

Electric Screwdriver

ISO 9001



Certificate TWS40230112A

SUMAKE®





Swiss aviation grade motor, low inertia and low impact electric screwdrivers

Low Voltage DC Motor Driving (W/ Controller)

Warranty
2 Years

The high precision driving motor employed in the high performance and low inertia screwdriver is imported from Switzerland.

It is fabricated with world unique winding technique, equipped with moving coil rotor characterized in swift response, compact structure, high stability, extremely long life span. Low electromagnetic interference, noise and inertia.

The carbon brush can sustain more than 20,000 hours under favorably condition. It is the best tool for tightening the small size screws and fastener in the high-tech 3C assembly lines with high quality requirement.

Aviation and aeronautic
actuators
locking systems



EA-S2000M (Mini type)
EA-S2500M (Mini type)



EA-2000M/ESD
EA-2000M-S/ESD (High speed type)
EA-3000M/ESD
EA-3000M-S/ESD (High speed type)
EA-4000M/ESD
EA-4000M-S/ESD (High speed type)

Electrostatic discharge

EA-2000M
EA-2000M-S (High speed type)
EA-3000M
EA-3000M-S (High speed type)
EA-4000M
EA-4000M-S (High speed type)



- Lever start type.
- Torque Accuracy: $\pm 3\%$.
- Torque Setting: Stepless.



Introduction to Swiss DC Motor:

Measuring and
control technology
precision scales
measuring devices

Semi-conductor industry /
EDP / telecommunications
SMT fitting machines
Feeders

Optics and
precision mechanics
Lens adjustment
Levelling equipment
Beamers



Motor View



Specification:

Model No.	Torque Range		No Load Speed (r.p.m.)	Available Screw				Weight		Lengt		Grip Diameter		Power Source
				Machine Screw (ϕ)		Tapping Screw (ϕ)								
	kgf-cm	l bf-in		mm	in	mm	in	g	lb	mm	in	mm	in	
EA-S2000M	0.3~2.0	0.26~1.7	1000	1.0~2.2	0.04~0.09	1.0~2.0	0.04~0.08	187	0.4	158	6.2	26	1.0	30VDC
EA-S2500M	0.4~3.0	0.35~2.6	850	1.0~2.6	0.04~0.10	1.0~2.0	0.04~0.08	187	0.4	158	6.2	26	1.0	30VDC
EA-2000M(/ESD)	0.2~2.0	0.17~1.7	650	1.0~2.2	0.04~0.09	1.0~2.0	0.04~0.08	380	0.8	208	8.2	33.5	1.3	30VDC
EA-2000M-S(/ESD)	0.2~2.0	0.17~1.7	1000	1.0~2.2	0.04~0.09	1.0~2.0	0.04~0.08	380	0.8	208	8.2	33.5	1.3	30VDC
EA-3000M(/ESD)	0.5~5.0	0.43~4.3	550	1.0~2.6	0.04~0.10	1.0~2.3	0.04~0.09	380	0.8	208	8.2	33.5	1.3	30VDC
EA-3000M-S(/ESD)	0.5~5.0	0.43~4.3	1000	1.0~2.6	0.04~0.10	1.0~2.3	0.04~0.09	380	0.8	208	8.2	33.5	1.3	30VDC
EA-4000M(/ESD)	1.0~6.0	0.87~5.2	550	1.4~2.6	0.06~0.10	1.4~2.3	0.06~0.09	380	0.8	208	8.2	33.5	1.3	30VDC
EA-4000M-S(/ESD)	1.0~6.0	0.87~5.2	1000	1.4~2.6	0.06~0.10	1.4~2.3	0.06~0.09	380	0.8	208	8.2	33.5	1.3	30VDC

*Bits Standard Size: 6.35mm(1/4") hex shank. (Option: ϕ 4mm Round)



Full-auto shut off electric screwdrivers

Low Voltage DC Motor Driving (W/ Controller)

Feature:

● For Standard Housing - EA-2000(S), EA-3000(S), EA-4000(S) & EA-4500(S) -

- *Design in creation, play, beauty, human conception to fit with world trend and be pleased to use.
- *Design in ergonomics handle to reduce work fatigue and fit with feminine labor.
- *Design in block assembly to easy maintains on line by user.
- *Design in conformity EMC standards.

● For ESD(Electrostatic discharge) Housing -

- *Uniquely composed Housing-Handle and triggers material are constructed of uniquely composed plastic throughout, enabling any charge received by the handle to be routed to ground.
- *Long-Lasting ESD resistant handle-material will maintain it's integrity for the life of the handle, unlike coatings or paints.
- *Grounded bit-The bit holder assembly is grounded to route any existing charge to ground.

- Lever start type.
- Torque Accuracy: $\pm 3\%$.
- Torque Setting: Stepless.

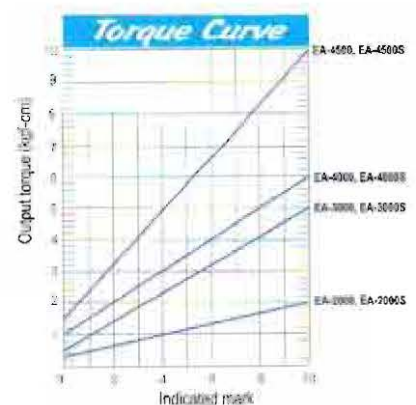
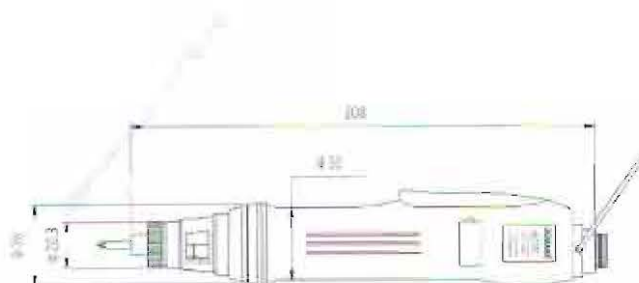


EA-2000
EA-2000S (High speed type)
EA-3000
EA-3000S (High speed type)
EA-4000
EA-4000S (High speed type)
EA-4500
EA-4500S (High speed type)



Electrostatic discharge

EA-2000/ESD
EA-2000S/ESD
EA-3000/ESD
EA-3000S/ESD
EA-4000/ESD
EA-4000S/ESD
EA-4500/ESD
EA-4500S/ESD



Specification:

Model No.	Torque Range		No Load Speed (r.p.m.)	Available Screw				Weight		Length		Grip Diameter		Power Source
				Machine Screw (φ)		Tapping Screw (φ)								
	kgf-cm	lbf-in		mm	in	mm	in	g	lb	mm	in	mm	in	
EA-2000(ESD)	0.3~2.0	0.26~1.74	720	1.0~2.2	0.04~0.09	1.0~2.0	0.04~0.08	380	0.83	208	8.20	32	1.26	35VDC
EA-2000S(ESD)	0.3~2.0	0.26~1.74	1000	1.0~2.2	0.04~0.09	1.0~2.0	0.04~0.08	380	0.83	208	8.20	32	1.26	35VDC
EA-3000(ESD)	0.5~5.0	0.43~4.30	720	1.0~2.6	0.04~0.10	1.0~2.3	0.04~0.09	380	0.83	208	8.20	32	1.26	35VDC
EA-3000S(ESD)	0.5~5.0	0.43~4.30	1000	1.0~2.6	0.04~0.10	1.0~2.3	0.04~0.09	380	0.83	208	8.20	32	1.26	35VDC
EA-4000(ESD)	1.0~6.0	0.87~5.20	720	1.4~2.6	0.06~0.10	1.4~2.3	0.06~0.09	380	0.83	208	8.20	32	1.26	35VDC
EA-4000S(ESD)	1.0~6.0	0.87~5.20	1000	1.4~2.6	0.06~0.10	1.4~2.3	0.06~0.09	380	0.83	208	8.20	32	1.26	35VDC
EA-4500(ESD)	1.5~10.0	1.30~8.70	720	2.0~3.0	0.08~0.12	2.0~2.6	0.08~0.10	380	0.83	208	8.20	32	1.26	35VDC
EA-4500S(ESD)	1.5~10.0	1.30~8.70	1000	2.0~3.0	0.08~0.12	2.0~2.6	0.08~0.10	380	0.83	208	8.20	32	1.26	35VDC

*Bits Standard Size: for EA-2000(S)/(ESD), EA-3000(S)/(ESD), EA-4000(S)/(ESD) & EA-4500(S)/(ESD) - 6.35mm(1/4") hex shank. (Option: ϕ 4mm Round).



Full-auto shut off electric screwdrivers

Low Voltage DC Motor Driving (W/ Controller)

Feature:

● For Standard Housing - EA-6000(PS), EA-6500(PS) & EA-6800(PS) -

- *Excellent torque control-Ensure accuracy in fastening with precision designed automatic shut-off clutch.
- *Ergonomics and anti-slip egg-shaped design ensures operator comfort.
- *High accuracy and wide large torque range.
- *Low noise high efficiency.

● For ESD(Electrostatic discharge) Housing -

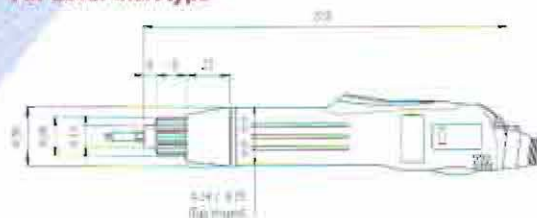
- *Uniquely composed Housing-Handle and triggers material are constructed of uniquely composed plastic throughout, enabling any charge received by the handle to be routed to ground.
- *Long-Lasting ESD resistant handle-material will maintain it's integrity for the life of the handle, unlike coatings or paints.
- *Grounded bit-The bit holder assembly is grounded to route any existing charge to ground.

- Torque Accuracy: $\pm 3\%$.
- Torque Setting: Stepless.

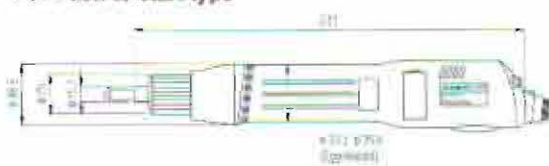
EA-6000
EA-6500
EA-6800
(Lever start type)

EA-6000PS
EA-6500PS
EA-6800PS
(Push to start type)

For Lever start type

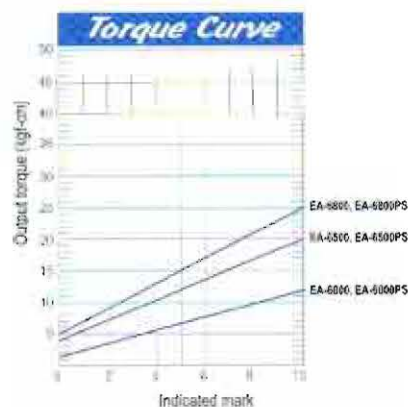


For Push to start type



Electrostatic discharge
EA-6000/ESD
EA-6500/ESD
EA-6800/ESD
(Lever start type)

Electrostatic discharge
EA-6000PS/ESD
EA-6500PS/ESD
EA-6800PS/ESD
(Push to start type)



Specification:

Model No.	Torque Range		No Load Speed (r.p.m.)	Available Screw				Weight		Length		Grip Diameter		Power Source
				Machine Screw (φ)		Tapping Screw (φ)								
	kgf-cm	lbf-in		mm	in	mm	in	g	lb	mm	in	mm	in	
EA-6000(/ESD)	1.5~12.0	1.3~10.4	1150	2.0~3.0	0.08~0.12	2.0~2.6	0.08~0.10	490	1.11	228	9.0	34	1.34	30VDC
EA-6000PS(/ESD)	1.5~12.0	1.3~10.4	1150	2.0~3.0	0.08~0.12	2.0~2.6	0.08~0.10	535	1.18	237	9.3	33	1.3	30VDC
EA-6500(/ESD)	4.0~20.0	3.5~17.4	1000	2.6~4.0	0.10~0.16	2.3~3.5	0.09~0.14	490	1.11	228	9.0	34	1.34	30VDC
EA-6500PS(/ESD)	4.0~20.0	3.5~17.4	1000	2.6~4.0	0.10~0.16	2.3~3.5	0.09~0.14	535	1.18	237	9.3	33	1.3	30VDC
EA-6800(/ESD)	5.0~25.0	4.3~21.7	700	3.0~5.0	0.12~0.20	2.6~4.0	0.10~0.16	490	1.11	228	9.0	34	1.34	30VDC
EA-6800PS(/ESD)	5.0~25.0	4.3~21.7	700	3.0~5.0	0.12~0.20	2.6~4.0	0.10~0.16	535	1.18	237	9.3	33	1.3	30VDC

*Bits Standard Size: 6.35mm(1/4") hex shank (Option: φ 5mm Round or 5mm hex shank).



Full-auto shut off electric screwdrivers

Low Voltage DC Motor Driving (W/ Controller)

Feature:

● For Standard Housing - EA-7000(PS), EA-7500(PS), EA-8000(PS), EA-8500(PS) & EA-9000(PS) -

- *Design in block assembly to easy maintains on line by user.
- *Low DC voltage motor enable safe and smooth operation.
- *High accuracy and wide large torque range.
- *Design in conformity EMC standards.
- *Easy carbon brush replacement.

● For ESD(Electrostatic discharge) Housing -

- *Uniquely composed Housing-Handle and triggers material are constructed of uniquely composed plastic throughout, enabling any charge received by the handle to be routed to ground.
- *Long-Lasting ESD resistant handle-material will maintain it's integrity for the life of the handle, unlike coatings or paints.
- *Grounded bit-The bit holder assembly is grounded to route any existing charge to ground.



EA-7000
EA-7500
EA-8000
EA-8500
EA-9000

(Lever start type)

EA-7000PS
EA-7500PS
EA-8000PS
EA-8500PS
EA-9000PS

(Push to start type)



Electrostatic discharge

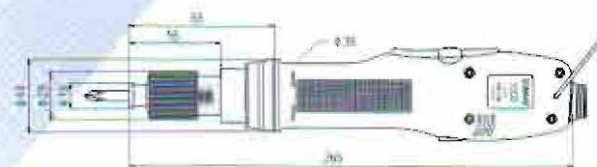
EA-7000/ESD
EA-7500/ESD
EA-8000/ESD
EA-8500/ESD
EA-9000/ESD

(Lever start type)

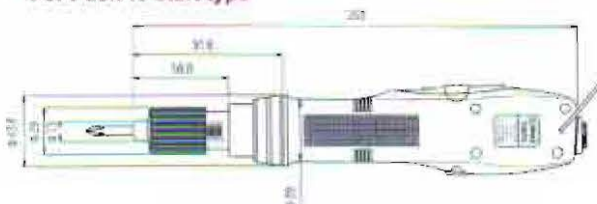
EA-7000PS/ESD
EA-7500PS/ESD
EA-8000PS/ESD
EA-8500PS/ESD
EA-9000PS/ESD

(Push to start type)

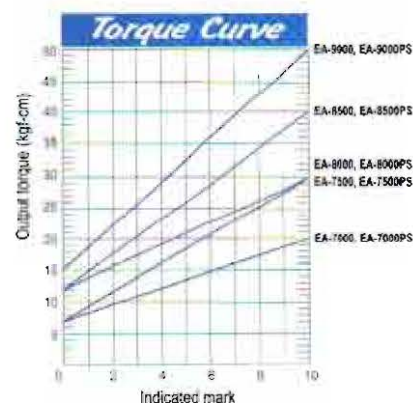
For Lever start type



For Push to start type



- Torque Accuracy: $\pm 3\%$.
- Torque Setting: Stepless.



Specification:

Model No.	Torque Range		No Load Speed (r.p.m.)	Available Screw				Weight		Length		Grip Diameter		Power Source
				Machine Screw (φ)		Tapping Screw (φ)								
	kgf-cm	lbf-in		mm	in	mm	in	g	lb	mm	in	mm	in	
EA-7000(ESD)	7.0~20.0	6.10~17.4	1000	3.0~4.0	0.12~0.16	2.6~3.5	0.10~0.14	670	1.47	265	10.3	39	1.54	30VDC
EA-7000PS(ESD)	7.0~20.0	6.10~17.4	1000	3.0~4.0	0.12~0.16	2.6~3.5	0.10~0.14	740	1.60	269	10.6	39	1.54	30VDC
EA-7500(ESD)	7.0~30.0	6.10~26.0	1000	3.0~5.0	0.12~0.20	2.6~4.0	0.10~0.16	670	1.47	265	10.3	39	1.54	30VDC
EA-7500PS(ESD)	7.0~30.0	6.10~26.0	1000	3.0~5.0	0.12~0.20	2.6~4.0	0.10~0.16	740	1.60	269	10.6	39	1.54	30VDC
EA-8000(ESD)	12.0~30.0	10.4~26.0	1000	3.5~5.0	0.14~0.20	3.0~4.0	0.12~0.16	670	1.47	265	10.3	39	1.54	30VDC
EA-8000PS(ESD)	12.0~30.0	10.4~26.0	1000	3.5~5.0	0.14~0.20	3.0~4.0	0.12~0.16	740	1.60	269	10.6	39	1.54	30VDC
EA-8500(ESD)	12.0~40.0	10.4~34.7	1000	3.5~5.5	0.14~0.22	3.0~4.5	0.12~0.18	670	1.47	265	10.3	39	1.54	30VDC
EA-8500PS(ESD)	12.0~40.0	10.4~34.7	1000	3.5~5.5	0.14~0.22	3.0~4.5	0.12~0.18	740	1.60	269	10.6	39	1.54	30VDC
EA-9000(ESD)	15.0~50.0	13.0~43.5	650	3.5~6.0	0.14~0.24	3.0~5.0	0.12~0.20	670	1.47	265	10.3	39	1.54	30VDC
EA-9000PS(ESD)	15.0~50.0	13.0~43.5	650	3.5~6.0	0.14~0.24	3.0~5.0	0.12~0.20	740	1.60	269	10.6	39	1.54	30VDC

*Bits Standard Size: 6.35mm (1/4") hex shank. (Option: ϕ 5mm Round or 5mm Hex Shank)



Full-auto disk-brake shut off electric screwdrivers

High Voltage DC Motor Driving (Without Controller)

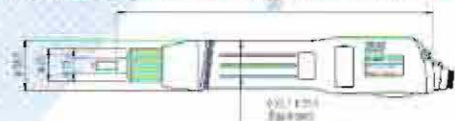
Feature:

- For ED-3001PS, ED-3002PS, ED-4001PS, ED-4002PS, ED-5501PS & ED-5502PS -
 - *Internationally patented disk brake design to prevent the sparks caused by the motor abruptly stop with reverse voltage that it will damage electric components and led to high repair costs.
 - *Ergonomics and anti-slip egg-shaped design ensures operator comfort.
 - *Light warns when carbon brush needs replacement.
 - *Direct plug-in type.
 - *ESD(Electrostatic discharge) Housing is available for ordering.
- For ED-5001PS, ED-5002PS, ED-6001PS, ED-6002PS, ED-7001PS & ED-7002PS -
 - *Internationally patented disk brake design to prevent the sparks caused by the motor abruptly stop with reverse voltage that it will damage electronic components and led to high repair costs.
 - *High accuracy and wide large torque range.
 - *Direct plug-in type.

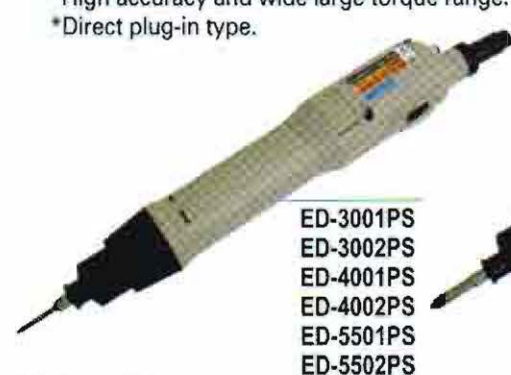
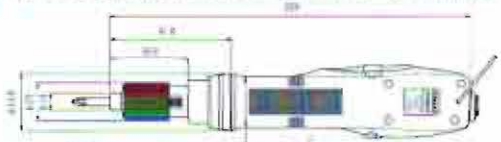
- Push to start type.
- Torque Accuracy: $\pm 3\%$.
- Torque Setting: Stepless.



For ED-3001PS, 3002PS, 4001PS, 4002PS, 5501PS, 5502PS



For ED-5001PS, 5002PS, 6001PS, 6002PS, 7001PS, 7002PS



ED-3001PS
ED-3002PS
ED-4001PS
ED-4002PS
ED-5501PS
ED-5502PS



ED-5001PS
ED-5002PS
ED-6001PS
ED-6002PS
ED-7001PS
ED-7002PS

Specification:

Model No.	Torque Range		No Load Speed (r.p.m.)	Available Screw				Weight		Length		Grip Diameter		Power Source
				Machine Screw (φ)		Tapping Screw (φ)								
	kgf-cm	lbf-in		mm	in	mm	in	g	lb	mm	in	mm	in	
ED-3001PS(ESD)	1.5~12.0	1.3~10.4	1000	2.0~3.0	0.08~0.12	2.0~2.6	0.08~0.10	535	1.18	237	9.3	33	1.3	115VAC
ED-3002PS(ESD)	1.5~12.0	1.3~10.4	1000	2.0~3.0	0.08~0.12	2.0~2.6	0.08~0.10	535	1.18	237	9.3	33	1.3	230VAC
ED-4001PS(ESD)	4.0~18.0	3.5~15.6	1000	2.6~4.0	0.10~0.16	2.3~3.5	0.09~0.14	535	1.18	237	9.3	33	1.3	115VAC
ED-4002PS(ESD)	4.0~18.0	3.5~15.6	1000	2.6~4.0	0.10~0.16	2.3~3.5	0.09~0.14	535	1.18	237	9.3	33	1.3	230VAC
ED-5501PS(ESD)	8.0~25.0	6.9~21.7	850	3.0~4.5	0.12~0.18	2.6~4.0	0.10~0.16	535	1.18	237	9.3	33	1.3	115VAC
ED-5502PS(ESD)	8.0~25.0	6.9~21.7	850	3.0~4.5	0.12~0.18	2.6~4.0	0.10~0.16	535	1.18	237	9.3	33	1.3	230VAC
ED-5001PS	8.0~25.0	6.9~21.7	1000	3.0~4.5	0.12~0.18	3.0~4.0	0.12~0.16	740	1.6	269	10.6	39	1.54	115VAC
ED-5002PS	8.0~25.0	6.9~21.7	1000	3.0~4.5	0.12~0.18	3.0~4.0	0.12~0.16	740	1.6	269	10.6	39	1.54	230VAC
ED-6001PS	10.0~30.0	8.7~26.0	750	3.0~5.0	0.12~0.20	2.6~4.0	0.10~0.16	740	1.6	269	10.6	39	1.54	115VAC
ED-6002PS	10.0~30.0	8.7~26.0	750	3.0~5.0	0.12~0.20	2.6~4.0	0.10~0.16	740	1.6	269	10.6	39	1.54	230VAC
ED-7001PS	20.0~50.0	17.3~43.5	750	4.0~6.0	0.16~0.24	3.5~5.0	0.14~0.20	740	1.6	269	10.6	39	1.54	115VAC
ED-7002PS	20.0~50.0	17.3~43.5	750	4.0~6.0	0.16~0.24	3.5~5.0	0.14~0.20	740	1.6	269	10.6	39	1.54	230VAC

*Bits Standard Size: 6.35mm (1/4") hex shank. (Option: ϕ 5mm Round or 5mm hex shank).



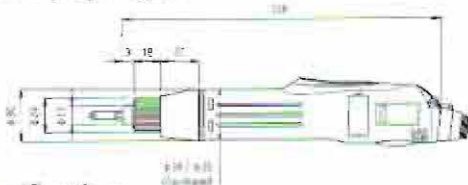
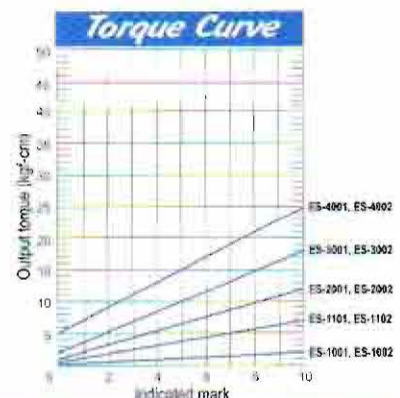
Semi-auto shut off electric screwdrivers

High Voltage DC Motor Driving (Without Controller)

Feature:

- *Ergonomics and anti-slip egg-shaped design ensures operator comfort.
- *Light warns when carbon brush needs replacement.
- *Low cost and large torque range.
- *Direct plug-in type.

- Lever start type.
- Torque Accuracy: $\pm 3\%$.
- Torque Setting: Stepless.



Specification:

Model No.	Torque Range		No Load Speed (r.p.m.)	Available Screw				Weight		Length		Grip Diameter		Power Source
				Machine Screw (φ)		Tapping Screw (φ)								
	kgf-cm.	lbf-in		mm	in	mm	in	g	lb	mm	in	mm	in	
ES-1001	0.2~2.0	0.17~1.7	1000	1.0~2.0	0.04~0.08	1.0~1.7	0.04~0.07	400	0.88	228	9.0	34	1.34	115VAC
ES-1002	0.2~2.0	0.17~1.7	1000	1.0~2.0	0.04~0.08	1.0~1.7	0.04~0.07	400	0.88	228	9.0	34	1.34	230VAC
ES-1101	0.5~7.0	0.43~6.1	1000	1.0~2.6	0.04~0.10	1.0~2.3	0.04~0.09	480	1.01	228	9.0	34	1.34	115VAC
ES-1102	0.5~7.0	0.43~6.1	1000	1.0~2.6	0.04~0.10	1.0~2.3	0.04~0.09	480	1.01	228	9.0	34	1.34	230VAC
ES-2001	1.0~12.0	0.9~10.4	1250	1.4~3.0	0.06~0.12	1.4~2.6	0.06~0.10	480	1.01	228	9.0	34	1.34	115VAC
ES-2002	1.0~12.0	0.9~10.4	1250	1.4~3.0	0.06~0.12	1.4~2.6	0.06~0.10	480	1.01	228	9.0	34	1.34	230VAC
ES-3001	2.0~18.0	1.7~15.6	1250	2.0~4.0	0.08~0.16	2.0~3.0	0.08~0.12	480	1.01	228	9.0	34	1.34	115VAC
ES-3002	2.0~18.0	1.7~15.6	1250	2.0~4.0	0.08~0.16	2.0~3.0	0.08~0.12	480	1.01	228	9.0	34	1.34	230VAC
ES-4001	5.0~25.0	4.3~21.7	1000	2.6~5.0	0.10~0.20	2.3~4.0	0.09~0.16	480	1.01	228	9.0	34	1.34	115VAC
ES-4002	5.0~25.0	4.3~21.7	1000	2.6~5.0	0.10~0.20	2.3~4.0	0.09~0.16	480	1.01	228	9.0	34	1.34	230VAC

*Bits Standard Size: for ES-2001, 2002, 3001, 3002, 4001 & 4002 - 6.35mm (1/4") hex shank. (Option ϕ 5mm Round or 5mm hex shank).

*Bits Standard Size: for ES-1001, 1002, 1101 & 1102 - ϕ 4mm Round Shank only.



Torque Arm system

Reduce operator fatigue and increase productivity with the SUMAKE Torque Arm ergonomics tool support system.

Feature:

- *Anodized aluminum finish.
- *No metal-to-metal joints to create particle count.
- *Resistance can be set to suit individual operator preference.
- *Reduce operator fatigue.
- *Provide consistency and accuracy for repetitive assembly tasks.
- *Heavy duty construction.
- *For use with pneumatic and electric tools.

Function:

- *Allows universal tool motion from side to side and front to back.
- *2-piece hinged forearm allows more freedom of movement in the assembly process.
- *Telescoping reach from end of forearm allows easy adjustment in 1-inch increments up to 6 inches.



TA-S015

TA-S030

Standard system
(screwdriver & TA-1207 are not included)



TA-P015

TA-P030

Parallel system
(screwdriver & TA-1207 are not included)

Specification:

Air cylinder series					
Model No.	Description	Reach	Capacity	Maximum Torque	Packing: (Set/Ctn/N.W./G.W./Cuft')
TA-S015	Standard	4 ~ 33 in.	0 ~ 15 lbs	110 lbs-in	1Set/Ctn/4kgs/5kgs/0.9'
TA-P015	Parallel	4 ~ 33 in.	0 ~ 15 lbs	110 lbs-in	1Set/Ctn/4kgs/5kgs/0.9'
Oil cylinder series					
TA-S030	Standard	4 ~ 33 in.	0 ~ 3.0 lbs	110 lbs-in	1Set/Ctn/4kgs/5kgs/0.9'
TA-P030	Parallel	4 ~ 33 in.	0 ~ 3.0 lbs	110 lbs-in	1Set/Ctn/4kgs/5kgs/0.9'

Accessories: (Optional)

End-of-Arm tooling options for the SUMAKE torque arm allow you to choose the style your application requires. The tool holders allow the tool to swivel, rotate, swing or twist. Its heavy duty construction allows you to lock out any single or combination of rotating actions allowing only the motions required by your application, in addition, End-of-Arm Tooling brackets allow easy conversion, so one SUMAKE torque arm can be used for more than one application.



TA-1201

Right angle tool mount for pistol grip.
Right angle use.



TA-1202

Wrist bracket "V" for electric tool mount.
(For Standard type)



TA-1203

Air manifold tool mount
(For Parallel type)



TA-1204

Wrist bracket "V" for electric tool mount.
(For Parallel type)



TA-1206

Wall clamp.



TA-1207

Bench clamp.



Power Supply

Available Controller:

	ModelNo.	Operating vol. (AC)	Output vol. (DC)	Dimension (mm)	Weight		Drivable Screwdriver	Approval by	For Screwdriver Model
					g	lb.			
 5 Pin	APM-30	90V ~ 260V	30V (Constant)	80 x 55 x 48	180	0.4	1	CE	EA-S2000M, EA-S2500M EA-2000M, EA-2000M-S, EA-3000M, EA-3000M-S, EA-4000M, EA-4000M-S
 Soft Start 5 Pin	A3A	155V (60Hz)	20V ~ 30V (Adjustable)	144 x 100 x 58	1810	4.0	1	none	EA-S2000M, EA-S2500M EA-2000M, EA-2000M-S, EA-3000M, EA-3000M-S, EA-4000M, EA-4000M-S
	A3E	230V (50Hz)							
 5 Pin	AP3A	155V	24V ~ 30V	200x 120x 94	2998	6.6	1	none	EA-S2000M, EA-S2500M EA-2000M, EA-2500M, EA-S2000MA, EA-2000MA, EA-2500MA, EA-S2500MA, EA-3000MA, EA-4000MA
	AP3E	230V							
 Soft Start 5 Pin	APS-30WA	110V ~ 120V	20V ~ 30V (Adjustable)	155 x 85 x 54	400	0.9	1	none	EA-2000M, EA-2000M-S, EA-3000M, EA-3000M-S, EA-4000M, EA-4000M-S
	APS-30WE	220V ~ 240V							
 5 Pin	APS-35A	110V ~ 120V	35V (Constant)	132 x 69 x 42	470	1.0	1	UL, cUL, CE	EA-2000, EA-2000S, EA-3000, EA-3000S, EA-4000, EA-4000S, EA-4500, EA-4500S,
	APS-35E	220V ~ 240V							
 Soft Start 5 Pin	APS-35WA	110V ~ 120V	27V ~ 35V (Adjustable)	132 x 69 x 42	470	1.0	1	none	
	APS-35WE	220V ~ 240V							
 Hi/Lo Rotation 5 Pin x 2	APT-35DA	115V	35V / 25V	220 x 118 x 96	3400	7.5	2	UL, cUL, CE	
	APT-35DE	230V							
 Hi/Lo Rotation 5 Pin	A2A	110V	35V / 25V	135 x 90 x 70	1130	2.49	1	none	
	A2E	220V ~ 240V							
 5 Pin	APS-30A	100V ~ 120V	30V (Constant)	154 x 84 x 52	620	1.36	1	UL, cUL, CE	EA-7000, EA-7000PS, EA-8000, EA-8000PS
	APS-30E	220V ~ 240V							
 6 Pin	APS-30UA	100V ~ 120V	30V (Constant)	154 x 84 x 52	620	1.36	1	none	EA-6000, EA-6000PS, EA-6500, EA-6500PS, EA-6800, EA-6800PS, EA-7500, EA-7500PS
	APS-30UE	220V ~ 240V							
 6 Pin	APT-65A	115V	30V / 20V	220 x 118 x 96	3400	7.5	1	none	EA-8000, EA-6000PS, EA-6500, EA-6500PS, EA-6800, EA-6800PS
	APT-65E	230V							
 6 Pin	A6A	155V (60Hz)	20V ~ 30V (Adjustable)	135 x 90 x 70	1130	2.49	1	none	EA-6000, EA-6000PS, EA-6500, EA-6500PS
	A6E	230V (50Hz)							
 5 Pin	APT-70A	115V	30V	220 x 118 x 96	3700	8.1	1	UL, cUL, CE	EA-7000, EA-7000PS, EA-8000, EA-8000PS
	APT-70E	230V							
 6 Pin	APT-70SA	115V	30V	220 x 118 x 96	3700	8.1	1	none	EA-7500, EA-7500PS, EA-8500, EA-8500PS, EA-9000, EA-9000PS
	APT-70SE	230V							



Accessories

Torque Cover:

Outline	Model No.	For Screwdriver Model
	4H1089 (Alum.)	EA-2000, 2000S, 3000, 3000S, 4000, 4000S, 4500, 4500S, 2000M, 2000M-S, 4000M, 4000M-S
	4H2053 (Alum.)	EA-6000, 6500, 6800
	6H1047 (Plast.)	EA-6000PS, 6500PS, 6800PS, ED-3001PS, 3002PS, 4001PS, 4002PS, 5501PS, 5502PS
	6H1049 (Plast. w/ESD)	EA-6000PS/ESD, 6500PS/ESD, 6800PS/ESD
	4H2052 (Alum.)	EA-7000, 7000PS, 7500, 7500PS, 8000, 8000PS
	4H2055 (Alum.)	ED-5001PS, 5002PS, 6001PS, 6002PS, 7001PS, 7002PS, EA-8500, 8500PS, 9000, 9000PS
	4A9311	EA-7000, 7500, 8000, 8500, 9000

Angle Head:

Outline	Model No.	For Screwdriver Model
	4A9112A	EA-2000, 2000S, 3000, 3000S, 4000, 4000S, 4500, 4500S, 2000M, 2000M-S, 3000M, 3000M-S, 4000M, 4000M-S
	4A9113A	EA-7000, 7500, 8000, 8500, 9000
	4A9123A	EA-6000, 6500, 6800

Spring Balancer:

Outline	Model No.	Load		Extend (L.)
		kgs	lbs	
	SB-1.2	0.5~1.2	1.1~2.6	1.6m
	SB-2.0	1.0~2.0	2.2~4.4	1.6m
	SB-3.0	2.0~3.0	4.4~6.6	1.6m

Screw setter:

Outline	Model No.	For Screw Size(mm)
	SD-D002	1.2, 1.4, 1.6, 2.0, 2.4

MAG-O-NETS

Feature:

*The COLOUR MAG-O-NETS give you an easily visible torque making system at a glance for all screwdrivers.

Choice the each torque level used on your assembly line.

*Increase productivity by easily locating fasteners.

*Fits virtually any standard screwdriver bit.

Outline:						Specification:			
	Red	Yellow	Green	Blue	Orange	Parts No.	I.D.	O.D.	Thick
						AM1/4	7mm	17.5mm	10mm
						AM5	6mm	15.0mm	10mm
						AM3/16	3/16"	15.0mm	10mm

Screw vs. torque reference list:

Hex shank screw type				Reference torque (kgf-cm)			
Hex socket head screw	Hex socket headless Set Screw	Hex screw	Screw shank diameter	Plastic/aluminum/copper	Common	High tension	High friction
(0.5)	(0.9)	4	M2	0.8	1.5	2.7	3.6
(2)	(1.27)	4.5	M2.5	1.6	3.2	5.8	7.7
2.5	1.5	5.5	M3	3	6	10.8	15
-	-	6	(M3.5)	5	10	18	24
3	2	7	M4	8	16	28	30
-	-	8	(M4.5)	11	21	38	38
4	2.5	8	M5	15	30	54	72
5	3	10	M6	25	50	90	120