



2025~2026

Assembly & Fastening Tools Catalog
Material Removal Tools Catalog



www.kemptools.com



Bespoke industrial tools.

Brand Introduction

The professional team of KEMP Tools Industrial Co., Ltd. with decades of experience in the industrial tool application, from marketing business, marketing planning, application analysis, research design, engineering technology, manufacturing, and so on.

Each KEMP product is produced by KEMP System model. Through market analysis, design verification, engineering verification, all products from KEMP manufacturing with full-fledged test and inspected .

We focus on feedback from the application market after sale. It is our ultimate goal and responsibility to listening to the client's advice and to satisfy their needs. Analysis of information exact, keep upgrade products, functional transformations and customized services.

The most confusing thing in the industrial market is how to choose suitable product. We have many years of sales and application experience. Our customer support services in selecting and providing products and suggestions that are most in line with industry applications.

In the future of Industry 4.0 and 5G era, we will continue to develop supporting applications for the intelligent digital and mechanical automation products required. Provided to customers perfect solutions .

KEMP 肯普

Keep Reliable Kemp team provide 3 reliable elements to the customers:

Enhance Reliable enhance service - Professional team with localization service. Service quality in all regions of the country. Guaranteed for Pre-sales & After-sales.

Manufacture Reliable manufacture quality - Years of international brands OEM. Excellent performance and Outstanding quality. Guaranteed for Brilliant Quality.

Performance Reliable performance on value - The Brands of EU,USA & JPN all were produced by the same factory. The same products and affordable price. Good value for the money and guaranteed.



KEMP 肯普

Bespoke industrial tools.

Brand Positioning

Target In Industrial Tools.

KEMP will direct to customer demand for industrial manufacturing and assembly lines, Provide optimized products and developed high-quality tools for industrial manufacturing.

Relevant industry

Transportation: automobile, heavy truck, railroad car, motorcycle, aerospace, shipbuilding

3C product & Appliance electronics: home appliances, electronic components, 3C products

Metal manufacturing: stainless steel processing, casting, steel structure, pipes, steel manufacturing

Furniture decoration: furniture, accessories, artwork

Energy industry: electric power, hydroelectricity, marine engineering, nuclear energy assembly and maintenance, etc.

Applied field

Assembly & Fastening Tools , Material Removal Tools.

Brand spirit

Our story is very simple. We provide industrial tools.

In fact, we provide your industrial tools. It is not particularly hard to do.

All you need is profound expertise in the industry.

Knowledge of how to deliver quality and performance effectively.

And the ability to understand what each user really wants. The rest takes care of itself.

We have strong distribution networks.

And the products that you really want. How you want them.

And that's why KEMP should be your first choice.

KEMP - Bespoke industrial tools.



Recommendations and Descriptions for Bolt Grade and Torque Value

This list shows the most common bolt sizes, grades and the recommended maximum tightening torque values. Torque is important to ensure the clamping force required for the bolt, the suggested bolt grade and torque value from the list that just a proposed values.

It should refer to new standard bolts (no coating, no lubrication) are used as tightening conditions and only for reference, comparison, guidance.

There are many factors that can affect tension and torque, such as: human operation, new and old bolts, surface roughness, lubrication conditions...etc.

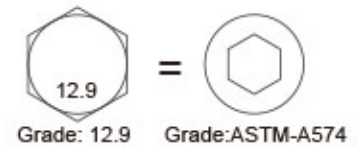
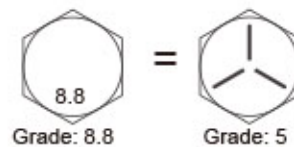
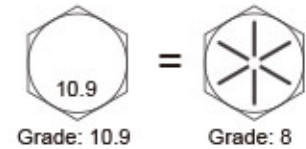
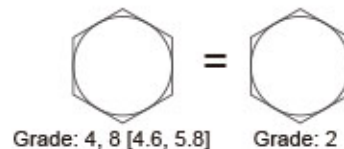
Therefore, after confirming the bolts and assembly conditions thru actual station, the correct matching torque can be obtained by actual tests.

Please kindly contact with KEMP's nearest distributor for assistance with torque and mold selection accordingly.

ISO898 / DIN267 standard

List: 3.6/ 4.6/ 4.8/ 5.8/ 8.8 / 10.9 / 12.9

Bolt Grade - metric unit M1.6-M48



ISO898 / DIN267		3.6	4.6	4.8	5.8	8.8	10.9	12.9
Bolt Size	Socket Size	Torque Nm						
M1.6	-	0.05	0.065	0.086	0.11	0.17	0.24	0.29
M2	-	0.10	0.13	0.17	0.22	0.35	0.49	0.58
M2.2	-	0.13	0.17	0.23	0.29	0.46	0.64	0.77
M2.5	-	0.20	0.26	0.35	0.44	0.70	0.98	1.20
M3	-	0.35	0.46	0.61	0.77	1.20	1.70	2.10
M3.5	-	0.55	0.73	0.97	1.20	1.90	2.70	3.30
M4	7	0.81	1.10	1.4	1.80	2.90	4.00	4.90
M5	8	0.60	2.20	2.95	3.60	5.70	8.10	9.70
M6	10	2.80	3.70	4.9	6.10	9.80	14	17
M8	13	7.00	8.90	10.5	15	24	33	40
M10	17	14	17	21	29	47	65	79
M12	19	24	30	36	51	81	114	136
M14	22	39	48	58	80	128	181	217
M16	24	59	74	88	123	197	277	333
M18	27	81	103	121	172	275	386	463
M20	30	115	144	170	240	385	541	649
M22	32	155	194	230	324	518	728	874
M24	36	265	249	295	416	665	935	1120
M27	41	295	360	435	600	961	1350	1620
M30	46	395	492	590	819	1310	1840	2210
M33	50	540	720	960	1200	1900	2700	3250
M36	55	690	855	1030	1420	2280	3210	3850
M39	60	920	1200	1600	2000	3200	4500	5400
M42	65	1100	1360	1950	2270	3640	5110	6140
M45	70	1400	1690	2450	2820	4510	6340	7610
M48	75	1700	2040	3000	3400	5450	7660	9190

Bolt & Screw Tightening Tools

Wireless Torque Transducer & Controller

P1~5

Oil Pulse Tools

P6~22

Custom-Made Oil Pulse Tools

P23~26

Air Tubenut Tools

P27~30

Electric Screwdriver

P31~37

Air Nutrunner

P38~39

Air Screwdriver

P40~43

Air Impact Wrench

P45~49

Cordless Impact Wrench & Acc.

P50~52

Air Ratchet Wrench

P53~55



Manual Torque Tools

Adjustable Torque Wrench

P56~59

Preset Torque Wrench

P60

Digital Torque Wrench

P61~63

Wireless Digital Torque Wrench

P64~65

Interchangeable Insert Tools Square End

P66~68

Adjustable Torque Screwdriver

P69

Torque Multiplier

P69



Engineered Fastening Tools

Air Hydraulic Rivet Nuts Installation Tools

P70~72

Air Hydraulic Blind Rivets Installation Tools

P73~74

Air Rivet Shaver

P74

Air Rivet Hammer

P75~77



Finishing Tools

Air Random Orbital Sander	P78~89
Air Orbital Sander	P90
Air Disc Sander	P91
Air Polisher	P92~93
Air Belt Sander	P94~96



Grinding Tools

Air Angle Grinder	P97~98
Air Straight Grinder	P99
Air Micro Die Grinder	P100
Air Straight Die Grinder	P101
Air Right Angle Die Grinder	P102
Air Extended Die Grinder	P103



Material Removal Tools

Air Drill	P104~107
Air Cut Off Tools	P108
Air Saw	P109
Air File	P110



Percussive Tools

Air Engraver	P110
Air Hammer	P112
Air Chipping Hammer	P113
Air Chisel Scaler	P114
Air Needle Scaler	P115~P116
Air Long Reach Scraper	P117





Assembly & Fastening Tools Catalog



KEMP 肯普 Intelligence system

We combining assembly tightening tools with KEMP's intelligent system products, and then upgrade to fastening tools with intelligent control, data recording and real-time monitoring.

Application : Upgrade general electric / air / hand tools with function below.

- **Fastening programming:**
With Fastening programming management, can set the function for fastening quantity, sequence and cycle.
- **Fastening process:**
Display on mobile phone, tablet, computer through software, with real-time monitoring, data display, visual prompt, and buzzer warning.
- **Fastening result:**
Various information records, date and time, station number, torque angle, torque curve, data transmission and management traceability after fastening.
- **Fastening QC:**
Can be used as quality inspection application torque detection, angle detection, data analysis.

Software & APP installation

android  Android system: Smart phone, Tablet

Windows  Microsoft system: Tablet, Laptop, Desktop computer

Hardware Recommendations: CPU quad core · Ram 4GB at least

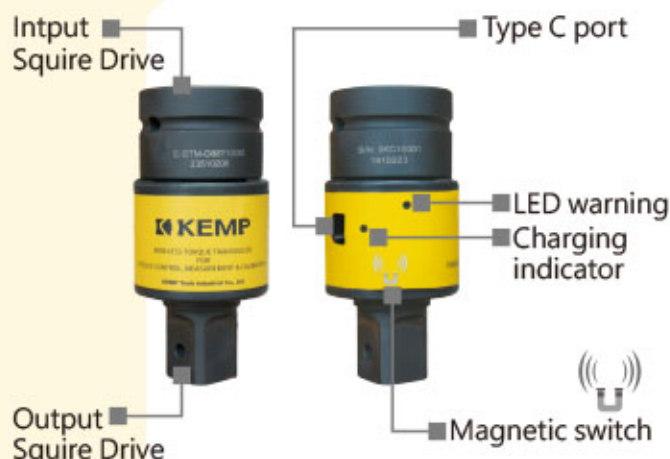


Wireless Torque Transducer

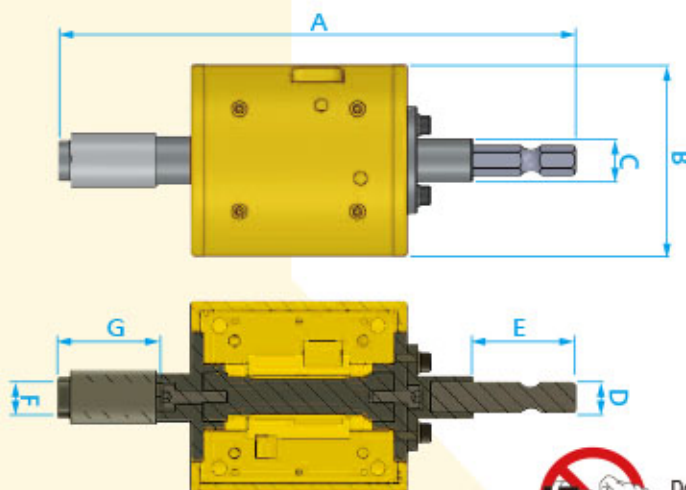
- Versatile operation modes for option: Oil pulse Tools, Shut-off type Clutch, Torque multiplier, Click Torque Wrench
 - Signal according to: Torque, Angle
 - RF Frequency band: 60 frequency band used with the E-BTM-C Torque Controller.
 - Torque Transducer self-monitoring (electric+transmitting+torque+angle+usage count)
 - On & off Reed switch (magnetic on/off) .Auto off when non transmitting torque 5min up.
 - Software installation: Support Software & APP on Android & Microsoft. Torque curve display on Microsoft only.
- 

- LED signal light [Blue Light on: RF ok / Blue- flicker:system initialize] [Orange on:Low battery / Orange- flicker>Error] [Red Light on:charging] [Green Light on:charge complete]
 - WARNING: The dynamic wireless transducer will rotate during operation. Do not holding the transducer when operating to avoid accidental injury due to Incorrect operation.
 - Warranty One year with use correctly and under maximum torque limit specified, Within dynamic 200,000 cycles or static 500,000 cycles. (Built-in record for usage time and count)

Torque	0.5~2500Nm
Power	DC3.7V / 650 mAh
Torque Resolution (Nm)	0.1% T nom
Accuracy (CW)	± 1%
Accuracy (CCW)	± 2%
Static Measured Angle Range	0°~360°
Angle Resolution (Degree)	0.5°
Charger	Type-C 5V 0.5A
IO(1)	USB Type-C *1
IO(2)Wireless(1)	RF 2.4G transmitting(20M)
Storage Temperature (°C)	-10°C ~ 60°C
Operating Humidity	10...75% , Non-condensing



S Series



E-BTM-S Series for ele. & air screwdriver

Model	Static Torque Range (Nm)	Dynamic Torque Range (Nm)	Size							Weight (kg)	Item No.
			A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)		
E-BTM-S22T5	0.5~5	0.5~4	121	45	10	6.35	24	6.65	24	0.15	235 10 101
E-BTM-S22T10	1~10	1~8	121	45	10	6.35	24	6.65	24	0.15	235 10 102
E-BTM-S22T20	2~20	2~16	121	45	10	6.35	24	6.65	24	0.15	235 10 103

E-BTM-S Ser. for Static Tightening only.

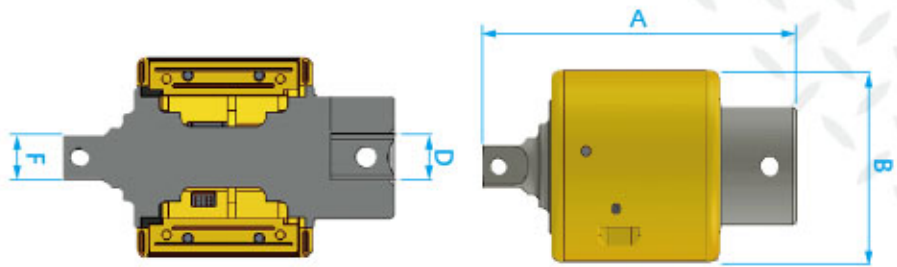
Included accessories: 1x Magnetic(on/off switch) • 1x Type-C USB cable

D&M Series



E-BTM-D

E-BTM-M



Do not grab housing while operating

E-BTM-D Series for ele. & air wrench

Model	Dynamic Torque Range (Nm)	Size				Weight (kg)	Item No.
		A (mm)	B (mm)	D (inch)	F (inch)		
E-BTM-D33T20	2~16	83	45	3/8"	3/8"	0.18	235 10 201
E-BTM-D33T50	5~40	83	45	3/8"	3/8"	0.20	235 10 202
E-BTM-D34T100	10~80	89	45	3/8"	1/2"	0.21	235 10 203
E-BTM-D44T180	18~145	97	45	1/2"	1/2"	0.26	235 10 204
E-BTM-D44T250	25~200	97	45	1/2"	1/2"	0.35	235 10 205
E-BTM-D46T500	50~400	114	57	1/2"	3/4"	0.70	235 10 206
E-BTM-D66T750	75~600	114	57	3/4"	3/4"	0.75	235 10 212
E-BTM-D88T1000	100~800	127	57	1"	1"	0.85	235 10 208
E-BTM-D88T1500	150~1200	134	57	1"	1"	0.95	235 10 209
E-BTM-D89T2000	200~1600	144	57	1"	1-1/2"	1.14	235 10 210
E-BTM-D99T3000	300~2400	166	86	1-1/2"	1-1/2"	3.8	235 10 214

E-BTM-D for Dynamic Tightening only.

Included accessories: 1x Magnetic(on/off switch) • 1x Type-C USB cable • 2 x O ring • 2 x Plastic dowel • 1 x Protection Cover

E-BTM-M Series for Manual Torque Tools

Model	Static Torque Range (Nm)	Size				Weight (kg)	Item No.
		A (mm)	B (mm)	D (inch)	F (inch)		
E-BTM-M33T20	2~20	83	45	3/8"	3/8"	0.18	235 10 301
E-BTM-M33T50	5~50	83	45	3/8"	3/8"	0.20	235 10 302
E-BTM-M34T100	10~100	90	45	3/8"	1/2"	0.21	235 10 303
E-BTM-M44T180	18~180	97	45	1/2"	1/2"	0.26	235 10 304
E-BTM-M46T250	25~250	104	45	1/2"	3/4"	0.35	235 10 305
E-BTM-M66T500	50~500	114	57	3/4"	3/4"	0.55	235 10 306
E-BTM-M68T750	75~750	114	57	3/4"	1"	0.75	235 10 307
E-BTM-M88T1000	100~1000	127	57	1"	1"	0.85	235 10 308
E-BTM-M88T1500	150~1500	134	57	1"	1"	0.95	235 10 309
E-BTM-M89T2000	200~2000	144	57	1"	1-1/2"	1.14	235 10 310
E-BTM-M99T3000	300~3000	166	86	1-1/2"	1-1/2"	3.8	235 10 311

E-BTM-M for Static Tightening and angular displacement detection.

Included accessories: 1x Magnetic(on/off switch) • 1x Type-C USB cable • 2 x O ring • 2 x Plastic dowel • 1 x Protection Cover

Wireless Torque Controller

■ Versatile tools support:

Dynamic Tightening: Oil pulse Tools, Shut-off type Clutch, Torque multiplier, Click Torque Wrench

Static Tightening: Torque wrench, Click Torque Wrench, Torque multiplier

■ Multiple control methods: **Dynamic Tightening:** 1.Torque 2.Track

Static Tightening: 1.Torque 2.Click Torque Monitor 3.Click Torque Track 4.Monitor

■ Signal 1.Wireless transducer 2.Air pressure mode

■ Torque adjustment 1.Deviation value corrected 2.Override value corrected

■ Torque range verify: Easy set-up in minutes

■ Torque Control Methods Set up torque control range

■ Automatic air consumption rate measurement and selection for the broadest torque control range

■ Built-in preset parameters and job sequences up for the ease of assembly works

(Suggest Air inlet 90~110psi)

■ Built-in torque fastening stage & bolting sequence control.

■ Number of bolts: Preset the number of bolts to be fastened. Only when all bolts of each stage fastened, the system will switch to next stage and regulate the air pressure and flow rate correspondingly >and automatically

■ Torque Compensation: The system will compensate the torque loss that may caused by the variation in the bolted joint hardness or the rise in temperature of hydraulic fluid of pulse wrench or the posture of operator to hold the tools during the process automatically within its allowable working air pressure range.

■ Monitoring: Functions with VNC remote configuration or monitoring with PC, smart phone or tablet through Mobile APP are optional upon request

■ Supervisor operator: Functions are restricted by privilege rating. Also record log in code and using time.

■ Dynamic torque controllable accuracy:± 5% ~ ±15%

■ Tool database: 10 set parameter for each tool category

■ Productive database: 10 set parameter for productive

■ Operation records traceable through USB, Ethernet or exported to the cloud server through wired or wireless connections.



Item		E-BTM-C	
Model		E-BTM-C1000	E-BTM-C2000
Max. Flow Rate		1000L/min	2000L/min
Panel Size		10"	
Power Source		AC 110V~220V /2A	
Wire connector	USB	1	
	RS232	2	
	RJ45	1	
Wireless	RF2.4G	2	
Speaker		1	
Light Tower Output Port		1	
Buzzer		80 dB	
Transducer Charger Port		2	
RF Antenna		2	
Flow Rate Detection		V	
Stage control		V	
Fastening programming		V	
Control Accuracy	Static Torque (%)	±1%~±5%	
	Dynamic Torque (%)	±5%~±15%	
Thread Size	Inlet	3/8" NPT	1/2" NPT
	Outlet	3/8" NPT	1/2" NPT
Dimensions	Length	370 mm	
	Width	214 mm	
	High	266 mm	
Weight		10.5±0.5kg	
Item No.		335 10 110	335 10 120

Aluminum alloy body min. air pressure 80psi to max. air pressure 110psi .

Included accessories:

2 x Antenna • 1 x Motor Cable • 1 x FRL(Filter Regulator+Lubricator) • 1 x 1/2"air-intake pipe • 1 x 1/2"Air inlet coupler

※ Note: Recommended min. air pressure of the torque controller is 80psi=0.54bar, which should not be lower than the pressure to avoid affect product functions and abnormalities.

Acc.



E-BTM-N14
 CCD Type 2000mAh
 Bluetooth Wireless
 Scanner

Item No.
336 10 214

Voltage:	5V DC
Battery:	Lithium 3.7V/2000mAh/4.63Wh
Support :	Bluetooth 、 USB



E-BTM-L20
 Dongle

Item No.
336 10 120

Port :	USB2.0
Support :	Android 7 / WinXP/7/8/8.1/10



E-BTM-N15
 CCD Type2000mAh
 RF2.4G Wireless
 Scanner
 (For Controller only)

Item No.
336 10 215

Voltage:	5V DC
Battery:	Lithium 3.7V/2000mAh/4.63Wh
Support :	RF2.4G Wireless 、 USB

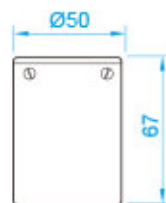


E-BTM-L11
 Tri-Color
 Warning Light

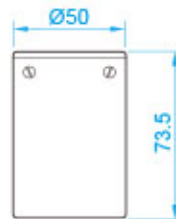
Item No.
336 10 711

Voltage:	24VAC/DC
Features:	Rotating, lighting, flashing, buzzing
Light color:	4Color -Red 、 Orange 、 Green 、 Blue

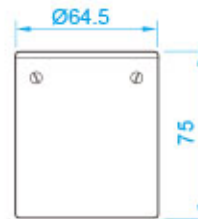
E-BTM Protection Cover



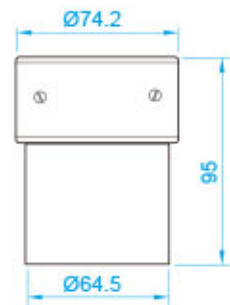
E-BTM-R01



E-BTM-R02



E-BTM-R03



E-BTM-R04

Model	Drive Size(Square)	Torque Range	Item No.
	inch	Nm	
E-BTM-R01	3/8	20/50/100	336 10 801
E-BTM-R02	1/2	180/250	336 10 802
E-BTM-R03	3/4	500/750	336 10 803
E-BTM-R04	1	1000/1500/2000	336 10 804

KEMP Oil Pulse Tools

KEMP create high precision Oil Pulse tools for industry and assembly market. For the best solution for our client, we have designed and invention patents to improved the long-life and quality. Our products are customized for the client's business and needs.

Automatic relief-pressure device(Patent)

The two-way relief-pressure device greatly improves the smoothness. Inside oil pulse system , the oil will pass through from high to low pressure zone. Automatically adjusts the oil area, thus Improve tightening efficiency and torque stability.

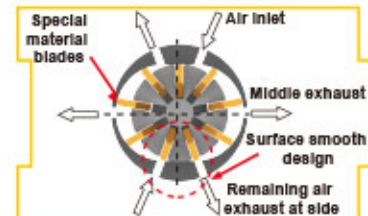


Special coating blade-with self-lubricating (graphite includedd)

Special coating blades with self-lubricating and high accuracy grinding of the cylinder body. Reduces the friction coefficient and depletion of parts.

Kemp's special coated blades have graphite lubrication, the lower roughness on surface brings better running speed and smoother. Chamfering for all blades finishing.

Improve the motor performance more precisely.



The grip is ergonomic.

There are more spaces for fingers. Feel more comfortable when grip.

Low noise device

Low noise device can be friendly for operator and environment.

Variable switch

Variable switch make easier and more efficient for operator



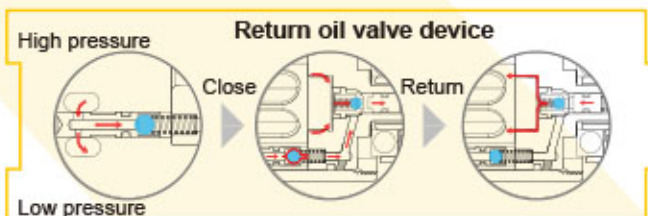
X type sealing ring seal (Patent)

Patent design with highly sealing and highly durable. Pulse unit have dozens of times pulsels per second under high pressure environmen t. This is a big challenge for pulse unit's sealing . We already have accumulated technology and researched for many years. The new developed X-type sealing ring have excellent effect of sealing and long life.

Piston return oil valve device(Patent)

New Return oil valve- fast return oil system can reach more accurately repetitive torque .

It can effectively solve torque error in each tightening process and greatly improving torque accuracy.





Oil Pulse Tools Type

Pistol



Shut-off



Non Shut-off

Straight



Shut-off



Non Shut-off

Model Nomenclature

A - B O P - T 3 1 - R 4 8 T 1 6

A: Air Tools

B: Bolt & Screw Tightening Tools

O: Oil Pulse Tools

Handle Type:

A: Angle • **B:** Bent • **P:** Pistol • **S:** Straight
L: L Type Straight with angle head • **T:** T Handle
Z: Z Type bending with angle head

T: Torque(Nm)

R: Free Speed(rpm)

1~9: Ordinal

Output Drive Size:

0: Special or Other Size • **1:** 4mm
2: 1/4" • **3:** 3/8" • **4:** 1/2" • **6:** 3/4" • **8:** 1"

T: shut-off • **N:** Non shut-off

A-BOP-T31-R46T12 3/8" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/8
Torque Range	Nm	4-12
Free Speed	rpm	4600
Length	mm	160.5
Weight	kg	0.92
Air Consumption	l/s	3.33
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 127

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 2x Ring Hanger
1x Rubber cover for Tool

A-BOP-T31-R48T16 3/8" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/8
Torque Range	Nm	9-19
Free Speed	rpm	5100
Length	mm	160.5
Weight	kg	0.92
Air Consumption	l/s	4.17
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 100

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 2x Ring Hanger
1x Rubber cover for Tool

A-BOP-T31-R60T32 3/8" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/8
Torque Range	Nm	24-38
Free Speed	rpm	6500
Length	mm	170
Weight	kg	0.95
Air Consumption	l/s	5.8
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 101

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 2x Ring Hanger
1x Rubber cover for Tool

A-BOP-T31-R58T50 3/8" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/8
Torque Range	Nm	35-53
Free Speed	rpm	6300
Length	mm	183
Weight	kg	1.05
Air Consumption	l/s	6.61
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 102

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 2x Ring Hanger
1x Rubber cover for Tool

A-BOP-T31-R60T60 3/8" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	3/8
Torque Range	Nm	42-60
Free Speed	rpm	6000
Length	mm	187
Weight	kg	1.25
Air Consumption	l/s	7.93
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 103

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 2x Ring Hanger
1x Rubber cover for Tool

A-BOP-T41-R48T85 1/2" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	1/2
Torque Range	Nm	50-85
Free Speed	rpm	5300
Length	mm	192
Weight	kg	1.45
Air Consumption	l/s	8.78
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 104

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 2x Ring Hanger
1x Rubber cover for Tool

A-BOP-T41-R45T125 1/2" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	1/2
Torque Range	Nm	65-110
Free Speed	rpm	4800
Length	mm	198
Weight	kg	1.7
Air Consumption	l/s	9.11
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 105

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 2x Ring Hanger
1x Rubber cover for Tool

A-BOP-T41-R38T145 1/2" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	1/2
Torque Range	Nm	110-155
Free Speed	rpm	4600
Length	mm	215
Weight	kg	2.3
Air Consumption	l/s	11.61
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 106

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 2mm Adjust Key
1x 4mm Hex. Key • 2x Ring Hanger
1x Rubber cover for Tool

A-BOP-T61-R34T205 3/4" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/4
Torque Range	Nm	130-210
Free Speed	rpm	3900
Length	mm	243.5
Weight	kg	2.9
Air Consumption	l/s	11.61
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 107

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

- 1x 1/4" Coupler • 1x 2mm Adjust Key
- 1x 4mm Hex. Key • 2x Ring Hanger
- 1x Rubber cover for Tool

A-BOP-T61-R32T245 3/4" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/4
Torque Range	Nm	170-270
Free Speed	rpm	3200
Length	mm	262
Weight	kg	3.7
Air Consumption	l/s	11.61
Air Inlet Size	inch	3/8
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	90
Item No.		101 31 108

Features & benefits:

- Automatic pressure relief function
- X type sealing ring seal
- Double cylinder rotor
- Accuracy of return oil valve device

Included accessories:

- 1x 3/8" Coupler • 1x 2mm Adjust Key
- 1x 4mm Hex. Key • 2x Ring Hanger
- 1x Rubber cover for Tool

A-BOP-T61-R33T450 3/4" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/4
Torque Range	Nm	225-450
Free Speed	rpm	3300
Length	mm	221
Weight	kg	4.2
Air Consumption	l/s	23.5
Air Inlet Size	inch	3/8
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	90
Item No.		101 31 109

Features & benefits:

- X type sealing ring seal

Included accessories:

- 1x 3/8" Coupler • 1x Slotted key
- 2x Ring Hanger
- 1x Rubber cover for Tool

A-BOP-T21-R46T112Q 1/4" Hex. Air Oil Pulse Tools

Drive Size(Hex.)	inch	1/4
Torque Range	Nm	4-12
Free Speed	rpm	4600
Length	mm	161
Weight	kg	0.92
Air Consumption	l/s	3.33
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 128

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 2x Ring Hanger
1x Rubber cover for Tool

A-BOP-T21-R48T16Q 1/4" Hex. Air Oil Pulse Tools

Drive Size(Hex.)	inch	1/4
Torque Range	Nm	8-18
Free Speed	rpm	5100
Length	mm	161
Weight	kg	0.92
Air Consumption	l/s	4.15
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 110

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 2x Ring Hanger
1x Rubber cover for Tool

A-BOP-T21-R60T28Q 1/4" Hex. Air Oil Pulse Tools

Drive Size(Hex.)	inch	1/4
Torque Range	Nm	21-34
Free Speed	rpm	6400
Length	mm	171
Weight	kg	0.95
Air Consumption	l/s	5.8
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 111

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 2x Ring Hanger
1x Rubber cover for Tool

A-BOP-T21-R58T32Q 1/4" Hex. Air Oil Pulse Tools

Drive Size(Hex.)	inch	1/4
Torque Range	Nm	28-39
Free Speed	rpm	6300
Length	mm	183
Weight	kg	1.05
Air Consumption	l/s	6.61
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 112

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 2x Ring Hanger
1x Rubber cover for Tool

A-BOP-T21-R68T42Q 1/4" Hex. Air Oil Pulse Tools

Drive Size(Hex.)	inch	1/4
Torque Range	Nm	38-47
Free Speed	rpm	6000
Length	mm	191
Weight	kg	1.26
Air Consumption	l/s	7.93
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 113

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 2x Ring Hanger
1x Rubber cover for Tool

A-BOS-T31-R55T12 3/8" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/8
Torque Range	Nm	4-12
Free Speed	rpm	5500
Length	mm	218
Weight	kg	0.83
Air Consumption	l/s	3.33
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 129

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-T31-R50T16 3/8" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/8
Torque Range	Nm	9-19
Free Speed	rpm	6500
Length	mm	218
Weight	kg	0.83
Air Consumption	l/s	4.15
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 114

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-T31-R60T32 3/8" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/8
Torque Range	Nm	24-38
Free Speed	rpm	6300
Length	mm	228
Weight	kg	0.87
Air Consumption	l/s	4.96
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 115

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-T31-R58T50 3/8" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/8
Torque Range	Nm	35-50
Free Speed	rpm	5900
Length	mm	240.5
Weight	kg	0.95
Air Consumption	l/s	5.83
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 116

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-T31-R60T60 3/8" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/8
Torque Range	Nm	41-61
Free Speed	rpm	6300
Length	mm	246.5
Weight	kg	1.2
Air Consumption	l/s	8
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 117

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-T21-R40T9Q 1/4" Hex. Air Oil Pulse Tools

Drive Size(Hex.)	inch	1/4
Torque Range	Nm	4-12
Free Speed	rpm	5500
Length	mm	220.5
Weight	kg	0.83
Air Consumption	l/s	3.3
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 118

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-T21-R50T16Q 1/4" Hex. Air Oil Pulse Tools

Drive Size(Hex.)	inch	1/4
Torque Range	Nm	8-18
Free Speed	rpm	6500
Length	mm	220.5
Weight	kg	0.83
Air Consumption	l/s	4.15
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 119

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-T21-R60T28Q 1/4" Hex. Air Oil Pulse Tools

Drive Size(Hex.)	inch	1/4
Torque Range	Nm	21-34
Free Speed	rpm	6300
Length	mm	230.5
Weight	kg	0.87
Air Consumption	l/s	4.96
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 120

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-T21-R58T32Q 1/4" Hex. Air Oil Pulse Tools

Drive Size(Hex.)	inch	1/4
Torque Range	Nm	28-39
Free Speed	rpm	5900
Length	mm	240.5
Weight	kg	0.95
Air Consumption	l/s	6.61
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 121

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOA-T31-R47T15 3/8" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	3/8
Torque Range	Nm	6-15
Free Speed	rpm	6000
Length	mm	258
Weight	kg	1.28
Air Consumption	l/s	4.15
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	ps	90
Item No.		101 31 122

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4"Coupler • 1x 1.5 Adjust Key
1x Adjust Key • 1x Ring Hanger

A-BOA-T31-R58T28 3/8" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	3/8
Torque Range	Nm	20-30
Free Speed	rpm	6300
Length	mm	270
Weight	kg	1.35
Air Consumption	l/s	4.96
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 123

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4"Coupler • 1x 1.5 Adjust Key
1x Adjust Key • 1x Ring Hanger

A-BOA-T31-R42T45 3/8" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	3/8
Torque Range	Nm	30-48
Free Speed	rpm	4400
Length	mm	289
Weight	kg	1.63
Air Consumption	l/s	5.8
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 124

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4"Coupler • 1x 1.5 Adjust Key
1x Adjust Key • 1x Ring Hanger

A-BOA-T41-R42T50 1/2" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	1/2
Torque Range	Nm	30-50
Free Speed	rpm	3800
Length	mm	289
Weight	kg	1.64
Air Consumption	l/s	5.8
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 125

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4"Coupler • 1x 1.5 Adjust Key
1x Adjust Key • 1x Ring Hanger

A-BOA-T41-R45T68 1/2" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	1/2
Torque Range	Nm	44-62
Free Speed	rpm	3100
Length	mm	295
Weight	kg	2.0
Air Consumption	l/s	5.8
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 126

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Includes:

1x 1/4"Coupler • 1x 1.5 Adjust Key
1x Adjust Key • 1x Ring Hanger

A-BOP-N31-R40T12 3/8" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	3/8
Torque Range	Nm	6-12
Free Speed	rpm	4000
Length	mm	131
Weight	kg	0.7
Air Consumption	l/s	4
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 228

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

- 1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger
1x Rubber cover for Tool

A-BOP-N31-R40T22 3/8" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	3/8
Torque Range	Nm	13-22
Free Speed	rpm	4000
Length	mm	131
Weight	kg	0.7
Air Consumption	l/s	4
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 229

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

- 1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger
1x Rubber cover for Tool

A-BOP-N31-R70T35 3/8" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	3/8
Torque Range	Nm	32-45
Free Speed	rpm	6100
Length	mm	134
Weight	kg	0.77
Air Consumption	l/s	4.17
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 200

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

- 1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger
1x Rubber cover for Tool

A-BOP-N31-R65T50 3/8" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	3/8
Torque Range	Nm	46-60
Free Speed	rpm	6800
Length	mm	141
Weight	kg	0.82
Air Consumption	l/s	6.67
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 201

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

- 1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger
1x Rubber cover for Tool

A-BOP-N31-R60T60 3/8" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/8
Torque Range	Nm	58-76
Free Speed	rpm	6700
Length	mm	155
Weight	kg	0.95
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 202

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger
1x Rubber cover for Tool

A-BOP-N31-R56T70 3/8" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/8
Torque Range	Nm	65-95
Free Speed	rpm	6100
Length	mm	161.5
Weight	kg	1.15
Air Consumption	l/s	8
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 203

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 2x Ring Hanger
1x Rubber cover for Tool

A-BOP-N41-R52T100 1/2" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	1/2
Torque Range	Nm	100-120
Free Speed	rpm	5900
Length	mm	165
Weight	kg	1.3
Air Consumption	l/s	8.78
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 204

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 2x Ring Hanger
1x Rubber cover for Tool

A-BOP-N41-R46T125 1/2" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	1/2
Torque Range	Nm	125-145
Free Speed	rpm	4900
Length	mm	172
Weight	kg	1.66
Air Consumption	l/s	9.67
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 205

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 2x Ring Hanger
1x Rubber cover for Tool

A-BOP-N41-R40T155 1/2" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	1/2
Torque Range	Nm	120-165
Free Speed	rpm	4500
Length	mm	185
Weight	kg	2.3
Air Consumption	l/s	10.83
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 206

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 2mm Adjust Key
 1x 4mm Hex. Key • 2x Ring Hanger
 1x Rubber cover for Tool

A-BOP-N61-R34T230 3/4" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	3/4
Torque Range	Nm	200-270
Free Speed	rpm	4000
Length	mm	213.5
Weight	kg	2.5
Air Consumption	l/s	11.61
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 207

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 2mm Adjust Key
 1x 4mm Hex. Key • 2x Ring Hanger
 1x Rubber cover for Tool

A-BOP-N61-R32T300 3/4" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	3/4
Torque Range	Nm	230-290
Free Speed	rpm	3300
Length	mm	226.5
Weight	kg	3.0
Air Consumption	l/s	11.61
Air Inlet Size	inch	3/8
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	90
Item No.		101 31 208

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 3/8" Coupler • 1x 2mm Adjust Key
 1x 4mm Hex. Key • 2x Ring Hanger
 1x Rubber cover for Tool

A-BOP-N21-R40T12Q 1/4" Hex. Air Oil Pulse Tools



Drive Size(Hex.)	inch	1/4
Torque Range	Nm	6-12
Free Speed	rpm	4000
Length	mm	131
Weight	kg	0.7
Air Consumption	l/s	4
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.	101 31 230	

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

- 1x 1/4"Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger
1x Rubber cover for Tool

A-BOP-N21-R40T20Q 1/4" Hex. Air Oil Pulse Tools



Drive Size(Hex.)	inch	1/4
Torque Range	Nm	11-20
Free Speed	rpm	4000
Length	mm	131
Weight	kg	0.7
Air Consumption	l/s	4
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.	101 31 231	

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

- 1x 1/4"Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger
1x Rubber cover for Tool

A-BOP-N21-R70T28Q 1/4" Hex. Air Oil Pulse Tools



Drive Size(Hex.)	inch	1/4
Torque Range	Nm	25-35
Free Speed	rpm	6100
Length	mm	134
Weight	kg	0.77
Air Consumption	l/s	4.17
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.	101 31 209	

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

- 1x 1/4"Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger
1x Rubber cover for Tool

A-BOP-N21-R65T35Q 1/4" Hex. Air Oil Pulse Tools



Drive Size(Hex.)	inch	1/4
Torque Range	Nm	35-43
Free Speed	rpm	6800
Length	mm	142
Weight	kg	0.82
Air Consumption	l/s	6.67
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.	101 31 210	

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

- 1x 1/4"Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger
1x Rubber cover for Tool

A-BOP-N21-R60T40Q 1/4" Hex. Air Oil Pulse Tools

Drive Size(Hex.)	inch	1/4
Torque Range	Nm	42-50
Free Speed	rpm	6700
Length	mm	155
Weight	kg	0.95
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 211

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
 1x 4mm Hex. Key • 1x Ring Hanger
 1x Rubber cover for Tool

A-BOP-N21-R68T60Q 1/4" Hex. Air Oil Pulse Tools

Drive Size(Hex.)	inch	1/4
Torque Range	Nm	43-60
Free Speed	rpm	6100
Length	mm	170
Weight	kg	1.18
Air Consumption	l/s	8
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 212

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
 1x 4mm Hex. Key • 1x Ring Hanger
 1x Rubber cover for Tool

A-BOS-N31-R40T22 3/8" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	3/8
Torque Range	Nm	13-22
Free Speed	rpm	4000
Length	mm	218
Weight	kg	0.62
Air Consumption	l/s	4.17
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 232

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-N31-R67T35 3/8" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	3/8
Torque Range	Nm	31-44
Free Speed	rpm	5900
Length	mm	218
Weight	kg	0.74
Air Consumption	l/s	5.83
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 213

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-N31-R65T50 3/8" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	3/8
Torque Range	Nm	42-57
Free Speed	rpm	6000
Length	mm	228
Weight	kg	0.77
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 214

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-N31-R60T60 3/8" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	3/8
Torque Range	Nm	45-65
Free Speed	rpm	6000
Length	mm	240.5
Weight	kg	0.87
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 215

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-N31-R58T70 3/8" Sq. Air Oil Pulse Tools

Drive Size (Square)	inch	3/8
Torque Range	Nm	60-90
Free Speed	rpm	6000
Length	mm	246.5
Weight	kg	1.2
Air Consumption	l/s	8
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 216

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-N21-R60T10Q 1/4" Hex. Air Oil Pulse Tools

Drive Size(Hex.)	inch	1/4
Torque Range	Nm	5-10
Free Speed	rpm	6000
Length	mm	215
Weight	kg	0.62
Air Consumption	l/s	3.83
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 227

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4"Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-N21-R40T20Q 1/4" Hex. Air Oil Pulse Tools

Drive Size(Hex.)	inch	1/4
Torque Range	Nm	15-23
Free Speed	rpm	5500
Length	mm	215
Weight	kg	0.62
Air Consumption	l/s	3.83
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 217

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4"Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-N21-R67T28Q 1/4" Hex. Air Oil Pulse Tools

Drive Size(Hex.)	inch	1/4
Torque Range	Nm	24-33
Free Speed	rpm	5900
Length	mm	217.5
Weight	kg	0.74
Air Consumption	l/s	5.83
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 218

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4"Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-N21-R65T35Q 1/4" Hex. Air Oil Pulse Tools

Drive Size(Hex.)	inch	1/4
Torque Range	Nm	35-42
Free Speed	rpm	6000
Length	mm	230.5
Weight	kg	0.77
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 219

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4"Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOS-N21-R60T40Q 1/4" Hex. Air Oil Pulse Tools

Drive Size(Hex.)	inch	1/4
Torque Range	Nm	40-48
Free Speed	rpm	6000
Length	mm	240.5
Weight	kg	0.87
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 220

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4"Coupler • 1x 1.5mm Adjust Key
1x 4mm Hex. Key • 1x Ring Hanger

A-BOA-N31-R48T20 3/8" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/8
Torque Range	Nm	18-25
Free Speed	rpm	5200
Length	mm	261.5
Weight	kg	1.35
Air Consumption	l/s	6.67
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 221

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5 Adjust Key
1x Adjust Key • 1x Ring Hanger

A-BOA-N31-R60T30 3/8" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/8
Torque Range	Nm	29-37
Free Speed	rpm	6300
Length	mm	269.5
Weight	kg	1.45
Air Consumption	l/s	7.17
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 222

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5 Adjust Key
1x Adjust Key • 1x Ring Hanger

A-BOA-N31-R40T55 3/8" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	3/8
Torque Range	Nm	40-55
Free Speed	rpm	4000
Length	mm	285
Weight	kg	1.6
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 223

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5 Adjust Key
1x Adjust Key • 1x Ring Hanger

A-BOA-N41-R39T58 1/2" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	1/2
Torque Range	Nm	45-60
Free Speed	rpm	4000
Length	mm	285
Weight	kg	1.62
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 224

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5 Adjust Key
1x Adjust Key • 1x Ring Hanger

A-BOA-N41-R32T85 1/2" Sq. Air Oil Pulse Tools



Drive Size (Square)	inch	1/2
Torque Range	Nm	63-90
Free Speed	rpm	3500
Length	mm	305.5
Weight	kg	1.85
Air Consumption	l/s	8.33
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		101 31 225

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5 Adjust Key
1x Adjust Key • 1x Ring Hanger

KEMP Custom-Made Oil Pulse Tools

KEMP close-end geared arm apply to work at special tiny space. It could reach some workpiece that other tools can't.

The Oil Pulse mechanism can reduce reaction force for efficient to the operator.



Socket Type

There are Through hole type, Magnetic type, Extended Magnetic type 3 options for the Socket type.



Through hole type

Through hole type: **Standard**

Hexagon through hole type, assembly retaining ring in socket center.



Magnetic type

Magnetic type: **Customized**

Socket with magnetic type and hexagon on one side. Socket will not protrude geared arm.

Under 10mm



Extended Magnetic type

Extended Magnetic type: **Customized**

Extended socket on Magnetic type. It make the socket protrude geared arm. (The length can be customized, but **the length must under 10mm**)

Model Nomenclature

A - B O Z - N 0 1 - R 4 0 T 3 5

A: Air Tools

B: Bolt & Screw Tightening Tools

O: Oil Pulse Tools

Handle Type:

B: Bent • **L:** L Type Straight with angle head

Z: Z Type bending with angle head

T: Torque(Nm)

R: Free Speed(rpm)

1~9: Ordinal

Output Drive Size:
0: Special or Other Size

N: Non shut-off

A-BOZ-N01-R40T35 Custom-Made Air Oil Pulse Tools



Socket Size	mm	10, 12, 13
Torque Range	Nm	22-35
Free Speed	rpm	4000
Length	mm	358
Weight	kg	2.0
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 700

Included accessories:

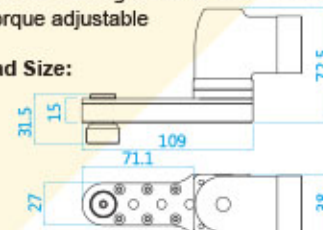
1x 1/4" Coupler • 1x 1.5 Adjust Key • 1x Adjust Key
1x Ring Hanger

★Warranty does not apply to 13mm gear socket due to it's consumable.

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating
- Torque adjustable

Head Size:



★Remark : Each tool need to order with Socket Size

★Remark : Optional external socket model

A-BOZ-N01-R48T45 Custom-Made Air Oil Pulse Tools



Socket Size	mm	10, 12, 13
Torque Range	Nm	30-45
Free Speed	rpm	4800
Length	mm	365
Weight	kg	2.36
Air Consumption	l/s	8.33
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 701

Included accessories:

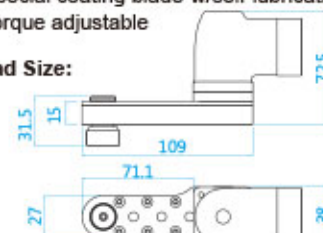
1x 1/4" Coupler • 1x 1.5 Adjust Key • 1x Adjust Key
1x Ring Hanger

★Warranty does not apply to 13mm gear socket due to it's consumable.

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating
- Torque adjustable

Head Size:



★Remark : Each tool need to order with Socket Size

★Remark : Optional external socket model

A-BOB-N01-R30T30 Custom-Made Air Oil Pulse Tools



Socket Size	mm	8, 10, 11, 12, 13
Torque Range	Nm	20-30
Free Speed	rpm	3000
Length	mm	302.9
Weight	kg	1.69
Air Consumption	l/s	6.67
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 702

Included accessories:

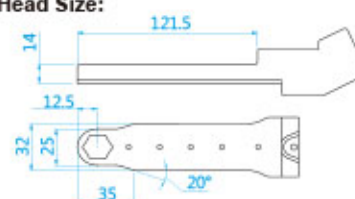
1x 1/4" Coupler • 1x 1.5 Adjust Key • 1x Adjust Key
1x Ring Hanger • 1x Rubber cover for Tool

★Warranty does not apply to 13mm gear socket due to it's consumable.

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating
- Torque adjustable

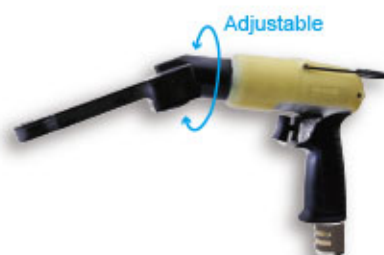
Head Size:



★Remark : Each tool need to order with Socket Size

★Remark : Optional external socket model

A-BOB-N01-R32T40 Custom-Made Air Oil Pulse Tools



Socket Size	mm	12, 13, 14, 16, 17, 19
Torque Range	Nm	25-40
Free Speed	rpm	3200
Length	mm	301.9
Weight	kg	1.78
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 703

Included accessories:

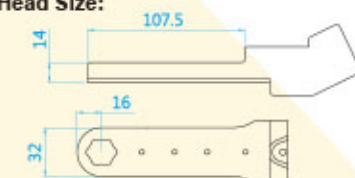
1x 1/4" Coupler • 1x 1.5 Adjust Key • 1x Adjust Key
1x Ring Hanger • 1x Rubber cover for Tool

★Warranty does not apply to 19mm gear socket due to it's consumable.

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating
- Torque adjustable

Head Size:



★Remark : Each tool need to order with Socket Size

★Remark : Optional external socket model

A-BOL-N11-R21T25 Custom-Made Air Oil Pulse Tools

Socket Size	mm	8, 10, 11, 12, 13
Torque Range	Nm	15-25
Free Speed	rpm	2100
Length	mm	358
Weight	kg	1.67
Air Consumption	l/s	6.17
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 754

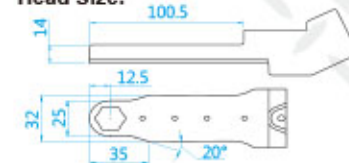
Included accessories:

1x 1/4" Coupler • 1x 1.5 Adjust Key • 1x Adjust Key
1x Ring Hanger

★Warranty does not apply to 13mm gear socket due to it's consumable.

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating
- Torque adjustable

Head Size:

★Remark : Each tool need to order with Socket Size

A-BOL-N11-R32T35 Custom-Made Air Oil Pulse Tools

Socket Size	mm	8, 10, 11, 12, 13
Torque Range	Nm	25-35
Free Speed	rpm	2100
Length	mm	379.7
Weight	kg	1.85
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 755

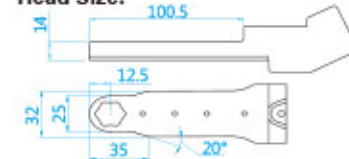
Included accessories:

1x 1/4" Coupler • 1x 1.5 Adjust Key • 1x Adjust Key
1x Ring Hanger

★Warranty does not apply to 13mm gear socket due to it's consumable.

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating
- Torque adjustable

Head Size:

★Remark : Each tool need to order with Socket Size

A-BOL-N11-R32T40 Custom-Made Air Oil Pulse Tools

Socket Size	mm	12, 13, 14, 16, 17, 19
Torque Range	Nm	25-50
Free Speed	rpm	2100
Length	mm	382.9
Weight	kg	1.95
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 756

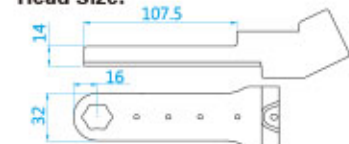
Included accessories:

1x 1/4" Coupler • 1x 1.5 Adjust Key • 1x Adjust Key
1x Ring Hanger

★Warranty does not apply to 19mm gear socket due to it's consumable.

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating
- Torque adjustable

Head Size:

★Remark : Each tool need to order with Socket Size

A-BOL-N11-R30T60 Custom-Made Air Oil Pulse Tools

Socket Size	mm	16, 17, 18, 19
Torque Range	Nm	45-60
Free Speed	rpm	3000
Length	mm	459
Weight	kg	2.92
Air Consumption	l/s	7.83
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 757

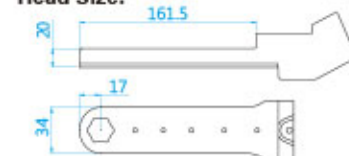
Included accessories:

1x 1/4" Coupler • 1x 1.5 Adjust Key • 1x Adjust Key
1x Ring Hanger

★Warranty does not apply to 19mm gear socket due to it's consumable.

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating
- Torque adjustable

Head Size:

★Remark : Each tool need to order with Socket Size

A-BOL-N01-R21T25 Custom-Made Air Oil Pulse Tools



Socket Size	mm	8, 10, 11, 12, 13
Torque Range	Nm	15-25
Free Speed	rpm	2100
Length	mm	358
Weight	kg	1.67
Air Consumption	l/s	6.17
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 704

Included accessories:

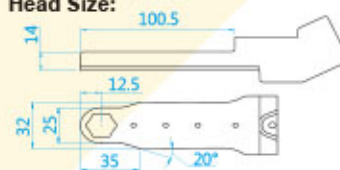
1x 1/4" Coupler • 1x 1.5 Adjust Key • 1x Adjust Key
1x Ring Hanger

★Warranty does not apply to 13mm gear socket due to it's consumable.

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating
- Torque adjustable

Head Size:



★Remark : Each tool need to order with Socket Size

A-BOL-N01-R32T35 Custom-Made Air Oil Pulse Tools



Socket Size	mm	8, 10, 11, 12, 13
Torque Range	Nm	25-35
Free Speed	rpm	2100
Length	mm	379.7
Weight	kg	1.85
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 705

Included accessories:

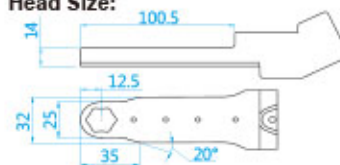
1x 1/4" Coupler • 1x 1.5 Adjust Key • 1x Adjust Key
1x Ring Hanger

★Warranty does not apply to 13mm gear socket due to it's consumable.

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating
- Torque adjustable

Head Size:



★Remark : Each tool need to order with Socket Size

A-BOL-N01-R32T40 Custom-Made Air Oil Pulse Tools



Socket Size	mm	12, 13, 14, 16, 17, 19
Torque Range	Nm	25-50
Free Speed	rpm	2100
Length	mm	382.9
Weight	kg	1.95
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 706

Included accessories:

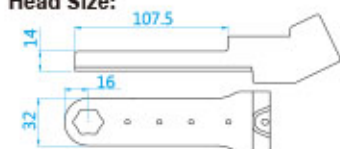
1x 1/4" Coupler • 1x 1.5 Adjust Key • 1x Adjust Key
1x Ring Hanger

★Warranty does not apply to 19mm gear socket due to it's consumable.

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating
- Torque adjustable

Head Size:



★Remark : Each tool need to order with Socket Size

A-BOL-N01-R30T60 Custom-Made Air Oil Pulse Tools



Socket Size	mm	16, 17, 18, 19
Torque Range	Nm	45-60
Free Speed	rpm	3000
Length	mm	459
Weight	kg	2.92
Air Consumption	l/s	7.83
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 707

Included accessories:

1x 1/4" Coupler • 1x 1.5 Adjust Key • 1x Adjust Key
1x Ring Hanger

★Warranty does not apply to 19mm gear socket due to it's consumable.

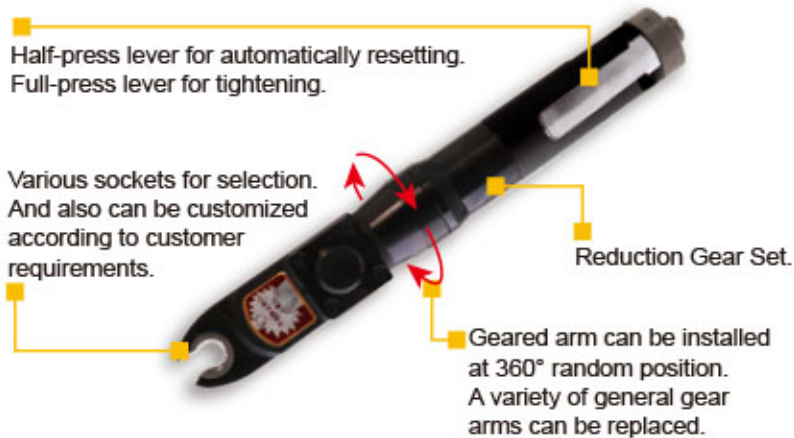
Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating
- Torque adjustable

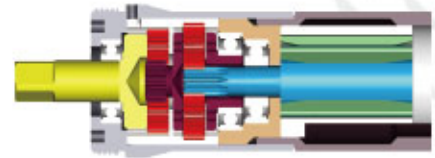
Head Size:



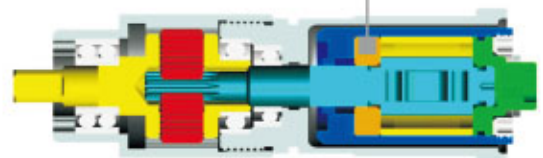
★Remark : Each tool need to order with Socket Size



Schematic diagram:



The front gear of oil pulse sets is driving by rotor.
Oil pulse start-up assistance when tool is subjected by a torque. It can quickly increase tighten due to oil pulse compress. This structure emphasize no reaction force (PAT.)



Model Nomenclature

A - B G S - N 0 1 - R 5 2 T 2 5

A: Air Tools

B: Bolt & Screw Tightening Tools

E: Open-End Direct Drive Geared Tools
G: Open-End Oil Pulse Geared Tools

Handle Type:
S: Straight

T: Torque(Nm)

R: Free Speed(rpm)

1~9: Ordinal

Output Drive Size:

0: Special or Other Size • **1:** 4mm
2: 1/4" • **3:** 3/8" • **4:** 1/2" • **6:** 3/4" • **8:** 1"

T: shut-off • **N:** Non shut-off
A: Direct Drive Geared

A-BES-A01-R38T20 Custom-Made Air Tubenut Tools



Socket Size	mm	8, 9, 10
Torque Range	Nm	13-20
Free Speed	rpm	380
Length	mm	310
Weight	kg	1.75
Air Consumption	l/s	6.33
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 801

Features & benefits:

- Double cylinder rotor

Included accessories:

1x 1/4" Coupler • 1x 1.5 Adjust Key
1x Ring Hanger

★Remark : Each tool need to order with Socket Type / Socket Size

Thin-wall gear arm type. Warranty does not apply to gear socket due to it's consumable.

A-BES-A01-R32T25 Custom-Made Air Tubenut Tools



Socket Size	mm	12, 13, 14, 15, 16, 17
Torque Range	Nm	17-25
Free Speed	rpm	320
Length	mm	323
Weight	kg	1.8
Air Consumption	l/s	6.33
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 800

Features & benefits:

- Double cylinder rotor

Included accessories:

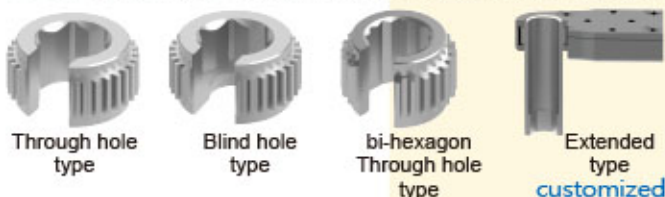
1x 1/4" Coupler • 1x 1.5 Adjust Key
1x Ring Hanger

★Remark : Each tool need to order with Socket Type / Socket Size

Thin-wall gear arm type. Warranty does not apply to gear socket due to it's consumable.

Socket

Socket geared type : Each tool need to ordered with Socket Size

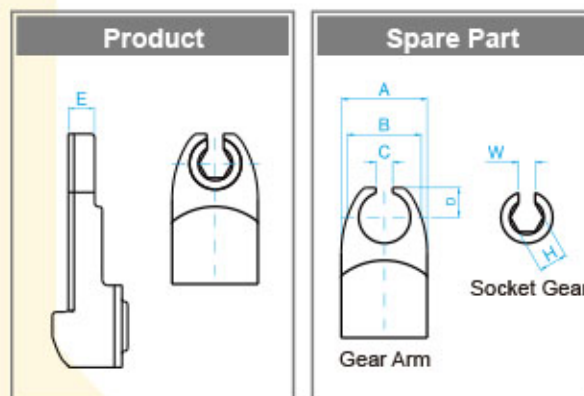


Through hole type: Hexagon - bi-hexagon through hole type, same on both side.

Blind hole type: One side as through hole type, another side as blind hole with U incision.

Extended type: Extended socket on through hole type. It make the socket gear protrude gear arm.

(The length can be customized, but the length couldn't over 40mm)



Item No.	Size(mm)						
	A	B	C	D	E	W	H
A-BES-A01-R38T20	36	31	8.2	11.6	12	8	8, 9, 10
A-BES-A01-R32T25	41	36.5	15	15.3	12	12, 13	12, 13, 14, 15, 16, 17
A-BGS-N01-R52T25	36	30.4	7	11	14	5, 6	8, 9, 10
A-BGS-N01-R40T42	41	35.4	12	13	14	8, 9, 10, 11	12, 13, 14, 15, 16, 17
A-BGS-N01-R36T60	58.5	50.5	20	19	20	15, 18	19, 20, 21, 22, 23, 24
A-BGS-N01-R29T75	71	60.2	25	22	20	21, 23	25, 26, 27, 28, 29, 30
A-BGS-N01-R32T105	71	60.2	25	22	20	21, 23	25, 26, 27, 28, 29, 30

A-BGS-N01-R52T25 Custom-Made Air Tubenut Tools

Socket Size	mm	8, 9, 10
Torque Range	Nm	18-25
Free Speed	rpm	520
Length	mm	350
Weight	kg	1.94
Air Consumption	l/s	7.2
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 802

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5 Adjust Key
1x Ring Hanger

★Remark : Each tool need to order with Socket Type / Socket Size

A-BGS-N01-R40T42 Custom-Made Air Tubenut Tools

Socket Size	mm	12, 13, 14, 15, 16, 17
Torque Range	Nm	32-42
Free Speed	rpm	400
Length	mm	372
Weight	kg	2.0
Air Consumption	l/s	7.2
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 803

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5 Adjust Key
1x Ring Hanger

★Remark : Each tool need to order with Socket Type / Socket Size

★ Warranty does not apply to 17mm gear socket due to it's consumable.

A-BGS-N01-R36T60 Custom-Made Air Tubenut Tools

Socket Size	mm	19, 20, 21, 22, 23, 24
Torque Range	Nm	45-60
Free Speed	rpm	360
Length	mm	402
Weight	kg	2.53
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 804

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5 Adjust Key
1x Ring Hanger

★Remark : Each tool need to order with Socket Type / Socket Size

★ Warranty does not apply to 24mm gear socket due to it's consumable.

A-BGS-N01-R29T75 Custom-Made Air Tubenut Tools

Socket Size	mm	25, 26, 27, 28, 29, 30
Torque Range	Nm	55-75
Free Speed	rpm	290
Length	mm	423
Weight	kg	2.83
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 805

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5 Adjust Key
1x Ring Hanger

★Remark : Each tool need to order with Socket Type / Socket Size

★ Warranty does not apply to 30mm gear socket due to it's consumable.

A-BGS-N01-R32T105 Custom-Made Air Tubenut Tools

Socket Size	mm	25, 26, 27, 28, 29, 30
Torque Range	Nm	82-105
Free Speed	rpm	320
Length	mm	437
Weight	kg	3.1
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Rec. Air Pressure	psi	90
Item No.		101 31 806

Features & benefits:

- Automatic pressure relief function
- Piston return oil valve device
- X type sealing ring seal
- Special coating blade-w/self-lubricating

Included accessories:

1x 1/4" Coupler • 1x 1.5 Adjust Key
1x Ring Hanger

★Remark : Each tool need to order with Socket Type / Socket Size

★ Warranty does not apply to 30mm gear socket due to it's consumable.

Custom-Made Air Tubenut Tools

Shut-off type clutch ■
Easy to adjust torque. Strong impulse
when torque value reached. High accuracy.



Clutch Shut-off

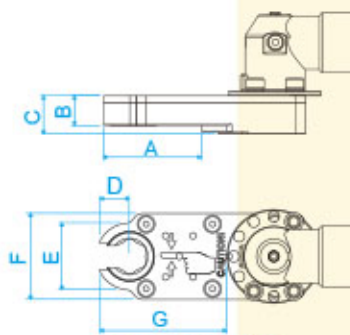
■ Operating with lever and releasing
by button. Dual control user-friendly
design.



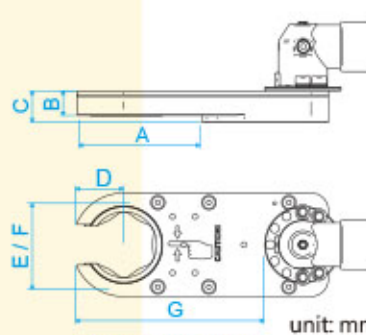
■ Rubber handle makes stable and
low vibration for grip.

Adjustable open-end
gear arm to 60°
according to the need.

■ Light weight. Bring the comfortable
feeling for the operator.



A-BEA-S02-R70T05
A-BEA-S02-R23T14



A-BEA-S02-R15T20
A-BEA-S02-R11T24

unit: mm

Open-end gear arm Dia.

Model	A	B	C	D	E	F	G
A-BEA-S02-R70T05	4	14	18	13.6	31	40	58.8
A-BEA-S02-R23T14	4	14	18	13.6	31	40	58.8
A-BEA-S02-R15T20	57.2	14	18	20.6	46.6	48	83.2
A-BEA-S02-R11T24	71	14	18	26.6	59	59	112.4

Model	Socket Size	Torque Range	Free Speed	Length	Weight	Air Consumption	Item No.
	mm	Nm	rpm	mm	kg	l/s	
A-BEA-S02-R70T05	7,8,9,10,11,12,13,14,15,16,17	2~5.5	700	413	1.675	13.2	102 32 173
A-BEA-S02-R23T14	7,8,9,10,11,12,13,14,15,16,17	5~15	230	413	1.67	13.2	102 32 170
A-BEA-S02-R15T20	17,19,21,22,24	8~20	150	438	1.84	13.2	102 32 171
A-BEA-S02-R11T24	24,26,27,29,30,32	10~24	115	461	2.1	13.2	102 32 172

Air Inlet Size: 1/4" Min. Air Hose ID: 3/8" Recommend Air Pressure: 90psi

Included accessories: 1x 1/4"Coupler • 1x Ring Hanger

★Remark : Standard Socket type: Through hole

Each tool need to order with Socket Size.

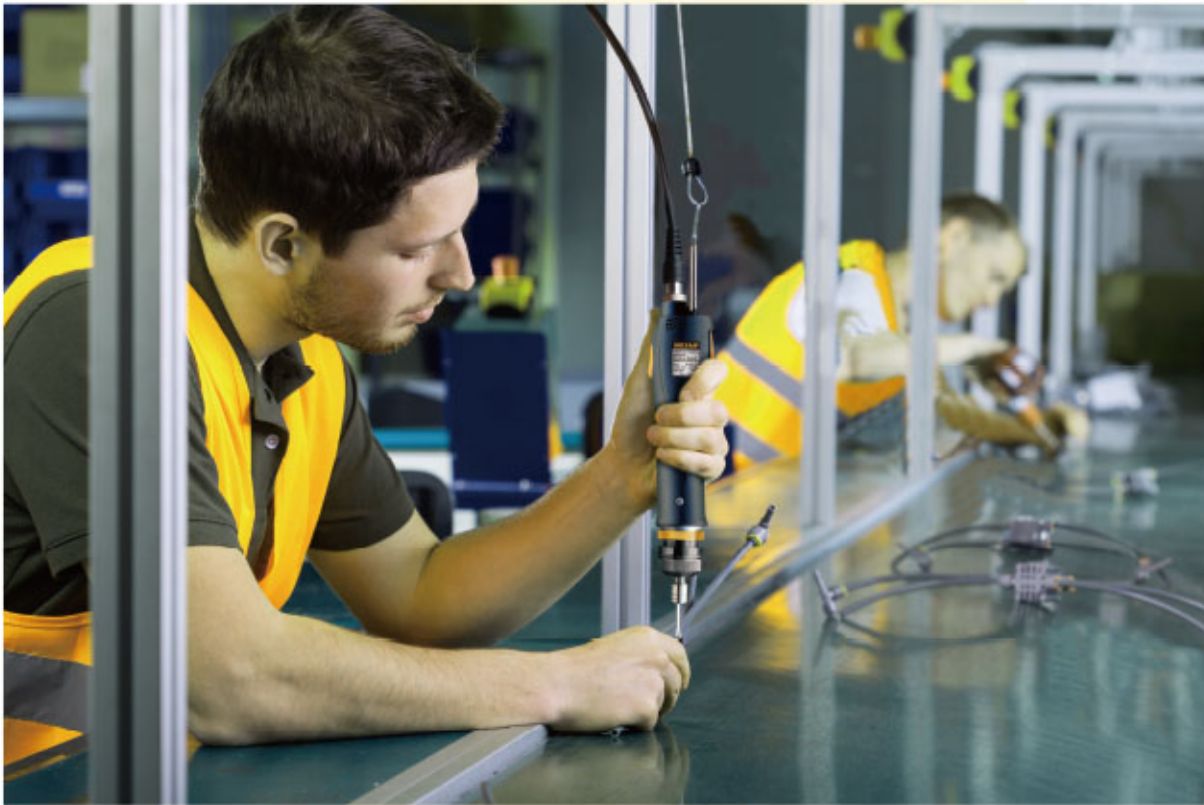


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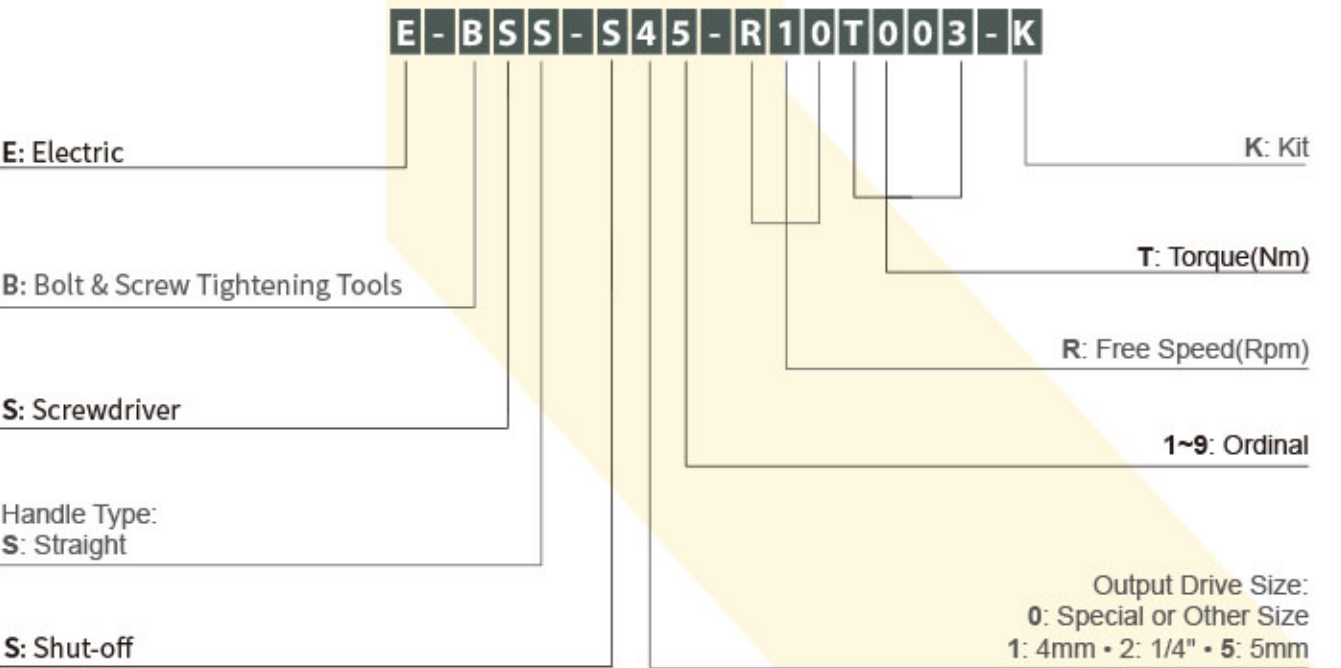


KEMP High efficiency brushless motor Shut-off Electric Screwdriver
(Low Voltage DC motor driving)

KEMP Industrial High efficiency brushless motor Shut-off Electric Screwdriver for assembly line.
Gold brake switch to be more effective and durable. Higher preference of tightening tools.
Brings better stable accuracy and durability



Model Nomenclature



E-BSS-S DC Brushless Shut-off Electric Screwdriver Kit (Small)

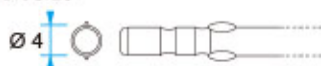
Machine Capability Index (CMK) > 1.67, Tolerance range $\pm 10\%$

Model	Drive Size (Bit)	Torque Range	Free Speed	Length	Weight	Diameter	Output Vol.	Power Supply (standard)	Item No.
	inch/mm	Nm	rpm	mm	kg	mm	DC	DC	
E-BSS-S45-R03T001-K	Ø 4	0.015-0.1	150 / 300	198	0.3	32	24-32V	E-BCW-S32	304 15 931
E-BSS-S45-R10T001-K	Ø 4	0.015-0.1	750 / 1000	198	0.3	32	24-32V	E-BCW-S32	304 15 932
E-BSS-S45-R10T003-K	Ø 4	0.02-0.3	750 / 1000	198	0.3	32	24-32V	E-BCW-S32	304 15 933
E-BSS-S45-R10T005-K	Ø 4	0.04-0.5	750 / 1000	198	0.3	32	24-32V	E-BCW-S32	304 15 934

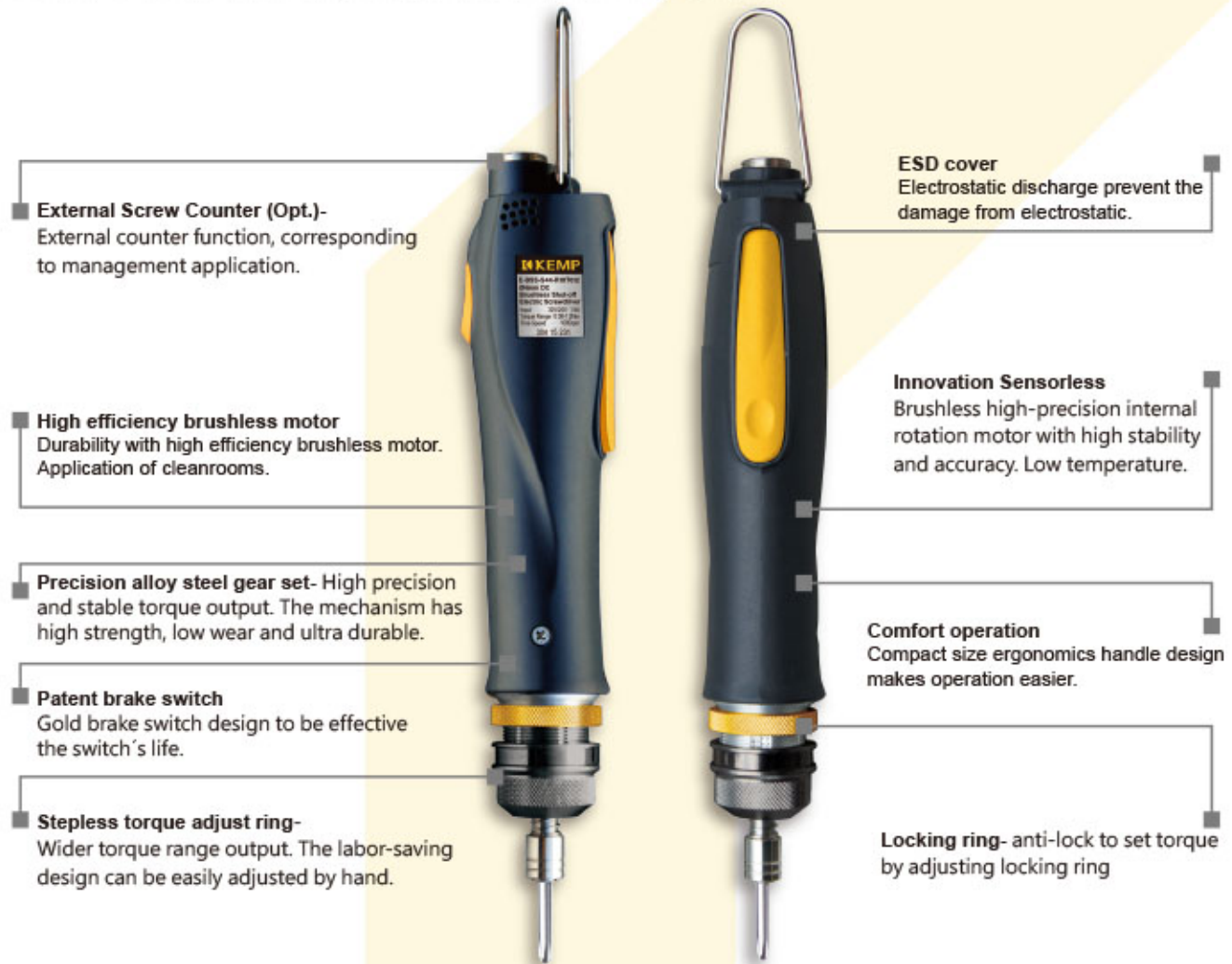
Operating Vol. : 100-240V

Included accessories: 1x Ring Hanger • 2x Bits(one of each size #1#2) • 1x Cable • 1x Power Cable • 1x Power Supply

Bit Size:



E-BSS-S DC Brushless Shut-off Electric Screwdriver Kit (Medium)



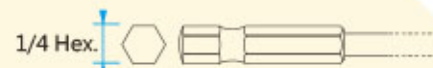
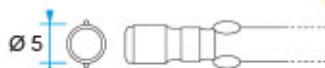
Machine Capability Index(CMK) >1.67, Tolerance range±10%

Model	Drive Size (Bit)	Torque Range	Free Speed	Length	Weight	Diameter	Output Vol.	Power Supply (standard)	Item No.
	inch/mm								
E-BSS-S44-R06T003-K	Ø 4	0.02-0.3	480 / 660	224	0.43	35	24-32V	E-BCW-S32	304 15 901
E-BSS-S54-R06T003-K	Ø 5								304 15 902
E-BSS-S24-R06T003-K	1/4 Hex.								304 15 903
E-BSS-S44-R10T007-K	Ø 4	0.05-0.7	750 / 1000	224	0.43	35	24-32V	E-BCW-S32	304 15 904
E-BSS-S54-R10T007-K	Ø 5								304 15 905
E-BSS-S24-R10T007-K	1/4 Hex.								304 15 906
E-BSS-S44-R10T012-K	Ø 4	0.08-1.2	750 / 1000	224	0.43	35	24-32V	E-BCW-S32	304 15 907
E-BSS-S54-R10T012-K	Ø 5								304 15 908
E-BSS-S24-R10T012-K	1/4 Hex.								304 15 909
E-BSS-S44-R10T020-K	Ø 4	0.08-2.0	750 / 1000	224	0.43	35	24-32V	E-BCW-M32	304 15 910
E-BSS-S54-R10T020-K	Ø 5								304 15 911
E-BSS-S24-R10T020-K	1/4 Hex.								304 15 912
E-BSS-S44-R06T025-K	Ø 4	0.2-2.5	480 / 660	224	0.43	35	24-32V	E-BCW-M32	304 15 913
E-BSS-S54-R06T025-K	Ø 5								304 15 914
E-BSS-S24-R06T025-K	1/4 Hex.								304 15 915
E-BSS-S44-R06T030-K	Ø 4	0.2-3.0	480 / 660	224	0.43	35	24-32V	E-BCW-M32	304 15 916
E-BSS-S54-R06T030-K	Ø 5								304 15 917
E-BSS-S24-R06T030-K	1/4 Hex.								304 15 918

Operating Vol. : 100-240V

Included accessories: 1x Ring Hanger • 2x Bits(one of each size #1#2) • 1x Cable • 1x Power Cable • 1x Power Supply

Bit Size:



Acc.

E-BCW-S32
 Power Supply

 Item No.
 308 15 100

Operating Vol. (AC)	V	100-240
Output Vol.(DC)	V	24-32 (Adjustable)
Dia.	mm	1400x650x320
Weight	kg	0.21
Certification	CE,UL(CUL),ROHS	

E-BCW-M32
 Power Supply

 Item No.
 308 15 200

Operating Vol. (AC)	V	100-240
Output Vol.(DC)	V	24-32 (HI/LO)
Dia.	mm	1500x650x950
Weight	kg	0.6
Certification	CE,UL(CUL),ROHS	

E-AAL01
 Torque Locker Cover

 Item No.
 900 15 001

Suitable Model E-BSS-S Electric Screwdriver (Small)

E-AAL02
 Torque Locker Cover

 Item No.
 900 15 002

Suitable Model E-BSS-S Electric Screwdriver (Medium)

E-AAL11
 Torque Locker

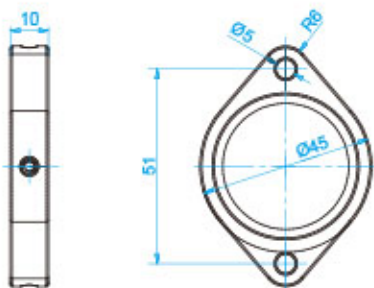
 Item No.
 900 15 011

Suitable Model E-BSS-S Ser.

E-AAL12
 Adjustable Ring

 Item No.
 900 15 012

Suitable Model E-BSS-S Ser.


E-AAF01
 Automation Flange

 Item No.
 900 15 100

Suitable Model E-BSS-S Ser.

E-ATC01
 External Screw Counter

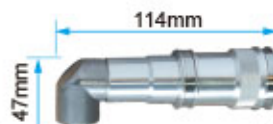
 Item No.
 905 15 101

Suitable Model E-BSS-S Ser.

E-ATC02
 PLC Control Suite

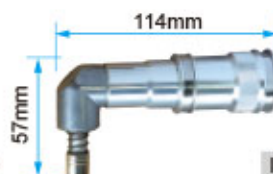
 Item No.
 905 15 102

Suitable Model E-BSS-S Ser.

E-ATH01
 90° Angle Head Attachment

 Item No.
 905 15 111

Size 1/4" Hex

Suitable Model E-BSS-S Ser.

E-ATH02
 90° Angle Head Attachment

 Item No.
 905 15 112

Size Ø 5mm

Suitable Model E-BSS-S Ser.

E-ATV01
 Vacuum Pick-up Attachment

 Item No.
 905 15 121

Suitable Model When the screw can't pick up by magnetism

E-ATV02
 Vacuum Hose And Fie Wraps

 Item No.
 905 15 122

Suitable Model Connect Vacuum Pick-up Attachment

E-AAS15
 Spring Balancer

 Item No.
 901 15 015

Capacity	kg	0.6-1.5
Cable Length	m	1.5

kti EBS Series

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Built-in Type Torque Indication Lamp

The torque indication lamp is of an intuitive design. When the tightening torque is reached, this indication lamp will notify the user. It can avoid thread slipping and incomplete tightening and is more user-friendly in use.



Rotation Change Switch

Excellent Clockwise / Counter-clockwise
The clear, simple and large icon displays the directional rotation status.

Extra wear-resistant clutch

The screwdriver is equipped with an extra wear-resistant clutch, with low torque decay and stable torque output. The unit is suitable for high-tech precision parts.

High performance coreless brushless motor

Low inertia, Low thermal growth.
No need to replace carbon brush for saving cost.

Hall Effect Switch

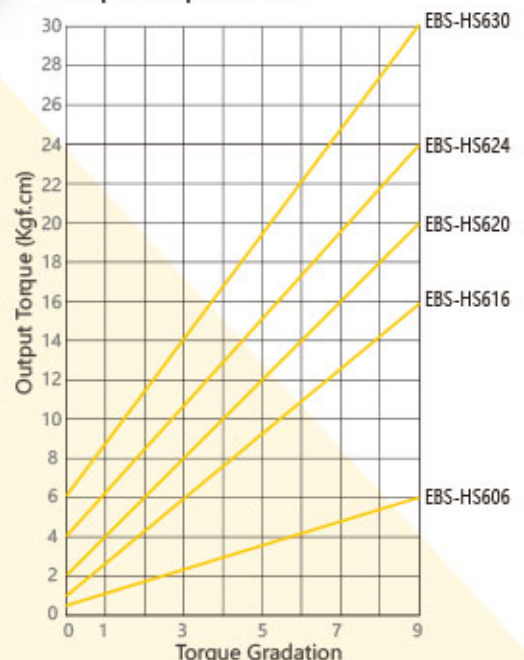
Non-contact type switch that reduces the effects of wear and tear, which greatly enhances the durability and reliability.

Streamlined Shape and Excellent Holding Feeling

The design of the grip is ergonomic. It not only prevents hand soreness, but also reduces fatigue during use. Comfort even over long-term use can be assured.



Torque Output Chart

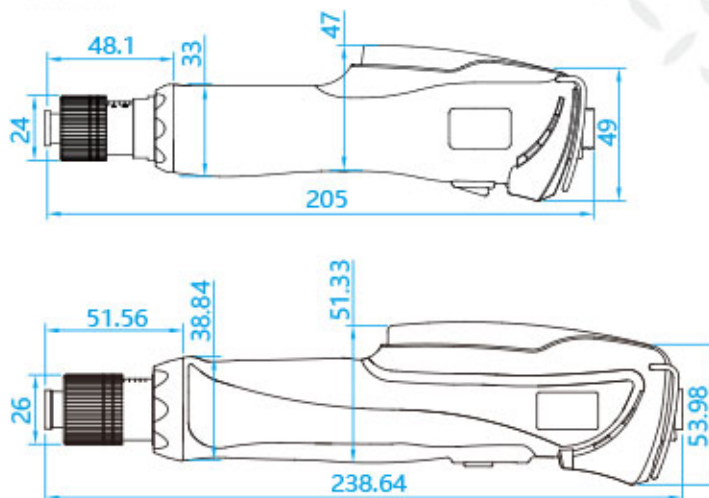


EBS DC Brushless Shut-off Electric Screwdriver



Dimensions

unit : mm



Parameters

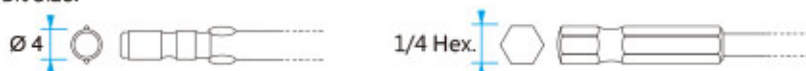
Torque Accuracy	Torque Adjustment	Weight	Length
±3%	Mechanical	520g	238mm

Model	Drive Size	Torque Range		Free Speed rpm	Applicable Screw Mech. Thread Dia. / Self-tapping Thread Dia. mm	Item No.
		kgf.cm	Nm			
EBS-HX401-K	Ø4	0.15~1	0.0147~0.098	700	0.7~1.8 / 0.6~1.4	304 17 931
EBS-HX406-K	Ø4	0.5~6	0.049~0.588	700/1000	1.0~2.6 / 1.0~2.3	304 17 933
EBS-HX410-K	Ø4	2~10	0.196~0.98	700/1000	2.2~3.0 / 2.0~2.6	304 17 934
EBS-HS606-K	1/4 "	0.5~6	0.049~0.588	700/1000	1.0~2.6 / 1.0~2.3	304 17 901
EBS-HS706H-K	1/4 "	0.5~6	0.049~0.588	1300/2000	1.0~2.6 / 1.0~2.3	304 17 941
EBS-HS616-K	1/4 "	1~16	0.098~1.56	700/1000	2.2~4.0 / 2.0~3.2	304 17 902
EBS-HS716H-K	1/4 "	1~16	0.098~1.56	1300/2000	2.2~4.0 / 2.0~3.2	304 17 946
EBS-HS620-K	1/4 "	2~20	0.196~1.96	700/1000	2.6~4.2 / 2.3~3.5	304 17 903
EBS-HS720H-K	1/4 "	2~20	0.196~1.96	1300/2000	2.6~4.2 / 2.3~3.5	304 17 943
EBS-HS624-K	1/4 "	4~24	0.39~2.35	700/1000	3.0~5.0 / 2.6~4.0	304 17 904
EBS-HS724H-K	1/4 "	4~24	0.39~2.35	1300/2000	3.0~5.0 / 2.6~4.0	304 17 944
EBS-HS630-K	1/4 "	6~30	0.588~2.94	700/1000	3.0~5.0 / 2.6~4.0	304 17 905
EBS-HS730-K	1/4 "	6~30	0.588~2.94	900/1300	3.0~5.0 / 2.6~4.0	304 17 925

Operating Vol. : 100-240V

Included accessories: 1x Ring Hanger • 2x Bits(one of each size #1#2) • 1x Cable • 1x Power Cable • 1x Power Supply

Bit Size:



Power Supply

Model	Working Voltage	Output Voltage	Dimensions mm	Weight g
	AC	DV		
EBC-HM30	100~240V	20~30V Changeable	164 x 61 x 39	260



* According to KEMP product improvement policy, it will not be notified immediately when changes to the design and specifications. Please check KEMP's website for the latest information.



Model Nomenclature

A - B S S - S 2 3 - R 1 0 T 0 0 2

A: Air Tools

B: Bolt Tightening Tools

S: Screwdriver
N: Nutrunner

Handle Type:
A: Angle • **P:** Pistol • **S:** Straight

S: Shut-off • **C:** Clutch
J: Jumbo Hammer • **D:** Twin Dog
H: Twin Hammer

T: Torque(Nm)

R: Free Speed(rpm)

1~9: Ordinal

Output Drive Size:
0: Special or Other Size • **1:** 4mm
2: 1/4" • **3:** 3/8" • **4:** 1/2" • **6:** 3/4" • **8:** 1"

A-BNA-S Sq. Air Nutrunner

Shut-off Type Clutch

Easy to adjust torque and high accuracy.



Shut-off type

Ergonomics Handle

Bring the comfortable feeling for the operator.

Mechanism reinforcement

Upgrade gear & clutch, increase tool life.

Torque fix Cover

Avoid adjust torque by accident while operating.

External torque adjust ring

Quick adjust the required target torque value.



Machine Capability Index(CMK) >1.67, Tolerance range $\pm 10\%$

Model	Drive Size (Square)	Torque Range	Free Speed	Length	Weight	Air Consumption	Air Inlet Size	Min. Air Hose ID	Recommend Air Pressure	Item No.
	inch	Nm	rpm	mm	kg	l/s	inch	inch	psi	
A-BNA-S33-R10T030	3/8	0.5-3.0	1000	315	0.66	4.72	1/4	3/8	90	102 04 300
A-BNA-S33-R17T045	3/8	0.5-4.5	1700	370	1.1	5.68	1/4	3/8	90	102 04 301
A-BNA-S33-R05T095	3/8	1.5-9.5	550	370	1.2	5.68	1/4	3/8	90	102 04 302
A-BNA-S33-R03T180	3/8	3.0-18	300	370	1.4	5.68	1/4	3/8	90	102 04 303
A-BNA-S33-R02T280	3/8	5.0-28	250	370	1.4	5.68	1/4	3/8	90	102 04 304

Included accessories: 1x 1/4" Coupler • 1x Ring Hanger

A-BNA-S31-R03T100 3/8" Sq. Air Nutrunner



Drive Size(Square)	inch	3/8
Torque Range	Nm	4-10
Free Speed	rpm	340
Length	mm	350
Weight	kg	1.3
Air Consumption	l/s	13.2
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		102 32 102

Features & benefits:

- Shut-off type clutch : Corresponding to the tightening of different soft and hard joints. High accuracy.
- External torque adjust ring: quick adjust the required target torque value.
- Ergonomics Handle and low vibration. Bring the comfortable feeling for the operator.
- Mechanism reinforcement with upgrade gear & clutch, increase tool life.
- Shut-off



Included accessories:

1x 1/4" Coupler • 1x Ring Hanger

A-BSS-S 1/4" Hex. Air Shut-off Screwdriver

Shut-off Type Clutch

Easy to adjust torque and high accuracy.



Shut-off type

Ergonomics Handle

Bring the comfortable feeling for the operator.



Scale Window Torque fix Cover

Avoid adjustment by operator.
Torque scale window manageable.

Strengthen Mechanism Material

Strengthen gear and composite body to increased usage time.

Machine Capability Index(CMK) >1.67, Tolerance range±10%

Model	Drive Size (Hex.)	Torque Range	Free Speed	Length	Weight	Air Consumption	Air Inlet Size	Min. Air Hose ID	Recommend Air Pressure	Item No.
	inch	Nm	rpm	mm	kg	l/s	inch	inch	psi	
A-BSS-S23-R18T025	1/4	0.3-2.5	1800	200	0.51	4.67	1/4	3/8	90	104 04 103
A-BSS-S23-R08T040	1/4	0.8-4.0	800	200	0.51	4.67	1/4	3/8	90	104 04 105
A-BSS-S23-R10T065	1/4	0.7-6.5	1000	231	0.85	9.17	1/4	3/8	90	104 04 107
A-BSS-S23-R05T095	1/4	1.5-9.5	550	290	0.85	9.17	1/4	3/8	90	104 04 108

Included accessories: 1x 1/4" Coupler • 1x Ring Hanger • 1x Torque Ring

A-BSP-S 1/4" Hex. Air Shut-off Screwdriver

Shut-off Type Clutch

Easy to adjust torque and high accuracy.



Shut-off type

Strengthen Mechanism Material

Strengthen gear and composite body to increased usage time.

Torque fix Cover

Avoid adjust torque by accident while operating.

External torque adjust ring

Quick adjust the required target torque value.

Ergonomics Handle

Bring the comfortable feeling for the operator.

Three-way air intake design

The top, bottom, and rear are convenient for adjustment in different application directions.

Machine Capability Index(CMK) >1.67, Tolerance range $\pm$ 10%

Model	Drive Size (Hex.)	Torque Range	Free Speed	Length	Weight	Air Consumption	Air Inlet Size	Min. Air Hose ID	Recommend Air Pressure	Item No.
	inch	Nm	rpm	mm	kg	l/s	inch	inch	psi	
A-BSP-S23-R18T025	1/4	0.3-2.5	1800	198	0.69	4.72	1/4	3/8	90	10404201
A-BSP-S23-R10T035	1/4	0.5-3.5	1000	198	0.69	4.72	1/4	3/8	90	10404202
A-BSP-S23-R22T060	1/4	1.0-6.0	2200	236	1.01	5.68	1/4	3/8	90	10404204
A-BSP-S23-R10T075	1/4	1.2-7.5	1000	236	1.01	5.68	1/4	3/8	90	10404205
A-BSP-S23-R05T110	1/4	3.0-11	500	236	1.01	5.68	1/4	3/8	90	10404206
A-BSP-S23-R03T180	1/4	3.0-18	300	236	1.13	5.68	1/4	3/8	90	10404207

Included accessories: 1x 1/4" Coupler • 1x Ring Hanger • 1x Torque adjust Ring

1x Side Handle (A-BSP-S23-R22T060, A-BSP-S23-R10T075, A-BSP-S23-R05T110, A-BSP-S23-R03T180 only)

A-BSS-D21-R90T40 1/4" Hex. Air Impact Screwdriver



Drive Size(Hex.)	inch	1/4
Max. Torque	Nm	40
Free Speed	rpm	9000
Length	mm	190
Weight	kg	0.79
Air Consumption	l/s	9.44
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		104 32 300

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.

■ Twin Dog



Included accessories:

- 1x 1/4"Coupler • 1x Ring Hanger
- 1x 65mm Double Ended Cross Bit #2

A-BSS-D21-R80T200 1/4" Hex. Air Impact Screwdriver



Drive Size(Hex.)	inch	1/4
Max. Torque	Nm	200
Free Speed	rpm	8000
Length	mm	225
Weight	kg	1.06
Air Consumption	l/s	14.16
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		104 32 301

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.

- Operating with lever and releasing by button. Dual control user-friendly design.

■ Twin Dog



Included accessories:

- 1x 1/4"Coupler • 1x Ring Hanger
- 1x 65mm Double Ended Cross Bit #2

A-BSS-H21-R80T230 1/4" Hex. Air Impact Screwdriver



Drive Size(Hex.)	inch	1/4
Max. Torque	Nm	230
Free Speed	rpm	8000
Length	mm	220
Weight	kg	1.32
Air Consumption	l/s	15.12
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		104 32 302

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.

- Operating with lever and releasing by button. Dual control user-friendly design.

■ Twin Hammer



Included accessories:

- 1x 1/4"Coupler • 1x Ring Hanger
- 1x 65mm Double Ended Cross Bit #2

A-BSP-D21-R115T30 1/4" Hex. Air Impact Screwdriver

Drive Size(Hex.)	inch	1/4
Max. Torque	Nm	30
Free Speed	rpm	11500
Length	mm	155
Weight	kg	0.9
Air Consumption	l/s	11.32
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		104 32 303

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- Turntable forward and reverse control. Prevent accidentally thumb switch.

■ Twin Dog

**Included accessories:**

1x 1/4"Coupler • 1x Ring Hanger
1x 65mm Double Ended Cross Bit #2

A-BSP-D21-R80T150 1/4" Hex. Air Impact Screwdriver

Drive Size(Hex.)	inch	1/4
Max. Torque	Nm	150
Free Speed	rpm	8000
Length	mm	165
Weight	kg	1.2
Air Consumption	l/s	14.16
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		104 32 305

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- Turntable forward and reverse control. Prevent accidentally thumb switch.

■ Twin Dog

**Included accessories:**

1x 1/4"Coupler • 1x Ring Hanger
1x 65mm Double Ended Cross Bit #2

A-BSP-H21-R85T270 1/4" Hex. Air Impact Screwdriver

Drive Size(Hex.)	inch	1/4
Max. Torque	Nm	270
Free Speed	rpm	8500
Length	mm	155
Weight	kg	1.3
Air Consumption	l/s	17
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		104 32 306

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- Single hand operating. Forward & reverse switch quickly with finger.

■ Twin Hammer

**Included accessories:**

1x 1/4"Coupler • 1x Ring Hanger
1x 65mm Double Ended Cross Bit #2



Model Nomenclature

A - B I P - D 3 1 - R 1 1 5 T 3 0

A: Air Tools
C: Cordless Tools

B: Bolt & Screw Tightening Tools

I: Impact Wrench
R: Ratchet Wrench

Handle Type:
A: Angle
D: D Handle D
P: Pistol
S: Straight

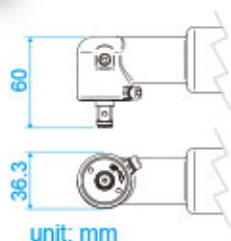
T: Torque(Nm)

R: Free Speed(rpm)

1~9: Ordinal

Output Drive Size:
0: Special or Other Size • **1:** 4mm
2: 1/4" • **3:** 3/8" • **4:** 1/2" • **6:** 3/4" • **8:** 1"

S: Shut-off • **C:** Clutch • **J:** Jumbo Hammer
D: Twin Dog • **H:** Twin Hammer
L: Pinless Hammer • **P:** Pin Clutch • **R:** Rocking Dog
A: Direct Drive Geared

A-BIA-D31-R85T90 3/8" Sq. Air Impact Wrench

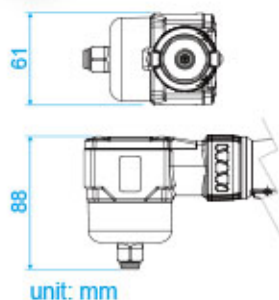
Drive Size(Square)	inch	3/8
Max. Torque	Nm	90
Free Speed	rpm	8500
Length	mm	265
Weight	kg	1.58
Air Consumption	l/s	16.04
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		103 32 311

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- Turntable forward and reverse control. Prevent accidentally thumb switch.
- Twin Dog

**Included accessories:**

1x 1/4"Coupler • 1x Ring Hanger

A-BIA-J46-R90T312 1/2" Sq. Air Impact Wrench

Drive Size(Square)	inch	1/2
Max. Torque	Nm	312
Free Speed	rpm	9000
Length	mm	247
Weight	kg	1.5
Air Consumption	l/s	7.52
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		103 12 300

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- The knob-type reversable switch behind the handle good for moving in a small space, and it is convenient and quick to switch.
- Ergonomics Grip,Bring the comfortable feeling for the operator.
- Jumbo Hammer

**Included accessories:**

1x 1/4"Coupler

A-BIS-D35-R120T108 3/8" Sq. Air Impact Wrench

Drive Size(Square)	inch	3/8
Max. Torque	Nm	108
Free Speed	rpm	12000
Length	mm	139
Weight	kg	0.53
Air Consumption	l/s	3.92
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		103 33 304

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- Easy to work in confined areas.
- Twin Dog

**Included accessories:**

1x 1/4"Coupler

A-BIS-D31-R80T200 3/8" Sq. Air Impact Wrench



Drive Size(Square)	inch	3/8
Max. Torque	Nm	200
Free Speed	rpm	8000
Length	mm	225
Weight	kg	1.07
Air Consumption	l/s	14.16
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		103 32 301

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.

■ Twin Dog



Included accessories:

1x 1/4"Coupler • 1x Ring Hanger

A-BIS-H31-R81T200 3/8" Sq. Air Impact Wrench



Drive Size(Square)	inch	3/8
Max. Torque	Nm	200
Free Speed	rpm	8100
Length	mm	220
Weight	kg	1.32
Air Consumption	l/s	15.12
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		103 32 302

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.

■ Twin Dog



Included accessories:

1x 1/4"Coupler • 1x Ring Hanger

A-BIP-D31-R115T30 3/8" Sq. Air Impact Wrench



Drive Size(Square)	inch	3/8
Max. Torque	Nm	30
Free Speed	rpm	11500
Length	mm	155
Weight	kg	0.9
Air Consumption	l/s	11.32
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		103 32 303

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.

- Turntable forward and reverse control. Prevent accidentally thumb switch.

■ Twin Dog



Included accessories:

1x 1/4"Coupler • 1x Ring Hanger

A-BIP-D31-R80T190 3/8" Sq. Air Impact Wrench



Drive Size(Square)	inch	3/8
Max. Torque	Nm	190
Free Speed	rpm	8000
Length	mm	160
Weight	kg	1.2
Air Consumption	l/s	18.88
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		103 32 305

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.

- Turntable forward and reverse control. Prevent accidentally thumb switch.

■ Twin Dog



Included accessories:

1x 1/4"Coupler • 1x Ring Hanger

A-BIP-H31-R85T270 3/8" Sq. Air Impact Wrench



Drive Size(Square)	inch	3/8
Max. Torque	Nm	270
Free Speed	rpm	8500
Length	mm	155
Weight	kg	1.32
Air Consumption	l/s	17
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		103 32 306

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.

- Turntable forward and reverse control. Prevent accidentally thumb switch.

■ Twin Hammer



Included accessories:

1x 1/4"Coupler • 1x Ring Hanger

A-BIP-H46-R83T515 1/2" Sq. Air Impact Wrench

Drive Size(Square)	inch	1/2
Max. Torque	Nm	515
Free Speed	rpm	8300
Length	mm	149
Weight	kg	1.3
Air Consumption	l/s	7.3
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		103 12 301

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- Light weight composite body. Comfortable feeling for the operator.
- Forward and reverse with patent switch by finger control . Adjust speed turntable.
- Twin Hammer

**Included accessories:**

1x 1/4" Coupler

A-BIP-H46-R78T678 1/2" Sq. Air Impact Wrench

Drive Size(Square)	inch	1/2
Max. Torque	Nm	678
Free Speed	rpm	7800
Length	mm	116
Weight	kg	1.16
Air Consumption	l/s	9.08
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		103 12 303

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- Light weight composite body. Comfortable feeling for the operator.
- Forward and reverse with patent switch by finger control . Adjust speed turntable.
- Twin Hammer

**Included accessories:**

1x 1/4" Coupler • 1x Ring Hanger

A-BIP-H46-R73T1085 1/2" Sq. Air Impact Wrench

Drive Size(Square)	inch	1/2
Max. Torque	Nm	1085
Free Speed	rpm	7300
Length	mm	174
Weight	kg	2.0
Air Consumption	l/s	10.2
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		103 12 314

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- Light weight composite body. Comfortable feeling for the operator.
- Forward and reverse with patent switch by finger control . Adjust speed turntable.
- Twin Hammer

**Included accessories:**

1x 1/4" Coupler

A-BIP-H65-R65T1085 3/4" Sq. Air Impact Wrench

Drive Size(Square)	inch	3/4
Max. Torque	Nm	1085
Free Speed	rpm	6500
Length	mm	236
Weight	kg	4.55
Air Consumption	l/s	13.2
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		103 33 307

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- Twin Hammer

**Included accessories:**

1x 1/4" Coupler

A-BIP-H66-R53T1900 3/4" Sq. Air Impact Wrench



Drive Size(Square)	inch	3/4
Max. Torque	Nm	1900
Free Speed	rpm	5300
Length	mm	201
Weight	kg	3.3
Air Consumption	l/s	14.92
Air Inlet Size	inch	3/8
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	90
Item No.		103 12 305

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- Light weight composite body. Comfortable feeling for the operator.
- Forward and reverse with patent switch by finger control . Adjust speed turntable.
- Twin Hammer



Included accessories:

1x 3/8" Coupler

A-BIP-H86-R60T2034 1" Sq. Air Impact Wrench



Drive Size(Square)	inch	1
Max. Torque	Nm	2034
Free Speed	rpm	6000
Length	mm	228
Weight	kg	5.7
Air Consumption	l/s	15.12
Air Inlet Size	inch	3/8
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	90
Item No.		103 12 307

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- Twin Hammer



Included accessories:

1x 3/8" Coupler

A-BIP-H87-R55T2700 1" Sq. Air Impact Wrench



Drive Size(Square)	inch	1
Max. Torque	Nm	2700
Free Speed	rpm	5500
Length	mm	256
Weight	kg	5.7
Air Consumption	l/s	14
Air Inlet Size	inch	1/2
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	90
Item No.		103 38 301

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- Twin Hammer



Included accessories:

1x 1/2" Coupler • 1x 5mm Hex. wrench
1x Side Handle (w/Screw)

A-BID-H86-R55T2983 1" Sq. Air Impact Wrench

Drive Size (Square)	inch	1
Max. Torque	Nm	2983
Free Speed	rpm	5500
Length	mm	375
Weight	kg	6.8
Air Consumption	l/s	22.68
Air Inlet Size	inch	1/2
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	100
Item No.		103 12 308

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- Light weight and downsize. Bring more comfortable feeling for the operator .
- Twin Hammer

**Included accessories:**

1x 1/2" Coupler • 1x 6mm Hex. Key
1x Side Handle (w/Screw)

A-BID-H86-R55T2983-6 1" Sq. Air Impact Wrench with 6" Anvil

Drive Size (Square)	inch	1
Max. Torque	Nm	2983
Free Speed	rpm	5500
Length	mm	527
Weight	kg	7.7
Air Consumption	l/s	22.68
Air Inlet Size	inch	1/2
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	100
Item No.		103 12 309

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- Light weight and downsize. Bring more comfortable feeling for the operator .
- Twin Hammer

**Included accessories:**

1x 1/2" Coupler • 1x 6mm Hex. Key
1x Side Handle (w/Screw)

A-BID-L85-R40T2170-6 1" Sq. Air Impact Wrench with 6" Anvil

Drive Size (Square)	inch	1
Max. Torque	Nm	2170
Free Speed	rpm	4000
Length	mm	515
Weight	kg	12.1
Air Consumption	l/s	15.88
Air Inlet Size	inch	1/2
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	100
Item No.		103 33 314

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- Pinless Hammer

**Included accessories:**

1x 1/2" Coupler • 1x 5mm Hex. Key
1x Side Handle (w/Screw)

A-BIP-L97-R40T4050 1-1/2" Sq. Air Impact Wrench

Drive Size (Square)	inch	1-1/2
Max. Torque	Nm	4050
Free Speed	rpm	4000
Length	mm	420
Weight	kg	15.3
Air Consumption	l/s	22.6
Air Inlet Size	inch	1/2
Min. Air Hose ID	inch	3/4
Recommend Air Pressure	psi	100
Item No.		103 38 323

Features & benefits:

- Impact mechanism brings high speed and torque . For high efficiency and pre-tightening on the work.
- Alloy steel casting motor with high precision machining.
- The patented design of the inner spring of the vane makes the vane and the cylinder fit more closely, ensuring stable power and torque output.
- Pinless Hammer

**Included accessories:**

1x 1/2" Coupler • 1x Side Handle (w/Screw)

KEMP High Efficiency Brushless Series

New generation brushless cordless tool increase torque 20% improve work efficiency.

Majorization the center of gravity brings comfort feel when handle for the operator.



■ LED light lighten work area.

■ 147mm Compact structural design breakthrough of space limitation.



RS mode(Green light)
Apply to shut down when sensing the screw or bolt has come loose.



■ Single hand switch 2 speed system.

■ Smart overload protection
Prevent tool and battery damage from overheating.

T mode(Red light)
Apply to protect screw, bolt head and surface of workpiece.
Tool will shut down when sensing the hitting continuous 2 seconds.



■ Battery power display panel
Easy to check battery power .



**C-BIP-P21-R24T220Q 20V Brushless 1/4" Hex. 220Nm
Cordless Impact Screwdriver**


Drive Size (Hex.)	inch	1/4
Torque Range	Nm	0-220
Max. Torque	Nm	220
Breakaway Torque	Nm	300
Impact Per Minute	ipm	0-3500
Free Speed	rpm	1700-2400
Length	mm	144
Width	mm	69
Height	mm	193
Tool Weight W/O Battery	kg	1.1
Charging Time	min	90
Battery Voltage	Volt	20
Ampere	Ah	4.0
Item No.		203 71 110

Included accessories:

1xCordless Impact Wrench(w/o battery) • 1xHook

Features & benefits:

- Max. tightening torque up to 220Nm.
- Impact frequency IPM: 2000 / 2800 / 3400
- 5 mode drive control brings more output speed and power :
4 forward segment with torque & speed below :
Segment 1: 150Nm / 1700RPM
Segment 2: 180Nm / 2000RPM
Segment 3: 220Nm / 2400RPM
Segment T: 220Nm / 2400RPM
- Segment T mode apply to protect screw, bolt head and surface of workpiece. Tool will shut down when sensing the hitting continuous 2 seconds.
- 2 reverse segment with torque & speed below :
Segment 3: 220Nm / 2400RPM
Segment RS: 220Nm / 2400RPM
- Segment RS mode apply to shut down when sensing the screw or bolt has come loose.
- 144mm Compact structural design breakthrough of space limitation.
- Smart overload protection prevent tool and battery damage from overheating.
- Single hand 2 speed switch.
- LED lighten work area.

**C-BIP-P41-R24T350 20V Brushless 1/2" Sq. 350Nm
Cordless Impact Wrench Kit Samsung Pack**


Drive Size (Square)	inch	1/2
Torque Range	Nm	0-350
Max. Torque	Nm	350
Breakaway Torque	Nm	475
Impact Per Minute	ipm	0-3400
Free Speed	rpm	1700-2400
Length	mm	147
Width	mm	69
Height	mm	193
Tool Weight W/O Battery	kg	1.1
Charging Time	min	90
Battery Voltage	Volt	20
Ampere	Ah	4.0
Item No.		203 71 210

Included accessories:

1xCordless Impact Wrench(w/o battery) • 1xHook

Features & benefits:

- Max. tightening torque up to 350Nm.
- Impact frequency IPM: 2000 / 2800 / 3400
- 5 mode drive control brings more output speed and power :
4 forward segment with torque & speed below :
Segment 1: 270Nm / 1700RPM
Segment 2: 300Nm / 2000RPM
Segment 3: 350Nm / 2400RPM
Segment T: 350Nm / 2400RPM
- Segment T mode apply to protect screw, bolt head and surface of workpiece. Tool will shut down when sensing the hitting continuous 2 seconds.
- 2 reverse segment with torque & speed below :
Segment 3: 350Nm / 2400RPM
Segment RS: 350Nm / 2400RPM
- Segment RS mode apply to shut down when sensing the screw or bolt has come loose.
- 147mm Compact structural design breakthrough of space limitation.
- Smart overload protection prevent tool and battery damage from overheating.
- Single hand 2 speed switch.
- LED lighten work area.

C-L3-V20A40 20V Power Pack With Samsung Li-ion Cell 4.0Ah


Length	mm	122.7
Width	mm	77
Height	mm	66.7
Weight	kg	0.67
Charging Time	min	75
Battery Voltage	Volt	20
Ampere	Ah	4.0
Item No.		290 71 412

Features & benefits:

- Battery power display panel.
- Available for KEMP C-BIP-P Series tool.

C-BIP-P41-R17T800 20V Brushless 1/2" Sq. 800Nm Cordless Impact Wrench



Drive Size (Square)	inch	1/2
Torque Range	Nm	0-800
Max. Torque	Nm	800
Breakaway Torque	Nm	1500
Impact Per Minute	ipm	0-2300
Free Speed	rpm	1200-1700
Length	mm	231
Width	mm	76
Height	mm	264
Tool Weight W/O Battery	kg	2.7
Charging Time	min	90
Battery Voltage	Volt	20
Ampere	Ah	4.0
Item No.		203 71 311

Included accessories:

1xCordless Impact Wrench(w/o battery) • 1xHook

Features & benefits:

- Max. tightening torque up to 800Nm.
- Max. reverse disassemble torque up to 1500Nm.
- Impact frequency IPM: 1700 / 2300
- 5 mode drive control brings more output speed and power :
4 forward segment with torque & speed below :
Segment 1: 450Nm / 1000RPM
Segment 2: 600Nm / 1300RPM
Segment 3: 800Nm / 1700RPM
Segment T: 800Nm / 1700RPM
- Segment T mode apply to protect screw, bolt head and surface of workpiece. Tool will shut down when sensing the hitting continuous 2 seconds.
- 2 reverse segment with torque & speed below :
Segment 3: 800Nm / 1700RPM
Segment RS: 800Nm / 700RPM
- Segment RS mode apply to shut down when sensing the screw or bolt has come loose.
- Smart overload protection prevent tool and battery damage from overheating.
- Single hand 2 speed operat .
- LED lighten work area.

C-BIP-P61-R17T1000 20V Brushless 3/4" Sq. 1000Nm Cordless Impact Wrench



Drive Size (Square)	inch	3/4
Torque Range	Nm	0-1200
Max. Torque	Nm	1200
Breakaway Torque	Nm	1600
Impact Per Minute	ipm	0-2300
Free Speed	rpm	1200-1700
Length	mm	231
Width	mm	76
Height	mm	264
Tool Weight W/O Battery	kg	2.7
Charging Time	min	90
Battery Voltage	Volt	20
Ampere	Ah	4.0
Item No.		203 71 310

Included accessories:

1xCordless Impact Wrench(w/o battery) • 1xHook

Features & benefits:

- Max. tightening torque up to 1200Nm.
- Max. reverse disassemble torque up to 1600Nm.
- Impact frequency IPM: 1700 / 2300
- 5 mode drive control brings more output speed and power :
4 forward segment with torque & speed below :
Segment 1: 550Nm / 1000RPM
Segment 2: 1000Nm / 1300RPM
Segment 3: 1200Nm / 1700RPM
Segment T: 1200Nm / 1700RPM
- Segment T mode apply to protect screw, bolt head and surface of workpiece. Tool will shut down when sensing the hitting continuous 2 seconds.
- 2 reverse segment with torque & speed below :
Segment 3: 1200Nm / 1700RPM
Segment RS: 1200Nm / 700RPM
- Segment RS mode apply to shut down when sensing the screw or bolt has come loose.
- Smart overload protection prevent tool and battery damage from overheating.
- Single hand 2 speed operat .
- LED lighten work area.

C-C4-V20A40 20V Fast Charger



Length	mm	190
Width	mm	180
Height	mm	80
Weight	kg	0.67
Item No.		291 71 313

Features & benefits:

- KEMP lithium battery fast charger
- 2Ah charging time around 60min.
- 4Ah charging time around 90min.

A-BCS-A00-R18T10 Thinner Head Air Ratchet Wrench

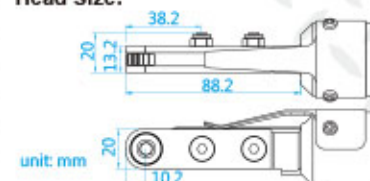
Socket Size	mm	6,7,8,10,11,12
	inch	1/4, 3/8
Max. Torque	Nm	10
Free Speed	rpm	180
Length	mm	300
Weight	kg	1.3
Air Consumption	l/s	8.48
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		105 32 300

Included accessories:

1x 1/4"Coupler • 1x Ring Hanger

Features & benefits:

- Bolt tightening for narrow and distinct spaces .
- For pre-tightening. Strong impulse when torque value reached. Than tightening with Manual Torque Tools

Head Size:

★Remark : Each tool need to order with Socket Size

A-BCS-A01-R19T25 Thinner Head Air Ratchet Wrench

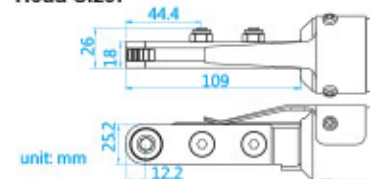
Socket Size	mm	10,11,12,13,14,
	inch	1/2, 9/16
Max. Torque	Nm	25
Free Speed	rpm	220
Length	mm	332
Weight	kg	1.92
Air Consumption	l/s	14.16
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		105 32 301

Included accessories:

1x 1/4"Coupler • 1x Ring Hanger

Features & benefits:

- Bolt tightening for narrow and distinct spaces .
- For pre-tightening. Strong impulse when torque value reached. Than tightening with Manual Torque Tools

Head Size:

★Remark : Each tool need to order with Socket Size

A-BCS-A01-R15T90 Thinner Head Air Ratchet Wrench

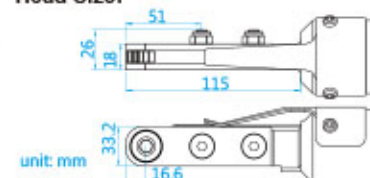
Socket Size	mm	10,11,12,13,14, 15,16,17,18,19
Max. Torque	Nm	90
Free Speed	rpm	150
Length	mm	390
Weight	kg	2.42
Air Consumption	l/s	23.6
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		105 32 302

Included accessories:

1x 1/4"Coupler

Features & benefits:

- Bolt tightening for narrow and distinct spaces .
- For pre-tightening. Strong impulse when torque value reached. Than tightening with Manual Torque Tools

Head Size:

★Remark : Each tool need to order with Socket Size

A-BCS-A01-R13T90 Thinner Head Air Ratchet Wrench

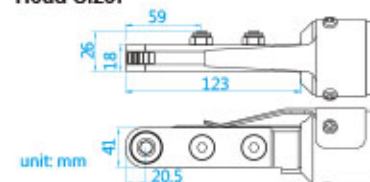
Socket Size	mm	21,22,23,24,26,27
Max. Torque	Nm	90
Free Speed	rpm	130
Length	mm	398
Weight	kg	2.48
Air Consumption	l/s	23.6
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		105 32 303

Included accessories:

1x 1/4"Coupler

Features & benefits:

- Bolt tightening for narrow and distinct spaces .
- For pre-tightening. Strong impulse when torque value reached. Than tightening with Manual Torque Tools

Head Size:

★Remark : Each tool need to order with Socket Size

A-BCS-A01-R11T90 Thinner Head Air Ratchet Wrench



Socket Size	mm	29,30,32
Max. Torque	Nm	90
Free Speed	rpm	110
Length	mm	405
Weight	kg	2.5
Air Consumption	l/s	23.6
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		105 32 304

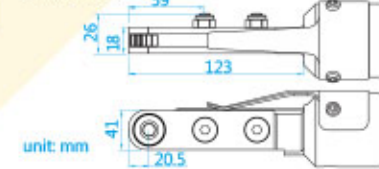
Features & benefits:

- Bolt tightening for narrow and distinct spaces .
- For pre-tightening. Strong impulse when torque value reached. Than tightening with Manual Torque Tools

Included accessories:

1x 1/4"Coupler

Head Size:



★Remark : Each tool need to order with Socket Size

A-BRA-P30-R55T54 3/8" Sq. Air Impact Ratchet Wrench



Drive Size (Square)	inch	3/8
Max. Torque	Nm	54
Free Speed	rpm	550
Length	mm	160
Weight	kg	0.63
Air Consumption	l/s	8.48
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		105 35 102

Features & benefits:

- Bolt tightening for narrow and distinct spaces .
- For pre-tightening. Strong impulse when torque value reached. Than tightening with Manual Torque Tools
- Ergonomics grip bring the comfortable feeling for the operator.
- Built in impact structure . Prevent ratchet reaction force.
- Pin Clutch



Included accessories:

1x 1/4"Coupler

A-BRA-P30-R25T81 3/8" Sq. Air Impact Ratchet Wrench



Drive Size (Square)	inch	3/8
Max. Torque	Nm	81
Free Speed	rpm	250
Length	mm	290
Weight	kg	1.43
Air Consumption	l/s	8.48
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		105 35 110

Features & benefits:

- Bolt tightening for narrow space.
- For pre-tightening. Strong impulse when torque value reached. Than tightening with Manual Torque Tools
- Ergonomics Grip,Bring the comfortable feeling for the operator.
- Built in impact structure . Prevent ratchet reaction force.
- Pin Clutch



Included accessories:

1x 1/4"Coupler

A-BRA-A32-R27T27 3/8" Sq. Air Ratchet Wrench

Drive Size (Square)	inch	3/8
Max. Torque	Nm	27
Free Speed	rpm	270
Length	mm	188
Weight	kg	0.54
Air Consumption	l/s	8.48
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		105 35 104

Features & benefits:

- Bolt tightening for narrow and distinct spaces .
- For pre-tightening. Strong impulse when torque value reached. Than tightening with Manual Torque Tools
- Ergonomics grip bring the comfortable feeling for the operator.

Included accessories:

1x 1/4"Coupler

A-BRA-A41-R16T68 1/2" Sq. Air Ratchet Wrench

Drive Size (Square)	inch	1/2
Max. Torque	Nm	68
Free Speed	rpm	160
Length	mm	257
Weight	kg	1.2
Air Consumption	l/s	5.68
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		105 35 108

Features & benefits:

- Bolt tightening for narrow space.
- For pre-tightening. Strong impulse when torque value reached. Than tightening with Manual Torque Tools
- Ergonomics Grip,Bring the comfortable feeling for the operator.

Included accessories:

1x 1/4"Coupler

A-BRA-A33-R27T54 3/8" Sq. Air Ratchet Wrench

Drive Size (Square)	inch	3/8
Max. Torque	Nm	54
Free Speed	rpm	270
Length	mm	217
Weight	kg	0.68
Air Consumption	l/s	6.6
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		105 35 106

Features & benefits:

- Bolt tightening for narrow space.
- For pre-tightening. Strong impulse when torque value reached. Than tightening with Manual Torque Tools
- Ergonomics Grip,Bring the comfortable feeling for the operator.
- Middle adjustable rotate 360° exhaust, Prevent exhaust to the operator.

Included accessories:

1x 1/4"Coupler

A-BRA-A43-R18T175 1/2" Sq. Air Ratchet Wrench

Drive Size (Square)	inch	1/2
Max. Torque	Nm	175
Free Speed	rpm	180
Length	mm	317
Weight	kg	1.54
Air Consumption	l/s	8.48
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		105 35 112

Features & benefits:

- Bolt tightening for narrow space.
- For pre-tightening. Strong impulse when torque value reached. Than tightening with Manual Torque Tools
- Ergonomics Grip,Bring the comfortable feeling for the operator.
- Middle adjustable rotate 360° exhaust, Prevent exhaust to the operator.

Included accessories:

1x 1/4"Coupler

NBR Handle

Ergonomic shape with non-slip and comfortable features.

Micrometer graduation

For more accurate torque value setting.

Dual graduation window

Dual scale window type; easy readable for Nm/lbf-ft two different units.

Dual graduation window



Chromed steel mechanism:

The robust and resistant fully chromed steel tube is ideal of industrial use. Suitable for industrial applications.

Quick released design

For changing socket quickly. Repair kit for inner spare parts of ratchet head is available.

Adjustment Button

Locking button enables reliable locking of the torque setting. Turn switch CCW direction to "UNLOCK" the wrench for torque setting; turn switch CW direction to "LOCK".



Adjust torque

Easy for the operator adjust torque setting.



Model Nomenclature

M - W A M - P 3 1 - T 2 5

M: Manual Torque Tools

A: Accessories · **G:** Gauge · **M:** Multiplier
S: Screwdriver · **W:** Wrench

A: Adjustable · **P:** Preset · **I:** Interchangeable
G: Gear · **T:** Interchangeable Preset

Handle Type:

A: Alum · **P:** Plastic · **R:** Rubber
S: Steel · **I:** Insulated · **M:** Mini Type

Mechanism:

D: Digital Sensor · **S:** Slipping · **P:** Pawl
M: Multi-lever · **R:** Roller Type

Numerical Value
(Counted by tens)
Nm
Mini Type cNm
Screwdriver cNm

T: Torque

1~9: Ordinal

Output Drive Size:
1: 4mm · **2:** 1/4"(6.35mm) · **3:** 3/8"
4: 1/2" · **5:** 6.35mm Square Drive · **6:** 3/4"
8: 1" · **9:** 1-1/2" · **S:** 9x12 · **M:** 14x18

M-WAP-P Adjustable Torque Wrench

Features & benefits:

- Quality meets DIN ISO 6789 & ASME B10.300-2010
- Tolerance of torque $\pm 3\%$.
- Chromed steel mechanism · Suitable for industrial applications.
- Easily readable window dual graduation .
- Ergonomically shaped and convenient NBR handle grip.



Model	Drive Size (Square)	Teeth T	Torque Range Nm	Graduation unit	Length mm	Weight kg	Item No.
	inch						
M-WAP-P21-T25	1/4	24T	2-25	0.1	296	0.41	401 36 100
M-WAP-P31-T50	3/8	24T	5-50	0.25	333	0.47	401 36 101
M-WAP-P41-T100	1/2	32T	10-100	0.5	400	0.82	401 36 102
M-WAP-P41-T200	1/2	32T	20-200	1	500	1.30	401 36 103
M-WAP-P41-T300	1/2	32T	60-300	1	635	1.47	401 36 104
M-WAP-P61-T600	3/4	24T	100-600	2	1040	4.65	401 36 105
M-WAP-P61-T800	3/4	24T	150-800	2	1240	5.45	401 36 106
M-WAP-P61-T1000	3/4	24T	200-1000	2	1240	5.45	401 36 107

Included accessories: 1xBlow Case

M-WIP-P Interchangeable Adjustable Torque Wrench

Features & benefits:

- Quality meets DIN ISO 6789 & ASME B10.300-2010
- Tolerance of torque $\pm 3\%$.
- Chromed steel mechanism · Suitable for industrial applications.
- Easily readable window dual graduation .
- Ergonomically shaped and convenient NBR handle grip.



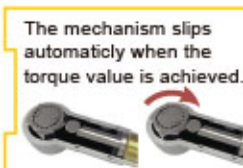
Model	Insert Drive Size	Torque Range Nm	Graduation unit	Length mm	Weight kg	Item No.
	mm					
M-WIP-PS1-T25	9x12	2-25	0.1	265	0.44	406 36 100
M-WIP-PS1-T50	9x12	5-50	0.25	330	0.53	406 36 101
M-WIP-PS1-T100	9x12	10-100	0.5	410	1.03	406 36 102
M-WIP-PM1-T100	14x18	10-100	0.5	440	1.05	406 36 103
M-WIP-PM1-T200	14x18	20-200	1	510	1.23	406 36 104
M-WIP-PM1-T300	14x18	60-300	1	600	1.40	406 36 105

Included accessories: 1xBlow Case

M-WAP-S Adjustable Slipping Torque Wrench

Features & benefits:

- Quality meets DIN ISO 6789 & ASME B10.300-2010
- Tolerance of torque $\pm 6\%$ (1-5Nm · 2-10Nm)
- Tolerance of torque $\pm 4\%$ (5-25Nm · 10-60Nm)
- Easily readable window dual graduation .
- Ergonomically shaped and convenient NBR handle grip.
- Patent mechanism slips automatically to avoid over tightening.
- Chromed steel mechanism · Suitable for industrial applications.



Model	Drive Size (Square)	Teeth T	Torque Range Nm	Graduation unit	Length mm	Weight kg	Item No.
	inch						
M-WAP-S21-T05	1/4	36T	1-5	0.05	260	0.52	401 36 400
M-WAP-S21-T10	1/4	36T	2-10	0.1	260	0.52	401 36 401
M-WAP-S21-T25	1/4	36T	5-25	0.1	320	0.59	401 36 402
M-WAP-S31-T25	3/8	36T	5-25	0.1	320	0.59	401 36 403
M-WAP-S31-T60	3/8	48T	10-60	0.25	355	0.665	401 36 404

Included accessories: 1xBlow Case

M-WAA-M Adjustable Aluminum Torque Wrench

Features & benefits:

- Quality meets DIN ISO 6789 & ASME B10.300-2010
- Tolerance of torque $\pm 3\%$.
- Housing is made of aluminum alloy. Lightweight and robust.
- Multi-lever mechanism brings length independence and accurate torque.
- It is suitable for heavy, aerospace industry, wind power industry and automation industries.
- Quick pull out and easy adjustment with unique crank.



Easy adjustment and lock design



No accuracy will be interference with any grip position to apply exerting force on.



Model	Drive Size (Square)	Torque Range	Graduation	Length	Weight	Item No.
	inch					
M-WAA-M41-T120	1/2	20-120	5	475	1.24	401 36 300
M-WAA-M41-T200	1/2	40-200	5	563	1.5	401 36 301
M-WAA-M41-T300	1/2	50-300	5	625	1.65	401 36 302
M-WAA-M61-T550	3/4	110-550	10	827	3.0	401 36 303
M-WAA-M61-T760	3/4	140-760	10	827	3.0	401 36 304
M-WAA-M61-T1000	3/4	200-1000	10	1413	3.8	401 36 305
M-WAA-M81-T1500	1	600-1500	25	1615	10.9	401 36 306
M-WAA-M81-T2000	1	750-2000	50	2370	11.7	401 36 307
M-WAA-M91-T3000	1-1/2	1500-3000	50	2820	16.4	401 36 308

Included accessories: 1xBlow Case

M-WAM-P Mini Type Adjustable Torque Wrench

Features & benefits:

- Quality meets DIN ISO 6789 & ASME B10.300-2010
- Tolerance of torque $\pm 3\%$.
- Chromed steel mechanism · Suitable for industrial applications.
- Locking button enables reliable locking of the torque setting.
- Non-slip knurled handle design.



Locking button design



Model	Drive Size (Square)	Teeth	Torque Range	Graduation	Length	Weight	Item No.
	inch						
M-WAM-P21-T06	1/4	64T	1-6	0.05	210	0.288	401 36 600
M-WAM-P21-T15	1/4	64T	3-15	0.1	210	0.288	401 36 601
M-WAM-P31-T15	3/8	64T	3-15	0.1	210	0.288	401 36 602
M-WAM-P31-T25	3/8	64T	5-25	0.2	248	0.325	401 36 603

Included accessories: 1xBlow Case

M-WIM-P Mini Type Interchangeable Torque Wrench

Features & benefits:

- Quality meets DIN ISO 6789 & ASME B10.300-2010
- Tolerance of torque $\pm 3\%$.
- Chromed steel mechanism · Suitable for industrial applications.
- Locking button enables reliable locking of the torque setting.
- Non-slip knurled handle design.



Model	Insert Drive Size	Torque Range	Graduation	Length	Weight	Item No.
	mm					
M-WIM-PS1-T06	9x12	1-6	0.05	197	0.29	406 36 200
M-WIM-PS1-T15	9x12	3-15	0.1	197	0.29	406 36 201
M-WIM-PS1-T25	9x12	5-25	0.2	227	0.33	406 36 202

Included accessories: 1xBlow Case

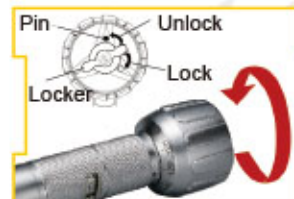
M-WAS-P Adjustable Click Torque Wrench

Features & benefits:

- Quality meets DIN ISO 6789 & ASME B10.300-2010
- Tolerance of torque $\pm 3\%$.
- Chromed steel mechanism. Suitable for industrial applications.
- Loud click sound and strong impulse when torque value reached.
- Non-slip knurled handle design.
- Scale window torque reading.



Torque Set Up



Model	Drive Size (Square)	Teeth	Torque Range	Graduation	Length	Weight	Item No.
	inch						
M-WAS-P21-T02	1/4	24T	0.4-2	0.02	173	0.2	401 36 200
M-WAS-P21-T05	1/4	24T	1-5	0.05	173	0.2	401 36 201
M-WAS-P21-T10	1/4	24T	2-10	0.1	173	0.2	401 36 202
M-WAS-P21-T15	1/4	24T	3-15	0.1	223	0.25	401 36 203
M-WAS-P21-T25	1/4	24T	5-25	0.25	240	0.45	401 36 204
M-WAS-P31-T25	3/8	24T	5-25	0.25	240	0.45	401 36 205
M-WAS-P31-T50	3/8	24T	10-50	0.5	260	0.5	401 36 206
M-WAS-P31-T100	3/8	24T	20-100	1	342	0.8	401 36 207
M-WAS-P41-T100	1/2	24T	20-100	1	342	0.8	401 36 208
M-WAS-P41-T140	1/2	24T	30-140	1	410	1.0	401 36 209
M-WAS-P41-T200	1/2	24T	40-200	2	498	1.5	401 36 210

Included accessories: 1xBlow Case

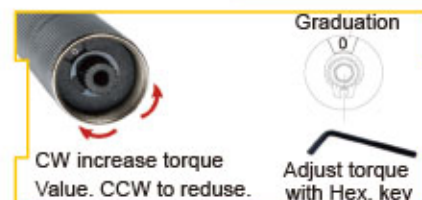
M-WPS-P Pre-Lock Torque Wrench

Features & benefits:

- Quality meets DIN ISO 6789 & ASME B107.300-2010.
- Tolerance of torque $\pm 3\%$.
- Chromed steel mechanism. Suitable for industrial applications.
- Loud click sound and strong impulse when torque value reached.
- Non-slip knurled handle design.
- The presetting value is adjusted by the inner screw.
- Scale window torque reading.
- Pre-lock torque adjustment with hex. key only. Avoid adjust torque by accident while operating.



Torque Set Up



Model	Drive Size (Square)	Teeth	Torque Range	Graduation	Length	Weight	Item No.
	inch						
M-WPS-P22-T10	1/4	24T	2-10	0.1	167	0.19	404 36 301
M-WPS-P22-T15	1/4	24T	3-15	0.1	218	0.23	404 36 302
M-WPS-P22-T25	1/4	24T	5-25	0.25	224	0.24	404 36 303
M-WPS-P32-T50	3/8	24T	10-50	0.25	247	0.51	404 36 304
M-WPS-P32-T100	3/8	24T	20-100	1	324	0.65	404 36 305
M-WPS-P42-T100	1/2	24T	20-100	1	325	0.65	404 36 306
M-WPS-P42-T140	1/2	24T	30-140	1	354	0.72	404 36 307
M-WPS-P42-T200	1/2	24T	40-200	2	475	1.32	404 36 308
M-WPS-P62-T280	3/4	24T	40-280	2	550	1.53	404 36 309
M-WPS-P62-T420	3/4	24T	60-420	2	605	1.68	404 36 310

Included accessories: 1xBlow Case • 1x Hex. key

M-WPR-P Preset Torque Wrench

Features & benefits:

- Quality meets DIN ISO 6789 & ASME B107.300-2010.
- Tolerance of torque $\pm 3\%$.
- Chromed steel mechanism · Suitable for industrial applications.
- The presetting value is adjusted by the inner screw.



Model	Drive Size (Square)	Teeth	Torque Range	Length	Weight	Item No.
	inch					
M-WPR-P21-T10	1/4	24T	2-10	224	0.4	404 36 100
M-WPR-P31-T20	3/8	24T	4-20	285	0.53	404 36 104
M-WPR-P31-T60	3/8	24T	10-60	285	0.53	404 36 105
M-WPR-P31-T100	3/8	32T	20-100	355	0.95	404 36 106
M-WPR-P41-T100	1/2	32T	20-100	355	0.95	404 36 107
M-WPR-P41-T200	1/2	32T	40-200	430	1.21	404 36 108
M-WPR-P41-T340	1/2	32T	60-340	534	1.45	404 36 109
M-WPR-P61-T600	3/4	24T	100-600	1050	4.6	404 36 110

Included accessories: 1xBlow Case

M-WTR-P Interchangeable Preset Torque Wrench

Features & benefits:

- Quality meets DIN ISO 6789 & ASME B107.300-2010.
- Tolerance of torque $\pm 3\%$.
- Chromed steel mechanism · Suitable for industrial applications.
- The presetting value is adjusted by the inner screw.



Model	Insert Drive Size	Torque Range	Length	Weight	Item No.
	mm				
M-WTR-PS1-T10	9 x 12	2-10	207	0.32	405 36 100
M-WTR-PS1-T20	9 x 12	4-20	258	0.39	405 36 101
M-WTR-PS1-T60	9 x 12	10-60	258	0.39	405 36 102
M-WTR-PS1-T100	9 x 12	20-100	355	1	405 36 103
M-WTR-PM1-T100	14 x 18	20-100	378	1	405 36 200
M-WTR-PM1-T200	14 x 18	40-200	405	1.25	405 36 201
M-WTR-PM1-T340	14 x 18	60-340	490	1.4	405 36 202
M-WTR-PM1-T600	14 x 18	100-600	984	5	405 36 203

Included accessories: 1xBlow Case

C-SAM-D Mini Digital Torque Screwdriver

Features & benefits:

- Torque Accuracy CW:±2% CCW:±3%
- P(Peak Hold)/T(Track) Mode, Over Maximum torque records.
- LCD Readout · Three Units Selectable
cNm, kg-cm, in-lb
- Buzzer (warning signal)
- Anti-slip Handle



- Bright LED · 2 LEDs
(1 Red+1 Green)



Model	Drive Size (Hex.)	Torque Range	Graduation	Length	Weight	Item No.
	inch	N.cm	N.cm	mm	kg	
C-SAM-D23-T005	1/4	5~50	0.1	203	0.26	412 44 200
C-SAM-D23-T020	1/4	10~200	0.1	203	0.26	412 44 201
C-SAM-D23-T040	1/4	20~400	0.1	203	0.26	412 44 202

Included accessories: 1x AAA Battery • 1xBlow Case

Remark :

- Operating Temperature Range : -10°C~ 60°C, Storage Temperature Range : -20°C~ 70°C, Humidity : Up to 90% non-condensing
- Test Pass: CE test · 1M Drop Test · 10G Vibration Test · Environmental test · Lift test
- Without data memory . For opt. function could selet with torque setting and data memory records.
- Accuracy is guaranteed from 20% to 100% full scale.

C-WAM-D Mini Digital Torque Wrench

Features & benefits:

- Torque Accuracy CW:±2% CCW:±3%
- P(Peak Hold)/T(Track) Mode, Over Maximum torque records.
- LCD Readout · Four Units Selectable
Nm, kg-cm, ft-lb, in-lb
- Buzzer (warning signal)
- Anti-slip Handle



- Bright LED · 2 LEDs
(1 Red+1 Green)



Model	Drive Size (Square)	Teeth	Torque Range	Graduation	Length	Weight	Item No.
	inch	T	Nm	Nm	mm	kg	
C-WAM-D23-T6	1/4	60	0.3~6	0.001	216	0.26	411 44 600
C-WAM-D23-T12	1/4	60	0.6~12	0.01	216	0.26	411 44 601
C-WAM-D23-T20	1/4	60	1~20	0.01	216	0.26	411 44 602
C-WAM-D23-T30	1/4	60	1.5~30	0.01	216	0.26	411 44 603
C-WAM-D33-T60	3/8	48	3~60	0.01	290	0.37	411 44 604
C-WAM-D33-T85	3/8	48	4.2~85	0.1	290	0.37	411 44 605

Included accessories: 1x AAA Battery • 1xBlow Case

Remark :

- Operating Temperature Range : -10°C~ 60°C, Storage Temperature Range : -20°C~ 70°C, Humidity : Up to 90% non-condensing
- Test Pass: CE test · 1M Drop Test · 10G Vibration Test · Environmental test · Lift test
- Without data memory . For opt. function could selet with torque setting and data memory records.
- Accuracy is guaranteed from 20% to 100% full scale.



C-WAP-D Digital Torque Wrench

Features & benefits:

- Torque Accuracy CW:±2% CCW:±3%
- P(Peak Hold)/ T(Track) Mode , Over Maximum torque records.
- LCD Readout · Four Units Selectable Nm , kg-cm , ft-lb , in-lb
- Buzzer (warning signal)
- Anti-slip Handle



- Bright LED · 12 LEDs (4 Red+8 Green)



Model	Drive Size (Square)	Teeth	Torque Range	Graduation	Length	Weight	Item No.
	inch						
C-WAP-D23-T30	1/4	36	1.5~30	0.01	390	0.76	411 44 101
C-WAP-D33-T135	3/8	36	6.8~135	0.1	415	0.94	411 44 102
C-WAP-D43-T135	1/2	36	6.8~135	0.1	415	0.96	411 44 103
C-WAP-D43-T200	1/2	36	10~200	0.1	530	1.34	411 44 104
C-WAP-D43-T340	1/2	36	17~340	0.1	650	1.54	411 44 105
C-WAP-D63-T500	3/4	48	25~500	0.1	950	2.95	411 44 106
C-WAP-D63-T850	3/4	48	42.5~850	0.1	1220	4.26	411 44 107
C-WAP-D83-T1200	1	48	60~1200	1	1800	9	411 44 108
C-WAP-D83-T1500	1	48	75~1500	1	1800	9	411 44 109
C-WAP-D83-T2000	1	48	100~2000	1	1800	10.5	411 44 110

Included accessories: 2x AA Battery · 1x Blow Case

Remark :

- Operating Temperature Range : -10°C~ 60°C , Storage Temperature Range : -20°C~ 70°C , Humidity : Up to 90% non-condensing
- Test Pass: CE test · 1M Drop Test · 10G Vibration Test · Environmental test · Lift test
- Without data memory . For opt. function could selet with torque setting and data memory records.
- Accuracy is guaranteed from 20% to 100% full scale.



C-WIP-D Interchangeable Digital Torque Wrench

Features & benefits:

- Torque Accuracy CW:±2% CCW:±3%
- P(Peak Hold)/ T(Track) Mode , Over Maximum torque records.
- LCD Readout · Four Units Selectable Nm , kg-cm , ft-lb , in-lb
- Buzzer (warning signal)
- Anti-slip Handle



- Bright LED · 12 LEDs (4 Red+8 Green)



Model	Drive Size (Square)	Insert Drive Size	Torque Range	Graduation	Length	Weight	Item No.
	inch	mm					
C-WIP-DS2-T30	1/4	9x12	1.5~30	0.01	390	0.75	416 44 101
C-WIP-DS3-T60	3/8	9x12	3.0~60	0.01	410	0.98	416 44 106
C-WIP-DS3-T135	3/8	9x12	6.8~135	0.1	415	0.94	416 44 102
C-WIP-DS4-T135	1/2	9x12	6.8~135	0.1	415	0.96	416 44 103
C-WIP-DM4-T200	1/2	14x18	10~200	0.1	545	1.37	416 44 104
C-WIP-DM4-T340	1/2	14x18	17~340	0.1	640	1.52	416 44 105

Included accessories: 2x AA Battery · 1x Blow Case

Remark :

- Operating Temperature Range : -10°C~ 60°C , Storage Temperature Range : -20°C~ 70°C , Humidity : Up to 90% non-condensing
- Test Pass: CE test · 1M Drop Test · 10G Vibration Test · Environmental test · Lift test
- Without data memory . For opt. function could selet with torque setting and data memory records.
- Accuracy is guaranteed from 20% to 100% full scale.



C-WCP-D One Step Interchangeable Digital Torque Wrench

Features & benefits:

- Torque Accuracy CW:±2% CCW:±3%
angle accuracy:±2°
- Angle setting · set torque/angle value
- 9 sets of presets · 250 records data memory
- P(Peak Hold) / T(Track) Mode ,
Over Maximum torque records.
- LCD Readout · Five Units Selectable
(N-m, ft-lb, in-lb, kg-cm, Degree)
- Buzzer (warning signal)
- Anti-slip Handle



- Bright LED · 12 LEDs
(2 Red+10 Green)



One-step
application

Model	Drive Size (Square)	Insert Drive Size	Torque Range	Graduation	Length	Weight	Item No.
	inch	mm	Nm	Nm	mm	kg	
C-WCP-DS2-T30	1/4	9x12	1.5~30	0.01	390	0.76	415 44 201
C-WCP-DS3-T60	3/8	9x12	3.0~60	0.01	415	0.94	415 44 202
C-WCP-DS3-T135	3/8	9x12	6.8~135	0.1	415	0.94	415 44 203
C-WCP-DS4-T135	1/2	9x12	6.8~135	0.1	415	0.96	415 44 204
C-WCP-DM4-T200	1/2	14x18	10~200	0.1	530	1.34	415 44 205
C-WCP-DM4-T340	1/2	14x18	17~340	0.1	650	1.54	415 44 206

Included accessories: 2x AA Battery · 1x Blow Case

Remark :

- Operating Temperature Range : -10°C~ 60°C ,
Storage Temperature Range : -20°C~ 70°C ,
Humidity : Up to 90% non-condensing
- Test Pass: CE test · 1M Drop Test · 10G Vibration Test · Environmental test · Lift test
- Accuracy is guaranteed from 20% to 100% full scale.



C-WKP-D QC Interchangeable Digital Torque Wrench

Features & benefits:

- Torque Accuracy CW:±2% CCW:±3%
- Quality inspection to confirm torque value of
pretightened bolt.
- M1 : QC mode · P(Peak Hold) mode only
- M2 : Torque measurement mode:
P(Peak Hold) / T(Track) Mode ,
- 50 records data memory
- P(Peak Hold) / T(Track) Mode ,
Over Maximum torque records.
- LCD Readout · Four Units Selectable
Nm , kg-cm , ft-lb , in-lb
- Buzzer warning signal (M1 mode only)
- Anti-slip Handle



- Bright LED · 12 LEDs
(2 Red+10 Green)
(M1 mode only)



QC CHECK

Model	Drive Size (Square)	Insert Drive Size	Torque Range	Graduation	Length	Weight	Item No.
	inch	mm	Nm	Nm	mm	kg	
C-WKP-DS2-T30	1/4	9x12	1.5~30	0.01	390	0.76	419 44 401
C-WKP-DS3-T60	3/8	9x12	3.0~60	0.01	415	0.94	419 44 402
C-WKP-DS3-T135	3/8	9x12	6.8~135	0.1	415	0.94	419 44 403
C-WKP-DS4-T135	1/2	9x12	6.8~135	0.1	415	0.96	419 44 404
C-WKP-DM4-T200	1/2	14x18	10~200	0.1	530	1.34	419 44 405
C-WKP-DM4-T340	1/2	14x18	17~340	0.1	650	1.54	419 44 406

Included accessories: 2x AA Battery · 1x Blow Case

Remark :

- Operating Temperature Range : -10°C~ 60°C ,
Storage Temperature Range : -20°C~ 70°C ,
Humidity : Up to 90% non-condensing
- Test Pass: CE test · 1M Drop Test · 10G Vibration Test · Environmental test · Lift test
- Accuracy is guaranteed from 20% to 100% full scale.



C-WWP WIFI Digital Torque Wrench

Features & benefits:

- Torque Accuracy CW:±1% CCW:±2% angle accuracy:±2°
- Accuracy is guaranteed from 20% to 100% full scale.
- Angle setting · set torque/angle value
- 10 sets of presets · 2000 records data memory
- P(Peak Hold)/ T(Track) Mode , Over Maximum torque records.
- LCD Readout · Five Units Selectable (N-m, ft-lb, in-lb, kg-cm, Degree)
- Buzzer (warning signal)
- Wireless transmission
- Online Calibration



- Bright LED · 12 LEDs (2 Red+10 Green)



Wifi



Model	Drive Size (Square)	Insert Drive Size	Torque Range	Graduation	Length	Weight	Item No.
	inch	mm	Nm	Nm	mm	kg	
C-WWP-DS2-T30	1/4"	9 x 12	1.5~30	0.01	390	0.79	421 44 401
C-WWP-DS3-T60	3/8"	9 x 12	3.0~60	0.01	410	0.97	421 44 402
C-WWP-DS3-T135	3/8"	9 x 12	6.8~135	0.1	410	0.97	421 44 403
C-WWP-DS4-T135	1/2"	9 x 12	6.8~135	0.1	410	0.98	421 44 404
C-WWP-DM4-T200	1/2"	14 x 18	10~200	0.1	545	1.37	421 44 405
C-WWP-DM4-T340	1/2"	14 x 18	17~340	0.1	640	1.52	421 44 406

Included accessories: 2x AA Battery · 1x Monitoring software · 1x Blow Case

Remark :

- Operating Temperature Range : -10°C~ 60°C , Storage Temperature Range : -20°C~ 70°C , Humidity : Up to 90% non-condensing.
- Test Pass: CE test · 1M Drop Test · 10G Vibration Test · Environmental test · Lift test
- Insert ratchet head is standard. Refer to the catalog for other type Insert head ,please .



C-WBP BT Digital Torque Wrench

Features & benefits:

- Torque Accuracy CW:±1% CCW:±2% angle accuracy:±2°
- Accuracy is guaranteed from 20% to 100% full scale.
- Angle setting · set torque/angle value
- 10 sets of presets · 2000 records data memory
- P(Peak Hold)/ T(Track) Mode , Over Maximum torque records.
- LCD Readout · Five Units Selectable (N-m, ft-lb, in-lb, kg-cm, Degree)
- Buzzer (warning signal)
- Wireless transmission
- Online Calibration



- Bright LED · 12 LEDs (2 Red+10 Green)



Bluetooth



Model	Drive Size (Square)	Insert Drive Size	Torque Range	Graduation	Length	Weight	Item No.
	inch	mm	Nm	Nm	mm	kg	
C-WBP-DS2-T30	1/4"	9 x 12	1.5~30	0.01	390	0.79	421 44 411
C-WBP-DS3-T60	3/8"	9 x 12	3.0~60	0.01	410	0.97	421 44 412
C-WBP-DS3-T135	3/8"	9 x 12	6.8~135	0.1	410	0.97	421 44 413
C-WBP-DS4-T135	1/2"	9 x 12	6.8~135	0.1	410	0.98	421 44 414
C-WBP-DM4-T200	1/2"	14 x 18	10~200	0.1	545	1.37	421 44 415
C-WBP-DM4-T340	1/2"	14 x 18	17~340	0.1	640	1.52	421 44 416

Included accessories: 2x AA Battery · 1x Monitoring software · 1x Blow Case

Remark :

- Operating Temperature Range : -10°C~ 60°C , Storage Temperature Range : -20°C~ 70°C , Humidity : Up to 90% non-condensing.
- Test Pass: CE test · 1M Drop Test · 10G Vibration Test · Environmental test · Lift test
- Insert ratchet head is standard. Refer to the catalog for other type Insert head ,please .



C-TWP TFT WIFI Digital Torque Wrench

Features & benefits:

- Torque Accuracy CW: $\pm 1\%$ CCW: $\pm 2\%$
angle accuracy: $\pm 2^\circ$
- Accuracy is guaranteed from 20% to 100% full scale.
- Angle setting · set torque/angle value
- 10 sets of presets · 500000 records data memory
- P(Peak Hold) / T(Track) Mode ,
Over Maximum torque records.
- TFT screen Readout · Five Units Selectable
(N-m, ft-lb, in-lb, kg-cm, Degree)
- Buzzer (warning signal)
- Wireless transmission
- Online Calibration



Model	Drive Size (Square)	Insert Drive Size	Torque Range	Graduation	Length	Weight	Item No.
	inch	mm	Nm	Nm	mm	kg	
C-TWP-DS2-T30	1/4"	9 x 12	1.5~30	0.01	345	0.7	421 44 801
C-TWP-DS3-T60	3/8"	9 x 12	3.0~60	0.1	388	0.86	421 44 802
C-TWP-DS3-T135	3/8"	9 x 12	6.8~135	0.1	417	1.02	421 44 803
C-TWP-DS4-T135	1/2"	9 x 12	6.8~135	0.1	417	1.02	421 44 804
C-TWP-DM4-T200	1/2"	14 x 18	10~200	0.1	535	1.47	421 44 805
C-TWP-DM4-T340	1/2"	14 x 18	17~340	0.1	655	1.65	421 44 806

Included accessories: 18650 Li-ion Battery • 1x Monitoring software • 1x Blow Case

Remark :

- Operating Temperature Range : $-10^\circ\text{C} \sim 60^\circ\text{C}$, Storage Temperature Range : $-20^\circ\text{C} \sim 70^\circ\text{C}$, Humidity : Up to 90% non-condensing.
- Test Pass: CE test · 1M Drop Test · 10G Vibration Test · Environmental test · Lift test
- Insert ratchet head is standard. Refer to the catalog for other type Insert head ,please .



C-TBP TFT BT Digital Torque Wrench

Features & benefits:

- Torque Accuracy CW: $\pm 1\%$ CCW: $\pm 2\%$
angle accuracy: $\pm 2^\circ$
- Accuracy is guaranteed from 20% to 100% full scale.
- Angle setting · set torque/angle value
- 10 sets of presets · 500000 records data memory
- P(Peak Hold) / T(Track) Mode ,
Over Maximum torque records.
- TFT screen Readout · Five Units Selectable
(N-m, ft-lb, in-lb, kg-cm, Degree)
- Buzzer (warning signal)
- Wireless transmission
- Online Calibration



Bluetooth



Model	Drive Size (Square)	Insert Drive Size	Torque Range	Graduation	Length	Weight	Item No.
	inch	mm	Nm	Nm	mm	kg	
C-TBP-DS2-T30	1/4"	9 x 12	1.5~30	0.01	345	0.7	421 44 811
C-TBP-DS3-T60	3/8"	9 x 12	3.0~60	0.1	388	0.86	421 44 812
C-TBP-DS3-T135	3/8"	9 x 12	6.8~135	0.1	417	1.02	421 44 813
C-TBP-DS4-T135	1/2"	9 x 12	6.8~135	0.1	417	1.02	421 44 814
C-TBP-DM4-T200	1/2"	14 x 18	10~200	0.1	535	1.47	421 44 815
C-TBP-DM4-T340	1/2"	14 x 18	17~340	0.1	655	1.65	421 44 816

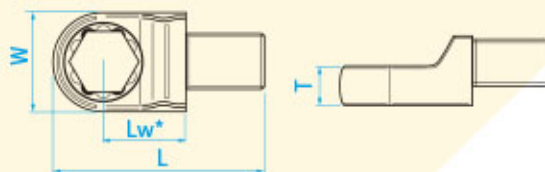
Included accessories: 18650 Li-ion Battery • 1x Monitoring software • 1x Blow Case

Remark :

- Operating Temperature Range : $-10^\circ\text{C} \sim 60^\circ\text{C}$, Storage Temperature Range : $-20^\circ\text{C} \sim 70^\circ\text{C}$, Humidity : Up to 90% non-condensing.
- Test Pass: CE test · 1M Drop Test · 10G Vibration Test · Environmental test · Lift test
- Insert ratchet head is standard. Refer to the catalog for other type Insert head ,please .



Interchangeable Insert Tools Square End

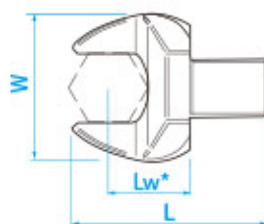


Ring Type

Model	Hex Size	Insert Drive Size	Lw*	W	T	L	Weight	Item No.
	mm						kg	
M-IRS-S07	07	9x12	17.5	19.8	8	40.8	0.037	407 36 107
M-IRS-S08	08	9x12	17.5	19.8	8	40.8	0.037	407 36 108
M-IRS-S10	10	9x12	17.5	20	8	42.6	0.039	407 36 110
M-IRS-S11	11	9x12	17.5	20.2	8	43.5	0.042	407 36 111
M-IRS-S12	12	9x12	17.5	22.2	12	44	0.051	407 36 112
M-IRS-S13	13	9x12	17.5	22.2	12	44.5	0.051	407 36 113
M-IRS-S14	14	9x12	17.5	23.5	12	46	0.053	407 36 114
M-IRS-S15	15	9x12	17.5	24.6	12	46.7	0.054	407 36 115
M-IRS-S16	16	9x12	17.5	26.4	13	47	0.056	407 36 116
M-IRS-S17	17	9x12	17.5	27.3	13	47.3	0.055	407 36 117
M-IRS-S18	18	9x12	17.5	29	13	48.4	0.060	407 36 118
M-IRS-S19	19	9x12	17.5	31	13	49.4	0.063	407 36 119
M-IRS-S21	21	9x12	17.5	33.4	14.7	49.8	0.068	407 36 121
M-IRS-S22	22	9x12	17.5	35	14.7	51.4	0.071	407 36 122

Model	Hex Size	Insert Drive Size	Lw*	W	T	L	Weight	Item No.
	mm						kg	
M-IRM-S13	13	14x18	25	30	12	61.5	0.130	407 36 213
M-IRM-S14	14	14x18	25	30	12	62	0.132	407 36 214
M-IRM-S15	15	14x18	25	30	12	62.5	0.132	407 36 215
M-IRM-S16	16	14x18	25	30	12	62.5	0.137	407 36 216
M-IRM-S17	17	14x18	25	30.5	12.5	64	0.141	407 36 217
M-IRM-S18	18	14x18	25	30.5	12.5	64.5	0.139	407 36 218
M-IRM-S19	19	14x18	25	31	12.5	66	0.145	407 36 219
M-IRM-S21	21	14x18	25	33.4	12.5	67.4	0.152	407 36 221
M-IRM-S22	22	14x18	25	35.2	15	68	0.157	407 36 222
M-IRM-S24	24	14x18	25	37.4	15	68.5	0.162	407 36 224
M-IRM-S27	27	14x18	31	41.7	17.5	77.5	0.205	407 36 227

Interchangeable Insert Tools Square End

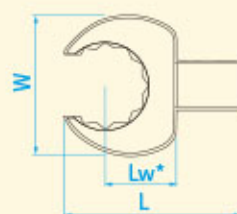


Open Ended Insert Tools

Model	Hex Size	Insert Drive Size	Lw*	W	T	L	Weight	Item No.
	mm	mm	mm	mm	mm	mm	kg	
M-IES-S07	07	9 x 12	17.5	20.7	5.7	37.6	0.037	40736307
M-IES-S08	08	9 x 12	17.5	22	5.7	37.6	0.038	40736308
M-IES-S09	9	9 x 12	17.5	23.5	5.7	37.6	0.372	40736309
M-IES-S10	10	9 x 12	17.5	24.8	5.7	39.8	0.042	40736310
M-IES-S11	11	9 x 12	17.5	26	5.7	39.8	0.040	40736311
M-IES-S12	12	9 x 12	17.5	27.5	5.7	39.8	0.041	40736312
M-IES-S13	13	9 x 12	17.5	28.8	5.7	40	0.046	40736313
M-IES-S14	14	9 x 12	20	31.5	7.7	43	0.055	40736314
M-IES-S15	15	9 x 12	20	33.5	7.7	44	0.056	40736315
M-IES-S16	16	9 x 12	20	36	7.7	44	0.058	40736316
M-IES-S17	17	9 x 12	20	37.7	7.7	44	0.058	40736317
M-IES-S18	18	9 x 12	20	39	7.7	45.2	0.060	40736318
M-IES-S19	19	9 x 12	20	41.6	7.7	45.2	0.064	40736319
M-IES-S21	21	9 x 12	25	45.5	11.5	52.2	0.118	40736321
M-IES-S22	22	9 x 12	25	47.3	11.5	52.2	0.119	40736322
M-IES-S24	24	9 x 12	25	50.8	11.5	54	0.121	40736324
M-IES-S27	27	9 x 12	32.5	58.7	13	60	0.201	40736327
M-IES-S30	30	9 x 12	32.5	63.7	13.5	61.5	0.197	40736330
M-IES-S32	32	9 x 12	32.5	65	13.5	63	0.202	40736332
M-IES-S36	36	9 x 12	32.5	67.5	13.5	64.8	0.203	40736336

Model	Hex Size	Insert Drive Size	Lw*	W	T	L	Weight	Item No.
	mm	mm	mm	mm	mm	mm	kg	
M-IEM-S13	13	14 x 18	25	29.5	7	58	0.117	40736413
M-IEM-S14	14	14 x 18	25	31.4	7	58	0.120	40736414
M-IEM-S15	15	14 x 18	25	33.5	7	58	0.116	40736415
M-IEM-S16	16	14 x 18	25	36	7	58.5	0.128	40736416
M-IEM-S17	17	14 x 18	25	37	9	59.5	0.138	40736417
M-IEM-S18	18	14 x 18	25	39	9	60.4	0.136	40736418
M-IEM-S19	19	14 x 18	25	40.6	9	61.5	0.140	40736419
M-IEM-S21	21	14 x 18	25	45.5	11	61.5	0.160	40736421
M-IEM-S22	22	14 x 18	25	47.3	11	62.3	0.163	40736422
M-IEM-S23	23	14 x 18	25	47.8	11	62.3	0.165	40736423
M-IEM-S24	24	14 x 18	25	50.8	11	63.2	0.169	40736424
M-IEM-S25	25	14 x 18	30	58.4	11	69	0.169	40736425
M-IEM-S26	26	14 x 18	30	58.4	13.8	69	0.169	40736426
M-IEM-S27	27	14 x 18	32.5	58.4	13.8	69	0.239	40736427
M-IEM-S30	30	14 x 18	32.5	62.5	13.8	70.5	0.250	40736430
M-IEM-S32	32	14 x 18	32.5	65	13.8	72.5	0.248	40736432
M-IEM-S34	34	14 x 18	32.5	67.5	13.8	74	0.253	40736434
M-IEM-S36	36	14 x 18	32.5	67.5	13.8	74	0.244	40736436
M-IEM-S38	38	14 x 18	32.5	67.5	13.8	74	0.230	40736438
M-IEM-S40	40	14 x 18	40	83.4	13.8	80.5	0.316	40736440
M-IEM-S41	41	14 x 18	40	82.3	13.8	80.5	0.316	40736441
M-IEM-S46	46	14 x 18	50	98.6	20	91.1	0.632	40736446
M-IEM-S48	48	14 x 18	50	105	30.5	96.9	0.760	40736448
M-IEM-S50	50	14 x 18	50	105	30.5	96.9	0.736	40736450
M-IEM-S55	55	14 x 18	50	105	30.5	96.9	0.707	40736455
M-IEM-S70	70	14 x 18	84.5	149.2	33.5	136.2	1.746	40736470

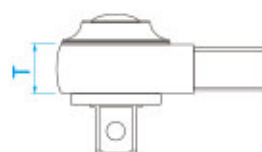
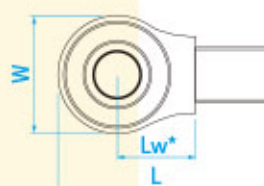
Interchangeable Insert Tools Square End



Open Ring Type

Model	Size	Insert Drive Size	Lw*	W	T	L	Weight	Item No.
	mm	mm	mm	mm	mm	mm	kg	
M-IOS-S10	10	9x12	17.5	21.2	12	42.3	0.059	407 36 510
M-IOS-S11	11	9x12	17.5	22.6	12	42.8	0.052	407 36 511
M-IOS-S12	12	9x12	17.5	24.1	12	43.4	0.053	407 36 512
M-IOS-S13	13	9x12	17.5	25.2	12	43.7	0.053	407 36 513
M-IOS-S14	14	9x12	17.5	27.3	13	44.5	0.058	407 36 514
M-IOS-S16	16	9x12	17.5	30.1	13	45.4	0.059	407 36 516
M-IOS-S17	17	9x12	17.5	31.6	13	45.9	0.061	407 36 517
M-IOS-S18	18	9x12	17.5	33.3	15	46.1	0.067	407 36 518
M-IOS-S19	19	9x12	17.5	34.6	15	46.8	0.068	407 36 519
M-IOS-S21	21	9x12	17.5	37.7	15	48	0.072	407 36 521
M-IOS-S22	22	9x12	17.5	39.3	15	48.8	0.076	407 36 522

Model	Size	Insert Drive Size	Lw*	W	T	L	Weight	Item No.
	mm	mm	mm	mm	mm	mm	kg	
M-IOM-S24	24	14x18	24.5	37.5	15	68.8	0.169	407 36 624



Ratchet Push Type

Model	Size	Insert Drive Size	Lw*	W	T	L	Weight	Item No.
	mm	mm	mm	mm	mm	mm	kg	
M-IHS-P2	1/4	9x12	17.5	24.8	11.2	46	0.068	407 36 700
M-IHS-P3	3/8	9x12	17.5	30.2	11.2	49	0.098	407 36 701

Model	Size	Insert Drive Size	Lw*	W	T	L	Weight	Item No.
	mm	mm	mm	mm	mm	mm	kg	
M-IHM-P3	3/8	14x18	25	38	16	68.4	0.242	407 36 710
M-IHM-P4	1/2	14x18	25	38	16	68.8	0.270	407 36 711

Remark : 72T Type

M-SAR-R Adjustable Torque Screwdriver

Features & benefits:

- Quality meets DIN ISO 6789 & ASME B10.300-2010
- Tolerance of torque $\pm 6\%$
- Locking button enables reliable locking of the torque setting.
- Non-slip ergonomics handle design.
- Automatic slip design when the desire torque setting is achieved, the cam mechanism automatically slips to prevent over-tightening.



Model	Drive Size	Torque Range	Graduation	Length	Weight	Item No.
	inch	Nm	unit	mm	kg	
M-SAR-R21-T012	1/4" Hex.	0.1-1.2	0.01	180	0.23	402 36 100
M-SAR-R21-T035	1/4" Hex.	1-3.5	0.05	200	0.3	402 36 101
M-SAR-R21-T060	1/4" Hex.	1-6	0.1	200	0.3	402 36 102
M-SAR-R21-T090	1/4" Hex.	4-9	0.1	200	0.3	402 36 103
M-SAR-R21-T100	1/4" Hex.	5-10	0.1	200	0.3	402 36 104
M-SAR-R51-T012	1/4" Sq.	0.1-1.2	0.01	180	0.23	402 36 105
M-SAR-R51-T035	1/4" Sq.	1-3.5	0.05	200	0.3	402 36 106
M-SAR-R51-T060	1/4" Sq.	1-6	0.1	200	0.3	402 36 107
M-SAR-R51-T090	1/4" Sq.	4-9	0.1	200	0.3	402 36 108
M-SAR-R51-T100	1/4" Sq.	5-10	0.1	200	0.3	402 36 109

Included accessories: 1xBlow Case

Torque Multiplier

Features & benefits:

- Tolerance of torque $\pm 6\%$
- Planet gear carrier mechanism makes high transmission efficiency and load capacity.
- With high ratio gearbox, multiplication accuracy could be better.
- Anti-backlash mechanism for safety concern and comfortable operation. (3000/4500Nm ser.)



Apply with wrench



One-stage planet gear mechanism

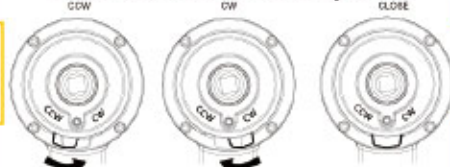


Max. Rated Input
300Nm(Ratio 5:1)
540Nm(Ratio 5:1)

Max. Rated Output
1500Nm(Ratio 5:1)
2700Nm(Ratio 5:1)



Anti-backlash mechanism for safety concern



Dual planetary gear mechanism



Max. Rated Input
200Nm(Ratio 15.5:1)
180Nm(Ratio 26:1)

Max. Rated Output
3000Nm(Ratio 15.5:1)
4500Nm(Ratio 26:1)



Model	Torque Range	Ratio	Input Square	Output Square	Weight	Item No.
	Nm	unit	inch	inch	kg	
M-M46-05-T1500	0-1500	5:1	1/2	3/4	6.48	409 36 100
M-M48-05-T1500	0-1500	5:1	1/2	1	6.48	409 36 101
M-M68-05-T2700	0-2700	5:1	3/4	1	6.48	409 36 102
M-M48-15-T3000	0-3000	15.5:1	1/2	1	11.5	409 36 200
M-M48-26-T4500	0-4500	26:1	1/2	1	13.0	409 36 201

Included accessories: 1x 5mm Hex. key • 1xBlow Case

KEMP Air Engineered Fastening Tools

User-friendly design with Light weight FRP body. Comfortable and reduce vibrations when operating. Heavy duty tightening capacity and full range • Available installs with aluminum/steel/stainless steel. Suitable for high-intensity rhythms and applications in different directions • KEMP is the specialist of Engineered Fastening.

Efficiently

Rotation direction while spinning in.

Dual Button Switch

Press lightly trigger for pulling and spinning out.

Rubber Boot

non-slip and protect cylinder base from collision.

Button Switch

Easy to operate for long-firing assembly operation.

Light weight composite body

Ergonomically designed, comfortable and reduce vibrations when operating.

Rubber Boot

non-slip and protect cylinder base from collision.

Light Weight Composite Body

User-friendly design, comfortable and reduce vibrations when operating.

Digital Panel (Opt.)

Digital display for Air pressure / Traction Power / Counting.

Universal joint

Bi-directional 360 universal joint rotation air hose.

Cushion mandrel collector

End of collector cushioned mandrel.

Digital Panel (Opt.)

Digital display for Air pressure / Traction Power / Counting.

Universal joint

Bi-directional 360 universal joint rotation air hose.



Model Nomenclature

A - ENT - HN2 - S16T108 - V

A: Air Tools

E: Engineered Fastening Tools

B: Blind Rivets • **N:** Rivet Nuts
H: Hammer Rivets • **S:** Rivet Shaver

Handle Type:
A: Angle • **P:** Pistol
S: Straight • **T:** T Handle

G: Gear • **H:** Air Hydraulic • **A:** Air
S: Split • **P:** Pistol • **B:** Bucking Bar

V: Vacuum
D: Digital Module

B: Blow per Minute(bpm)
 (counted by hundreds)
T: Traction Power(Nm)

S: Stroke
R: Free Speed(rpm) (counted by hundreds)

1~9: Ordinal

N: Standard • **M:** Motor • **1:** Wired 1M Length
3: Wired 3M Length • **L:** Low Vibration

Rivet Shaver
1: 5/16 • **2:** 3/8 • **3:** 7/16 • **4:** 1/2 • **5:** 9/16 • **6:** 5/8

A-ENT-HM2-S06T157 M4-M10 Air Hydraulic Rivet Nuts Installation Tools



Setting Capacity	mm	M4-M10
Stroke Length	mm	6
Traction Power	N	15700
Length	mm	298
Hight	mm	277
Weight	kg	2.48
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	1/4
Recommend Air Pressure	psi	90
Item No.		140 10 500

Included accessories:

1x 1/4"Coupler
 1x Threaded mandrel M10 Install on tool
 4x Threaded mandrel : M4.M5.M6.M8
 1x Universal joint • 1x Oiler
 1x 5mm Hex. key • 1x 2mm Hex. key
 1x Wrench(10, 11mm) • 1x Wrench(27, 30mm)

Features & benefits:

- Blind rivet nuts M4-M10 (Aluminum/steel/stainless steel)
- High strength alloy steel stud.
- Rotation direction while spinning in.
- Press lightly trigger for pulling and spinning out.
- Light weight composite body and ergonomically designed, comfortable and reduce vibrations when operating.
- Rubber Boot : non-slip and protect in collision.
- Bi-directional 360 rotation air hose universal joint.

A-ENT-HM2-S08T245 M4-M12 Air Hydraulic Rivet Nuts Installation Tools



Setting Capacity	mm	M4-M12
Stroke Length	mm	8
Traction Power	N	24500
Length	mm	298
Hight	mm	305
Weight	kg	2.61
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	1/4
Recommend Air Pressure	psi	90
Item No.		140 10 502

Included accessories:

1x 1/4"Coupler
 1x Threaded mandrel M12 Install on tool
 5x Threaded mandrel : M4.M5.M6.M8.M10
 1x Universal joint • 1x Oiler
 1x 5mm Hex. key • 1x 2mm Hex. key
 1x Wrench(10, 11mm) • 1x Wrench(27, 30mm)

Features & benefits:

- Blind rivet nuts M4 - M12 (Aluminum/steel/stainless steel)
- High strength alloy steel stud.
- Rotation direction while spinning in.
- Press lightly trigger for pulling and spinning out.
- Light weight composite body and ergonomically designed, comfortable and reduce vibrations when operating.
- Rubber Boot : non-slip and protect in collision.
- Bi-directional 360 rotation air hose universal joint.

A-EBT-HN2-S20T49-V**5/32" Air Hydraulic Blind Rivets Installation Tools-Self Vacuum**

Setting Capacity	inch	3/32, 1/8, 5/32
	mm	2.4, 3.2, 4.0
Stroke Length	mm	20
Traction Power	N	4900
Length	mm	301
Hight	mm	274
Weight	kg	1.7
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	1/4
Recommend Air Pressure	psi	90
Item No.		141 10 600

Included accessories:

1x 1/4"Coupler • 1x Nose Piece 4.0mm on tool
 2x Nose Piece(2.4, 3.2mm) • 1x Deflector
 1x Universal joint • 2x Multi-Wrench • 1x Rubber Boot
 1x Mandrel Collector • 1x 5mm Hex. key • 1x Oiler
 2x 17x19mm Double Open-end wrench

Features & benefits:

- Rivet 2.4, 3.2, 4.0mm (Aluminum/steel/stainless steel)
- Claws made with high-tensile alloy steel.
- Botton switch : Easy to handle for Industrial long operation time.
- Cushion mandrel collector : End of collector cushioned mandrel.
- Light weight composite boby and ergonomically designed, comfortable and reduce vibrations when operating.
- Rivet vacuum ON/OFF switch speediness.
- Rubber Boot : non-slip and protect in collision.
- Bi-directional 360 rotation air hose universal joint.

A-EBT-HN2-S22T90-V**3/16" Air Hydraulic Blind Rivets Installation Tools-Self Vacuum**

Setting Capacity	inch	5/32, 3/16
	mm	4.0, 4.8
Stroke Length	mm	22
Traction Power	N	9000
Length	mm	298
Hight	mm	305
Weight	kg	1.9
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	1/4
Recommend Air Pressure	psi	90
Item No.		141 10 601

Included accessories:

1x 1/4"Coupler • 1x Nose Piece 4.8mm on tool
 2x Nose Piece(4.0, Monobolt 4.8mm) • 1x Deflector
 1x Universal joint • 2x Multi-Wrench • 1x Rubber Boot
 1x Mandrel Collector • 1x 5mm Hex. key • 1x Oiler
 2x 17x19mm Double Open-end wrench

Features & benefits:

- Rivet 4.0, 4.8mm (Aluminum/steel/stainless steel)
- Claws made with high-tensile alloy steel.
- Botton switch : Easy to handle for Industrial long operation time.
- Cushion mandrel collector : End of collector cushioned mandrel.
- Light weight composite boby and ergonomically designed, comfortable and reduce vibrations when operating.
- Rivet vacuum ON/OFF switch speediness.
- Rubber Boot : non-slip and protect in collision.
- Bi-directional 360 rotation air hose universal joint.

A-EBT-HN2-S25T166-V**1/4" Air Hydraulic Blind Rivets Installation Tools-Self Vacuum**

Setting Capacity	inch	3/16, 1/4
	mm	4.8, 6.4
Stroke Length	mm	25
Traction Power	N	16600
Length	mm	329
Hight	mm	321
Weight	kg	2.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	1/4
Recommend Air Pressure	psi	90
Item No.		141 10 605

Included accessories:

1x 1/4"Coupler • 1x Nose Piece 6.4mm on tool
 3x Nose Piece(4.8, Monobolt 4.8, Monobolt 6.4mm)
 1x Universal joint • 2x Multi-Wrench • 1x Rubber Boot
 1x Mandrel Collector • 1x 5mm Hex. key • 1x Oiler
 2x 17x19mm Double Open-end wrench • 1x Deflector
 1x 19x21mm Double Open-end wrench

Features & benefits:

- Rivet 4.8 6.4mm (Aluminum/steel/stainless steel)
- Claws made with high-tensile alloy steel.
- Botton switch : Easy to handle for Industrial long operation time.
- Cushion mandrel collector : End of collector cushioned mandrel.
- Light weight composite boby and ergonomically designed, comfortable and reduce vibrations when operating.
- Rivet vacuum ON/OFF switch speediness.
- Rubber Boot : non-slip and protect in collision.
- Bi-directional 360 rotation air hose universal joint.

A-EBT-HN2-S18T225-V

5/16" Air Hydraulic Blind Rivets Installation Tools-Self Vacuum



Setting Capacity	inch	5/16
	mm	7.8
Stroke Length	mm	18
Traction Power	N	22500
Length	mm	329
Hight	mm	321
Weight	kg	2.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		141 10 607

Included accessories:

1x 1/4" Coupler • 1x Nose Piece 7.8mm on tool
 1x Universal joint • 1x Rubber Boot • 1x Deflector
 1x Mandrel Collector • 1x 5mm Hex. key • 1x Oiler
 2x 17x19mm Double Open-end wrench • 2x Wrench
 1x 19x21mm Double Open-end wrench

Features & benefits:

- Rivet 7.8mm (Aluminum/steel/stainless steel)
- Clavus made with high-tensile alloy steel.
- Botton switch : Easy to handle for Industrial long operation time.
- Cushion mandrel collector : End of collector cushioned mandrel.
- Light weight composite body and ergonomically designed, comfortable and reduce vibrations when operating.
- Rivet vacuum ON/OFF switch speediness.
- Rubber Boot : non-slip and protect in collision.
- Bi-directional 360 rotation air hose universal joint.

A-ESP-G41-P09R210 Air Rivet Shaver



Horse Power	hp	0.9
Free Speed	rpm	21000
Length	mm	260
Weight	kg	1.2
Air Consumption	l/s	7.56
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		148 04 140

Included accessories:

1x 1/4" Coupler • 1x Adjust Key • 1x Holder
 1x 1/2" Cutter • 1x 1/2" Skirt

Option Cutter Diameter:

Cutter : 5/16 , 3/8 , 7/16 , 1/2 , 9/16 , 5/8
 Skirt : 5/16 , 3/8 , 7/16 , 1/2 , 9/16 , 5/8

Features & benefits:

- Take rivet off with this shaver.
- Shaving depth could adjust for precision results.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing. High strength fan blade extend service life.
- Rubber grip brings comfortable and reduce vibrations.
- 5mm adjustable shaving depth

Remark:

- Standard Cutter Diameter is 1/2".
- Non reversible.

Opt.	Cutter		Skirt		Opt.	Cutter		Skirt	
5/16"		94804101		94804301	1/2"		94804104		94804304
3/8"		94804102		94804302	9/16"		94804105		94804305
7/16"		94804103		94804303	5/8"		94804106		94804306

AEH-RPH3 2-4mm Air Riveting Hammer

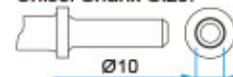
Chisel Shank Size	mm	10
	inch	3/32-5/32
Setting Capacity(Alum.)	mm	2-4
Piston Diameter	mm	14
Piston Stroke	mm	58
Blow per Minute	bpm	2300
Length	mm	135
Weight	kg	0.91
Air Consumption	l/s	14.68
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		146 35 103

Features & benefits:

- Available for aluminum Rivet 4-5mm.
- User-friendly, light weight aluminum body
- Different sizes for choice according to impact and working space.
- Progressive lever for flexible control of rivet force
- Rubber grip cover for comfortable and stable grip and reduce vibration

Included accessories:

1x 1/4" Coupler • 1x Chisel
1x Beehive Retainer spring

Chisel Shank Size:**AEH-RPH4 4-5mm Air Riveting Hammer**

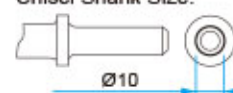
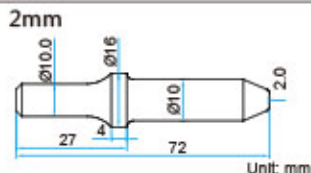
Chisel Shank Size	mm	10
	inch	5/32-3/16
Setting Capacity(Alum.)	mm	4-5
Piston Diameter	mm	14
Piston Stroke	mm	93
Blow per Minute	bpm	1600
Length	mm	175
Weight	kg	1.07
Air Consumption	l/s	16.68
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		146 35 104

Features & benefits:

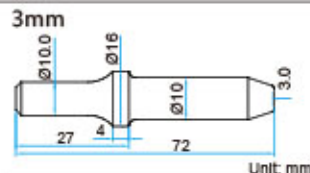
- Available for aluminum Rivet 4-5mm.
- User-friendly, light weight aluminum body
- Different sizes for choice according to impact and working space.
- Progressive lever for flexible control of rivet force
- Rubber grip cover for comfortable and stable grip and reduce vibration

Included accessories:

1x 1/4" Coupler • 1x Chisel
1x Beehive Retainer spring

Chisel Shank Size:**Opt. Acc.
Rivet Hammer Chisel
Ø10mm Shank**

Unit: mm
Item No. 846 35 101



Unit: mm
Item No. 846 35 102

A-EHP-PN2-S61B28 1/8" Air Riveting Hammer

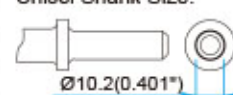
Chisel Shank Size	inch	0.401
	mm	10.19
Setting Capacity(Alum.)	inch	3/32-1/8
	mm	2-3
Piston Diameter	mm	14.3
Piston Stroke	mm	61
Blow per Minute	bpm	2850
Length	mm	110
Weight	kg	0.95
Air Consumption	l/s	4.24
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		146 35 202

Features & benefits:

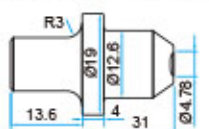
- Available for aluminum Rivet 2-3mm.
- User-friendly, light weight aluminum body
- Different sizes for choice according to impact and working space.

Included accessories:

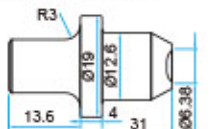
1x 1/4" Coupler •
1x Quick Change Retainer spring

Chisel Shank Size:

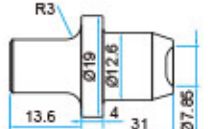
★Short chisel handle only.

**Opt. Acc
Rivet Hammer Chisel 0.401 Shank**

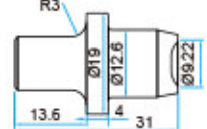
Unit: mm
Item No. 846 21 121



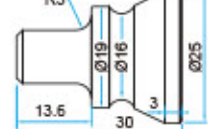
Unit: mm
Item No. 846 21 122



Unit: mm
Item No. 846 21 123



Unit: mm
Item No. 846 21 124



Unit: mm
Item No. 846 21 125

A-EHP-PN2-S68B25 5/32" Air Riveting Hammer



Chisel Shank Size	inch	0.401
	mm	10.19
Setting Capacity(Alum.)	inch	3/32-5/32
	mm	2-4
Piston Diameter	mm	12.7
Piston Stroke	mm	68
Blow per Minute	bpm	2580
Length	mm	140
Weight	kg	1.13
Air Consumption	l/s	4.24
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.	146 35 203	

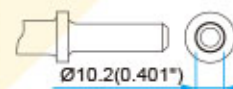
Features & benefits:

- Available for aluminum Rivet 2-4mm.
- User-friendly, light weight aluminum body
- Different sizes for choice according to impact and working space.

Included accessories:

- 1x 1/4" Coupler •
- 1x Quick Change Retainer spring

Chisel Shank Size:



A-EHP-PN2-S101B17 3/16" Air Riveting Hammer



Chisel Shank Size	inch	0.401
	mm	10.19
Setting Capacity(Alum.)	inch	5/32-3/16
	mm	4-5
Piston Diameter	mm	12.7
Piston Stroke	mm	101
Blow per Minute	bpm	1740
Length	mm	180
Weight	kg	1.3
Air Consumption	l/s	4.24
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.	146 35 204	

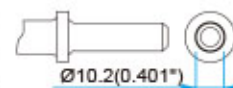
Features & benefits:

- Available for aluminum Rivet 4-5mm.
- User-friendly, light weight aluminum body
- Different sizes for choice according to impact and working space.

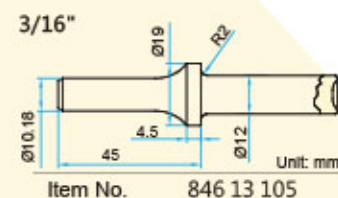
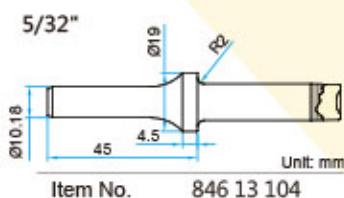
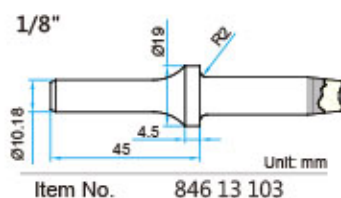
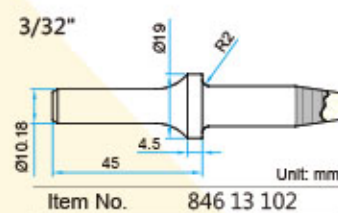
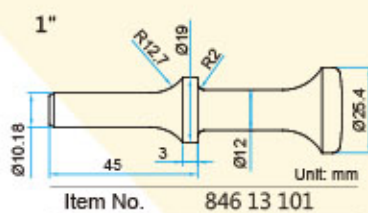
Included accessories:

- 1x 1/4" Coupler •
- 1x Quick Change Retainer spring

Chisel Shank Size:



Opt. Acc. Rivet Hammer Chisel 0.401 Shank



A-EHP-PN2-S115B18 1/4" Air Riveting Hammer



Chisel Shank Size	inch	0.498
	mm	12.65
Setting Capacity(Alum.)	inch	3/16-1/4
	mm	5-6
Piston Diameter	mm	19
Piston Stroke	mm	115
Blow per Minute	bpm	1800
Length	mm	221
Weight	kg	1.33
Air Consumption	l/s	6.36
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		146 35 205

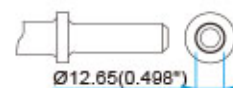
Features & benefits:

- Available for aluminum Rivet 5-6mm.
- User-friendly, light weight aluminum body
- Different sizes for choice according to impact and working space.

Included accessories:

- 1x 1/4" Coupler •
- 1x Quick Change Retainer spring

Chisel Shank Size:



A-EHP-PN2-S123B17 5/16" Air Riveting Hammer



Chisel Shank Size	inch	0.498
	mm	12.65
Setting Capacity(Alum.)	inch	1/4-5/16
	mm	6-8
Piston Diameter	mm	19
Piston Stroke	mm	123
Blow per Minute	bpm	1700
Length	mm	272
Weight	kg	1.4
Air Consumption	l/s	6.36
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		146 35 207

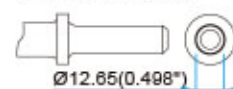
Features & benefits:

- Available for aluminum Rivet 6-8mm.
- User-friendly, light weight aluminum body
- Different sizes for choice according to impact and working space.

Included accessories:

- 1x 1/4" Coupler •
- 1x Quick Change Retainer spring

Chisel Shank Size:



A-EHP-PN2-S159B12 3/8" Air Riveting Hammer



Chisel Shank Size	inch	0.498
	mm	12.65
Setting Capacity(Alum.)	inch	5/16-3/8
	mm	8-10
Piston Diameter	mm	19
Piston Stroke	mm	159
Blow per Minute	bpm	1250
Length	mm	287
Weight	kg	1.6
Air Consumption	l/s	6.36
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		146 35 209

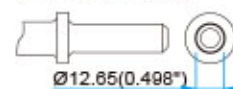
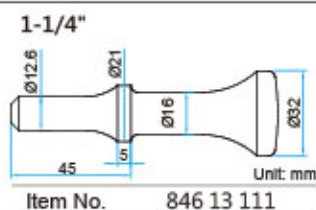
Features & benefits:

- Available for aluminum Rivet 8-10mm.
- User-friendly, light weight aluminum body
- Different sizes for choice according to impact and working space.

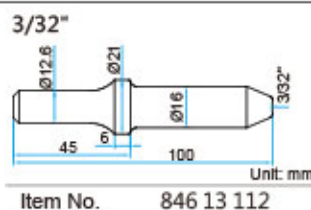
Included accessories:

- 1x 1/4" Coupler •
- 1x Quick Change Retainer spring

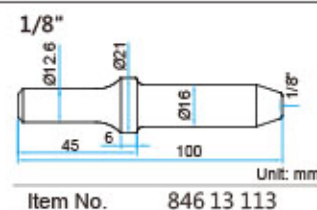
Chisel Shank Size:

Opt. Acc.
Rivet Hammer Chisel
0.498 Shank

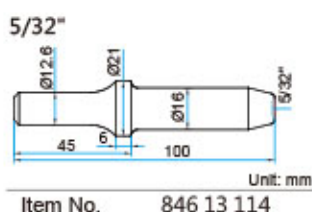
Item No. 846 13 111



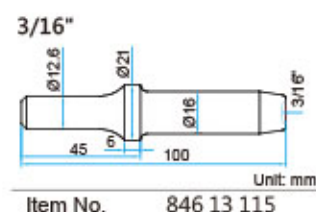
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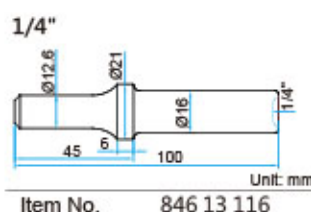
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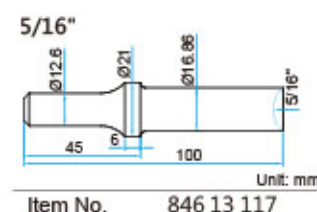
Item No. 846 13 114



Item No. 846 13 115



Item No. 846 13 116



Item No. 846 13 117



Material Removal Tools Catalog





Model Nomenclature

A - F S G - O 3 1 - O 5 0 R 1 2 0 - C

A: Air Tools

F: Finishing Tools

S: Sander • **B:** Belt Sander
P: Polisher

Handle Type:

A: Angle • **E:** Extend • **H:** Two Hand
P: Pistol • **G:** Palm Handle(Grip)
S: Straight • **V:** Vertical

O: Orbital • **R:** Rotary
G: Gear Box • **D:** Disc Sander

0: 06mm Belt • **1:** 1-1/4" or 10mm Belt W
2: 20mm Belt W • **3:** 3" or Triangle or 30mm Belt W
4: Rectangle or 4" rectangle • **5:** 5"
6: 6" or 60mm Belt W • **7:** 7" • **8:** 8"
8: 8" Rectangle • **H:** 100mm Belt W

N: Non-Vacuum
C: Central-Vacuum
S: Self-Vacuum
A: Adjustable

R: Free Speed(rpm)

25: Orbital 2.5mm • **26:** 260mm Belt L
30: Orbital 3mm • **33:** 330mm Belt L
46: 457mm Belt L • **50:** Orbital 5mm
52: 520mm Belt L • **54:** 540mm Belt L
80: Orbital 8mm

O: Orbit • **L:** Belt size
P: Horse Power

1~9: Ordinal

KEMP new generation air sander

KEMP new generation air sander with Innovation and patents. Enhance quality on comfort operating and high efficiency. KEMP industrial tool is the best choice.

Full Floating Rotor

Designed to reduce internal friction for a higher power transfer ratio, simplified maintenance, and longer tool life. Polymer rotor provides faster acceleration and lower overall tool weight.



Underside SPEED CONTROL

Combines "on-the-fly" speed adjustment while helping to preventing inadvertent switching.



Comfort grips

Improve Comfort feel and reduce Vibration.



360° rotation air exhaust

It provides different air exhaust directions for users.

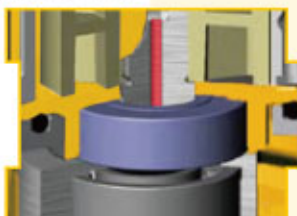
Low Noise

Special air exhausted design for Self-Generated vacuum. Air passage through copper muffler for noise reduction.



Fan Blade cooling system

For lowering bearing and spindle temperature for longer tool life.



One-piece Motor Shaft and Pad Balancer:

Features heat-treated steel and precision machined construction for smooth and durable operation.



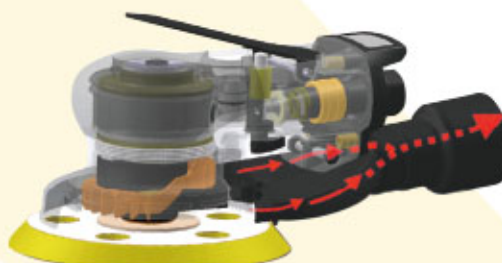
Low profile

The lowest profile in the industry provides unparalleled control, maneuverability, and feedback.



Dual channel vacuum design

Dramatically increases vacuum flow and efficiency.

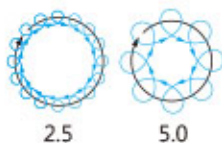


A-FSG-O 3" Air Random Orbital Sander - Non-Vacuum

Features & benefits:

- Full floating rotor
- Fan Blade cooling system
- One-piece motor shaft and pad balancer
- Low profile

Orbital Size:



2.5

5.0



Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O31-O25R120-N	3	77	2.5	0.28	12000	93.5	152.5	0.575	8	150 05 300
A-FSG-O31-O50R120-N	3	77	5.0	0.28	12000	93.5	152.5	0.665	8	150 05 301

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

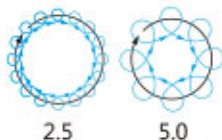
Included accessories: 1x 1/4" Coupler • 1x 17mm Wrench • 1x 3" Pad

A-FSG-O 3" Air Random Orbital Sander - Central-Vacuum

Features & benefits:

- Full floating rotor
- Fan Blade cooling system
- One-piece motor shaft and pad balancer
- Low profile

Orbital Size:



2.5

5.0



Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O31-O25R120-C	3	77	2.5	0.28	12000	93.5	196.5	0.635	8	150 05 302
A-FSG-O31-O50R120-C	3	77	5.0	0.28	12000	93.5	196.5	0.725	8	150 05 303

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

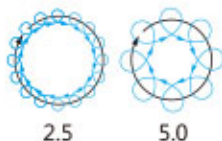
Included accessories: 1x 1/4" Coupler • 1x 17mm Wrench • 1x 3" Pad

A-FSG-O 3" Air Random Orbital Sander - Self-Vacuum

Features & benefits:

- Full floating rotor
- Fan Blade cooling system
- One-piece motor shaft and pad balancer
- Low profile

Orbital Size:



2.5

5.0



Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O31-O25R120-S	3	77	2.5	0.28	12000	93.5	199.5	0.64	8	150 05 304
A-FSG-O31-O50R120-S	3	77	5.0	0.28	12000	93.5	199.5	0.735	8	150 05 305

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

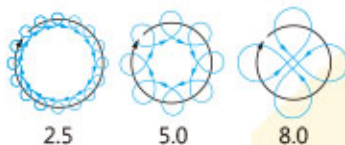
Included accessories: 1x 1/4" Coupler • 1x 17mm Wrench • 1x 3" Pad • 1x Air Hose • 1x Vacuum Hose • 1x Vacuum Bag

A-FSG-O 5" Air Random Orbital Sander - Non-Vacuum

Features & benefits:

- Full floating rotor
- Fan Blade cooling system
- One-piece motor shaft and pad balancer
- Low profile

Orbital Size:



Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm								
A-FSG-O51-O25R120-N	5	127	2.5	0.28	12000	86	176	0.74	8	150 05 500
A-FSG-O51-O50R120-N	5	127	5.0	0.28	12000	86	176	0.8	8	150 05 501
A-FSG-O51-O80R120-N	5	127	8.0	0.28	12000	86	176	0.82	8	150 05 502

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

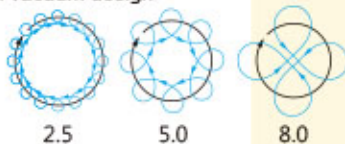
Included accessories: 1x 1/4"Coupler • 1x 24mm Wrench • 1x 5"Pad

A-FSG-O 5" Air Random Orbital Sander - Central-Vacuum

Features & benefits:

- Full floating rotor
- Fan Blade cooling system
- One-piece motor shaft and pad balancer
- Low profile
- Dual channel vacuum design

Orbital Size:



Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm								
A-FSG-O51-O25R120-C	5	127	2.5	0.28	12000	86	246	0.82	8	150 05 503
A-FSG-O51-O50R120-C	5	127	5.0	0.28	12000	86	246	0.88	8	150 05 504
A-FSG-O51-O80R120-C	5	127	8.0	0.28	12000	86	246	0.90	8	150 05 505

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

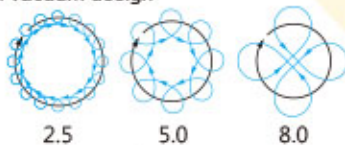
Included accessories: 1x 1/4"Coupler • 1x 24mm Wrench • 1x 5"Pad

A-FSG-O 5" Air Random Orbital Sander - Self-Vacuum

Features & benefits:

- Full floating rotor
- Fan Blade cooling system
- One-piece motor shaft and pad balancer
- Low profile
- Dual channel vacuum design

Orbital Size:



Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm								
A-FSG-O51-O25R120-S	5	127	2.5	0.28	12000	86	251	0.83	8	150 05 506
A-FSG-O51-O50R120-S	5	127	5.0	0.28	12000	86	251	0.89	8	150 05 507
A-FSG-O51-O80R120-S	5	127	8.0	0.28	12000	86	251	0.91	8	150 05 508

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 24mm Wrench • 1x 5"Pad • 1x Air Hose • 1x Vacuum Hose • 1x Vacuum Bag

A-FSH-O 8" Two Hand Air Random Orbital Sander

Ergonomic Grip

Overmold housing provides for superior vibration absorption for reduced hand fatigue and improved feel of the machine.

Tip Valve

Provides precise teasing for perfect sander control.

**Side mounted Speed Control**

Combines "on-the-fly" speed adjustment while helping to prevent inadvertent switching.

**Vacuum Channel**
Built into housing.**One-piece Motor Shaft And Pad Balancer**

Features heat-treated steel and precision machined construction for smooth and durable operation.

Full Floating Rotor

Designed to reduce internal friction for a higher power transfer ratio, simplified maintenance, and longer tool life. Polymer rotor provides faster acceleration and lower overall tool weight.

Orbital Size:



5.0

Model	Vacuum Type	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
		inch	mm								
A-FSH-O81-O50R120-N	Non-Vacuum	8	203	5.0	0.45	12000	112	311.6	1.52	8	150 05 800
A-FSH-O81-O50R120-C	Central-Vacuum	8	203	5.0	0.45	12000	112	352.2	1.56	8	150 05 801
A-FSH-O81-O50R120-S	Self-Vacuum	8	203	5.0	0.45	12000	112	352.2	1.55	8	150 05 802

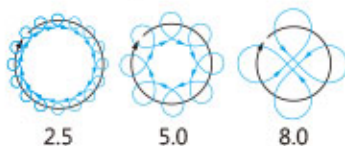
Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4" Coupler • 1x T-20 Hexalobular internal • 1x Side Handle • 1x 8" Pad
1x Air Hose • 1x Vacuum Hose • 1x Vacuum Bag (Self-Vacuum type)

A-FSG-O 6" Air Random Orbital Sander - Non-Vacuum**Features & benefits:**

- Full floating rotor
- Fan Blade cooling system
- One-piece motor shaft and pad balancer
- Low profile

Orbital Size:

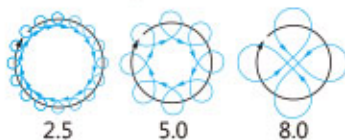


Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O61-O25R120-N	6	152	2.5	0.28	12000	86	189	0.77	8	150 05 600
A-FSG-O61-O50R120-N	6	152	5.0	0.28	12000	86	189	0.83	8	150 05 601
A-FSG-O61-O80R120-N	6	152	8.0	0.28	12000	86	189	0.85	8	150 05 602

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi**Included accessories:** 1x 1/4" Coupler • 1x 24mm Wrench • 1x 6" Pad**A-FSG-O 6" Air Random Orbital Sander - Central-Vacuum****Features & benefits:**

- Full floating rotor
- Fan Blade cooling system
- One-piece motor shaft and pad balancer
- Low profile
- Dual channel vacuum design

Orbital Size:

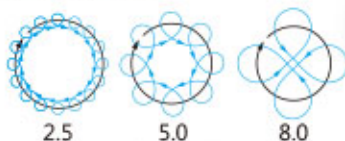


Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O61-O25R120-C	6	152	2.5	0.28	12000	86	260	0.85	8	150 05 603
A-FSG-O61-O50R120-C	6	152	5.0	0.28	12000	86	260	0.91	8	150 05 604
A-FSG-O61-O80R120-C	6	152	8.0	0.28	12000	86	260	0.93	8	150 05 605

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi**Included accessories:** 1x 1/4" Coupler • 1x 24mm Wrench • 1x 6" Pad**A-FSG-O 6" Air Random Orbital Sander - Self-Vacuum****Features & benefits:**

- Full floating rotor
- Fan Blade cooling system
- One-piece motor shaft and pad balancer
- Low profile
- Dual channel vacuum design

Orbital Size:



Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O61-O25R120-S	6	152	2.5	0.28	12000	86	265	0.86	8	150 05 606
A-FSG-O61-O50R120-S	6	152	5.0	0.28	12000	86	265	0.92	8	150 05 607
A-FSG-O61-O80R120-S	6	152	8.0	0.28	12000	86	265	0.94	8	150 05 608

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi**Included accessories:** 1x 1/4" Coupler • 1x 24mm Wrench • 1x 6" Pad • 1x Air Hose • 1x Vacuum Hose • 1x Vacuum Bag

A-FSG-O 3"x4" Air Orbital Sander - Non-Vacuum

Features & benefits:

- Full floating rotor
- Fan Blade cooling system
- One-piece motor shaft and pad balancer
- Low profile

Orbital Size:



3.0



Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O41-O30R100-N	3x4	75x100	3.0	0.28	10000	98	157	0.67	8	151 05 400

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4" Coupler • 1x 2.5mm Hex. key • 1x 3x4" Pad

A-FSG-O 3"x4" Air Orbital Sander - Central-Vacuum

Features & benefits:

- Full floating rotor
- Fan Blade cooling system
- One-piece motor shaft and pad balancer
- Low profile

Orbital Size:



3.0



Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O41-O30R100-C	3x4	75x100	3.0	0.28	10000	98	201	0.70	8	151 05 401

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4" Coupler • 1x 2.5mm Hex. key • 1x 3x4" Pad

A-FSG-O 3"x4" Air Orbital Sander - Self-Vacuum

Features & benefits:

- Full floating rotor
- Fan Blade cooling system
- One-piece motor shaft and pad balancer
- Low profile

Orbital Size:



3.0



Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O41-O30R100-S	3x4	75x100	3.0	0.28	10000	98	211	0.71	8	151 05 402

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4" Coupler • 1x 2.5mm Hex. key • 1x 3x4" Pad • 1x Air Hose • 1x Vacuum Hose • 1x Vacuum Bag

A-FSG-O 3"x8" Air Orbital Sander - Non-Vacuum

Features & benefits:

- Full floating rotor
- Fan Blade cooling system
- One-piece motor shaft and pad balancer
- Low profile

Orbital Size:



3.0



Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O81-O30R100-N	3x8	70x198	3.0	0.28	10000	115	207	0.89	8	151 05 800

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4" Coupler • 1x 2.5mm Hex. key • 1x 3x8" Pad

A-FSG-O 3"x8" Air Orbital Sander - Central-Vacuum

Features & benefits:

- Full floating rotor
- Fan Blade cooling system
- One-piece motor shaft and pad balancer
- Low profile

Orbital Size:



3.0



Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O81-O30R100-C	3x8	70x198	3.0	0.28	10000	115	261	0.93	8	151 05 801

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4" Coupler • 1x 2.5mm Hex. key • 1x 3x8" Pad

A-FSG-O 3"x8" Air Orbital Sander - Self-Vacuum

Features & benefits:

- Full floating rotor
- Fan Blade cooling system
- One-piece motor shaft and pad balancer
- Low profile

Orbital Size:



3.0



Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O81-O30R100-S	3x8	70x198	3.0	0.28	10000	115	271	0.94	8	151 05 802

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

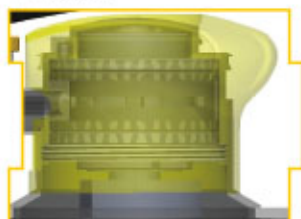
Included accessories: 1x 1/4" Coupler • 1x 2.5mm Hex. key • 1x 3x8" Pad • 1x Air Hose • 1x Vacuum Hose • 1x Vacuum Bag

KEMP Oil-free & self-lubricating air sander

KEMP new sander has a low-friction patented motor design, which can work for a long time in a small amount or without oil. The high air-tight motor can show horsepower and maximum torque output, effectively improving the efficiency of sanding applications

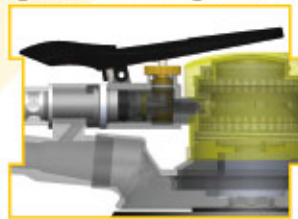
Comfort grips

Improve Comfort feel and reduce Vibration.



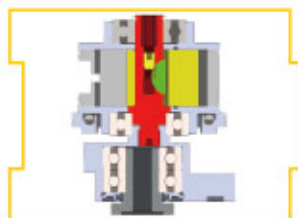
User-friendly Lever

Lever with wrist support auxiliary design, Reduce worker fatigue when long working hours.



Adjustable Dynamic Pad Balancer:

The Pad Balance can be adjusted according to different brands of pad and sandpaper. Reduce abnormal vibration and shaking.



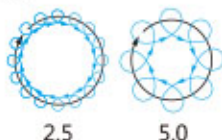
Low friction patented motor

With a low coefficient of friction during operation. Long-term operation with a few oil or oil-free state.



**A-FSG-O 1-1/2" Air Random Orbital Sander
-Non-Vacuum**

Orbital Size:



2.5

5.0



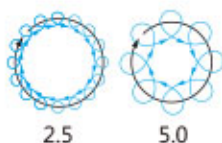
Item No.	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O15-O25R120-N	1-1/2	36	2.5	0.29	12000	70	150	0.6	4.72	150 41 100
A-FSG-O15-O50R120-N	1-1/2	36	5.0	0.29	12000	70	150	0.6	4.72	150 41 101

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 1-1/2"Pad

**A-FSG-O 3" Air Random Orbital Sander
-Non-Vacuum**

Orbital Size:



2.5

5.0



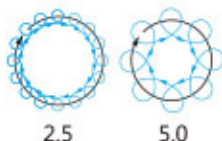
Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	HP	rpm	mm	mm	kg	l/s	
A-FSG-O35-O25R120-N	3	77	2.5	0.29	12000	70	150	0.7	4.72	150 41 300
A-FSG-O35-O50R120-N	3	77	5.0	0.29	12000	70	150	0.72	4.72	150 41 301

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 3"Pad

**A-FSG-O 3" Air Random Orbital Sander
-Non-Vacuum**

Orbital Size:



2.5

5.0



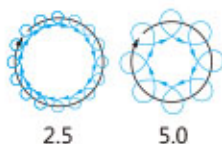
Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	HP	rpm	mm	mm	kg	l/s	
A-FSG-O35-O25R120-C	3	77	2.5	0.29	12000	70	210	0.7	4.72	150 41 302
A-FSG-O35-O50R120-C	3	77	5.0	0.29	12000	70	210	0.72	4.72	150 41 303

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 3"Pad

**A-FSG-O 3" Air Random Orbital Sander
-Non-Vacuum**

Orbital Size:



2.5

5.0



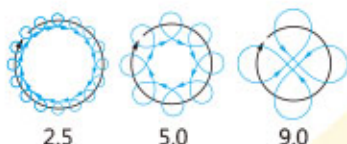
Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	HP	rpm	mm	mm	kg	l/s	
A-FSG-O35-O25R120-S	3	77	2.5	0.29	12000	70	210	0.7	4.72	150 41 304
A-FSG-O35-O50R120-S	3	77	5.0	0.29	12000	70	210	0.72	4.72	150 41 305

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 3"Pad • 1x Air Hose • 1x Vacuum Hose • 1x Vacuum Bag

A-FSG-O 5" Air Random Orbital Sander -Non-Vacuum

Orbital Size:



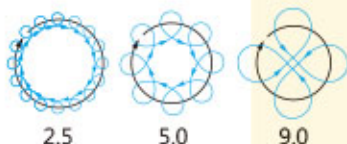
Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O55-O25R120-N	5	127	2.5	0.29	12000	70	150	0.75	4.72	150 41 500
A-FSG-O55-O50R120-N	5	127	5.0	0.29	12000	70	150	0.75	4.72	150 41 501
A-FSG-O55-O80R120-N	5	127	9.0	0.29	12000	70	150	0.81	4.72	150 41 502

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 5"Pad

A-FSG-O 5" Air Random Orbital Sander - Central-Vacuum

Orbital Size:



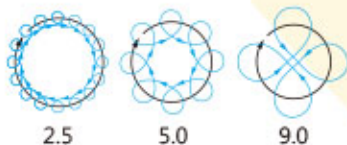
Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	HP	rpm	mm	mm	kg	l/s	
A-FSG-O55-O25R120-C	5	127	2.5	0.29	12000	70	210	0.87	4.72	150 41 503
A-FSG-O55-O50R120-C	5	127	5.0	0.29	12000	70	210	0.87	4.72	150 41 504
A-FSG-O55-O80R120-C	5	127	9.0	0.29	12000	70	210	0.87	4.72	150 41 505

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 24mm Wrench • 1x 5"Pad

A-FSG-O 5" Air Random Orbital Sander - Self-Vacuum

Orbital Size:



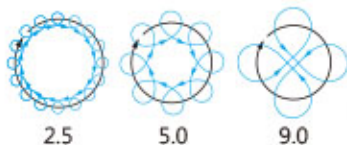
Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O55-O25R120-S	5	127	2.5	0.29	12000	70	210	0.87	4.72	150 41 506
A-FSG-O55-O50R120-S	5	127	5.0	0.29	12000	70	210	0.89	4.72	150 41 507
A-FSG-O55-O80R120-S	5	127	9.0	0.29	12000	70	210	0.89	4.72	150 41 508

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 24mm Wrench • 1x 5"Pad • 1x Air Hose • 1x Vacuum Hose • 1x Vacuum Bag

A-FSG-O 6" Air Random Orbital Sander -Non-Vacuum

Orbital Size:



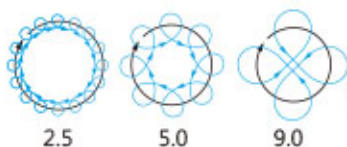
Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O65-O25R120-N	6	152	2.5	0.29	12000	70	150	0.82	4.72	150 41 600
A-FSG-O65-O50R120-N	6	152	5.0	0.29	12000	70	150	0.82	4.72	150 41 601
A-FSG-O65-O80R120-N	6	152	9.0	0.29	12000	70	150	0.82	4.72	150 41 602

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 6"Pad

A-FSG-O 6" Air Random Orbital Sander - Central-Vacuum

Orbital Size:



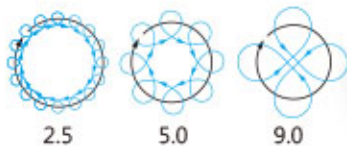
Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	HP	rpm	mm	mm	kg	l/s	
A-FSG-O65-O25R120-C	6	152	2.5	0.29	12000	70	210	0.87	4.72	150 41 603
A-FSG-O65-O50R120-C	6	152	5.0	0.29	12000	70	210	0.87	4.72	150 41 604
A-FSG-O65-O80R120-C	6	152	9.0	0.29	12000	70	210	0.87	4.72	150 41 605

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 24mm Wrench • 1x 6"Pad

A-FSG-O 6" Air Random Orbital Sander - Self-Vacuum

Orbital Size:



Model	Pad Size		Orbital Size	Horse Power	Free Speed	Height	Length	Weight	Air Consumption	Item No.
	inch	mm	mm	hp	rpm	mm	mm	kg	l/s	
A-FSG-O65-O25R120-S	6	152	2.5	0.29	12000	70	210	0.9	4.72	150 41 606
A-FSG-O65-O50R120-S	6	152	5.0	0.29	12000	70	210	0.9	4.72	150 41 607
A-FSG-O65-O80R120-S	6	152	9.0	0.29	12000	70	210	0.9	4.72	150 41 608

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 24mm Wrench • 1x 6"Pad • 1x Air Hose • 1x Vacuum Hose • 1x Vacuum Bag

AFS-RA175 1-1/4" Detail Air Orbital Sander



Orbital Size:



1.5

Pad Size	inch	1-1/4
	mm	30
Orbital Size	mm	1.5
Horse Power	hp	0.4
Free Speed	rpm	7500
Length	mm	155
Weight	kg	0.65
Air Consumption	l/s	1.88
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		151 35 111

Features & benefits:

- Suitable for smoothing and mend on the curved surface or tiny space.
- Small and lightweight design, improving flexibility and reducing operator hand fatigue.
- Industrial motor with high-efficiency motors. High strength and durable vane.
- Good dynamic balance, small vibration and strong strength.
- The air inlet is connected to an external flow regulator, which can be adjusted according to the application grinding speed.

Included accessories:

1x 1/4"Coupler • 1x 1-1/4"Pad

A-FSA-O14-O15R120 1-1/4" Right Angle Air Mini Orbital Sander



Orbital Size:



1.5

Pad Size	inch	1-1/4
	mm	30
Orbital Size	mm	1.5
Horse Power	hp	0.4
Free Speed	rpm	12000
Length	mm	198
Weight	kg	0.65
Air Consumption	l/s	1.88
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		151 07 110

Features & benefits:

- Suitable for smoothing and mend on the curved surface or tiny space.
- Low noise back exhaust.
- Light weight composite grip brings comfortable and reduce vibrations.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with high-efficiency motors. High strength and durable vane.

Included accessories:

1x 1/4"Coupler • 1x 1-1/4"Pad

A-FSA-O32-O30R160 3" 7 Degree Offset Air Orbital Sander



Orbital Size:



3.0

Pad Size	inch	3
	mm	75
Orbital Size	mm	3
Horse Power	hp	0.7
Free Speed	rpm	16000
Length	mm	220
Weight	kg	1.02
Air Consumption	l/s	6.88
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		151 02 130

Features & benefits:

- Suitable for sanding the curved surface, tiny space and mend.
- Light weight composite grip brings comfortable and reduce vibrations.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing. High strength and durable vane.

Included accessories:

1x 1/4"Coupler • 1x 17mm Wrench
1x 3"Pad

A-FSA-OT2-O30R160 7 Degree Offset Air Orbital Detail Sander



Orbital Size:



Orbital Z type

Pad Size	inch	triangle
	mm	triangle
Orbital Size	mm	3
Horse Power	hp	0.4
Free Speed	rpm	16000
Length	mm	225
Weight	kg	0.7
Air Consumption	l/s	2.12
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		151 02 100

Features & benefits:

- Suitable for sanding the curved surface, tiny space and mend.
- Light weight composite grip brings comfortable and reduce vibrations.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing. High strength and durable vane.

Included accessories:

1x 1/4"Coupler • 1x 3mm Hex. key
1x Triangle pad • 1x Rhombus pad
2x Triangle sanding paper
2x Rhombus sanding paper
2x Triangle non-woven fabric disc
2x Rhombus non-woven fabric disc

A-FSA-D24-P04R250 2" 7 Degree Offset Air Disc Sander

Orbital Size:



Pad Size	inch	2
	mm	50
Horse Power	hp	0.4
Free Speed	rpm	25000
Length	mm	206
Weight	kg	0.57
Air Consumption	l/s	5.68
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.	152 07 220	

Features & benefits:

- Suitable for sanding the curved surface, tiny space and mend.
- Low noise back exhaust.
- Light weight composite grip brings comfortable and reduce vibrations.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing. High strength and durable vane.

Included accessories:

1x 1/4" Coupler • 1x 12mm Wrench
1x 2" Sanding disc

A-FSA-G34-P04R200 3" Right Angle Air Disc Sander

Orbital Size:



Pad Size	inch	3
	mm	75
Horse Power	hp	0.4
Free Speed	rpm	20000
Length	mm	180
Weight	kg	0.5
Air Consumption	l/s	7.56
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.	152 07 230	

Features & benefits:

- Suitable for sanding the curved surface, tiny space and mend.
- Low noise back exhaust.
- Light weight composite grip brings comfortable and reduce vibrations.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing. High strength and durable vane.

Included accessories:

1x 1/4" Coupler
1x 14mm Double ended wrench
1x 3" Sanding disc

A-FSA-D32-P07R180 3" Right Angle Air Disc Sander

Orbital Size:



Pad Size	inch	3
	mm	75
Horse Power	hp	0.7
Free Speed	rpm	18000
Length	mm	190
Weight	kg	0.77
Air Consumption	l/s	6.88
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.	152 02 230	

Features & benefits:

- Suitable for sanding the curved surface, tiny space and mend.
- Light weight composite grip brings comfortable and reduce vibrations.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing. High strength and durable vane.

Included accessories:

1x 1/4" Coupler • 1x 11mm Wrench
1x 3" Sanding disc

A-FPA-G34-P04R50 3" 7 Degree Offset Air Polisher



Orbital Size:



Non

Pad Size	inch	3
	mm	75
Horse Power	hp	0.4
Free Speed	rpm	5000
Length	mm	209
Weight	kg	0.73
Air Consumption	l/s	7.56
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		153 07 350

Features & benefits:

- Suitable for smoothing the curved surface, tiny space and mend.
- Low noise back exhaust.
- Light weight composite grip brings comfortable and reduce vibrations.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing. High strength and durable vane.

Included accessories:

1x 1/4" Coupler • 1x 14mm Wrench
1x 3" Pad

A-FPA-G32-P07R32 3" 7 Degree Offset Air Polisher



Orbital Size:



Non

Pad Size	inch	3
	mm	75
Horse Power	hp	0.7
Free Speed	rpm	3200
Length	mm	200
Weight	kg	0.98
Air Consumption	l/s	6.88
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		153 02 330

Features & benefits:

- Suitable for smoothing the curved surface, tiny space and mend.
- Light weight composite grip brings comfortable and reduce vibrations.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing. High strength and durable vane.

Included accessories:

1x 1/4" Coupler • 1x 17mm Wrench
1x 3" Pad

A-FPA-G32-P04R120 3" Orbit 14mm Air Polisher



Orbital Size:



Random 14mm

Pad Size	inch	3
	mm	75
Orbital Size	mm	14
Horse Power	hp	0.35
Free Speed	rpm	12000
Length	mm	240
Weight	kg	1.00
Air Consumption	l/s	5.8
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		153 02 300

Features & benefits:

- Suitable for smoothing the curved surface, tiny space and mend.
- Light weight composite grip brings comfortable and reduce vibrations.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing. High strength and durable vane.

Included accessories:

1x 1/4" Coupler • 1x Wrench(19, 22mm)
1x Side Handle • 1x 3" Pad

A-FPA-G52-P09R25 5" 7 Degree Offset Air Polisher



Orbital Size:



Non

Pad Size	inch	5
	mm	125
Horse Power	hp	0.9
Free Speed	rpm	2500
Length	mm	255
Weight	kg	1.5
Air Consumption	l/s	5.68
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		153 02 350

Features & benefits:

- Polishing or waxing on large area.
- Light weight composite grip brings comfortable and reduce vibrations.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing. High strength and durable vane.

Included accessories:

1x 1/4" Coupler • 1x Wrench(14, 19mm)
1/4" 50cm Air Hose • 1x Exhaust pipe
1x Side Handle • 1x 5" Pad

AFP-GA725 7" Air Polisher



Orbital Size:



Pad Size	inch	7
Horse Power	hp	0.7
Free Speed	rpm	2500
Length	mm	305
Weight	kg	2
Air Consumption	l/s	7.36
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		153 07 710

Features & benefits:

- Polishing or waxing on large area.
- Air valves can be started slowly and speed control during operation.
- Rubber grip brings comfortable and reduce vibrations.
- Low noise back exhaust.
- Industrial motor with needle bearing. High strength and durable vane.

Included accessories:

- 1x 1/4" Coupler • 1x 19mm Wrench
1x Side Handle • 1x 7" Pad



A-FBA-D11-L33R170 10x330mm Air Belt Sander



Belt Size	inch	3/8x13
	mm	10x330
Horse Power	hp	0.6
Free Speed	rpm	17000
Length	mm	320
Weight	kg	0.94
Air Consumption	l/s	7.56
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		154 04 410

Features & benefits:

- Apply to chamfer and burr off, sanding flat surface and weld seam for the operations in narrow working sites and so on.
- Easy and quick change sanding belt with labor saving switch.
- Easy and quick speed adjust switch.
- 360° angle adjustable fixed arm apply to different operate position.
- One-piece forming aluminum alloy body. Hand grip easy for handle.
- Industrial motor with needle bearing. High strength vane extend service life.

Included accessories:

- 1x 1/4" Coupler
- 3x 10x330mm Sanding Belt No.80,100,120
- 1x 1.5mm Hex. key • 1x 4mm Hex. key

A-FBA-D21-L52R170 20x520mm Air Belt Sander



Belt Size	inch	3/4x20.5
	mm	20x520
Horse Power	hp	0.6
Free Speed	rpm	17000
Length	mm	430
Weight	kg	1.4
Air Consumption	l/s	7.56
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		154 04 420

Features & benefits:

- Apply to chamfer and burr off, sanding flat surface and weld seam for the operations in narrow working sites and so on.
- Easy and quick change sanding belt with labor saving switch.
- Easy and quick speed adjust switch.
- 360° angle adjustable fixed arm apply to different operate position.
- One-piece forming aluminum alloy body. Hand grip easy for handle.
- Industrial motor with needle bearing. High strength vane extend service life.

Included accessories:

- 1x 1/4" Coupler
- 2x 20x520mm Sanding Belt No.80,100
- 1x 4mm Hex. key

A-FBA-D21-L52R170-A 20x520mm Two Function Air Belt Sander



Belt Size	inch	3/4x20.5
	mm	20x520
Horse Power	hp	0.6
Free Speed	rpm	17000
Length	mm	370
Weight	kg	1.4
Air Consumption	l/s	7.56
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		154 04 421

Features & benefits:

- Apply to chamfer and burr off, sanding flat surface and weld seam for the operations in narrow working sites and so on.
- Patent adjustable fixed arm design could match curved surface as need.
- Easy and quick change sanding belt with labor saving switch.
- Easy and quick speed adjust switch.
- 360° angle adjustable fixed arm apply to different operate position.
- One-piece forming aluminum alloy body. Hand grip easy for handle.
- Industrial motor with needle bearing. High strength vane extend service life.

Included accessories:

- 1x 1/4" Coupler
- 2x 20x520mm Sanding Belt No.80,100
- 1x 3mm Hex. key • 1x 4mm Hex. key

AFB-DA1317 10x330mm Air Belt Sander

Belt Size	inch	3/8x13
	mm	10x330
Horse Power	hp	0.6
Free Speed	rpm	17000
Length	mm	320
Weight	kg	0.82
Air Consumption	l/s	7.56
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		154 04 411

Features & benefits:

- Apply to chamfer and burr off, sanding flat surface and weld seam for the operations in narrow working sites and so on.
- Easy and quick change sanding belt with labor saving switch.
- Easy and quick speed adjust switch.
- 360° angle adjustable fixed arm apply to different operate position.
- One-piece forming aluminum alloy body. Hand grip easy for handle.
- Industrial motor with needle bearing. High strength vane extend service life.

Included accessories:

1x 1/4" Coupler
 3x 10x330mm Sanding Belt No.80,100,120
 1x 1.5mm Hex. key • 1x 4mm Hex. key

AFB-DA2517 20x520mm Air Belt Sander

Belt Size	inch	3/4x20.5
	mm	20x520
Horse Power	hp	0.6
Free Speed	rpm	17000
Length	mm	430
Weight	kg	1.28
Air Consumption	l/s	7.56
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		154 04 425

Features & benefits:

- Apply to chamfer and burr off, sanding flat surface and weld seam for the operations in narrow working sites and so on.
- Easy and quick change sanding belt with labor saving switch.
- Easy and quick speed adjust switch.
- 360° angle adjustable fixed arm apply to different operate position.
- One-piece forming aluminum alloy body. Hand grip easy for handle.
- Industrial motor with needle bearing. High strength vane extend service life.

Included accessories:

1x 1/4" Coupler
 2x 20x520mm Sanding Belt No.80,100
 1x 4mm Hex. key

AFB-DA2517A 20x520mm Two Function Air Belt Sander

Belt Size	inch	3/4x20.5
	mm	20x520
Horse Power	hp	0.6
Free Speed	rpm	17000
Length	mm	370
Weight	kg	1.28
Air Consumption	l/s	7.56
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		154 04 426

Features & benefits:

- Apply to chamfer and burr off, sanding flat surface and weld seam for the operations in narrow working sites and so on.
- Patent adjustable fixed arm design could match curved surface as need.
- Easy and quick change sanding belt with labor saving switch.
- Easy and quick speed adjust switch.
- 360° angle adjustable fixed arm apply to different operate position.
- One-piece forming aluminum alloy body. Hand grip easy for handle.
- Industrial motor with needle bearing. High strength vane extend service life.

Included accessories:

1x 1/4" Coupler
 2x 20x520mm Sanding Belt No.80,100
 1x 3mm Hex. key • 1x 4mm Hex. key

A-FBA-D32-L54R140 30x540mm 7 Degree Offset Air Belt Sander



Belt Size	inch	1.18x21.26
	mm	30x540
Horse Power	hp	0.7
Free Speed	rpm	14000
Length	mm	395
Weight	kg	2.02
Air Consumption	l/s	6.88
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		154 02 430

Features & benefits:

- Apply to chamfer and burr off, sanding flat surface in large area and so on.
- Easy and quick change sanding belt with labor saving switch.
- 360° angle adjustable fixed arm apply to different operate position.
- Composite grip absorbs vibration and Insulating grip temperature to the operator.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing. High strength vane extend service life.

Included accessories:

- 1x 1/4" Coupler • 1x 4mm Hex. key
- 1x 30x540mm Sanding Belt No.100
- 1x 5mm Hex. key • 1x Side handle

A-FBA-D62-L26R70 60x260mm 7 Degree Offset Air Belt Sander



Belt Size	inch	2.36x10.23
	mm	60x260
Horse Power	hp	0.6
Free Speed	rpm	7000
Length	mm	228
Weight	kg	1.36
Air Consumption	l/s	6.36
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		154 02 460

Features & benefits:

- Apply to sanding flat surface and brushed finishing in large area and so on.
- Auxiliary arm can lock by the need for width. Keep straight smooth avoided deviation.
- Composite grip absorbs vibration and Insulating grip temperature to the operator.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing. High strength vane extend service life.

Included accessories:

- 1x 1/4" Coupler
- 1x 60x260mm Sanding Belt No.80

A-GGA-G 5" Air Angle Grinder

A-GGA-G55-P23R120 the highest power is one of 5 inch class air angle grinder. The governed motor design when used under heavy load, the air intake switch will turn on the maximum flow, so that the motor can output the maximum power.

Best mate for heavy industry, casting, metal processing, naval architecture, auto manufacturers.

Spiral bevel gear

The transmission of gear occlusion is more stable, reducing loss and improving durability.

Spindle Lock

Easy and quick to change pad.

**Light Weight & High Power Output**

Light weight 2.11 kg only. 2.3hp horse power output. Industrial motor with high strength and durable vane.

Ergonomic Safty Lever

Air valves can be started slowly and speed control during operation.

Back Exhaust Silencer

Reduce noise effective by back exhaust silencer.

**Quick Adjust Grinding Wheel Cover**

Adjust protection cover by spark angle up to 270°.

Low vibration side handle

Damping design improve comfort feel and reduce vibrations.

Composite Body

Brings comfortable and control for the operator. Insulating grip temperature reduce vibrations.

Model	Wheel Guard Size		Spindle Thread	Horse Power	Free Speed	Length	Weight	Air Consumption	Item No.
	inch	mm	inch	hp	rpm	mm	kg	l/s	
A-GGA-G55-P23R120	5 x 1/4 x 7/8	125 x 6 x 22.2	5/8-11UNC	2.3	12000	260	2.11	32	162 02 250

Air Pressure: Air Inlet Size 3/8 inch • Min. Air Hose ID 1/2 inch • Recommend Air Pressure 90psi

Included accessories: 1x 3/8" Coupler • 1x Pin type Spanner • 1x 6.35mm Hex. key • 3/8" 5M Exhaust hose • 2x Cable tie • 1x Side handle

Model Nomenclature

A - GGA - G23 - P04R150 - R

A: Air Tools

G: Grinding Tools

M: Micro Die Grinder

D: Die Grinder

G: Grinder

Handle Type:

A: Angle • **E:** Extend • **P:** Pistol

S: Straight • **V:** Vertical

D: Drive • **G:** Gear Box

T: Turbine • **L:** Gearless

R: Rotary Switch
1: Generation

R: Free Speed(rpm)
(counted by hundreds)

P: Horse Power
(Counted by 0.1HP)

01: include the numbers below 0.1HP

1~9: Ordinal

Output Drive Size:

2: 2" • **3:** 3mm (1/8") / **3:** 3" • **4:** 4" • **5:** 5"
6: 6mm (1/4") / **6:** 6" • **7:** 7" • **8:** 8mm • **9:** 9"

A-GGA-G Air Angle Grinder

Features & benefits:

- For high strength grinding and shaving.
- Compact design for better balance when grip.
- Light weight aluminum body to reduce fatigue when operate.
- Grooved handle design for durable grip.
- Adjustable speed rotate switch.
- Industrial motor with needle bearing extended service life as well as load capacity.



G43



G23



G43



G53



G63 / G73



Lever



Rotary Switch(-R)

Model	Wheel Guard Size		Spindle Thread	Horse Power	Free Speed	Length	Weight	Air Consumption	Item No.
	inch	mm	inch	hp	rpm	mm	kg	l/s	
A-GGA-G23-P04R150-R	2 x 5/32 x 3/8	50 x 4 x 9.5	1/4-28UNF	0.4	15000	157	0.6	6.67	162 60 220
A-GGA-G23-P04R150	2 x 5/32 x 3/8	50 x 4 x 9.5	1/4-28UNF	0.4	15000	188	0.7	6.67	162 60 221
A-GGA-G43-P05R135-R	4 x 1/4 x 5/8	100 x 6 x 15.8	M8	0.5	13500	180	1.2	6.7	162 60 240
A-GGA-G43-P05R135	4 x 1/4 x 5/8	100 x 6 x 15.8	M8	0.5	13500	180	1.2	6.7	162 60 241
A-GGA-G43-P08R135-R	4 x 1/4 x 5/8	100 x 6 x 15.8	M8	0.8	13500	216	2.22	10.83	162 60 242
A-GGA-G43-P08R135	4 x 1/4 x 5/8	100 x 6 x 15.8	M8	0.8	13500	272	2.22	10.83	162 60 243
A-GGA-G53-P10R120-R	5 x 1/4 x 7/8	125 x 6 x 22.2	5/8-11UNC	1.0	12000	257	2.33	13	162 60 250
A-GGA-G53-P10R120	5 x 1/4 x 7/8	125 x 6 x 22.2	5/8-11UNC	1.0	12000	261	2.33	13	162 60 251
A-GGA-G63-P16R90-R	6 x 1/4 x 7/8	150 x 6 x 22	W1/2-16(F)	1.6	9000	252	2.9	18.33	162 60 260
A-GGA-G63-P16R90	6 x 1/4 x 7/8	150 x 6 x 22	W1/2-16(F)	1.6	9000	353	3	18.33	162 60 261
A-GGA-G73-P16R70-R	7 x 1/4 x 7/8	180 x 6 x 22.2	5/8-11UNC	1.6	7000	252	2.9	18.33	162 60 270
A-GGA-G73-P16R70	7 x 1/4 x 7/8	180 x 6 x 22.2	5/8-11UNC	1.6	7000	353	3	18.33	162 60 271

Included accessories:

A-GGA-G23-P04R150(-R): 1x 1/4"Coupler • 1x 19mm Open-end wrench • 1x 5mm Hex. key

A-GGA-G43-P05R135(-R): 1x 1/4"Coupler • 1x Claw wrench • 1x 6mm Hex. key

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

A-GGA-G43-P08R135(-R): 1x 3/8"Coupler • 1x 32mm Open-end wrench • 1x 6mm Hex. key • 1x Side Handle

A-GGA-G53-P10R120(-R): 1x 3/8"Coupler • 1x 26mm Open-end wrench • 1x 3/8 Hex. key • 1x Side Handle

A-GGA-G63-P16R90(-R): 1x 3/8"Coupler • 1x 26mm Open-end wrench • 1x 8mm Hex. key • 1x Side Handle

A-GGA-G73-P16R70(-R): 1x 3/8"Coupler • 1x 26mm Open-end wrench • 1x 8mm Hex. key • 1x Side Handle

Air Pressure: Air Inlet Size 3/8 inch • Min. Air Hose ID 1/2 inch • Recommend Air Pressure 90psi

A-GGS-D Air Straight Grinder

Features & benefits:

- For high strength grinding and shaving.
- Light weight aluminum body to reduce fatigue when operate.
- Grooved handle design for durable grip.
- Adjustable speed rotate switch.
- Industrial motor with needle bearing. High strength fan blade extended service life.



D33



D53



D43



D63

Model	Wheel Guard Size		Spindle Thread	Horse Power	Free Speed	Length	Weight	Air Consumption	Item No.
	inch	mm	inch	hp	rpm	mm	kg	l/s	
A-GGS-D33-P07R135-R	3x1/2x3/8	75x13x9.53	W3/8-16	0.7	13500	320	1.2	9.16	162 35 130
A-GGS-D43-P09R95-R	4x3/4x1/2	100x19x12.7	W1/2-12	0.9	9500	391	2.2	13.3	162 60 140
A-GGS-D53-P13R76-R	5x3/4x1/2	125x19x12.7	W1/2-12	1.3	7600	405	2.7	16.67	162 60 150
A-GGS-D63-P14R63-R	6x1x5/8	150 x25x15.8	5/8-11UNC	1.4	6300	434	3.5	20	162 60 160

Included accessories:

A-GGS-D33-P07R135-R: 1x 3/8"Coupler • 2x (14x19mm) Double Open-end wrench

A-GGS-D43-P09R95-R: 1x 3/8"Coupler • 1x 32mm Open-end wrench • 1x 21mm Open-end wrench

A-GGS-D53-P13R76-R: 1x 3/8"Coupler • 1x 41mm Open-end wrench • 1x 21mm Open-end wrench

A-GGS-D63-P14R63-R: 1x 3/8"Coupler • 1x 50mm Open-end wrench • 1x 26mm Open-end wrench

Air Pressure: Air Inlet Size 3/8 inch • Min. Air Hose ID 1/2 inch • Recommend Air Pressure 90psi

A-GMS-D31-P01R700 Air Pencil Micro Die Grinder



Collet Size	mm	3
Horse Power	hp	0.1
Free Speed	rpm	70000
Length	mm	137
Weight	kg	0.2
Air Consumption	l/s	1.88
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	5/16
Recommend Air Pressure	psi	90
Item No.		160 35 111

Features & benefits:

- Detail grinding to repair a mold, chamfer or burr and so on.
- Adjustable speed rotate switch.
- Small diameter tiny design apply on meticulous work.
- Back exhaust reduce noise.

Included accessories:

- 1x 1/4" Coupler
- 2x 9mm Open-end wrench

A-GMA-D31-P01R700 Right Angle Air Pencil Micro Die Grinder



Collet Size	mm	3
Horse Power	hp	0.1
Free Speed	rpm	70000
Length	mm	150
Weight	kg	0.23
Air Consumption	l/s	1.88
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	5/16
Recommend Air Pressure	psi	90
Item No.		160 35 121

Features & benefits:

- Detail grinding to repair a mold, chamfer or burr and so on.
- Angle head for grinding at tiny space or special angle.
- Adjustable speed rotate switch.
- Small diameter tiny design apply on meticulous work.
- Back exhaust reduce noise.

Included accessories:

- 1x 1/4" Coupler
- 1x 6mm Open-end wrench
- 1x 8mm Open-end wrench

A-GMS-D31-P02R800 Right Angle Air Pencil Micro Die Grinder



Collet Size	mm	3
Horse Power	hp	0.2
Free Speed	rpm	80000
Length	mm	134
Weight	kg	0.36
Air Consumption	l/s	5.28
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	5/16
Recommend Air Pressure	psi	90
Item No.		160 35 211

Features & benefits:

- Low vibrations, detail grinding to repair a mold, chamfer or burr and so on.
- Adjustable speed rotate switch.
- Rubber grip brings comfortable and reduce vibrations.
- Small diameter tiny design apply on meticulous work.
- Back exhaust reduce noise.
- Industrial motor with needle bearing. High strength fan blade extended service life.

Included accessories:

- 1x 1/4" Coupler
- 2x 9mm Open-end wrench

A-GMS-T32-P02R1000 Air Turbine Pencil Micro Die Grinder



Collet Size	mm	3
Horse Power	hp	0.2
Free Speed	rpm	100000
Length	mm	190
Weight	kg	0.3
Air Consumption	l/s	1.88
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	5/16
Recommend Air Pressure	psi	90
Item No.		160 35 311

Features & benefits:

- Low vibrations, detail grinding to repair a mold, chamfer or burr and so on.
- Adjustable speed rotate switch.
- Rubber grip brings comfortable and reduce vibrations.
- Small diameter tiny design apply on meticulous work.
- Low noise back exhaust.
- Industrial motor with needle bearing. High strength fan blade extended service life.

Included accessories:

- 1x 1/4" Coupler
- 1x 1/4" Open-end wrench
- 1x 3/16" Open-end wrench

A-GDS-D62-P04R280 Air Die Grinder

Collet Size	mm	6
Horse Power	hp	0.4
Free Speed	rpm	28000
Length	mm	179
Weight	kg	0.49
Air Consumption	l/s	4.72
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		161 07 140

Features & benefits:

- High speed grinding chamfer or burr.
- Low noise back exhaust.
- Light weight composite grip brings comfortable and reduce vibrations.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing.
- High strength vane extend service life.

Included accessories:

- 1x 1/4" Coupler
- 2x (14x17mm) Double Open-end wrench

A-GDS-D62-P06R210 Air Die Grinder

Collet Size	mm	6
Horse Power	hp	0.6
Free Speed	rpm	21000
Length	mm	198
Weight	kg	0.71
Air Consumption	l/s	5.68
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		161 07 160

Features & benefits:

- High speed grinding chamfer or burr.
- Low noise back exhaust.
- Light weight composite grip brings comfortable and reduce vibrations.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing.
- High strength vane extend service life.

Included accessories:

- 1x 1/4" Coupler
- 1x 14mm Double Open-end wrench
- 1x 19mm Open-end wrench

A-GDS-D63-P05R180-R Air Die Grinder-Roller Switch

Collet Size	mm	6
Horse Power	hp	0.5
Free Speed	rpm	18000
Length	mm	213
Weight	kg	0.9
Air Consumption	l/s	7.5
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		161 60 150

Features & benefits:

- High speed grinding chamfer or burr.
- Low noise back exhaust.
- Light weight composite grip brings comfortable and reduce vibrations.
- Adjustable speed rotate switch.
- Industrial motor with needle bearing.
- High strength vane extend service life.

Included accessories:

- 1x 1/4" Coupler
- 1x 12mm Open-end wrench
- 1x 14mm Open-end wrench

A-GDS-D62-P10R200-R Air Die Grinder-Roller Switch

Collet Size	mm	6
Horse Power	hp	1
Free Speed	rpm	20000
Length	mm	225
Weight	kg	1.25
Air Consumption	l/s	9.24
Air Inlet Size	inch	3/8
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	90
Item No.		161 07 310

Features & benefits:

- High speed grinding shaving chamfer or burr and so on.
- High strength and durable steel body.
- Adjustable speed rotate switch.
- Industrial motor with needle bearing.
- High strength vane extend service life.

Included accessories:

- 1x 3/8" Coupler
- 1x 14mm Open-end wrench
- 1x 19mm Open-end wrench

A-GDS-D62-P10R200 Air Die Grinder

Collet Size	mm	6
Horse Power	hp	1
Free Speed	rpm	20000
Length	mm	225
Weight	kg	1.25
Air Consumption	l/s	9.24
Air Inlet Size	inch	3/8
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	90
Item No.		161 07 311

Features & benefits:

- High speed grinding shaving chamfer or burr and so on.
- High strength and durable steel body.
- Adjustable speed rotate switch.
- Industrial motor with needle bearing.
- High strength vane extend service life.

Included accessories:

- 1x 3/8" Coupler
- 1x 14mm Open-end wrench
- 1x 19mm Open-end wrench

A-GDA-G63-P04R150-R Right Angle Air Die Grinder



Collet Size	mm	6
Horse Power	hp	0.4
Free Speed	rpm	15000
Length	mm	157
Weight	kg	0.6
Air Consumption	l/s	6.67
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		161 60 210

Features & benefits:

- High speed grinding chamfer or burr.
- High strength bevel gear improve the torque when grinding.
- Light weight alum. body brings operator comfortable and reduce vibrations.
- Adjustable speed rotate switch.
- Industrial motor with needle bearing. High strength fan blade extended service life.

Included accessories:

- 1x 1/4" Coupler
- 1x 13mm Open-end wrench
- 1x 15mm Open-end wrench

A-GDA-G62-P04R200 Right Angle Air Die Grinder



Collet Size	mm	6
Horse Power	hp	0.4
Free Speed	rpm	20000
Length	mm	193
Weight	kg	0.59
Air Consumption	l/s	7.56
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		161 07 240

Features & benefits:

- High speed grinding chamfer or burr.
- High strength bevel gear improve the torque when grinding.
- Low noise back exhaust.
- Light weight composite grip brings comfortable and reduce vibrations.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing. High strength vane extend service life.

Included accessories:

- 1x 1/4" Coupler
- 2x (11x17mm) Double Open-end wrench

A-GDA-G62-P06R200 Right Angle Air Die Grinder



Collet Size	mm	6
Horse Power	hp	0.6
Free Speed	rpm	20000
Length	mm	196
Weight	kg	0.81
Air Consumption	l/s	7.56
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		161 07 260

Features & benefits:

- High speed grinding shaving chamfer or burr and so on.
- Light weight composite grip brings comfortable and reduce vibrations.
- Low noise back exhaust.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing. High strength vane extend service life.

Included accessories:

- 1x 1/4" Coupler • 1x Side handle
- 1x 11mm Open-end wrench
- 1x 14mm Double Open-end wrench
- 1x 4mm Hex. Key

A-GDA-L61-P07R180 7 Degree Offset Air Die Grinder



Collet Size	mm	6
Horse Power	hp	0.7
Free Speed	rpm	18000
Length	mm	190
Weight	kg	0.84
Air Consumption	l/s	6.88
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		161 02 161

Features & benefits:

- High speed grinding shaving chamfer or burr and so on.
- Light weight composite grip brings comfortable and reduce vibrations.
- Air valves can be started slowly and speed control during operation.
- Industrial motor with needle bearing. High strength vane extend service life.

Included accessories:

- 1x 1/4" Coupler
- 2x (14x19mm) Double Open-end wrench

A-GDE-D62-P04R250 Extend Air Die Grinder

Collet Size	mm	6
Horse Power	hp	0.4
Free Speed	rpm	25000
Length	mm	303
Weight	kg	0.66
Air Consumption	l/s	5.28
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		161 07 142

Features & benefits:

- High speed grinding shaving chamfer or burr and so on.
- Extension body could operate at hole or trough.
- Low noise back exhaust.
- Light weight composite grip brings comfortable and reduce vibrations.
- Air valves can be started slowly during high-speed operation, to protect workpiece.
- Industrial motor with needle bearing. High strength fan blade extended service life.

Included accessories:

- 1x 1/4" Coupler
- 2x (11x17mm) Double Open-end wrench

A-GDE-D62-P06R200 Extend Air Die Grinder

Collet Size	mm	6
Horse Power	hp	0.6
Free Speed	rpm	20000
Length	mm	330
Weight	kg	1.28
Air Consumption	l/s	7.92
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		161 07 162

Features & benefits:

- High speed grinding shaving chamfer or burr and so on.
- Extension body could operate at hole or trough.
- Low noise back exhaust.
- Light weight composite grip brings comfortable and reduce vibrations.
- Air valves can be started slowly during high-speed operation, to protect workpiece.
- Industrial motor with needle bearing. High strength fan blade extended service life.

Included accessories:

- 1x 1/4" Coupler
- 2x (11x17mm) Double Open-end wrench

A-GDE-D63-P07R180-R Extend Air Die Grinder

Collet Size	mm	6
Horse Power	hp	0.7
Free Speed	rpm	18000
Length	mm	320
Weight	kg	1.07
Air Consumption	l/s	9.16
Air Inlet Size	inch	3/8
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	90
Item No.		161 35 370

Features & benefits:

- High speed grinding shaving chamfer or burr and so on.
- Extension body could operate at hole or trough.
- Light weight alum. body brings operator comfortable and reduce vibrations.
- Adjustable speed rotate switch.
- Industrial motor with needle bearing. High strength fan blade extended service life.

Included accessories:

- 1x 3/8" Coupler
- 1x 12mm Open-end wrench
- 1x 14mm Open-end wrench

How to choose drill :

Step 1 Material

Step 2 Drilling Size

Step 3 Type

3.1 Handle Type

(Pistol, Straight, Angle, Angle Head)

3.2 Forward or Reversible

3.3 Horsepower and Strength

3.4 Free Speed

3.5 Collet type

[Key Chuck, Keyless Chuck, Threaded Shank, Collet Chuck(Elastic chuck)]

Handle Type



Pistol



Straight



Angle

Forward or Reversible



Forward



Reversible

Drill size and speed chart :

The drill size chart provides a list of standard size drill bits and speed for make decisions.

Pre-drilling to keep high efficiency suggestion. Drilling size more than 6mm(1/4") on Stainless Steel, Forged Seel,

Titanium Alloy. Drilling size more than 8mm(5/16") on Malleable Cast iron, Low Carbon Steel, Soft Cast Iron, Plastic.

Material	Speed (m/min)	Stainless Steel	Forged Seel	Titanium Alloy	Malleable Cast iron	Low Carbon Steel	Soft Cast Iron Plastic	Aluminum Alloy Brass Bronze	Magnesium Alloy	Wood
Drilling Size (mm)										
		9-12	12-15	15-18	24-33	24-27	30-45	60-90	75-120	90-120
3		1100	1750	2700	2700	3000	4000	8000	10400	11000
4		840	1300	2000	2000	2200	3000	6000	7800	8400
5		660	1050	1600	1600	1800	2400	4800	6200	6700
6		550	880	1350	1350	1500	2000	4000	5200	5600
8		420	660	1000	1000	1100	1500	3000	3900	4200
10		330	630	800	800	900	1200	2400	3100	3300
12		280	440	700	700	750	1000	2000	2600	2800
13		260	400	630	630	700	920	1800	2400	2550

Model Nomenclature

A - MDP - G32 - P06R20 - R

A: Air Tools

M: Material Removal Tools

D: Drills • **F:** File • **A:** Aerospace Drills
C: Cut off • **S:** Saws

Handle Type:

A: Angle • **E:** Extend • **D:** D Handle
T: T Handle • **H:** Two Hand
G: Palm Handle(Grip) • **P:** Pistol
S: Straight • **V:** Vertical

K: Kit • **R:** Rotary Switch

R: Free Speed(rpm)
B: Blow per Minute(bpm)
(counted by hundreds)

S: Stroke • **P:** Horse Power
(Counted by 0.1HP)
01: include the numbers below 0.1HP

1~9: Ordinal

Output Drive Size:
2: 1/4" • **3:** 3/8" / 3" • **4:** 1/2" / 4"

G: Gear Box • **D:** Drive • **P:** Pistol

A-MDP-G Air Drill

Features & benefits:

- Output 0.4HP, drill capability Ø6mm(1/4") and below.
- Industrial collet chuck brings high precision and service life.
- Air valves can be started slowly and speed control during operation.
- High precision motor and industrial durable vane.
- Rubber grip brings comfortable and reduce vibrations.



Model	Spindle Thread	Chuck Size		Horse Power	Free Speed	Length	Weight	Air Consumption	Item No.
	inch	inch	mm	hp	rpm	mm	kg	l/s	
A-MDP-G21-P04R52	3/8-24T	1/4	6	0.4	5200	143	0.72	4.24	170 35 121
A-MDP-G21-P04R38	3/8-24T	1/4	6	0.4	3800	143	0.72	4.24	170 35 122
A-MDP-G21-P04R32	3/8-24T	1/4	6	0.4	3200	143	0.72	4.24	170 35 123
A-MDP-G21-P04R24	3/8-24T	1/4	6	0.4	2400	165	0.81	4.24	170 35 124
A-MDP-G21-P04R10	3/8-24T	1/4	6	0.4	1000	165	0.81	4.24	170 35 127

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 1/4"Drill Chuck Key

Remark: ■ Key Chuck : Fixed size drilling bit.

- Keyless Chuck : Replacement drilling bit.

A-MDP-G Pistol Reversible Air Drill

Features & benefits:

- Output 0.4HP, drill capability Ø6mm(1/4") and below.
- Industrial collet chuck brings high precision and service life.
- Air valves can be started slowly and speed control during operation.
- High precision motor and industrial durable vane.
- Rubber grip brings comfortable and reduce vibrations.



Model	Spindle Thread	Chuck Size		Horse Power	Free Speed	Length	Weight	Air Consumption	Item No.
	inch	inch	mm	hp	rpm	mm	kg	l/s	
A-MDP-G21-P04R31-R	3/8-24T	1/4	6	0.4	3100	195	0.76	3.16	170 35 223
A-MDP-G21-P04R20-R	3/8-24T	1/4	6	0.4	2000	195	0.76	3.16	170 35 225

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 1/4"Drill Chuck Key

Remark: ■ Key Chuck : Fixed size drilling bit.

- Keyless Chuck : Replacement drilling bit.

A-MDP-G Air Drill

Features & benefits:

- Output 0.6HP, drill capability Ø13mm(1/2") and below.
- Industrial collet chuck brings high precision and service life.
- Air valves can be started slowly and speed control during operation.
- High precision motor and industrial durable vane.
- Rubber grip brings comfortable and reduce vibrations.
- Large size drill suggest operate with side handle



Model	Spindle Thread	Chuck Size		Horse Power	Free Speed	Length	Weight	Air Consumption	Item No.
	inch	inch	mm	hp	rpm	mm	kg	l/s	
A-MDP-G22-P06R250	3/8-24T	1/4	6	0.6	25000	140	0.74	7.56	170 04 320
A-MDP-G22-P06R56	3/8-24T	1/4	6	0.6	5600	185	0.95	7.56	170 04 321
A-MDP-G22-P06R40	3/8-24T	1/4	6	0.6	4000	185	1	7.56	170 04 322
A-MDP-G32-P06R28	3/8-24T	3/8	10	0.6	2800	200	1	7.56	170 04 334
A-MDP-G42-P06R05	1/2-20T	1/2	13	0.6	500	240	1.4	7.56	170 04 345

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 1/4"Drill Chuck Key(A-MDP-G22-P06R250 / A-MDP-G22-P06R56 / A-MDP-G22-P06R40)

1x 1/4"Coupler • 1x 3/8"Drill Chuck Key(A-MDP-G32-P06R28)

1x 1/4"Coupler • 1x 1/2"Drill Chuck Key • 1x Side Handle(A-MDP-G42-P06R05)

Remark: ■ Key Chuck : Fixed size drilling bit.

■ Keyless Chuck : Replacement drilling bit.

A-MDP-G Reversible Air Drill

Features & benefits:

- Output 0.6HP, drill capability Ø13mm(1/2") and below.
- Industrial collet chuck brings high precision and service life.
- Air valves can be started slowly and speed control during operation.
- High precision motor and industrial durable vane.
- Rubber grip brings comfortable and reduce vibrations.
- Large size drill suggest operate with side handle



Model	Spindle Thread	Chuck Size		Horse Power	Free Speed	Length	Weight	Air Consumption	Item No.
	inch	inch	mm	hp	rpm	mm	kg	l/s	
A-MDP-G32-P06R20-R	3/8-24T	3/8	10	0.6	2000	215	1	7.56	170 04 435
A-MDP-G42-P06R07-R	1/2-20T	1/2	13	0.6	700	252	1.4	7.56	170 04 447

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 3/8"Drill Chuck Key(A-MDP-G32-P06R20-R)

1x 1/4"Coupler • 1x 1/2"Drill Chuck Key • 1x Side Handle(A-MDP-G42-P06R07-R)

Remark: ■ Key Chuck : Fixed size drilling bit.

■ Keyless Chuck : Replacement drilling bit.

A-MDP-G Air Drill

Features & benefits:

- Output 1.0HP, drill capability Ø13mm(1/2") and below.
- Industrial collet chuck brings high precision and service life.
- Air valves can be started slowly and speed control during operation.
- High precision motor and industrial durable vane.
- Rubber grip brings comfortable and reduce vibrations.
- Large size drill suggest operate with side handle



Model	Spindle Thread	Chuck Size		Horse Power	Free Speed	Length	Weight	Air Consumption	Item No.
	inch	inch	mm	hp	rpm	mm	kg	l/s	
A-MDP-G22-P10R210	3/8-24T	1/4	6	1.0	21000	225	1	7.56	170 04 520
A-MDP-G32-P10R35	3/8-24T	3/8	10	1.0	3500	218	1.1	7.56	170 04 533
A-MDP-G32-P10R26	3/8-24T	3/8	10	1.0	2600	218	1.1	7.56	170 04 534
A-MDP-G42-P10R06	1/2-20T	1/2	13	1.0	600	258	1.5	7.56	170 04 548

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 1/4"Drill Chuck Key(A-MDP-G22-P10R210)
 1x 1/4"Coupler • 1x 3/8"Drill Chuck Key(A-MDP-G32-P10R35 / A-MDP-G32-P10R26)
 1x 1/4"Coupler • 1x 1/2"Drill Chuck Key • 1x Side Handle(A-MDP-G42-P10R06)

Remark: ■ Key Chuck : Fixed size drilling bit.
 ■ Keyless Chuck : Replacement drilling bit.

A-MDP-G Reversible Air Drill

Features & benefits:

- Output 1.0HP, drill capability Ø13mm(1/2") and below.
- Industrial collet chuck brings high precision and service life.
- Air valves can be started slowly and speed control during operation.
- High precision motor and industrial durable vane.
- Rubber grip brings comfortable and reduce vibrations.
- Large size drill suggest operate with side handle



Model	Spindle Thread	Chuck Size		Horse Power	Free Speed	Length	Weight	Air Consumption	Item No.
	inch	inch	mm	hp	rpm	mm	kg	l/s	
A-MDP-G32-P10R28-R	3/8-24T	3/8	10	1.0	2800	234	1.1	7.56	170 04 634
A-MDP-G32-P10R15-R	3/8-24T	3/8	10	1.0	1500	234	1.1	7.56	170 04 636
A-MDP-G42-P10R05-R	1/2-20T	1/2	13	1.0	500	272	1.6	7.56	170 04 648
A-MDP-G42-P10R02-R	1/2-20T	1/2	13	1.0	250	272	1.6	7.56	170 04 649

Air Pressure: Air Inlet Size 1/4 inch • Min. Air Hose ID 3/8 inch • Recommend Air Pressure 90psi

Included accessories: 1x 1/4"Coupler • 1x 3/8"Drill Chuck Key (A-MDP-G32-P10R28-R / A-MDP-G32-P10R15-R)
 1x 1/4"Coupler • 1x 1/2"Drill Chuck Key • 1x Side Handle(A-MDP-G42-P10R05-R / A-MDP-G42-P10R02-R)

Remark: ■ Key Chuck : Fixed size drilling bit.
 ■ Keyless Chuck : Replacement drilling bit.

A-MCA-D31-P05R170 Air Cut Off Tools



Wheel Guard Size	inch	3 x 1/16 x 3/8
	mm	75 x 1.6 x 9.5
Horse Power	hp	0.5
Free Speed	rpm	17000
Length	mm	210
Weight	kg	0.93
Air Consumption	l/s	7.56
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		171 04 310

Features & benefits:

- Apply to high speed cutting for metal or composite material.
- Easy and quick speed adjust switch.
- Quick adjust wheel cover to protect from grinding spark.
- One-piece forming aluminum alloy body. Hand grip easy for handle.
- High precision motor and industrial durable vane.

Included accessories:

- 1x 1/4" Coupler • 1x 5mm Hex. key
- 1x 14mm Open-end wrench
- 1x 4mm Open-end wrench

A-MCA-G43-P10R120 Air Cut Off Tools



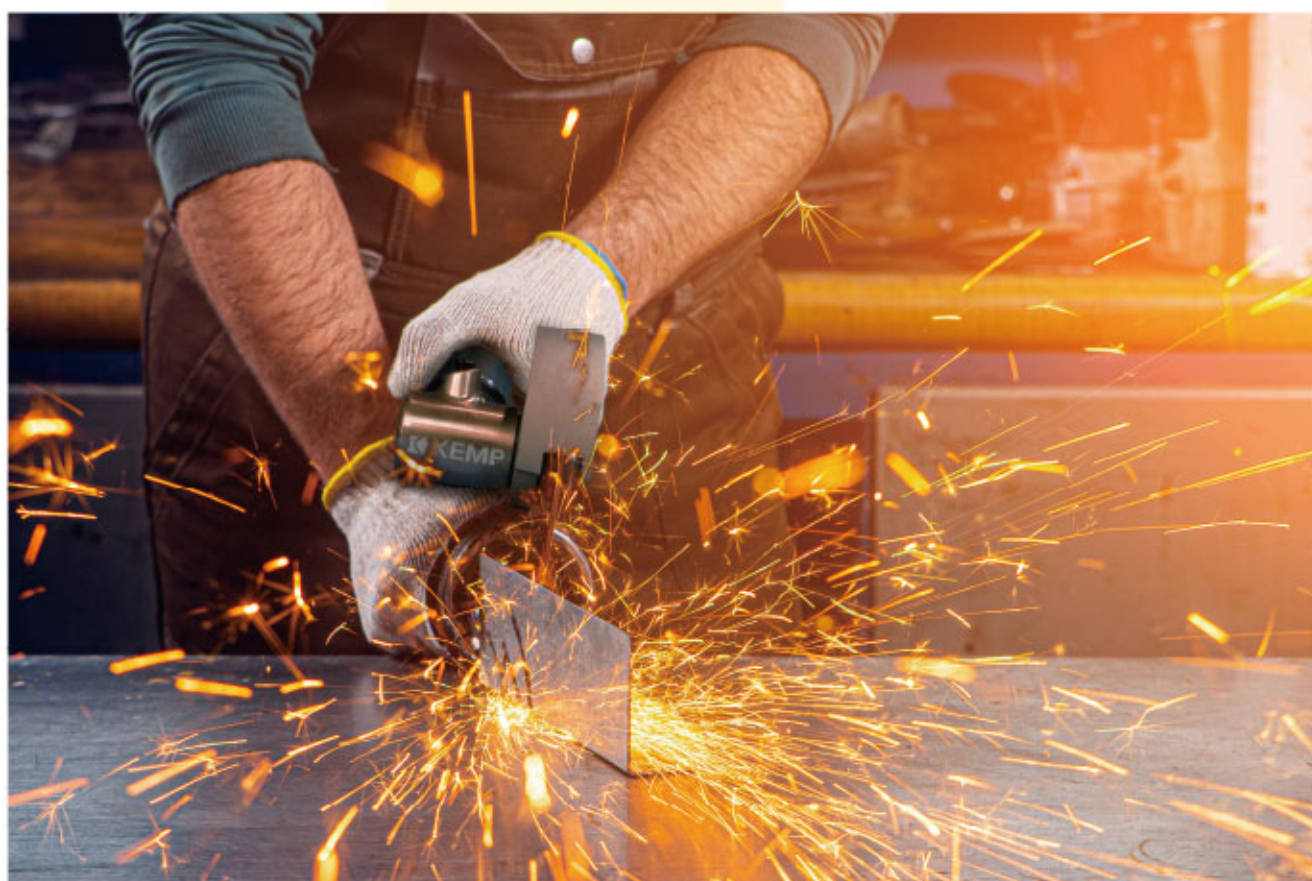
Wheel Guard Size	inch	4 x 5/64 x 5/8
	mm	100 x 2 x 16
Horse Power	hp	1.0
Free Speed	rpm	12000
Length	mm	270
Weight	kg	1.36
Air Consumption	l/s	8.48
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		171 35 410

Features & benefits:

- Apply to high speed cutting for metal or composite material.
- Quick adjust wheel cover to protect from grinding spark.
- One-piece forming aluminum alloy body. Hand grip easy for handle.
- High precision motor and industrial durable vane.

Included accessories:

- 1x 1/4" Coupler • 1x 5mm Hex. key
- 1x 19mm Open-end wrench



A-MSS-P22-S10B95-K Low Vibration Air Saw Kit

Features & benefits:

- Vibration reduction design. Improve comfort feel for operator.
- Efficient high precision percussive cylinder.
- Adjustable nosepiece pushes against can fixation workpiece.
- Universal joint for flexible movement.
- 10mm stroke length. Ideal cutting ability for sheet metal.



Stroke Length	Blow per Minute	Length	Weight	Air Consumption	Air Inlet Size	Min. Air Hose ID	Recommend Air Pressure	Item No.
mm	bpm	mm	kg	l/s	inch	inch	psi	
10	9500	238	1.25	6.6	1/4	3/8	90	172 10 910

Included accessories: 1x 1/4"Coupler • 1x Universal Joint • 5x 18T Saw Blade • 5x 24T Saw Blade • 5x 32T Saw Blade • 1x 3mm Hex. Key
1x Blow Case

A-MSS-P22-S25B50-K Long Stroke Low Vibration Air Saw Kit

Features & benefits:

- Vibration reduction design. Improve comfort feel for operator.
- Efficient high precision percussive cylinder.
- Adjustable nosepiece pushes against can fixation workpiece.
- Universal joint for flexible movement.
- 25mm stroke length. Ideal cutting ability for pipe metal, tubing...and so on.



Stroke Length	Blow per Minute	Length	Weight	Air Consumption	Air Inlet Size	Min. Air Hose ID	Recommend Air Pressure	Item No.
mm	bpm	mm	kg	l/s	inch	inch	psi	
25	5000	268	1.52	5.68	1/4	3/8	90	172 10 925

Included accessories: 1x 1/4"Coupler • 1x Universal Joint • 5x 18T Saw Blade • 5x 24T Saw Blade • 1x 3mm Hex. Key • 1x Blow Case

A-MSS-P31-S45B12-K Low Vibration Air Hacksaw Kit

Features & benefits:

- Vibration reduction design. Improve comfort feel for operator.
- Efficient high precision percussive cylinder.
- Adjustable nosepiece pushes against can fixation workpiece.
- Emergency Relief and destructive cutting.
- 45mm stroke length. Ideal cutting ability for pipe metal, tubing...and so on.



Stroke Length	Blow per Minute	Length	Weight	Air Consumption	Air Inlet Size	Min. Air Hose ID	Recommend Air Pressure	Item No.
mm	bpm	mm	kg	l/s	inch	inch	psi	
45	1200	432	2.58	4.24	1/4	3/8	90	172 35 345

Included accessories: 1x 1/4"Coupler • 1x Universal Joint • 1x 1/2"Nosepiece • 1x 3/4"Nosepiece • 5x 14T 3/4"x300mm Saw Blade
5x 14T 1/2"x300mm Saw Blade • 1x 2.5mm Hex. Key • 1x 3mm Hex. Key • 1x Mini Oiler • 1x Blow Case

A-MSS-G41-S60B03 High Power Air Hacksaw

Stroke Length	mm	60
Blow per Minute	bpm	330
Length	mm	510
Weight	kg	6.32
Air Consumption	l/s	24.07
Air Inlet Size	inch	1/2
Min. Air Hose ID	inch	3/4
Recommend Air Pressure	psi	90
Item No.		172 35 360

Features & benefits:

- Ideal for steel, pig iron, concrete and plastic pipe and profile cutting.
- Pipe holders for plastic pipe and profile (diameter 80mm to 400mm).
- Up to 45° instrument bevel with pipe holders.
- Adjustable manual clamp, clamping fixture and extension chains.
- 60mm stroke length. Ideal cutting ability for pipe metal, tubing...and so on.

Included accessories:

- 1x 1/2" Coupler • 1x Clamping Rack
- 1x 14T Saw Blade • 1x 4mm Hex. Key
- 1x 13mm Open-end Wrench
- 1x 8mm Open-end Wrench
- 1x Side Handle

A-MFS-P11-S08B75 Mini Air File

Stroke Length	mm	8
Blow per Minute	bpm	7500
Length	mm	180
Weight	kg	0.55
Air Consumption	l/s	1.88
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		173 02 108

Features & benefits:

- Light weight and mini size easy to operate.
- Low noise with silencer tube
- For shaving metal burr & plastic flash off.
- Rubber grip for improved operating comfort.

Included accessories:

- 1x 1/4" Coupler • 1x 2.5mm Hex. Key
- 1x 1/4" 550mm Silencer Tube
- 4x 5mm File (Flat, Round, Semi-circle, Triangle)

A-MFS-P22-S10B90-R Low Vibration Air File

Stroke Length	mm	10
Blow per Minute	bpm	9000
Length	mm	200
Weight	kg	0.75
Air Consumption	l/s	7.32
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		173 10 110

Features & benefits:

- Vibration reduction design. Improve comfort feel for operator.
- Rotary switch adjust speed quickly.
- Rotate exhaust.
- Rubber grip for improved operating comfort.
- For metal and plastic shaving burr off.

Included accessories:

- 1x 1/4" Coupler • 1x Rotary Switch
- 1x 3mm Hex. Key
- 4x 5mm File (Flat, Round, Semi-circle, Triangle)

A-PES-S1-B130 Air Engraving Pen

Blow per Minute	bpm	13000
Length	mm	140
Weight	kg	0.22
Air Consumption	l/s	1.88
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	1/4
Recommend Air Pressure	psi	90
Item No.		180 35 100

Features & benefits:

- Low noise.
- Hardness alloy bit.
- Comfort handle and carving.
- Rotary switch easy to operate.

Included accessories:

- 1x 1/4" Coupler
- 1x 45° alloy steel tip

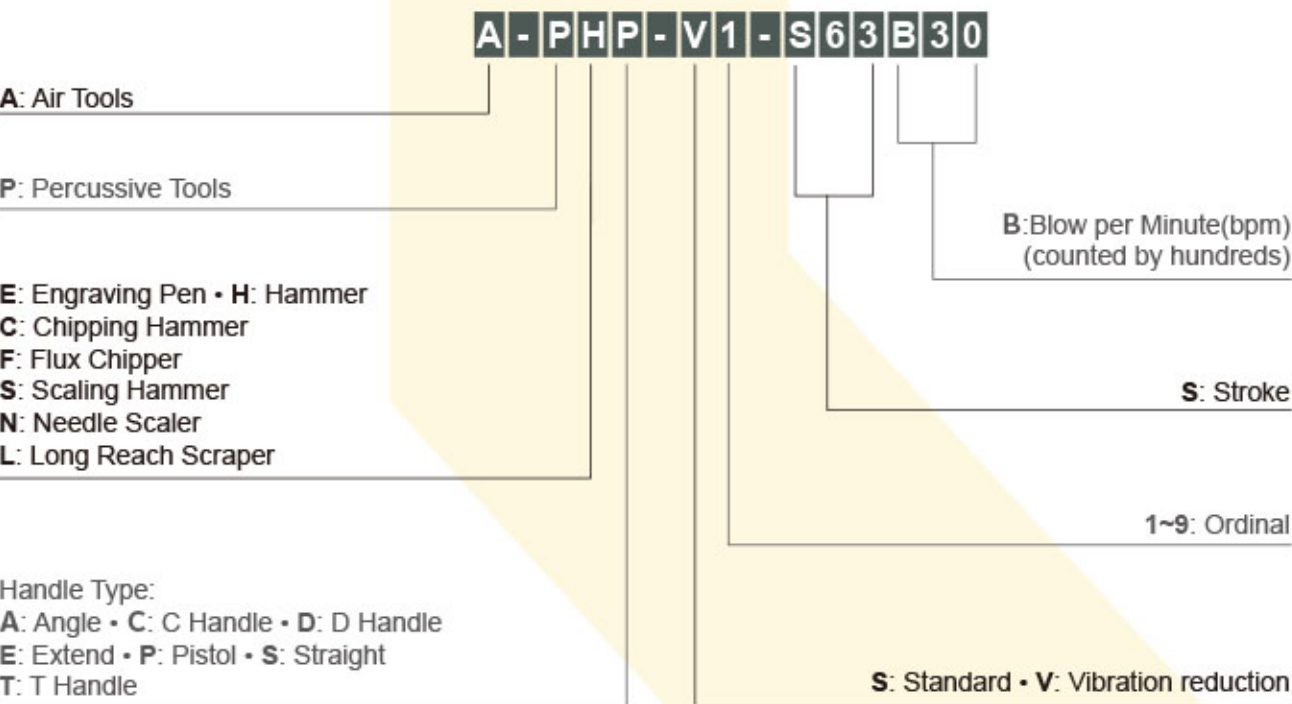


The image features a large, dark wooden display cabinet set against a textured brick wall. The cabinet is divided into several sections. The top left section, illuminated by a warm yellow light, displays a collection of KEMP industrial tools: a yellow and black orbital sander, a black and yellow screwdriver, a yellow and black cordless drill, a yellow and black cordless impact driver, a black and yellow air tool, and a yellow and black cordless angle grinder. The top right section, also lit with warm yellow light, contains three shelves displaying miniature models of a red and white train, a white tanker truck, and a white dump truck. Below these, a silver sports car and a red airplane are displayed on a shelf. The bottom left section of the cabinet has a small shelf with a stack of white towels, a drawer unit, and a shelf with a pair of yellow work boots. The bottom right section features a hanging rod with several pairs of trousers and jackets. At the very bottom of the cabinet are two small drawers. The overall aesthetic is one of rugged industrial strength combined with a touch of domestic comfort.

 **KEMP 肯普**
Bespoke industrial tools.



Model Nomenclature



A-PHP-V1-S63B30 Vibration-Damped Air Hammer

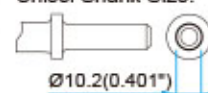
Chisel Shank Size(Round)	mm	10.2
Piston Stroke	mm	62.5
Piston Diameter	mm	19
Blow per Minute	bpm	3000
Length	mm	180
Weight	kg	1.7
Air Consumption	l/s	14.72
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		181 01 200

Features & benefits:

- Patent low vibration valve, reduce operating fatigue.
- Durable metal hammer valve.
- Ergonomic grip improve comfort feel.
- Rubber grip for improved operating comfort.
- Powerful and precision.

Included accessories:

- 1x 1/4" Coupler
- 1x Retainer Spring (Quick change)

Chisel Shank Size:**A-PHP-V1-S87B21 Vibration-Damped Long Stroke Air Hammer**

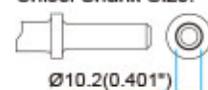
Chisel Shank Size(Round)	mm	10.2
Piston Stroke	mm	86.5
Piston Diameter	mm	19
Blow per Minute	bpm	2100
Length	mm	224
Weight	kg	2
Air Consumption	l/s	16.24
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		181 01 201

Features & benefits:

- Patent low vibration valve, reduce operating fatigue.
- Durable metal hammer valve.
- Ergonomic grip improve comfort feel.
- Rubber grip for improved operating comfort.
- Powerful and precision.

Included accessories:

- 1x 1/4" Coupler
- 1x Retainer Spring (Quick change)

Chisel Shank Size:**A-PSA-S1-S35B70 Single Head Air Scaling Hammer**

Head	unit	1
Piston Stroke	mm	34.7
Piston Diameter	mm	30
Blow per Minute	bpm	7000
Length	mm	531
Weight	kg	2.4
Air Consumption	l/s	1.56
Air Inlet Size	inch	3/8
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	90
Item No.		184 01 400

Features & benefits:

- Piston striking to remove rust quickly.
- Durable carbide cross point drill bit.
- Low vibration long handle, auxiliary grip easy to operate.
- For high strength rust off and descaling.

Included accessories:

- 1x 3/8" Coupler

A-PSA-S3-S26B24 Triple Head Air Scaling Hammer

Head	unit	3
Piston Stroke	mm	26
Piston Diameter	mm	27
Blow per Minute	bpm	2400
Length	mm	497
Weight	kg	4
Air Consumption	l/s	3.68
Air Inlet Size	inch	3/8
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	90
Item No.		184 01 402

Features & benefits:

- Piston striking to remove rust quickly.
- Durable carbide cross point drill bit.
- Low vibration long handle, auxiliary grip easy to operate.
- For high strength rust off and descaling.

Included accessories:

- 1x 3/8" Coupler • 1x Side Handle

A-PCC-S1-S58B30-K Mini Air Chipping Hammer Kit



Chisel Shank Size(Round)	mm	12.6
Piston Stroke	mm	58
Piston Diameter	mm	20
Blow per Minute	bpm	3000
Length	mm	257
Weight	kg	1.6
Air Consumption	l/s	13.96
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		182 01 900

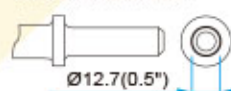
Features & benefits:

- Open handle easy to operate.
- High tensile forging handle.
- Adjustable side exhaust.
- Heavy duty.

Included accessories:

- 1x 1/4" Coupler • 1x Beehive Spring
- 1x Retainer Spring (Quick change)
- 1x Quick change chisel retainer
- 3x Chisel(point, flat 20mm, flat 30mm)
- 1x Blow Case

Chisel Shank Size:



A-PCC-S1-S75B23 Air Chipping Hammer



Chisel Shank Size(Round)	mm	17.2
Piston Stroke	mm	75
Piston Diameter	mm	28.5
Blow per Minute	bpm	2300
Length	mm	397
Weight	kg	7.3
Air Consumption	l/s	19.64
Air Inlet Size	inch	3/8
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	90
Item No.		182 01 302

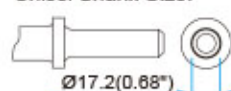
Features & benefits:

- Open handle easy to operate.
- High tensile forging handle.
- Adjustable side exhaust.
- Heavy duty.

Included accessories:

- 1x 3/8" Coupler

Chisel Shank Size:



A-PCC-S1-S118B20 Air Chipping Hammer



Chisel Shank Size(Round)	mm	17.2
Piston Stroke	mm	118
Piston Diameter	mm	28.5
Blow per Minute	bpm	2000
Length	mm	446
Weight	kg	8
Air Consumption	l/s	23.2
Air Inlet Size	inch	3/8
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	90
Item No.		182 01 303

Features & benefits:

- Open handle easy to operate.
- High tensile forging handle.
- Adjustable side exhaust.
- Heavy duty.

Included accessories:

- 1x 3/8" Coupler

Chisel Shank Size:



A-PCC-S1-S141B16 Air Chipping Hammer



Chisel Shank Size(Round)	mm	17.2
Piston Stroke	mm	141
Piston Diameter	mm	28.5
Blow per Minute	bpm	1600
Length	mm	472
Weight	kg	8.3
Air Consumption	l/s	24.56
Air Inlet Size	inch	3/8
Min. Air Hose ID	inch	1/2
Recommend Air Pressure	psi	90
Item No.		182 01 304

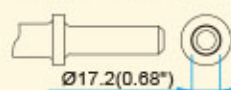
Features & benefits:

- Open handle easy to operate.
- High tensile forging handle.
- Adjustable side exhaust.
- Heavy duty.

Included accessories:

- 1x 3/8" Coupler

Chisel Shank Size:



A-PFS-S4-S30B38 Air Chisel Scaler

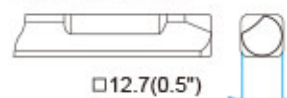
Chisel Shank Size(Square)	mm	12.7
Piston Stroke	mm	30
Piston Diameter	mm	18
Blow per Minute	bpm	3800
Length	mm	325
Weight	kg	1.6
Air Consumption	l/s	1.18
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		187 01 101

Features & benefits:

- Chisel quick change.
- Light weight and high effective.
- For descaling and burr, welding spatter off.

Included accessories:

1x 1/4"Coupler • 1x 4mm Hex. key
1x 35mm Chisel

Chisel Shank Size:**A-PFS-S7-S36B40 Air Chisel Scaler**

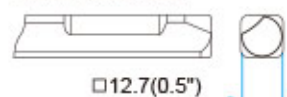
Chisel Shank Size(Square)	mm	12.7
Piston Stroke	mm	36
Piston Diameter	mm	23.8
Blow per Minute	bpm	4000
Length	mm	364
Weight	kg	1.9
Air Consumption	l/s	3.02
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		187 01 103

Features & benefits:

- Chisel quick change.
- Steel pipe molded in one body, make it sturdy and durable.
- For high strength descaling and burr, welding spatter off.

Included accessories:

1x 1/4"Coupler • 1x 4mm Hex. key
1x 35mm Chisel

Chisel Shank Size:**A-PFP-S5-S39B20 Pistol Air Chisel Scaler**

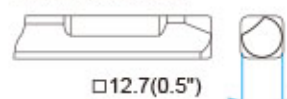
Chisel Shank Size(Square)	mm	12.7
Piston Stroke	mm	39
Piston Diameter	mm	28.5
Blow per Minute	bpm	2000
Length	mm	306
Weight	kg	2.7
Air Consumption	l/s	0.94
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		187 01 112

Features & benefits:

- Chisel quick change.
- Rubber grip for improved operating comfort.
- For high strength descaling and burr, welding spatter off.

Included accessories:

1x 1/4"Coupler • 1x 6mm Hex. key
1x 35mm Chisel

Chisel Shank Size:**A-PNS-S4-S30B42 2mm 27pcs Needles Air Needle Scaler**

Needle Quantity	pcs	27
Needle Diameter(ØWxL)	mm	Ø2x180
Piston Stroke	mm	30
Piston Diameter	mm	18
Blow per Minute	bpm	4200
Length	mm	356
Weight	kg	1.6
Air Consumption	l/s	0.94
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		187 01 201

Features & benefits:

- Adjustable front cover for increased needle usage time.
- Light weight and high effective.
- For high strength rust and descaling.

Included accessories:

1x 1/4"Coupler • 1x 4mm Hex. key

Needle Size:

A-PNS-S7-S36B35 3mm 19pcs Needles Pistol Air Needle Scaler



Needle Quantity	pcs	19
Needle Diameter(ØWxL)	mm	Ø3x180
Piston Stroke	mm	36
Piston Diameter	mm	23.8
Blow per Minute	bpm	3500
Length	mm	442
Weight	kg	2.8
Air Consumption	l/s	3.02
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		187 01 203

Features & benefits:

- Adjustable front cover for increased needle usage time.
- Steel pipe molded in one body, make it sturdy and durable.
- Remove high strength rust and descaling.

Included accessories:

1x 1/4"Coupler • 1x 4mm Hex. key

Needle Size:



A-PNT-V3-S35B45 3mm 19pcs Needles Pistol Air Needle Scaler



Needle Quantity	pcs	19
Needle Diameter(ØWxL)	mm	Ø3x180
Piston Stroke	mm	35
Piston Diameter	mm	24
Blow per Minute	bpm	4500
Length	mm	392
Weight	kg	2.9
Air Consumption	l/s	0.94
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		187 01 221

Features & benefits:

- Patent low vibration valve, reduce operating fatigue.
- Rubber grip for improved operating comfort.
- Remove high strength rust and descaling.

Included accessories:

1x 1/4"Coupler

Needle Size:



A-PNP-S5-S39B27 3mm 28pcs Needles Pistol Air Needle Scaler



Needle Quantity	pcs	28
Needle Diameter(ØWxL)	mm	Ø3x180
Piston Stroke	mm	39
Piston Diameter	mm	28.5
Blow per Minute	bpm	2700
Length	mm	353
Weight	kg	3.9
Air Consumption	l/s	1.42
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		187 01 212

Features & benefits:

- Adjustable front cover for increased needle usage time.
- Rubber grip for improved operating comfort.
- Remove high strength rust and descaling.

Included accessories:

1x 1/4"Coupler • 1x 6mm Hex. key

Needle Size:



A-PNT-S6-S52B25 4mm 35pcs Needles Pistol Air Needle Scaler



Needle Quantity	pcs	35
Needle Diameter(ØWxL)	mm	Ø4x180
Piston Stroke	mm	52
Piston Diameter	mm	33
Blow per Minute	bpm	2500
Length	mm	457
Weight	kg	6
Air Consumption	l/s	3.49
Air Inlet Size	inch	1/4
Min. Air Hose ID	inch	3/8
Recommend Air Pressure	psi	90
Item No.		187 01 213

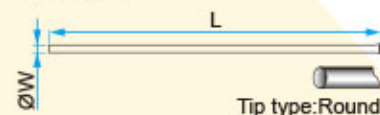
Features & benefits:

- Adjustable front cover for increased needle usage time.
- Rubber grip for improved operating comfort.
- Remove high strength rust and descaling.

Included accessories:

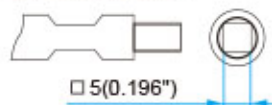
1x 1/4"Coupler • 1x 6mm Hex. key

Needle Size:



A-PFS-S1-S16B100-K Light Duty Air Chisel Scaler Kit
Features & benefits:

- Light weight aluminum alloy body.
- Light weight and Improve efficiency.
- Apply to rust, burr off and descaling.

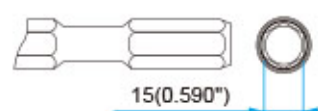
Chisel Shank Size:


Chisel Shank Size (Square)	Piston Stroke	Piston Diameter	Blow per Minute	Length	Weight	Air Consumption	Air Inlet Size	Min. Air Hose ID	Recommend Air Pressure	Item No.
mm	mm	mm	bpm	mm	kg	l/s	inch	inch	psi	
5	16	10	10000	222	0.3	0.38	1/4	1/4	90	187 01 900

Included accessories: 1x 1/4" Coupler • 3x Chisel(9.5mm, 17mm, 22mm) • 1x Blow Case

A-PLS-S3-S33B24-K Long Reach Air Scraper Kit
Features & benefits:

- Light weight aluminum alloy body.
- Multifunction material remove for rust, shaving and descaling.
- Extend rod can connecting make operate range up to 617~1800mm.

Chisel Shank Size:


Chisel Shank Size (Square)	Piston Stroke	Piston Diameter	Blow per Minute	Length	Weight	Air Consumption	Air Inlet Size	Min. Air Hose ID	Recommend Air Pressure	Item No.
mm	mm	mm	bpm	mm	kg	l/s	inch	inch	psi	
15	33.2	28.5	2400	617	3.7	1.32	1/4	3/8	90	188 01 100

Included accessories: 1x 1/4" Coupler • 4x Chisel(40mm, 50mm, 70mm, 100mm) • 1x Rubber grip • 1x 6mm Hex. key
2x extend rod connecting(475mm) • 1x extend rod connecting(275mm) • 1x Blow Case

AAB-001 Air Blow And Suction Gun
Features & benefits:

- Two Function: For sucking up dirt into the vacuum bag as well as for blowing surfaces clean.
- With single-hand reversing switch.
- Touch-operated switch: easy to control and reduce finger fatigue.
- Working Pressure Range : 90~145 psi.
- Deflector special bag insert protects the bag against damage, e. g. due to swarfs, by preventing direct impact of the accelerated swarfs.



Max. Working Pressure	Vacuum Suction	Length	Weight	Air Consumption	Air Inlet Size	Min. Air Hose ID	Recommend Air Pressure	Item No.
psi	mmHg	mm	kg	l/s	inch	inch	psi	
145	900	148	0.4	6.6	1/4	3/8	90	190 40 100

Included accessories: 1x 1/4" Coupler • 1x Extension Tube(Al.) • 1x Small Diameter Vacuum Tube • 1x Brush • 1x Flexible Hose
1x Flat Tube • 1x Deflector • 1x Clamping Ring • 1x Vacuum Bag • 1x Blow Case

