

Brushed Screwdriver

SS Series

(DC Type)

For assembly of precision parts!

A reaction force absorbing screwdriver

- Designed to minimize the effects of vibrations or impacts on the assembly parts.
- The optimal tool for assembly of hard disks, liquid crystal displays, high-density boards or other precision parts.
- SS-2000 has superb durability thanks to a coreless motor.
- SS Series is noiseless as a standard specification.

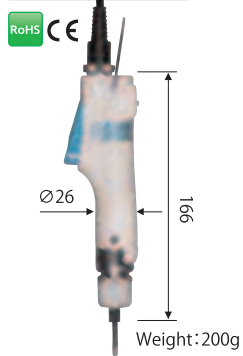
Lever Start Type

Lever Start Type

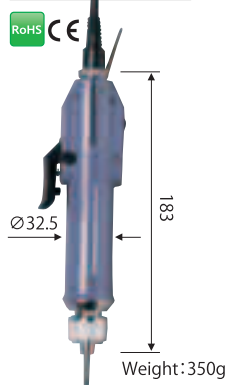
Push-to-Start Type

Push-to-Start Type

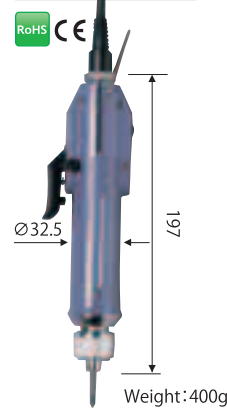
SS-2000



SS-3000



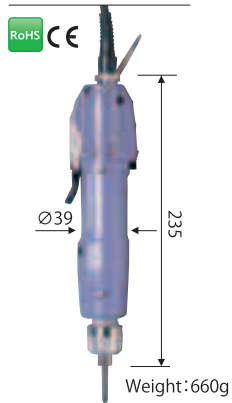
SS-4000



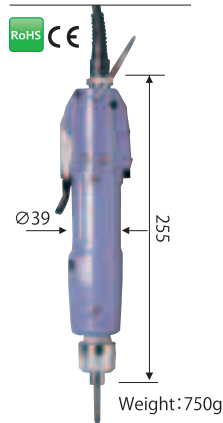
SS-4000PS



SS-6500

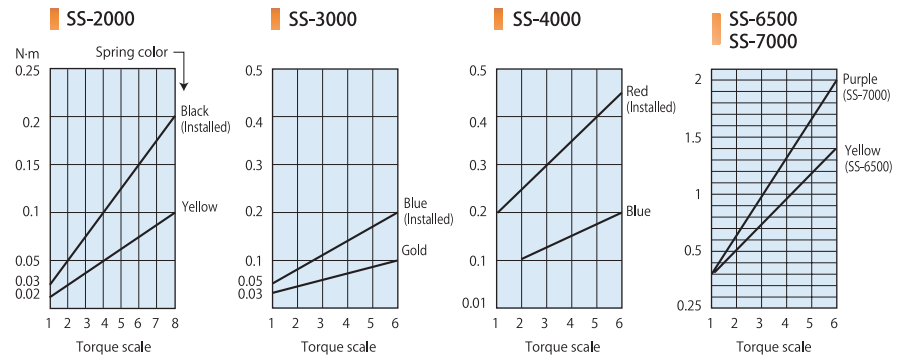


SS-7000



Output torque guide (HI input)

(Including PS type)



SS Series Specifications

Specifications

Lever Start-Type Model		SS-2000	SS-3000	SS-4000	SS-6500	SS-7000
Push-to-Start-Type Model				SS-4000PS		
Output Torque Rang	N·m	0.02 - 0.2	0.02 - 0.2	0.1 - 0.45	0.25 - 1.3	0.3 - 2
	lbf·in	0.17 - 1.7	0.3 - 1.7	0.9 - 3.9	2.2 - 11	2.6 - 17
	(kgf·cm)	(0.2 - 2)	(0.3 - 2)	(1 - 4.5)	(2.5 - 13)	(3 - 20)
Torque Switching		Stepless adjustment	Stepless adjustment	Stepless adjustment	Stepless adjustment	Stepless adjustment
Unloaded Rotation	HI	680	1,000	1,000	900	750
	LOW	490	670	690	600	500
Screw Size(mm)	Machine Screw	1.0 - 2.3	1.0 - 2.0	1.4 - 2.6	2.0 - 3.0	2.0 - 4.0
	Tapping Screw	1.0 - 2.0	1.0 - 1.7	1.4 - 2.3	2.0 - 3.0	2.0 - 4.0
Bit	HIOS Shank	H4	H4	H4	H5	H5
Drive	HEX Shank	—	—	1/4HEX or 5HEX	1/4HEX or 5HEX	1/4HEX or 5HEX
Power Supply	CLT-30	○	○	—	—	—
	CLT-60	○	○	○	○	○
	CLT-100	○	○	○	○	—
	MC-70L	○	○	○	○	○
Accessories	Bit (one each)	H4	+ #0 (∅2.0×40 mm) + #0 (∅2.5×40 mm)	+ #0 (∅2.5×40 mm) + #1 (∅4.0×40 mm)		
		H5			+ #1 (∅5.0×60 mm) + #2 (∅5.0×60 mm)	+ #1 (∅5.0×60 mm) + #2 (∅5.0×60 mm)
		1/4HEX		+ #1 (5.0×50 mm) + #2 (5.0×50 mm) — (5.0×50 mm)	+ #1 (5.0×50 mm) + #2 (5.0×50 mm) — (5.0×50 mm)	+ #1 (5.0×50 mm) + #2 (5.0×50 mm) — (5.0×50 mm)
Spring		Yellow	Gold	Blue		
Cord length (m)		1.5 m (5P)	1.5m (5P)	1.5m (5P)	2m (5P)	2m (5P)
Carbon brush (order code)			1pair (A45-0420)	1pair (CL4-0420)	1pair (CL65-0490)	1pair (CL65-0490)

Note:
The carbon brush of SS-2000 is an enclosed type and cannot be replaced by a user. Although the life of the carbon brush depends on use conditions, as a guide, if you tighten about 6,000 screws a day, you have to replace the carbon brush 3 to 4 years after you started using it. When a replacement is required, please contact us for the service.

The unloaded rotation speed (r.p.m.) in the specifications is measured when the screwdriver is operated with the HIOS standard power supply. Therefore, if you use another power supply or when input voltage varies, the value displayed will also vary. Please refer to the value in the specifications only as a guide.

Suction (Vacuum)

By making use of negative pressure, the effort needed to pick up screws can be reduced. This suction device can even pick up non-ferrous screws such as stainless steel screws by vacuuming, and improves operation efficiency. It can also be used to remove powder dust generated from screw tightening.

SSQ

Order guide

(A) and (B) needed to be purchased separately if you have a suction-type screwdriver.
 (A), (B) and (C) needed to be purchased separately if you want to convert your screwdriver to a suction type.

* There are several options of sizes of (A) and (B) depending on the screw size. For more information on the size, please refer to P. 58.

Model	(A) Mouthpiece model	(B) Bit length	(C) Suction attachment model
SSQ-2000	F3-Standard 18mm	H4 60mm	CLQ2-SET/CLQ2-SET-ESD*
SSQ-3000	F3-Standard 18mm	H4 60mm	CLQ4-SET/CLQ4-SET-ESD*
SSQ-4000	F3-Standard 18mm	H4 60mm	CLQ4-SET/CLQ4-SET-ESD*
SSQ-6500	F6-Standard 31mm	H5 80mm	CLQ65-SET/CLQ65-SET-ESD*
SSQ-7000	F6-Standard 31mm	H5 80mm	CLQ65-SET/CLQ65-SET-ESD*

*ESD is anti-electrostatic

Note: The suction attachment cannot be used with 1/4HEX.

(Including PS Type)



Anti-electrostatic

SS-ESD



The screwdriver body uses an anti-electrostatic material prevent the generation of static electricity, which is suitable for the assembly of precision equipment and electronic parts.

[Surface resistance: max. 10⁴Ω]

Models:
 SS-2000ESD SS-6500ESD
 SS-3000ESD SS-7000ESD
 SS-4000ESD (Including PS Type)



Clean Room + Anti-electrostatic

SSQ-CR-ESD



In addition to anti-electrostatic measures, two vacuum units are installed in the body and the suction portion in order to suck up dust generated from screw tightening.

[Class 100 equivalent]
 [Surface resistance: max. 10⁴Ω]

Models:
 SSQ-2000CR-ESD
 SSQ-3000CR-ESD
 SSQ-4000CR-ESD
 SSQ-6500CR-ESD
 SSQ-7000CR-ESD
 (Including PS Type)

Related Products

Related Products

Accessories

Accessories

Power supply with HIOS screw counter CLT-70STC3

Power supply with HIOS screw counter helps to prevent skipping screw tightening.



Compatible screwdrivers:
 SS-2000 SS-3000 SS-4000
 SS-6500 SS-7000 (Including PS Type)

Separate counter CLOP-SC1

External counter helps to prevent skipping screw tightening.



▶ See P. 41-43 for details.

Pistol Attachment PA-65

This attachment converts a standard screwdriver to a pistol-style screwdriver, most suitable for horizontal tightening.



Compatible screwdrivers:
 SS-6500, SS-7000 (Including PS Type)

Push-to-Start Grip Attachment

PS-1 PS-1-ESD

This attachment converts the screwdriver from lever start to push-to-start.



Compatible screwdrivers:
 SS-4000 (Image of fitting)