channels.

No.				
01113	09708	59555	70311	95104
01114	09711	59556	70313	95105
01115	09713	59557	70321	95106
01122	09714	59558	70322	95108
01131	09916	59559	70323	95108B
01142	09917	59560	70401	95114
01143	09918	59561	70402	95135
01312	33902	61003	70403	95136
01502	40301	61201	70404	95137
01532	40302	61202	70611	95221
01533	40303	61203	70612	95222
01551	40304	61301	70613	95223
02001	40305	61302	70614	95224
02002	40306	61303	70615	96513
02011	40307	61304	70616	96515
02012	40308	62011	70701	97214
02013	40309	62012	70702	97215
02014	40310	62013	70921	97801
02015	40311	62014	70922	97802
02016	40312	62015	72203A	97803
02017	40313	62016	72302A	97804
02121	40314	62017	72303A	97805
02122	40315	62018	72402A	97807
02132	40316	62019	72503A	97808
02133	40317	62020	72601	97809
02134	40318	62021	72701	97810
02141	40319	62022	73101	97811
02142	40320	62023	73102	97812
02143	40321	62024	73103	97841
02611	40322	62025	75151	97842
02612	40323	62026	90701	97843
02613	43401	62027	90702	97844
03171	43402	62028	90703	97845
03172	43403	62029	90704	97846
03173	43404	62030	90705	97847
03770	43405	62101	90706	97848
08005	43406	62102	90707	97851
08006	43407	62103	90708	97852
08011	43408	62104	90711	97853
08015	43409	62105	90712	97854
09010	43410	62106	90713	97855
09011	43411	62107	90714	97856
09012	43412	62108	90731	FF0101
09018	47222	62109	90731-B	FF0102
09020	47223	62110	90732	FF0103
09022	47224	62111	90732-B	FF0201
09024	47225	62112	90733	FF0202
09028	47301	62113	90733-B	FF0203
09031	47304	62114	90734	FH0501
09032	47323	62115	90741	FH0502
09033	47403	62116	90741-B	FH0503
09035	51002	62117	90742	FH0504
09036	51003	62118	90742-B	HF0201V
09037	51004	62119	90756	HF0204
09038	51050	62120	90757	HF0204C
09039	59431	62401	90758	HF0205
09045	59432	62402	90759	HF0207
09046	59433	62403	90760	HF0411
09049	59434	62404	90761	HF0412
09050	59435	62405	90763	HF0901
09051	59436	62406	90764	SF0201
09052	59437	62407	91301	SF0404
09053	59438	62408	91302	SF0501
09055	59439	62420	91303	SF0713
09047	59440	62421	91324	SF0714
09048	59441	62422	91325	SF0715
09100	59451	62423	91326	SF0716
09133	59452	62424	91346	
09213	59455	62425	91347	
09301	59460	62426	91371	
09501	59461	62427	91372	
09503	59477	70101	92361	
09505	59511	70102	92362	
09506	59513	70112	92363	
09511	59516	70121	93421	
09512	59517	70122	93423	
09522	59521	70201	93465	
09526	59523	70202	93502B	
09527	59524	70203	93503B	
09528	59531	70212	93504B	
09529	59532	70221	93505B	
09530	59541	70222	93506B	
09532	59551	70223	93507B	
09533	59552	70301	93508B	
09705	59553	70302	93509B	
09707	59554	70303	95103	

## Lifetime Warranty

### Lifetime Warranty

All **SATA** products may be repaired free of charge or replaced in the event of functional problems arising during normal service, except those with the "Non-lifetime warranty" or "Warranty period" specifically indicated on the package or on the sample data and in the circumstances described in Part II below, "Non-free repair or replacement range". Please refer to the information on the package for the warranty terms. This commitment is unlimited in time.

### Non-free repair or replacement range

Non-SATA **SATA** branded products.

Wear beyond the service life of tools.

Products with the "Non-lifetime warranty" or "Warranty period" marked on the product package or on the catalog.

The product cannot be used due to abnormal operation. Abnormal operation includes man-made damage, operation without following precautions, operation exceeding tool application, etc.

The user has machined the product, or replaced the accessories by himself, or accessories have been lost or incomplete.

Products are subjected to rust, plating peeling, surface scratches or plastic handle damage after use that does not affect the product function.

Product packaging materials (such as cartons, shelves, plastic cases, paper cards, etc.) were damaged during use.

### How to repair or replace products

For products within the scope of repairing free of charge or replacement, users can repair them for free or replace them after filling in the product warranty card at the nearest designated sales point of any **SATA** product without any voucher.

It is stipulated that free product replacement shall come after free product repair in view of the above-mentioned term of repair & replacement.

In case of any spare parts or products out of stock, SATA will send them by post to the designated sales point.

For products that are not subjected to repair free of charge, the designated sales point will provide paid service for parts replacement.

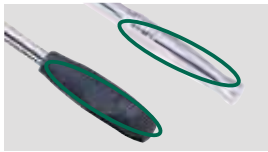
### Service Consulting

If you have any question about warranty terms for **SATA** products, or if you are not satisfied with the service provided by designated sales shop, please contact SATA Tool (Shanghai) Co., Ltd.: (021) 60611919 or 400 820 3885, 800 820 3885.

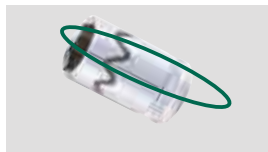
### Power of Interpretation

These Terms shall be interpreted by SATA Tools (Shanghai) Co., Ltd.

### ⚠ Use tools correctly The following picture shows the improper use of the tool:



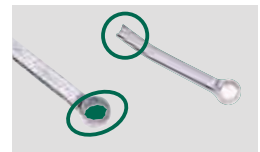
Significant indentation or plating removal on the handle of a ratchet wrench indicates that the handle has been knocked improperly with a hammer or used with an extended handle (long socket). Larger ratcheting wrenches should be adopted to increase torque.



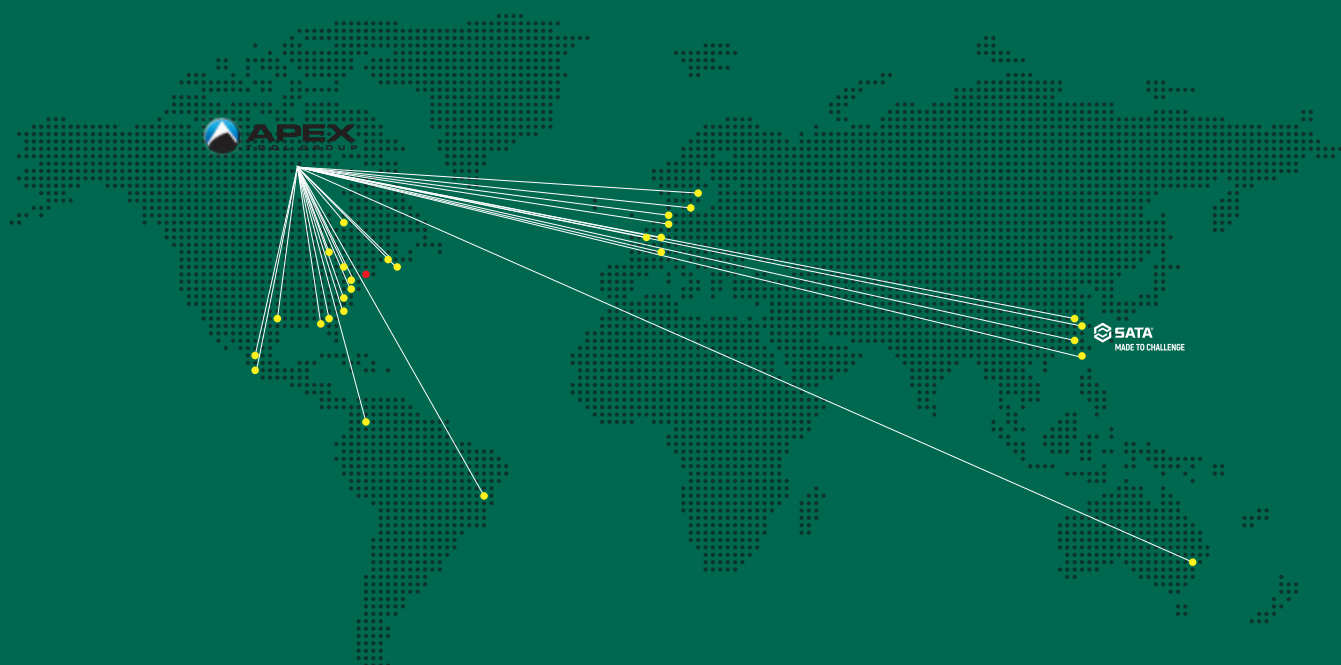
The square hole of the socket has obvious damage and skidding, or the wall of the socket has obvious cracks, indicating that it has been used on the pneumatic tools. Pneumatic series sockets shall be selected for pneumatic operation, the appearance of which is generally black.



The screwdriver handle is cracked or the chunk is twisted, indicating that it has been struck or used as a pry bar. Pry bar tools shall be selected for prying operation.



The combination wrench is bent or broken, indicating that it has been struck or used as a pry bar. Pry bar tools shall be selected for prying operation.



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