

INDUSTRIAL AIR SCREWDRIVER

Intelligent Design / High Accuracy Assurance

ISO 9001



Certificate TW04/02301



SUMAKE®

MAKE JOBS BETTER THAN EVER

CE

SUMAKE COMPANY PROFILE

Sumake is a manufacturer and exporter specializing in professional high quality pneumatic tools, compressors and accessories suited to a wide range of applications including industrial and automotive.

We are an innovative company.

As a result of constant research and investment we keep at the forefront of current technology and design, thus providing energy efficient, durable and reliable products to industrial markets around the world.

We offer a wide, comprehensive range of CE certified tools and accessories including: Impact Wrenches, Ratchet Wrenches, Sanders, Screwdrivers, Spray Guns, Riveters, Nail Guns and Bradders, just to name a few.

Certified to ISO 9001 we run efficient well organized computerised Q.C. ensure we meet quality, packaging and delivery benchmarks.

We guarantee our customers complete spare parts back up for everything we provide.

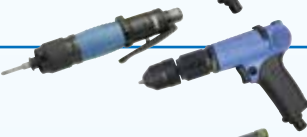
Superior service to our customers is not a goal, it's a reality.

Sumake, partners in business.



SUMAKE has attended many international exhibitions and is known for a variety of high-end innovations with vivid posters. Our outstanding showcase is not only eye-catching but also provides hands-on experience for visitors.

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Intelligent Design Air Screwdriver

1 New Tornado Motor

Based on SUMAKE original MCL cross switch motor, upgraded patent tornado motor provides 60% more torque power and 30~40% less counterforce than original MCL version. Noise level is about 67(±2)dBA, which has decreased by 5-6dBA than MCL motor, which not only prevents operators from hearing damage but also meets industrial regulations.



FP035



FPB030: 3 Nm

3 Patent Mechanical Torque Value Display U Window

Repeatability
Accuracy
±2%

4 Speediness

Operator can change the bit rapidly by pulling the bit sleeve.

2 Patent Reverse Floating Button

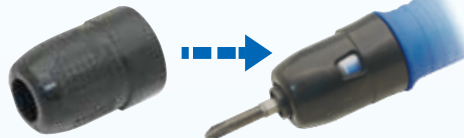
7 Suspension Ring



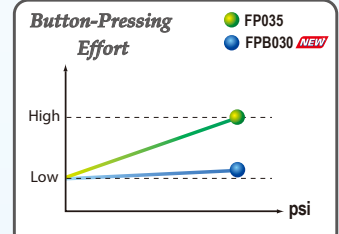
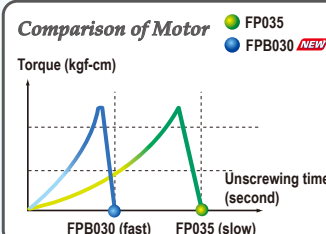
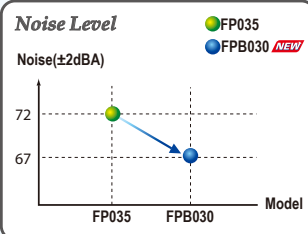
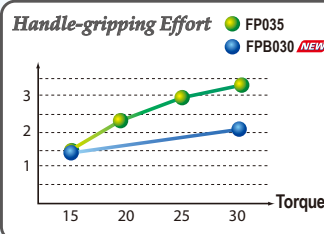
6 Comfort

Uniquely shaped resin grip with ergonomic "Top Wave" design, best balance and easy to grip. The grip is made of thermoplastic elastomer, the best material so far, with good touch and anti-glossy feature.

5 Torque Protection Cover



Scan for
Product Video!

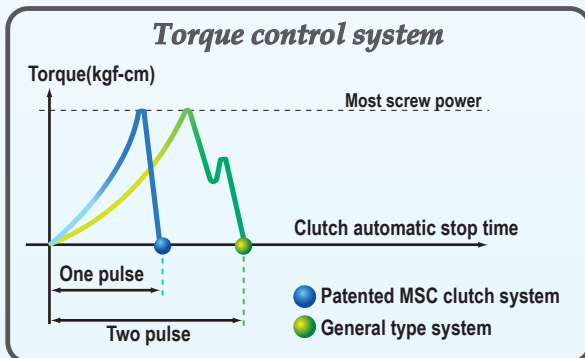


Model No.	Free Speed (r.p.m)	Torque Range		Weight (g)	O.A.L. (mm)	Dia. (mm)	Noise (±3dB(A))	Min. Air Hose bore(mm)	Air Consumption (m³/min)	Fastening Capacity	
		N.m	kgf/cm							Machine Screw Dia.	Tapping Screw Dia.
Push to start											
FPB030	1000	0.5-3	5-30	580	240	34	67	5.0	0.28	M2.2-M5.0	M1.7-M4.1
FPB085	1000	1.5-8.5	15-85	980	298	42	72	8.0	0.55	M4.1-M7.0	M3.1-M6.0

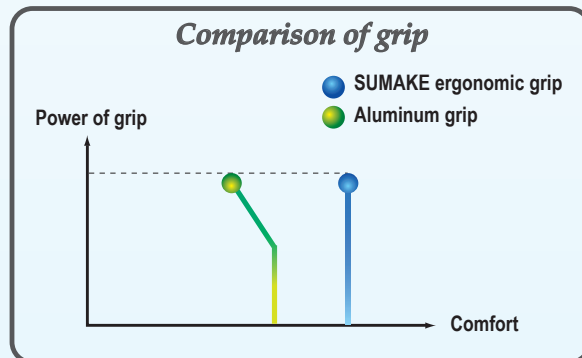
SUMAKE engaging the design and manufacture of air screwdriver. From the user's point of view to plan the product map. From the owner's point of view to calculate the efficiency of tool. Furthermore, base on accuracy, environment, technology and quality, **SUMAKE** owns several patents and awards. An excellent air screwdriver tool can increase not only efficiency but the quality. A REAL industrial Air screwdriver with 2003 newest total design by the engineers of body, mechanic and ergonomics.

SUMAKE air screwdriver has following 18 features

- 1 Accuracy** : **SUMAKE** provide patent clutch with 3% deviation of torque, assure the best quality.
- 2 Meet ISO5393 Standard** : With patented cross-path MSC clutch and special mechanical structure, meet ISO5393 B class CPK value Torque deviation request (CPK value > 1.33).
- 3 Economic** : Wide-ranging torque with many patent and longer life cycle of motor.
- 4 Delicacy** : Combination of art, ergonomics and mechanical design.
- 5 Technology** : Special mechanical structure and patent motor give you low noise, low vibration and high accuracy.
- 6 Honorary** : Award "Excellent Tool" at Japan 2002 Osaka exhibition.



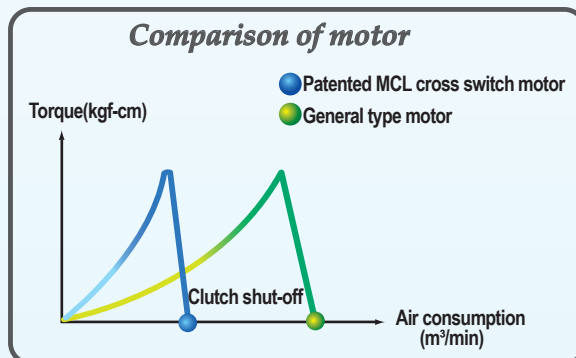
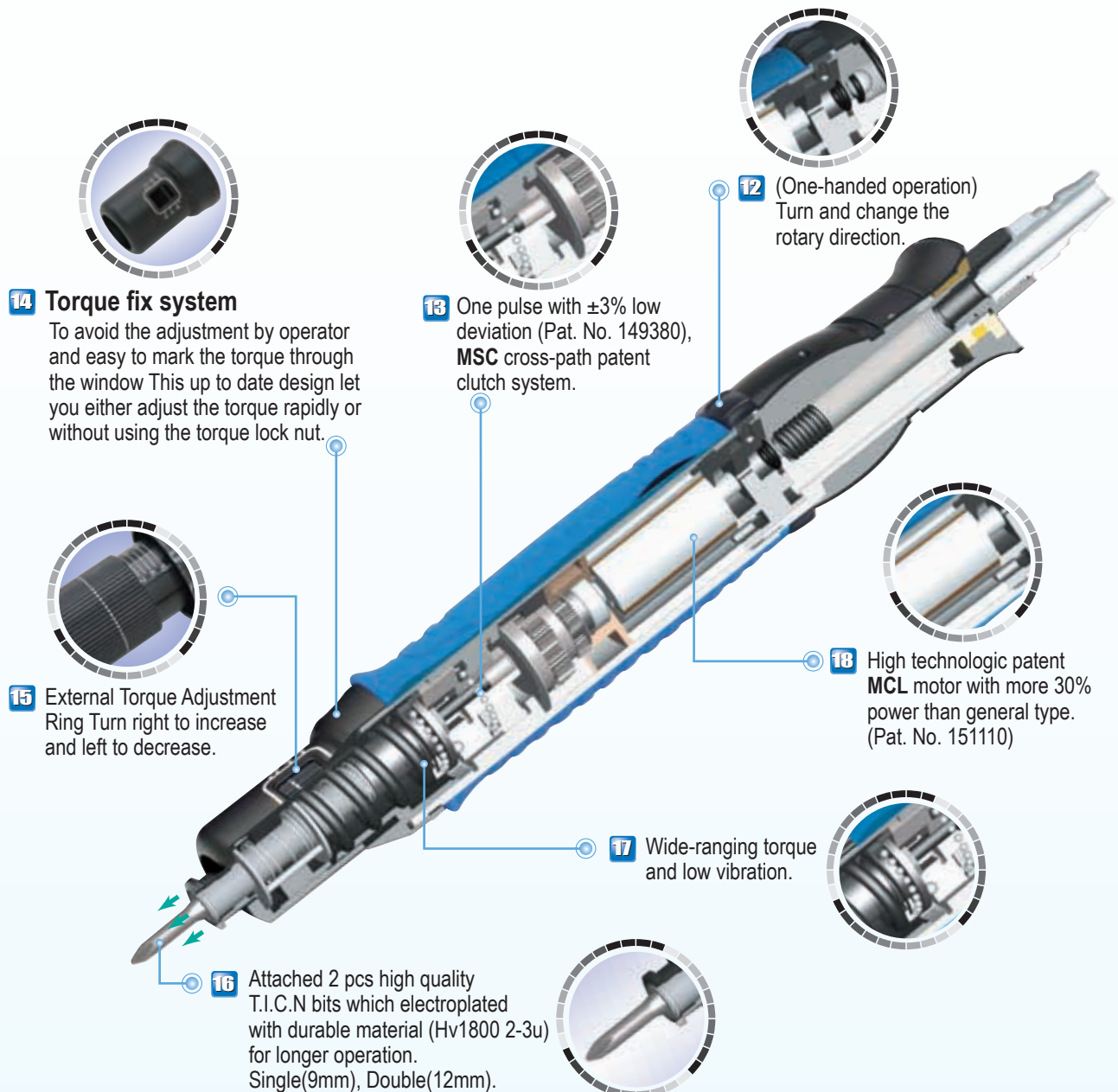
- SUMAKE** Patented MSC cross-path patent clutch system (Automatic start-off type)
The one pulse has the merits of low vibration (less than $2.5m/s^2$) and low torque deviation ($\pm 3\%$).
- Others** General type
2-3 times vibration (over $2.5m/s^2$) when pulse with higher torque deviation.



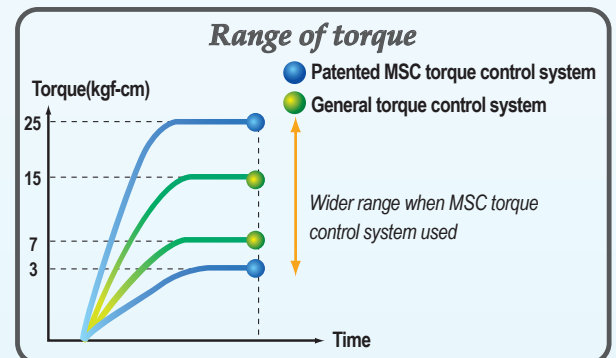
- SUMAKE** Patented **SUMAKE** ergonomic grip
More comfortable for operator to raise efficiency.
- Others** General type
To feel uncomfortable when grip long time.

Disassembly Chart

A New experience of less noise and easy maintenance.



- SUMAKE** Patented MCL cross switch control system (Automatic start shut-off type)
MCL cross switch motor provide 40% more power and torque than general type.
- Others** General type
Low power, higher air consumption with lower efficiency.



- SUMAKE** Patented MSC clutch system.
More wider range of torque when patented motor used.
*When **SUMAKE** model FP025 used.
- Others** General type
Limited torque range.

SUMAKE[®] INDUSTRIAL FULL AUTO SHUT-OFF AIR SCREWDRIVER

Meet ISO5393 Standard B class CPK value. Torque deviation request (CPK value > 1.33)

Economic : Wide-ranging torque with many patent and longer life cycle of motor

Accuracy: 3% deviation of torque, assure the best quality



An Evolutionary Upgrade of Air Screwdriver



Push Start



Lever Start



*Model FAW020 ~ 050
With 1/4" Square
(3/8" Square for Opt.)

*Model FAW060 ~ 280
With 3/8" Square



Lever Start, Angle Type

Recommend Air Pressure: 6.0 Kg/cm²

Model No.	Free Speed (r.p.m.)	Torque Range ±3%		Weight (g)	O.A.L (mm)	Dia. (mm)	Noise (±3dB(A))	Min. Air Hose bore (mm)	Air Consumption (m³/min)	Fastening Capacity	
		Nm	Kgf-cm							Machine Screw Dia.	Tapping Screw Dia.
Push Start											
FP010	1000	0.1-1	1-10	600	250	35	68	5.0	0.20	M1.7-M3.7	M1.3-M2.9
FP020	2200	0.3-2	3-20	600	250	35	72	5.0	0.28	M2.2-M4.5	M1.7-M3.5
FP025	1800	0.3-2.5	3-25	600	250	35	72	5.0	0.28	M2.2-M4.7	M1.7-M3.8
FP035	1000	0.5-3.5	5-35	600	250	35	72	5.0	0.28	M2.8-M5.0	M2.2-M4.0
FP045	800	0.8-4.5	8-45	600	250	35	72	5.0	0.30	M3.3-M5.8	M2.7-M4.7
FP050	550	1-5	10-50	600	250	35	72	5.0	0.30	M3.5-M6.0	M2.8-M4.9
FP060	2200	2-6	20-60	880	285	43	76	8.0	0.55	M3.5-M6.4	M2.8-M5.4
FP075	1000	1.2-7.5	12-75	880	285	43	76	8.0	0.55	M4.1-M6.9	M3.1-M5.9
FP110	550	3-11	30-110	880	285	43	76	8.0	0.55	M5.0-M7.8	M4.0-M6.3
FP180	300	3-18	30-180	900	285	43	76	8.0	0.55	M5.0-M9.3	M4.0-M7.2
FP280	250	5-28	50-280	900	285	43	76	8.0	0.55	M6.0-M11.0	M4.9-M8.7
Lever Start											
FL010	1000	0.1-1	1-10	630	250	35	68	5.0	0.20	M1.7-M3.7	M1.3-M2.9
FL020	2200	0.3-2	3-20	630	250	35	72	5.0	0.28	M2.2-M4.5	M1.7-M3.5
FL025	1800	0.3-2.5	3-25	630	250	35	72	5.0	0.28	M2.2-M4.7	M1.7-M3.8
FL035	1000	0.5-3.5	5-35	630	250	35	72	5.0	0.28	M2.8-M5.0	M2.2-M4.0
FL045	800	0.8-4.5	8-45	630	250	35	72	5.0	0.30	M3.3-M5.8	M2.7-M4.7
FL050	550	1-5	10-50	630	250	35	72	5.0	0.30	M3.5-M6.0	M2.8-M4.9
FL060	2200	2-6	20-60	900	285	43	76	8.0	0.55	M3.5-M6.4	M2.8-M5.4
FL075	1000	1.2-7.5	12-75	900	285	43	76	8.0	0.55	M4.1-M6.9	M3.1-M5.9
FL110	550	3-11	30-110	900	285	43	76	8.0	0.55	M5.0-M7.8	M4.0-M6.3
FL180	300	3-18	30-180	920	285	43	76	8.0	0.55	M5.0-M9.3	M4.0-M7.2
FL280	250	5-28	50-280	920	285	43	76	8.0	0.55	M6.0-M11.0	M4.9-M8.7
Lever Start, Angle Type											
FA020	2200	0.3-2	3-20	770	310	35	70	5.0	0.28	M2.2-M4.5	M1.7-M3.5
FA035	1000	0.5-3.5	5-35	770	310	35	74	5.0	0.28	M2.8-M5.0	M2.2-M4.0
FA045	800	0.8-4.5	8-45	770	310	35	74	5.0	0.30	M3.3-M5.8	M2.7-M4.7
FA050	550	1-5	10-50	770	310	35	74	5.0	0.30	M3.5-M6.0	M2.8-M4.9
FA060	2200	2-6	20-60	1350	345	43	74	8.0	0.55	M3.5-M6.4	M2.8-M5.4
FA075	1000	1.2-7.5	12-75	1350	345	43	78	8.0	0.55	M4.1-M6.9	M3.1-M5.9
FA110	550	3-11	30-110	1350	345	43	78	8.0	0.55	M5.0-M7.8	M4.0-M6.3
FA180	300	3-18	30-180	1450	345	43	78	8.0	0.55	M5.0-M9.3	M4.0-M7.2
FA280	250	5-28	50-280	1450	345	43	78	8.0	0.55	M6.0-M11.0	M4.9-M8.7

*The standard bit is 1/4", if ϕ 5mm, put "A" in the end Ex. FP010A

SUMAKE Air Screwdriver has following 15 features

SUMAKE A-series have multi-start function: Push start / Push - Trigger start / Trigger start function.

1 Technology : Special mechanical structure and patent motor give you low noise, low vibration and high accuracy.

2 Accuracy : SUMAKE provide patent clutch with 3% deviation of torque, assure the best quality.

3 Light Weight: All new patent mechanical design and grip material 25~44% lighter than other brand.

4 Delicacy : Combination of art, ergonomics and mechanical design.

5 User Friendly operation

Easy to switch the direction(F/R) by single hand.

9 Flexible inlet design feature

The air inlet direction can be option for assembly line to get flexible space.

6 Speediness

Operator can change the bit rapidly by pulling the slide sleeve.

7 Trigger auto lock feature

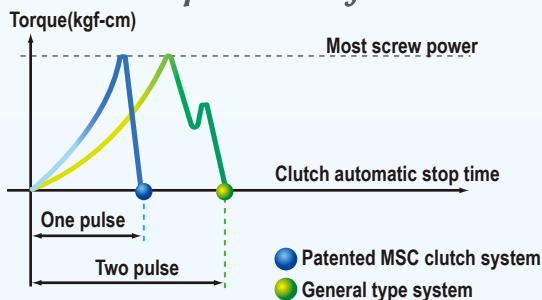
World first proprietary auto lock feature(APP type only) with the choice of PUSH or PUSH To Start (to avoid any damage on surface and more safety for operator) can increase the quality of screwing.

8 Comfort

Uniquely shaped ergonomic design with anti-slip to provide best balance and comfort in operation.

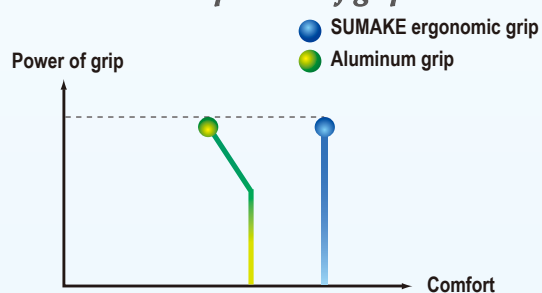


Torque control system



- SUMAKE Patented MSC cross-path patent clutch system (Automatic start-off type)**
The one pulse has the merits of low vibration (less than 2.5m/s^2) and low torque deviation ($\pm 3\%$).
- Others General type**
2-3 times vibration (over 2.5m/s^2) when pulse with higher torque deviation.

Comparison of grip

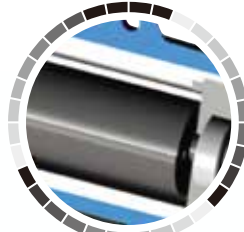


- SUMAKE Patented SUMAKE ergonomic grip**
More comfortable for operator to raise efficiency.
- Others General type**
To feel uncomfortable when grip long time.

Disassembly Chart



- 12** Attached 2 pcs high quality T.I.C.N. bits which electroplated with durable material (Hv1800 2-3u) for longer operation. Single(9mm), Double(12mm)



- 11** High technologic patent MCL motor with more 30% power than general type. (pat. No.151110)



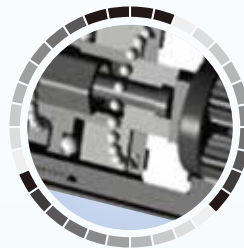
- 10** (Single-handed operation) Turn and change the rotary direction.



- 13** The torque nut used for: Color torque system torque fix system adjust the torque rapidly. Turn right to increase and left to decrease.

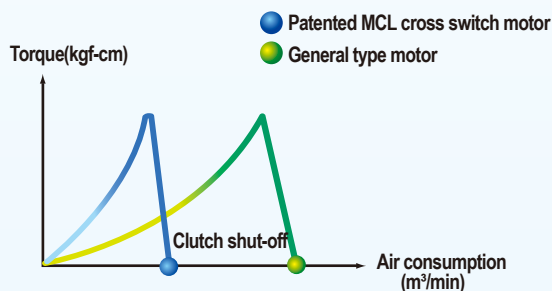


- 14** Wide-ranging torque and low vibration.



- 15** One pulse with $\pm 3\%$ low deviation (Pat. No.149380), MSC cross-path patent clutch system.

Comparison of motor



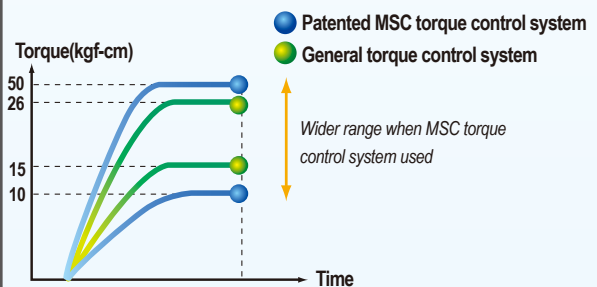
SUMAKE Patented MCL cross switch control system (Automatic start shut-off type)

MCL cross switch motor provide 30% more power and torque than general type.

Others General type

Low power, higher air consumption with lower efficiency.

Range of torque



SUMAKE Patented MSC clutch system.

More wider range of torque when patented motor used. *When **SUMAKE** model APP47 used.

Others General type

Limited torque range.

Push start or Push & Trigger start shut off



*Air Inlet could be 3 way option



**APP38
APP41
APP47**

<Small Body> -Light Weight-



**APP48 APP60
APP50 APP65
APP55 APP68**

<Standard Body>

Option:

*APPT is for push-trigger to start (w/o lock pin) Ex. APPT38.

Model No.	Drive	Free Speed (r.p.m.)	Torque Range±3%		Weight (g)	Dimension (Ø x L x H) (mm)	Air Pressure (Kg/cm ²)	Noise Level (±3dB(A))	Min. Air Hose Bore (mm)	Air Consumption (m ³ /min)	Fastening Capacity	
			N.m	Kgf-cm							Machine Screw Dia. T	Tapping Screw Dia. 2T
APP38	⬡F1/4"	1800	0.3-2.5	3-25	690	33 x 195 x 150	6.0	72	5.0	0.28	M2.2-M4.7	M1.7-M3.8
APP41	⬡F1/4"	1000	0.5-3.5	5-35	690	33 x 195 x 150	6.0	72	5.0	0.28	M2.8-M5.2	M2.2-M4.2
APP47	⬡F1/4"	550	1-5	10-50	690	33 x 195 x 150	6.0	72	5.0	0.28	M3.6-M6.0	M2.8-M4.7
APP48	⬡F1/4"	2200	1-6	10-60	1030	39 x 230 x 160	6.0	76	8.0	0.55	M3.6-M6.2	M2.8-M5.1
APP50	⬡F1/4"	1400	1-6	10-60	1030	39 x 230 x 160	6.0	76	8.0	0.55	M3.6-M6.2	M2.8-M5.1
APP55	⬡F1/4"	1000	1.2-7.5	12-75	1030	39 x 230 x 160	6.0	76	8.0	0.55	M3.8-M6.6	M3.0-M5.6
APP60	⬡F1/4"	550	3-11	30-110	1030	39 x 230 x 160	6.0	76	8.0	0.55	M5.0-M7.3	M4.0-M6.2
APP65	⬡F1/4"	300	3-18	30-180	1150	39 x 235 x 160	6.0	76	8.0	0.55	M5.0-M9.3	M4.0-M7.2
APP68	⬡F1/4"	250	5-28	50-280	1150	39 x 235 x 160	6.0	76	8.0	0.55	M6.0-M11.0	M4.9-M8.7

* If Ø5mm, put "A" in the end Ex. APP38A

* Standard air inlet direction up bottom only. If need three-direction air inlet up bottom rear, put "T" in the end Ex. APP38T.

Trigger start-shut off



*Air Inlet could be 3 way option



**ABP38
ABP41
ABP47**

<Small Body> -Light Weight-



**ABP48 ABP60
ABP50 ABP65
ABP55 ABP68**

<Standard Body>

Option:

* ASP is push start Ex. ASP38. Standard air inlet is from rear only. (w/o lock pin) Other air inlet direction please specify.

Model No.	Drive	Free Speed (r.p.m.)	Torque Range±3%		Weight (g)	Dimension (Ø x L x H) (mm)	Air Pressure (Kg/cm ²)	Noise Level (±3dB(A))	Min. air hose bore (mm)	Air Consumption (m ³ /min)	Fastening Capacity	
			N.m	Kgf-cm							Machine Screw Dia. T	Tapping Screw Dia. 2T
ABP38	⬡F1/4"	1800	0.3-2.5	3-25	690	33 x 195 x 150	6.0	72	5.0	0.28	M2.2-M4.7	M1.7-M3.8
ABP41	⬡F1/4"	1000	0.5-3.5	5-35	690	33 x 195 x 150	6.0	72	5.0	0.28	M2.8-M5.2	M2.2-M4.2
ABP47	⬡F1/4"	550	1-5	10-50	690	33 x 195 x 150	6.0	72	5.0	0.28	M3.6-M6.0	M2.8-M4.7
ABP48	⬡F1/4"	2200	1-6	10-60	1030	39 x 230 x 160	6.0	76	8.0	0.55	M3.6-M6.2	M2.8-M5.1
ABP50	⬡F1/4"	1400	1-6	10-60	1030	39 x 230 x 160	6.0	76	8.0	0.55	M3.6-M6.2	M2.8-M5.1
ABP55	⬡F1/4"	1000	1.2-7.5	12-75	1030	39 x 230 x 160	6.0	76	8.0	0.55	M3.8-M6.6	M3.0-M5.6
ABP60	⬡F1/4"	550	3-11	30-110	1030	39 x 230 x 160	6.0	76	8.0	0.55	M5.0-M7.3	M4.0-M6.2
ABP65	⬡F1/4"	300	3-18	30-180	1150	39 x 235 x 160	6.0	76	8.0	0.55	M5.0-M9.3	M4.0-M7.2
ABP68	⬡F1/4"	250	5-28	50-280	1150	39 x 235 x 160	6.0	76	8.0	0.55	M6.0-M11.0	M4.9-M8.7

* If Ø5mm, put "A" in the end Ex. ABP38A

* 3/8" square available from ABP48~68, and code change to AWP48~68

* Standard air inlet direction up bottom only. If need three-direction air inlet up bottom rear, put "T" in the end Ex. ABP38T.

Trigger Start Air Screwdriver **Direct Driven Type** (Without Clutch)



Model No.	Drive	Bolt Capacity (mm)	Max. Torque Hard Joint		No Load Speed (r.p.m.)	Dimension (Ø x L x H) (mm)	Avg. Air Consumption		Weight (g)	Noise Level (±3dB(A))	Min. Air Hose Bore (I.D.)
			N-m	Ft-lb			cfm	m³/min			
ADPN39	⬡ F1/4"	3 ~ 5	5.0	3.7	1600	36 x 140 x 142	10	0.28	550	72	5mm
ADPN45	⬡ F1/4"	3 ~ 6	7.0	5.0	750	36 x 146 x 142	10	0.28	550	72	5mm
ADPN48	⬡ F1/4"	3 ~ 6	7.0	5.0	1700	45 x 159 x 154	19	0.55	780	76	8mm
ADPN58	⬡ F1/4"	3 ~ 7	13.0	9.6	750	45 x 159 x 154	19	0.55	780	76	8mm

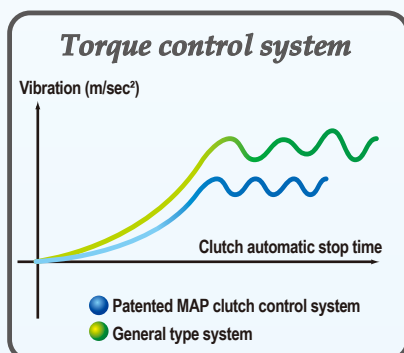
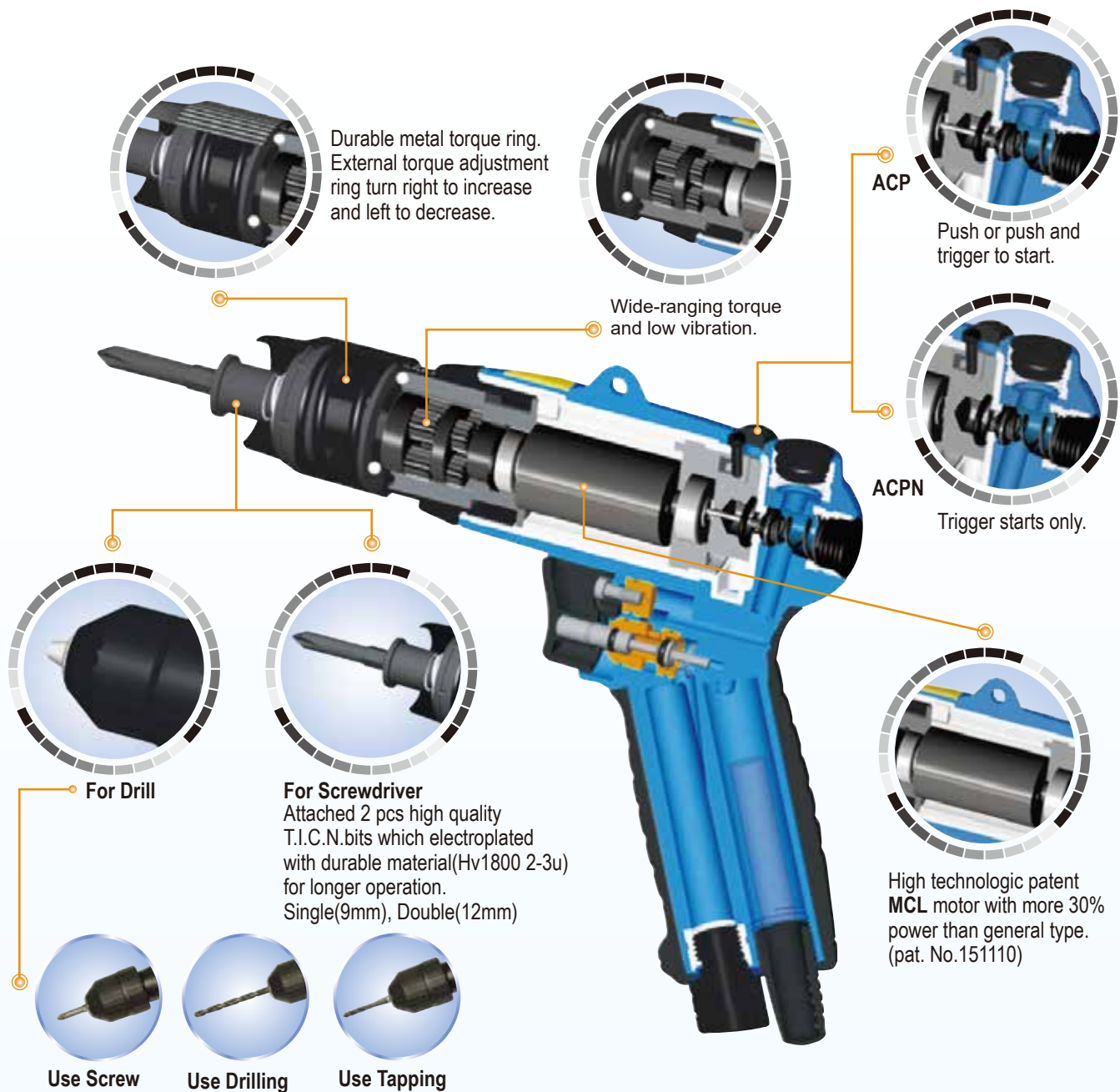
*With "N" : Trigger start only.

*W/O "N" (ADP39) : Two way operations. (One is trigger locked up with pin and works by push-down; the other works by trigger-on & push-down together.)

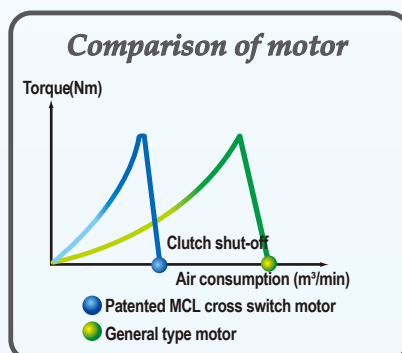
Trigger Start Air Drill **Direct Driven Type** (Without Clutch)



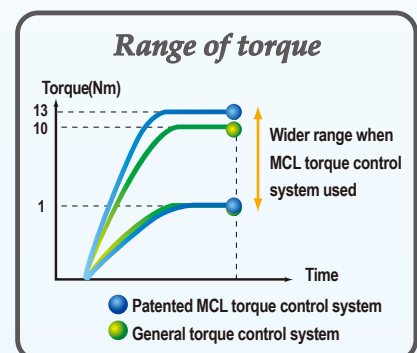
Model No.	Drilling Cap		Bolt Capacity (mm)	Max. Torque Hard Joint		No Load Speed (r.p.m.)	Dimension (Ø x L x H) (mm)	Avg. Air Consumption		Weight (g)	Noise Level (±3dB(A))	Min. Air Hose Bore (I.D.)
	mm	inch		N-m	Ft-lb			cfm	m³/min			
ADDN26	6	1/4	3 ~ 5	3.5	2.6	2900	36 x 140 x 142	10	0.28	630	72	5mm
ADDN39	10	3/8	3 ~ 5	5.0	3.7	1600	36 x 140 x 142	10	0.28	630	72	5mm
ADDN48	10	3/8	3 ~ 6	7.0	5.0	1700	45 x 159 x 150	19	0.55	970	76	8mm
ADDN58	10	3/8	3 ~ 6	13.0	9.6	750	45 x 159 x 150	19	0.55	970	76	8mm
ADDN458	13	1/2	3 ~ 6	13.0	9.6	750	45 x 159 x 150	19	0.55	1060	76	8mm



- SUMAKE Patented MAP clutch control system**
Lower vibration for more accurate torque control.
- Other General type**
Higher vibration.



- SUMAKE Patented MCL cross switch control system**
MCL cross switch motor provide 30% more power and torque than general type.
- Other General type**
lower power, higher air consumption with lower efficiency.



- SUMAKE Patented MCL torque control system**
More wider range of torque when patented motor used.
*When SUMAKE model ACPN58 used.
- Other General type**
Limited torque range.

Trigger start Air Screwdriver Cushion Type

(Torque External Adjustable)



Air Inlet could be 3 way option



ACPN39

ACPN45

<Small Body>

-Light Weight-



ACPN48

ACPN58

ACPN62

<Standard Body>

Model No.	Drive	Bolt Capacity (mm)	Torque Range Hard Joint (N-m)	No Load Speed (r.p.m.)	Dimension (Ø x L x H) (mm)	Avg. Air Consumption		Weight (g)	Noise Level (±3dB(A))	Min. Air Hose Bore (I.D.)
						cfm	m³/min			
ACPN39	⬡ F1/4"	2.5 ~ 5.0	5.0	1600	36 x 140 x 142	10	0.28	600	72	5.0mm
ACPN45	⬡ F1/4"	2.5 ~ 6.0	7.0	750	36 x 140 x 142	10	0.28	600	72	5.0mm
ACPN48	⬡ F1/4"	3.0 ~ 6.0	7.0	1700	43 x 165 x 154	19	0.55	870	76	8.0mm
ACPN58	⬡ F1/4"	3.0 ~ 7.0	13.0	750	43 x 165 x 154	19	0.55	870	76	8.0mm
ACPN62	⬡ F1/4"	3.0 ~ 7.0	9.0	350	43 x 165 x 154	19	0.55	870	76	8.0mm

*With "N" : Trigger start only.

*W/O "N" (ACP39) : Two way operations. (One is trigger locked up with pin and works by push-down; the other works by trigger-on & push-down together.)

Trigger start 3 in 1 Air Drill & Screwdriver Cushion Type

(Torque External Adjustable)



Use Screw



Use Drilling



Use Tapping



Air Inlet could be 3 way option



ACDN39

10mm(3/8")

ACDN45

10mm(3/8")

<Small Body>

-Light Weight-



SH-0005

*Side handle for ACDN458 type



ACDN48

10mm(3/8")

ACDN58

10mm(3/8")

ACDN458

13mm(1/2")

<Standard Body>

Model No.	Drilling Cap		Bolt Capacity (mm)	Torque Range Hard Joint (N-m)	No Load Speed (r.p.m.)	Dimension (Ø x L x H) (mm)	Avg. Air Consumption		Weight (g)	Noise Level (±3dB(A))	Min. Air Hose Bore (I.D.)
	mm	inch					cfm	m³/min			
ACDN39	10	3/8	2.5~5.0	5.0	1600	36 x 165 x 142	10	0.28	750	72	5.0mm
ACDN45	10	3/8	2.5~5.0	7.0	750	36 x 165 x 142	10	0.28	750	72	5.0mm
ACDN48	10	3/8	3.0~6.0	7.0	1700	43 x 214 x 154	19	0.55	1100	76	8.0mm
ACDN58	10	3/8	3.0~7.0	13.0	750	43 x 214 x 154	19	0.55	1100	76	8.0mm
ACDN458	13	1/2	3.0~7.0	13.0	750	45 x 235 x 160	19	0.55	1100	76	8.0mm

Air Screwdriver Cushion Type (Torque External Adjustable)



Model No.	Drive	Bolt Capacity (mm)	Torque Range Hard Joint (N.m)	No Load Speed (r.p.m.)	Dimension (Ø x L) (mm)	Avg. Air Consumption		Weight (g)	Noise Level (±3dB(A))	Min. Air Hose Bore (I.D.)
						cfm	m³/min			
CS39	⬡F1/4"	2.5 ~ 5.0	4.0	1600	35 x 140	10	0.28	600	72	5mm
CS45	⬡F1/4"	2.5 ~ 6.0	4.0	750	35 x 140	10	0.28	600	72	5mm
CS48	⬡F1/4"	3.0 ~ 6.0	6.0	1700	43 x 195	19	0.55	840	77	8mm
CS58	⬡F1/4"	3.0 ~ 7.0	9.0	750	43 x 195	19	0.55	840	77	8mm

3 in 1 Air Drill & Air Screwdriver Cushion Type (Torque External Adjustable)



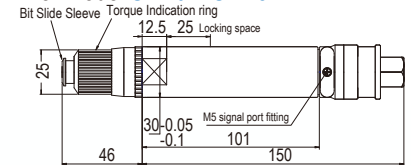
Model No.	Drilling Cap		Torque Range Hard Joint (N.m)	No Load Speed (r.p.m.)	Dimension (Ø x L) (mm)	Avg. Air Consumption		Weight (g)	Noise Level (±3dB(A))	Min. Air Hose Bore (I.D.)
	mm	inch				cfm	m³/min			
CD39	10	3/8	5.0	1600	43 x 258	19	0.55	1022	76	8mm
CD48	10	3/8	7.0	1700	43 x 244	19	0.55	1000	77	8mm
CD58	10	3/8	13.0	750	43 x 244	19	0.55	1000	77	8mm

Air Nutrunner Air Start Shut-off

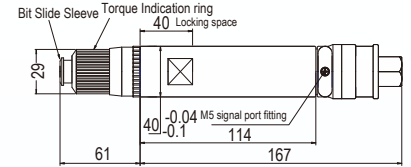
(Immediate and Automatic air shut-off) -Forward type-



*For Model **SM10 ~ SM45**



*For Model **SM48 ~ SM68**



Model No.	Free Speed (r.p.m.)	O.A.L. (mm)	Dia. (mm)	Air Hose Bore		Air Consumption (m³/min)	Torque Range		Vibration Level (ms²)	Standard Deviation (%)	Fastening Capacity	
				6.0 Kg/cm³	5.0 Kg/cm³		N-m	Kgf-cm			Machine Screw T	Tapping Screw 2T
SM10	1000	196	30	5.0	6.35	0.20	0.05-0.2	0.5-2	<1.0	±3	M1.0-M2.2	M1.1-M1.7
SM20	1000	196	30	5.0	6.35	0.20	0.1-0.8	1-8	<1.0	±3	M1.7-M3.3	M1.3-M2.7
SM30	1800	196	30	5.0	6.35	0.28	0.3-1.7	3-17	<1.2	±3	M2.2-M4.2	M1.6-M3.2
SM35	2200	196	30	5.0	6.35	0.28	0.3-2	3-20	<1.2	±3	M2.4-M4.5	M2.0-M3.5
SM40	1000	196	30	5.0	6.35	0.28	0.5-3	5-30	<1.2	±3	M2.8-M5.0	M2.3-M4.0
SM45	800	196	30	6.35	8.0	0.30	0.8-4	8-40	<1.6	±3	M3.0-M5.7	M2.7-M4.4
SM48	1700	228	40	8.0	9.5	0.55	0.5-4.5	5-45	<2.5	±3	M2.8-M5.8	M2.3-M4.7
SM50	1400	228	40	8.0	9.5	0.55	0.7-5	7-50	<2.5	±3	M2.9-M6.0	M2.6-M4.9
SM55	1000	228	40	8.0	9.5	0.55	0.7-6.5	7-65	<2.5	±3	M2.9-M6.4	M2.6-M5.4
SM60	550	228	40	8.0	9.5	0.55	1.5-9.5	15-95	<2.5	±3	M4.1-M7.0	M3.3-M6.0
SM65	300	228	40	8.0	9.5	0.55	3-18	30-180	<2.5	±3	M5.0-M9.3	M4.0-M7.2
SM68	250	228	40	8.0	9.5	0.55	5-28	50-280	<2.5	±3	M6.0-M11.0	M4.9-M8.7

Air Nutrunner Push to Start Shut-off

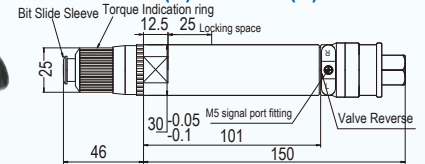
(Immediate and Automatic air shut-off)



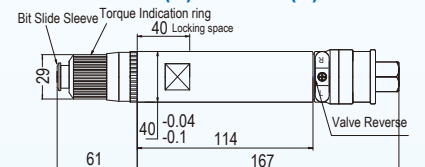
*Forward and Reverse for **SMP type**

*Forward for **SMNP type**

*For Model **SM(N)P10 ~ SM(N)P45**



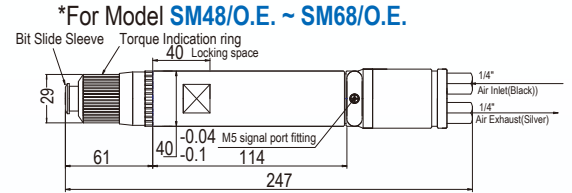
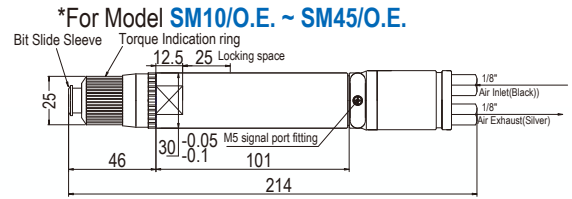
*For Model **SM(N)P48 ~ SM(N)P68**



Model No.	Free Speed (r.p.m.)	O.A.L. (mm)	Dia. (mm)	Air Hose Bore		Air Consumption (m³/min)	Torque Range		Vibration Level (ms²)	Standard Deviation (%)	Fastening Capacity	
				6.0 Kg/cm³	5.0 Kg/cm³		N-m	Kgf-cm			Machine Screw T	Tapping Screw 2T
SM(N)P10	1000	196	30	5.0	6.35	0.20	0.05-0.2	0.5-2	<1.0	±3	M1.0-M2.2	M1.1-M1.7
SM(N)P20	1000	196	30	5.0	6.35	0.20	0.1-0.8	1-8	<1.0	±3	M1.7-M3.3	M1.3-M2.7
SM(N)P30	1800	196	30	5.0	6.35	0.28	0.3-1.7	3-17	<1.2	±3	M2.2-M4.2	M1.6-M3.2
SM(N)P35	2200	196	30	5.0	6.35	0.28	0.3-2	3-20	<1.2	±3	M2.4-M4.5	M2.0-M3.5
SM(N)P40	1000	196	30	5.0	6.35	0.28	0.5-3	5-30	<1.2	±3	M2.8-M5.0	M2.3-M4.0
SM(N)P45	800	196	30	6.35	8.0	0.30	0.8-4	8-40	<1.6	±3	M3.0-M5.7	M2.7-M4.4
SM(N)P48	1700	228	40	8.0	9.5	0.55	0.5-4.5	5-45	<2.5	±3	M2.8-M5.8	M2.3-M4.7
SM(N)P50	1400	228	40	8.0	9.5	0.55	0.7-5	7-50	<2.5	±3	M2.9-M6.0	M2.6-M4.9
SM(N)P55	1000	228	40	8.0	9.5	0.55	0.7-6.5	7-65	<2.5	±3	M2.9-M6.4	M2.6-M5.4
SM(N)P60	550	228	40	8.0	9.5	0.55	1.5-9.5	15-95	<2.5	±3	M4.1-M7.0	M3.3-M6.0
SM(N)P65	300	228	40	8.0	9.5	0.55	3-18	30-180	<2.5	±3	M5.0-M9.3	M4.0-M7.2
SM(N)P68	250	228	40	8.0	9.5	0.55	5-28	50-280	<2.5	±3	M6.0-M11.0	M4.9-M8.7

Air Nutrunner Air Start Shut-off

(Immediate and Automatic air shut-off) -environment protect-Forward type-



Model No.	Free Speed (r.p.m.)	O.A.L. (mm)	Dia. (mm)	Air hose bore		Air Consumption (m³/min)	Torque Range		Vibration Level (ms²)	Standard Deviation (%)	Fastening Capacity	
				6.0 Kg/cm³	5.0 Kg/cm³		N-m	Kgf-cm			Machine Screw T	Tapping Screw 2T
SM10/O.E.	1000	214	30	5.0	6.35	0.20	0.05-0.2	0.5-2	<1.0	±3	M1.0-M2.2	M1.1-M1.7
SM20/O.E.	1000	214	30	5.0	6.35	0.20	0.1-0.8	1-8	<1.0	±3	M1.7-M3.3	M1.3-M2.7
SM30/O.E.	1800	214	30	5.0	6.35	0.28	0.3-1.7	3-17	<1.2	±3	M2.2-M4.2	M1.6-M3.2
SM35/O.E.	2200	214	30	5.0	6.35	0.28	0.3-2	3-20	<1.2	±3	M2.4-M4.5	M2.0-M3.5
SM40/O.E.	1000	214	30	5.0	6.35	0.28	0.5-3	5-30	<1.2	±3	M2.8-M5.0	M2.3-M4.0
SM45/O.E.	800	214	30	6.35	8.0	0.30	0.8-4	8-40	<1.6	±3	M3.0-M5.7	M2.7-M4.4
SM48/O.E.	1700	247	40	8.0	9.5	0.55	0.5-4.5	5-45	<2.5	±3	M2.8-M5.8	M2.3-M4.7
SM50/O.E.	1400	247	40	8.0	9.5	0.55	0.7-5	7-50	<2.5	±3	M2.9-M6.0	M2.6-M4.9
SM55/O.E.	1000	247	40	8.0	9.5	0.55	0.7-6.5	7-65	<2.5	±3	M2.9-M6.4	M2.6-M5.4
SM60/O.E.	550	247	40	8.0	9.5	0.55	1.5-9.5	15-95	<2.5	±3	M4.1-M7.0	M3.3-M6.0
SM65/O.E.	300	247	40	8.0	9.5	0.55	3-18	30-180	<2.5	±3	M5.0-M9.3	M4.0-M7.2
SM68/O.E.	250	247	40	8.0	9.5	0.55	5-28	50-280	<2.5	±3	M6.0-M11.0	M4.9-M8.7

Air Nutrunner Push to Start Shut-off

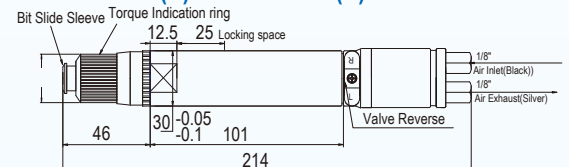
(Immediate and Automatic air shut-off) -environment protect-



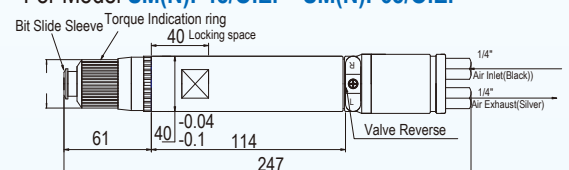
*Forward and Reverse for **SMP/O.E. type**

*Forward for **SMNP/O.E. type**

*For Model **SM(N)P10/O.E. ~ SM(N)P45/O.E.**



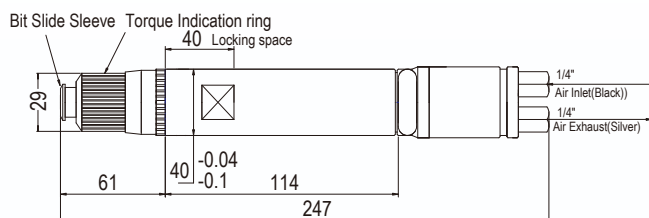
*For Model **SM(N)P48/O.E. ~ SM(N)P68/O.E.**



Model No.	Free Speed (r.p.m.)	O.A.L. (mm)	Dia. (mm)	Air hose bore		Air Consumption (m³/min)	Torque Range		Vibration Level (ms²)	Standard Deviation (%)	Fastening Capacity	
				6.0 Kg/cm³	5.0 Kg/cm³		N-m	Kgf-cm			Machine Screw T	Tapping Screw 2T
SM(N)P10/O.E.	1000	214	30	5.0	6.35	0.20	0.05-0.2	0.5-2	<1.0	±3	M1.0-M2.2	M1.1-M1.7
SM(N)P20/O.E.	1000	214	30	5.0	6.35	0.20	0.1-0.8	1-8	<1.0	±3	M1.7-M3.3	M1.3-M2.7
SM(N)P30/O.E.	1800	214	30	5.0	6.35	0.28	0.2-1.6	2-16	<1.2	±3	M2.2-M4.2	M1.6-M3.2
SM(N)P35/O.E.	2200	214	30	5.0	6.35	0.28	0.3-2	3-20	<1.2	±3	M2.4-M4.5	M2.0-M3.5
SM(N)P40/O.E.	1000	214	30	5.0	6.35	0.28	0.5-3	5-30	<1.2	±3	M2.8-M5.0	M2.3-M4.0
SM(N)P45/O.E.	800	214	30	6.35	8.0	0.30	0.8-4	8-40	<1.6	±3	M3.0-M5.7	M2.7-M4.4
SM(N)P48/O.E.	1700	247	40	8.0	9.5	0.55	0.5-4.5	5-45	<2.5	±3	M2.8-M5.8	M2.3-M4.7
SM(N)P50/O.E.	1400	247	40	8.0	9.5	0.55	0.7-5	7-50	<2.5	±3	M2.9-M6.0	M2.6-M4.9
SM(N)P55/O.E.	1000	247	40	8.0	9.5	0.55	0.7-6.5	7-65	<2.5	±3	M2.9-M6.4	M2.6-M5.4
SM(N)P60/O.E.	550	247	40	8.0	9.5	0.55	1.5-9.5	15-95	<2.5	±3	M4.1-M7.0	M3.3-M6.0
SM(N)P65/O.E.	300	247	40	8.0	9.5	0.55	3-18	30-180	<2.5	±3	M5.0-M9.3	M4.0-M7.2
SM(N)P68/O.E.	250	247	40	8.0	9.5	0.55	5-28	50-280	<2.5	±3	M6.0-M11.0	M4.9-M8.7

Air Nutrunner Air Start Shut-off

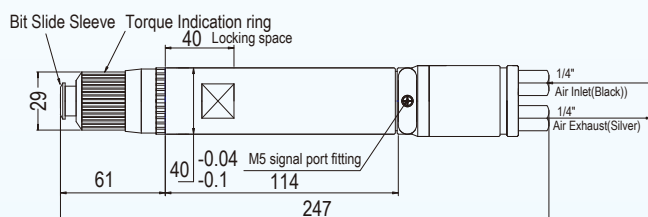
(Immediate and Automatic air shut-off) -Forward and Reversible type-
3 Air ways (2 for air in forward, reverse & 1 for air out)



Model No.	Free Speed (r.p.m.)	O.A.L. (mm)	Dia. (mm)	Air Hose Bore		Air Consumption (m³/min)	Torque Range		Vibration Level (ms²)	Standard Deviation (%)	Fastening Capacity	
				6.0 Kg/cm³	5.0 Kg/cm³		N-m	Kgf-cm			Machine Screw	Tapping Screw
SMR48/O.E.	180	247	40	8.0	9.5	0.55	0.5-4.5	5-45	<2.5	±3	M2.8-M5.8	M2.3-M4.7
SMR50/O.E.	1400	247	40	8.0	9.5	0.55	0.7-5	7-50	<2.5	±3	M2.9-M6.0	M2.6-M4.9
SMR55/O.E.	1000	247	40	8.0	9.5	0.55	0.7-6.5	7-65	<2.5	±3	M2.9-M6.4	M2.6-M5.4
SMR60/O.E.	550	247	40	8.0	9.5	0.55	1.5-9.5	15-95	<2.5	±3	M4.1-M7.0	M3.3-M6.0
SMR65/O.E.	300	247	40	8.0	9.5	0.55	3-18	30-180	<2.5	±3	M5.0-M9.3	M4.0-M7.2
SMR68/O.E.	250	247	40	8.0	9.5	0.55	5-28	50-280	<2.5	±3	M6.0-M11.0	M4.9-M8.7

Air Nutrunner Push to Start Shut-off

(Immediate and Automatic air shut-off) -Forward and Reversible type-
3 Air ways (2 for air in forward, reverse & 1 for air out)



Model No.	Free Speed (r.p.m.)	O.A.L. (mm)	Dia. (mm)	Air Hose Bore		Air Consumption (m³/min)	Torque Range		Vibration Level (ms²)	Standard Deviation (%)	Fastening Capacity	
				6.0 Kg/cm³	5.0 Kg/cm³		N-m	Kgf-cm			Machine Screw	Tapping Screw
SMR48/O.E.	1800	247	40	8.0	9.5	0.55	0.5-4.5	5-45	<2.5	±3	M2.8-M5.8	M2.3-M4.7
SMR50/O.E.	1400	247	40	8.0	9.5	0.55	0.7-5	7-50	<2.5	±3	M2.9-M6.0	M2.6-M4.9
SMR55/O.E.	1000	247	40	8.0	9.5	0.55	0.7-6.5	7-65	<2.5	±3	M2.9-M6.4	M2.6-M5.4
SMR60/O.E.	550	247	40	8.0	9.5	0.55	1.5-9.5	15-95	<2.5	±3	M4.1-M7.0	M3.3-M6.0
SMR65/O.E.	300	247	40	8.0	9.5	0.55	3-18	30-180	<2.5	±3	M5.0-M9.3	M4.0-M7.2
SMR68/O.E.	250	247	40	8.0	9.5	0.55	5-28	50-280	<2.5	±3	M6.0-M11.0	M4.9-M8.7

Features:

- 1 Gas ramps in hobs, boiler pipes, coffee machine pipes. Compressor assembly, refrigerator pipes or automobile breaking system pipes and so on.
- 2 Extremely easy and useful to tighten things up in limited spaces.
- 3 Variety gear socket size to fit in different assembly situations.
- 4 Ergonomics design for easy gripping with less fatigue.
- 5 Operate easily / smoothly and automatic release of socket back to preset open position by one-hand, two-step throttle lever.
- 6 Fastening operations in limited spaces where angle tools and nutrunners cannot reach.



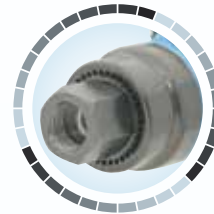
Put socket into nut.



Press the lever for tightening up.



Push lever in the middle position, confirm socket in open position.



7 Low Noise
Muffer build-in reduces noise effectively.



8 Adjust Wrench Gear Set angle.



11 One button for easily releasing
Special Two-Throttle design, easy operation by one hand, back to start position accurately.

10 External torque adjustment
Turn right to increase and left to decrease.



Off



Check Socket in open position

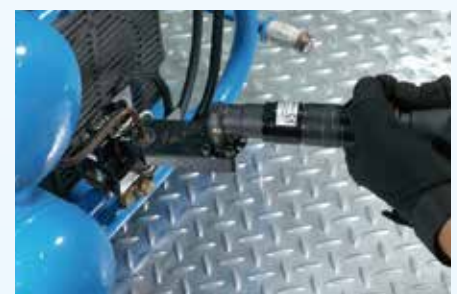


Rotate forward for tightening

9 Operations in confined spaces
The reduced thickness of the head, is also good for operators to work in any circumstance.

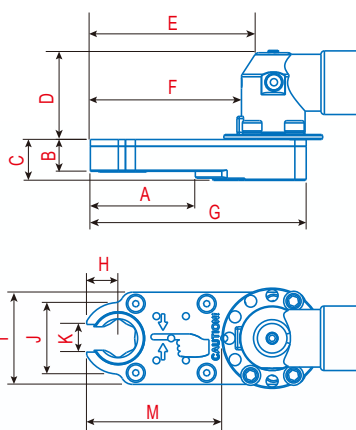


Scan for Product Video!



Air Open-end Wrench

Auto Shut-off



Order Code Reference:

Unit:mm

Model No.	A	B	C	D	E	F	G	H	I	J	M
POWR(S)(B)15	46.2	14	18	39.2	73	66.5	95	13.6	40	31	58.8
POWR(S)(B)19	57.2	14	18	39.2	97.4	90.9	119.4	20.6	48	46.6	83.2
POWR(S)(B)24	71	14	18	39.2	120.9	114.4	142.9	26.6	59	59	106.6
POWR(S)(B)28	92.1	14	18	39.2	163.5	157	185.5	39.3	86	86	149.3

Model No.	POWB15	POWB19	POWB24	K (mm)	L (mm)
Hex Size	Blind Type				
10mm	POWB15-10			7	6.5
11mm	POWB15-11			8.1	6.5
12mm	POWB15-12			8.5	6.5
13mm	POWB15-13			9	9
14mm	POWB15-14			10.2	9
15mm	POWB15-15			10.5	9
16mm	POWB15-16			10.9	9
17mm	POWB15-17	POWB19-17		11.3	9
18mm		POWB19-18		12	9
19mm		POWB19-19		13.1	9
20mm		POWB19-20		13.5	9
21mm		POWB19-21		15	9
22mm		POWB19-22		15.2	9
23mm		POWB19-23		15.5	9
24mm		POWB19-24	POWB24-24	16.1	9
26mm			POWB24-26	17.1	9
27mm			POWB24-27	18.1	9
29mm			POWB24-29	19.2	9
30mm			POWB24-30	20.1	9
32mm			POWB24-32	21.2	9

Model No.	POWR15	POWR19	POWR24	POWR28	K (mm)
Hex Size	Standard				
7mm	POWR15-07				5
8mm	POWR15-08				5.6
9mm	POWR15-09				6.5
10mm	POWR15-10				7
11mm	POWR15-11				8.1
12mm	POWR15-12				8.5
13mm	POWR15-13				9
14mm	POWR15-14				10.2
15mm	POWR15-15				10.5
16mm	POWR15-16				10.9
17mm	POWR15-17	POWR19-17			11.3
18mm		POWR19-18			12
19mm		POWR19-19			13.1
20mm		POWR19-20			13.5
21mm		POWR19-21			15
22mm		POWR19-22			15.2
23mm		POWR19-23			15.5
24mm		POWR19-24	POWR24-24		16.1
26mm			POWR24-26		17.1
27mm			POWR24-27		18.1
29mm			POWR24-29		19.2
30mm			POWR24-30		20.1
32mm			POWR24-32		21.2
36mm				POWR28-36	25
38mm				POWR28-38	26
41mm				POWR28-41	28
46mm				POWR28-46	31
50mm				POWR28-50	34.5
55mm				POWR28-55	37.5
11/16"		POWR19-11/16			11.5

Model No.	POWS15	POWS19	POWS24	POWS28	K (mm)
Hex Size	Insert Type				
7mm	POWS15-07				7.1
8mm	POWS15-08				8.1
9mm	POWS15-09				9.1
10mm	POWS15-10				10.1
11mm	POWS15-11				11.1
12mm		POWS19-12			12.1
13mm		POWS19-13			13.1
14mm		POWS19-14			14.1
15mm		POWS19-15			15.1
16mm		POWS19-16			16.1
17mm			POWS24-17		17.1
18mm			POWS24-18		18.1
19mm			POWS24-19		19.1
20mm			POWS24-20		20.1
21mm			POWS24-21		21.1
22mm			POWS24-22		22.1
36mm				POWS28-36	36.1

Specification:

★ Recommend Air Pressure 6.2 bar (90psi)

Model No.	Torque Range (Nm)	Free Speed (r.p.m.)	Hex Size of Gear Socket (mm)	Overall Length		Net Weight		Air Consumption		Air Inlet (PT)	Sound Level dB(A)
				mm	in	kgs	lbs	l/min	cfm		
POWB15	6~15	230	10, 11, 12, 13, 14, 15, 16, 17	413	16.25	1.67	3.68	198	7	1/4	87
POWR15	6~15	230	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17	413	16.25	1.67	3.68	198	7	1/4	87
POWS15	6~15	230	7, 8, 9, 10, 11	413	16.25	1.67	3.68	198	7	1/4	87
POWB19	9~19	150	17, 18, 19, 20, 21, 22, 23, 24	438	17.24	1.84	4.05	198	7	1/4	87
POWR19	9~19	150	17, 18, 19, 20, 21, 22, 23, 24, 11/16"	438	17.24	1.84	4.05	198	7	1/4	87
POWS19	9~19	150	12, 13, 14, 15, 16	438	17.24	1.84	4.05	198	7	1/4	87
POWB24	10~24	115	24, 26, 27, 29, 30, 32	461	18.14	2.09	4.60	198	7	1/4	87
POWR24	10~24	115	24, 26, 27, 29, 30, 32	461	18.14	2.09	4.60	198	7	1/4	87
POWS24	10~24	115	17, 18, 19, 20, 21, 22	461	18.14	2.09	4.60	198	7	1/4	87
POWR28	14~28	100	36, 39, 41, 46, 50, 55	504	19.84	2.25	5.55	198	7	1/4	87
POWS28	14~28	100	36	504	19.84	2.25	5.55	198	7	1/4	87

*Custom-made is available.

High Torque Oil Free Air Angle Wrench

Auto Shut-off

Features

- 1 High Accuracy: CMK Value $>1.33 \pm 10\%$ (According to ISO5393).
- 2 Extended tool body for comfortable operation and less reaction force.
- 3 Overall torque within Repeatability $\pm 3\%$.

- 6 Wider torque range selection
Torque adjustment range 6-70 Nm.

NEW

- 5 Patented Clutch For Ergonomics
Reducing the extreme reaction force to the wrist.

- 4 Patented Right Angle Head
Innovational & robust right angle head for better performance.

- 10 Patented Motor
Output power is 30% more than other brands.

- 9 Reversible, delivers full torque in reverse

- 8 Times-Saving
Easy torque-adjusting operation.

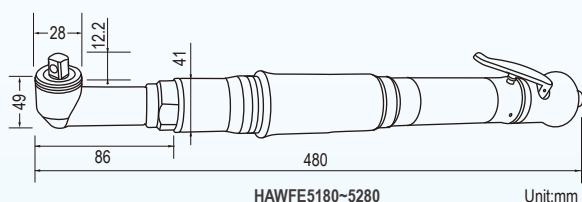
- 7 Accuracy
Repeatability for adjustable torque $\pm 3\%$.

HAWFE5180
HAWFE5250
HAWFE5280

3/8" Oil Free Air Angle Wrench

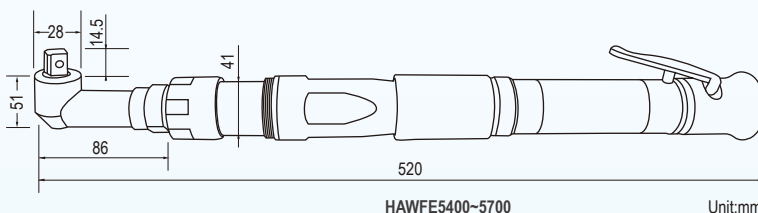
HAWFE5400
HAWFE5600
HAWFE5700

1/2" Oil Free Air Angle Wrench



HAWFE5180~5280

Unit:mm



HAWFE5400~5700

Unit:mm

Specification:

Model No.	Square Drive (inch)	Free Speed (r.p.m.)	Torque Range $\pm 3\%$		Overall Length		Noise Level ($\pm 3\text{dB(A)}$)	Air Pressure (kg-cm^2)	Min. air hose ID (mm)	Air Consumption (cfm)	Net Weight	
			N-m	kgf-cm	in	mm					lbs	kgs
HAWFE5180	3/8	700	6-18	60-180	18.9	480	78	6	8	19	4.41	2.0
HAWFE5250	3/8	430	10-25	100-250	18.9	480	78	6	8	19	4.41	2.0
HAWFE5280	3/8	350	12-28	120-280	18.9	480	78	6	8	19	4.41	2.0
HAWFE5400	1/2	250	10-40	100-400	20.5	520	82	6	10	23	5.36	2.43
HAWFE5600	1/2	180	35-60	350-600	20.5	520	82	6	10	23	5.36	2.43
HAWFE5700	1/2	130	35-70	350-700	20.5	520	82	6	10	23	5.36	2.43



Composite Oil Free Air Reversible Die Grinder

Features:

- High quality Oil-free motor.
- Bi-way chuck with excellent concentricity and low vibration.
- All new patented mechanical design and comfort grip material.
- Patented horizontal forward switch and lock button design (For CG25S series).

- Friendly operation.
- Low vibration and longer usage term.
- Low noise.

Excellent Concentricity & Low vibration

The concentricity of chuck is within 0.05mm which extend grindstone usage term and makes the grinding surface lighter and smoother. Furthermore, SUMAKE excellent concentricity makes vibration much lower than other brand.

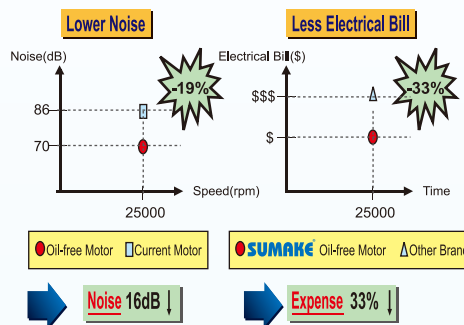
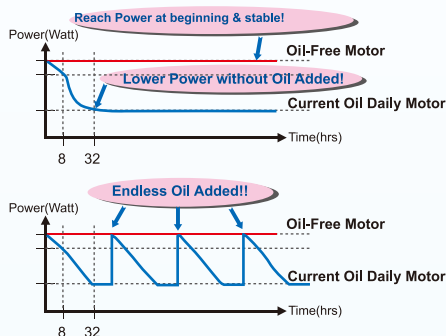
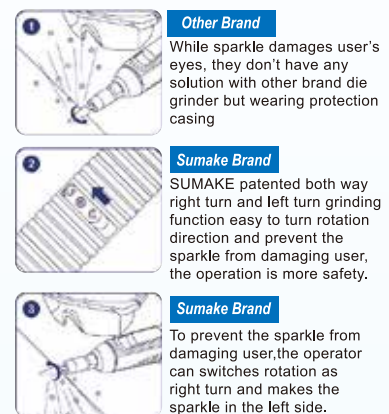
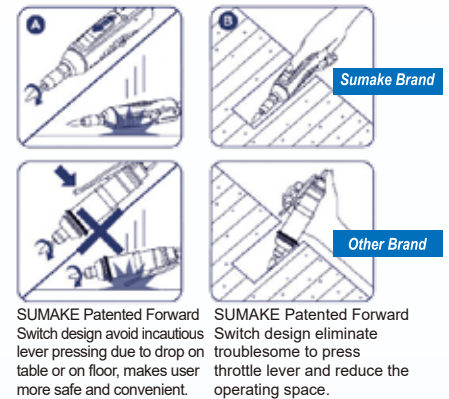
Bi-way chuck

Bi-way chuck design makes the grasp function more forceful.

CG25 1/4"
CG25-1 1/8"

CG25M 6mm
CG25M-3 3mm
CG25M-8 8mm

Pistol Composite Air Die Grinder



CG25S 1/4"
CG25S-1 1/8"

CG25SM 6mm
CG25SM-3 3mm
CG25SM-8 8mm

Straight Composite Air Die Grinder
w/Lock Button



CG25SN 1/4"
CG25SN-1 1/8"

CG25SNM 6mm
CG25SNM-3 3mm
CG25SNM-8 8mm

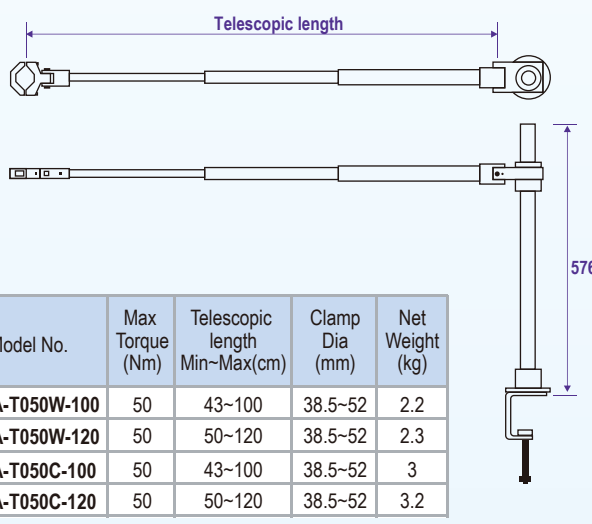
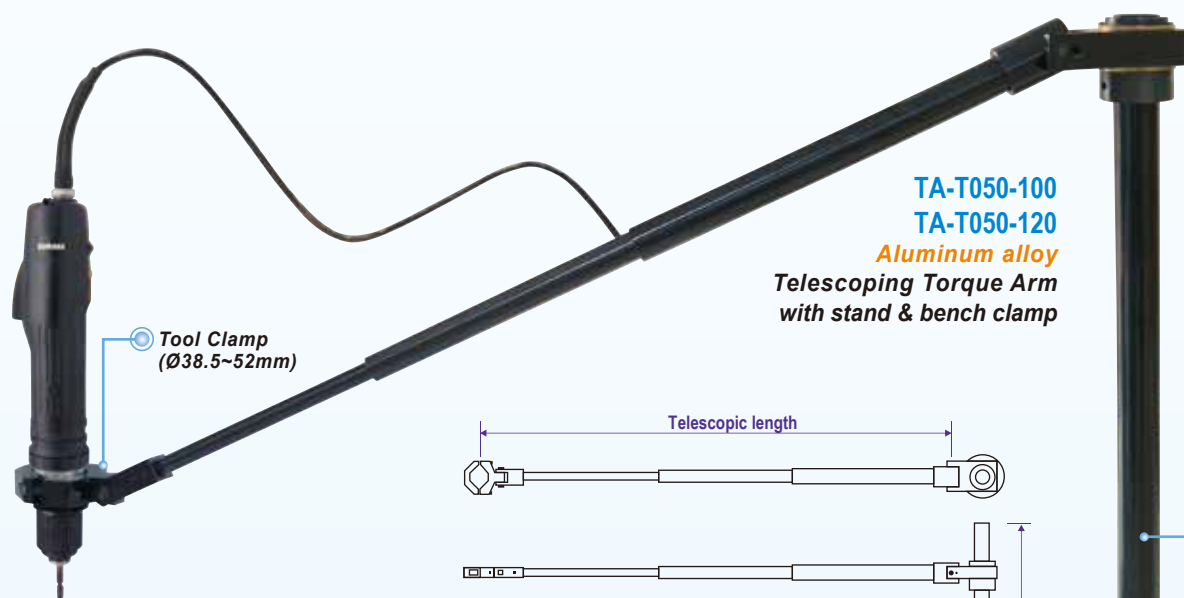
Straight Composite Air Die Grinder

Model No.	Collect	Free Speed (r.p.m.)	O.A.L. (mm)	Dia (mm)	Weight		Air Consumption		Air Pressure		Min. Air Hose Bore		Noise Level dB(A)
					lbs	kg	cfm	m³/min	psi	kg/cm²	inch	mm	
CG25	1/4"	25,000	180	39	1.52	0.69	10	0.28	90	6	1/5	5.0	70
CG25-1	1/8"	25,000	180	39	1.52	0.69	10	0.28	90	6	1/5	5.0	70
CG25M	6mm	25,000	180	39	1.52	0.69	10	0.28	90	6	1/5	5.0	70
CG25M-3	3mm	25,000	180	39	1.52	0.69	10	0.28	90	6	1/5	5.0	70
CG25M-8	8mm	25,000	180	39	1.52	0.69	10	0.28	90	6	1/5	5.0	70
CG25S(N)	1/4"	25,000	170	36	1.21	0.55	10	0.28	90	6	1/5	5.0	70
CG25S(N)-1	1/8"	25,000	170	36	1.21	0.55	10	0.28	90	6	1/5	5.0	70
CG25S(N)M	6mm	25,000	170	36	1.21	0.55	10	0.28	90	6	1/5	5.0	70
CG25S(N)M-3	3mm	25,000	170	36	1.21	0.55	10	0.28	90	6	1/5	5.0	70
CG25S(N)M-8	8mm	25,000	170	36	1.21	0.55	10	0.28	90	6	1/5	5.0	70

Telescopic Torque Arm & Auxiliary Arm

Features

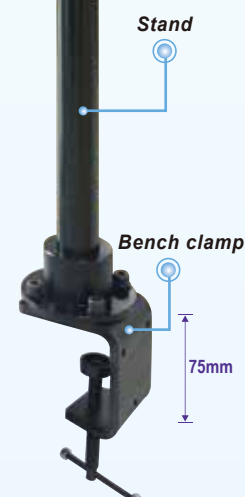
- Eliminates torque reaction and removes weight of assembly tool from operator's arm and back.
- Easy to install on the workbench, wall, trolley or production line.
- Can be used with both air or electric torque tools.
- Best if used with a spring balancer (page 21).
- The arm collapses like a telescope providing smooth tool placement.
- Attachment clamp is free to move 360 degrees (see below pictures below).
- Standard tool balancer should be used to hang the tool while using this arm.
- Max torque capacity 50 Nm.
- Max reach is 120 cm; minimum reach is 43 cm.



Specifications :

Model No.	Max Torque (Nm)	Telescopic length Min~Max(cm)	Clamp Dia (mm)	Net Weight (kg)
TA-T050-100	50	43~100	38.5~52	4.65
TA-T050-120	50	50~120	38.5~52	4.75
TA-T050S-100	50	43~100	38.5~52	3.5
TA-T050S-120	50	50~120	38.5~52	3.7

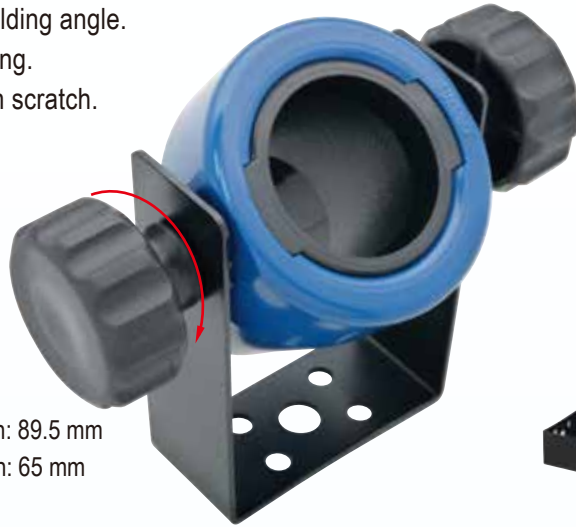
Model No.	Max Torque (Nm)	Telescopic length Min~Max(cm)	Clamp Dia (mm)	Net Weight (kg)
TA-T050W-100	50	43~100	38.5~52	2.2
TA-T050W-120	50	50~120	38.5~52	2.3
TA-T050C-100	50	43~100	38.5~52	3
TA-T050C-120	50	50~120	38.5~52	3.2



Tools Holster

Features:

- Suit for Various Air Tools (Straight/ Pistol Type), big and small size.
- Easy to keep the tool in the ready using position.
- Easy to adjust the holding angle.
- Keep the tools cleaning.
- Protect the tools from scratch.
- Net weight: 255g

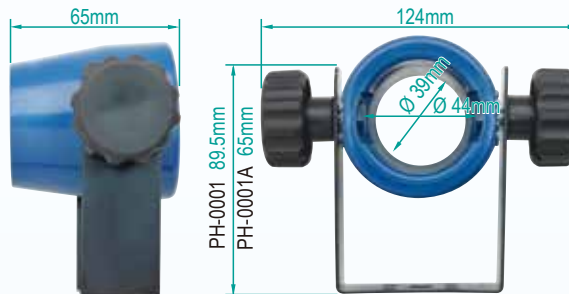
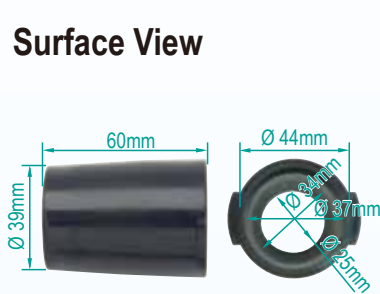


PH-0001 Side Length: 89.5 mm
PH-0001A Side Length: 65 mm
Tools Holster

Sample View



Surface View



Original Body for Big Size Body Purpose



Sleeve Inside for Small Size Body Purpose

Spring Balancer



SB-1.2 (0.5-1.2kgs)
SB-2.0 (1.0-2.0kgs)
SB-3.0 (2.0-3.0kgs)
SB-4.0 (3.0-4.5kgs)
Spring Balancer



SA-2201 (0.3-0.8kgs)
SA-2203 (0.6-1.5kgs)
SA-2203-1 (1.0-2.0kgs)
SA-2204 (1.5-3.0kgs)
SA-2207 (3.0-5.0kgs)
Spring Balancer



SA-2204A (0.8-2.0kgs)
SA-2204B (0.3-1.2kgs)
Spring Balancer

Model No.	Capacity (kg)	Cable Travel (M)	Packing: Pcs/Ctn/G.W./Cuft' (kgs)
SB-1.2	0.5~1.2	1.6	20Pcs/Ctn/12.8/0.95'
SB-2.0	1.0~2.0	1.6	20Pcs/Ctn/12.8/0.95'
SB-3.0	2.0~3.0	1.6	20Pcs/Ctn/13.0/0.95'
SB-4.0	3.0~4.5	1.6	12Pcs/Ctn/10.3/1.1'

Model No.	Capacity (kg)	Cable Travel (M)	Packing: Pcs/Ctn/G.W./Cuft' (kgs)
SA-2201	0.3~0.8	1.4	40Pcs/Ctn/19.8/1.70'
SA-2203	0.6~1.5	1.4	40Pcs/Ctn/21.0/1.70'
SA-2203-1	1.0~2.0	1.4	40Pcs/Ctn/21.0/1.70'
SA-2204	1.5~3.0	1.4	40Pcs/Ctn/24.1/1.90'
SA-2204A	0.8~2.0	1.4	30Pcs/Ctn/19.5/1.60'
SA-2204B	0.3~1.2	1.4	30Pcs/Ctn/18.0/1.60'
SA-2207	3.0~5.0	1.3	30Pcs/Ctn/24/1.70'



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