

Brushless® Screwdriver



Thanks to ultra-powerful brushless motor, durability and stability have improved.

- There is no carbon powder emission and maintains a clean environment.
- Significant durability improvement considerably reduces maintenance cost.
- Reduces the temperature rise of the motor by about 30% and mitigates problems related to heating.
- Two types of start systems (push and lever) are available with one screwdriver (not applicable to BL-2000).
- High-speed rotation shortens the tightening time and improves work efficiency.

Two-way Start System

BL-2000 (Lever Start)

Weight: 254g

Impact absorbing: BL-2000SS

anti-static electricity

● Consumable parts are used for the switch.

BL-5000 Two-way(Push/Lever)

Weight: 360g

Impact absorbing: BL-5000SS

Hi-speed rotation: BL-5000-15, BL-5000-20

Hi-torque: BL-5020

BL Series Specifications

Model Name		BL-2000 BL-2000SS	BL-3000 BL-3000SS *	BL-5000 BL-5000SS	BL-5000-15 ★BL-5000-20 *	BL-5020	BL-7000	BL-7000-20 BL-7000HT *
Output torque range	N·m	0.02 - 0.2	0.2 - 0.55 0.2-0.35*	0.2 - 1.2	0.2 - 1.2 0.2 - 1.0*	0.5 - 2.0	0.7 - 2.8	0.5 - 1.5 0.7 - 3.5*
	lbf·in (kgf·cm)	0.17 - 1.7 (0.2 - 2)	1.7 - 4.8 1.7 - 4.8*	1.7 - 10 (2 - 12)	1.7 - 10 1.7 - 8.7*	4.3 - 17.4 (5 - 20)	6.1 - 24 (7 - 28)	4.3 - 13 6.1 - 30*
Torque switching		Stepless Adjustment	Stepless Adjustment	Stepless Adjustment	Stepless Adjustment	Stepless Adjustment	Stepless Adjustment	Stepless Adjustment
Unloaded Rotation	HI	990	980	900	1,500 2,200 *	750	960	2,200 700 *
	LOW	650	680	590	1,000 1,500 *	500	630	1,500 500 *
Screw Size (mm)	Machine Screw	1.0 - 2.3	1.7 - 2.3	2.0 - 3.0	2.0 - 3.0	2.0 - 4.0	2.6 - 5.0	2.6 - 4.0
	Tapping Screw	1.0 - 2.0	2.0 - 2.3	2.0 - 3.0	2.0 - 2.6	2.0 - 3.0	2.6 - 4.0	2.6 - 4.0
Bit Drive	HIOS Shank	H4	H4	H4		H5 and SHEX		
	HEX Shank	—	1/4HEX	H5 and SHEX or 1/4HEX		1/4HEX		
Power Supply	T-30BL	○	○	—	—	—	—	—
	T-70BL	○	○	○	○	○	○	○
Accessories	Bit (one each)	H4	+ #0(∅2.0×40mm) + #0(∅2.5×40mm)	+ #1(∅4.0×40mm) + #2(∅4.0×40mm)	+ #1(∅4.0×40mm) + #2(∅4.0×40mm)	+ #1(∅5.0×60mm) + #2(∅5.0×60mm)	+ #1(∅5.0×60mm) + #2(∅5.0×60mm)	+ #1(∅5.0×60mm) + #2(∅5.0×60mm)
		H5			+ #1(∅5.0×60mm) + #2(∅5.0×60mm)	+ #1(∅5.0×60mm) + #2(∅5.0×60mm)	+ #1(∅5.0×60mm) + #2(∅5.0×60mm)	+ #1(∅5.0×60mm) + #2(∅5.0×60mm)
	1/4 HEX		+ #1(5×50mm) + #2(5×50mm) —(5×50mm)	+ #1(5×50mm) + #2(5×50mm) —(5×50mm)	+ #1(5×50mm) + #2(5×50mm) —(5×50mm)	+ #1(5×50mm) + #2(5×50mm) —(5×50mm)	+ #1(5×50mm) + #2(5×50mm) —(5×50mm)	+ #1(5×50mm) + #2(5×50mm) —(5×50mm)
Spring		Yellow spring						
Cord length (m)		2m (5P) ESD design	1.5m (5P)	1.5m (5P)	1.5m (5P)	1.5m (5P)	2m (5P)	2m (5P)
L-shaped HEX wrench				Width across flats: 5mm, 1 pc	Width across flats: 5mm, 1 pc	Width across flats: 5mm, 1 pc	Width across flats: 5mm, 1 pc	Width across flats: 5mm, 1 pc

★The output torque range and unloaded rotation speed of BL-5000-20 are different from those of BL-5000-15.

Accessories and Variations

BL Accessories & Applicable Drivers

Suction(Vacuum) Attachment for BL Series

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 improve operation efficiency. It can also be used to remove powder dust generated from screw tightening.

Order guide

(A), (B) and (C) needed to be purchased separately if you would like to mount this suction device to your screwdriver.

* 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. 54.

Model	(A) Mouthpiece model	(B) Bits total length	(C) Suction attachment model
BL-2000	F3-Standard 18mm	H4 60mm	CLQ2-SET / CLQ2-SET-ESD*
BL-3000	F3-Standard 18mm	H4 60mm	BLQ3N-SET
BL-5000	F3-Standard 18mm	H4 40mm H4 60mm	BLQ5-SET / BLQ5-SET-ESD* BLQ5N-SET / BLQ5N-SET-ESD*
BL-7000	F6-Standard 31mm	H5 80mm	BLQ7-SET

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

* ESD is anti-electrostatic

Suction + Anti-electrostatic

BLQ-ESD

Models:
BLQ-3000ESD
BLQ-5000ESD
BLQ-5000ESD-15

BLQ-5000ESD-20
BLQ-7000ESD
BLQ-7000ESD-20

Clean Room

BLQ-CR

Models:
BLQ-2000CR
BLQ-3000CR
BLQ-5000CR
BLQ-5000CR-15

BLQ-5000CR-20
BLQ-7000CR
BLQ-7000CR-20

Anti-electrostatic

BL-ESD

Models:
BL-3000ESD
BL-5000ESD
BL-5000ESD-15
BL-5000ESD-20

BL-5020ESD
BL-7000ESD
BL-7000ESD-20
BL-7000HT

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

[Surface resistance: max. 10⁹Ω]

Clean Room + Anti-electrostatic

BLQ-CR-ESD

Models:
BLQ-2000CR
BLQ-3000CR-ESD
BLQ-5000CR-ESD
BLQ-5000CR-ESD-15
BLQ-5000CR-ESD-20
BLQ-7000CR-ESD
BLQ-7000CR-ESD-20

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

[Class 100 equivalent]
[Surface resistance: max. 10⁹Ω]

For use with HIOS Screw Counter

BL-OPC

Models:
BL-2000-OPC
BL-3000-OPC
BL-5000-OPC

BL-5020-OPC
BL-7000-OPC
BL-7000-20-OPC

BL-7000HT-OPC

These screwdrivers prevent you from skipping screw tightening in combination with the screw counter.

● They have a function to output positive rotation, reverse rotation and torque-up (tightening complete) signals.

Compatible counters

Power supply with HIOS screw counter
BLOP-STC3

Separate counter
BLOP-SC1

Compact separate counter
BLOP-SC3

▶ See P. 39-42 for details.

Accessories

Accessories

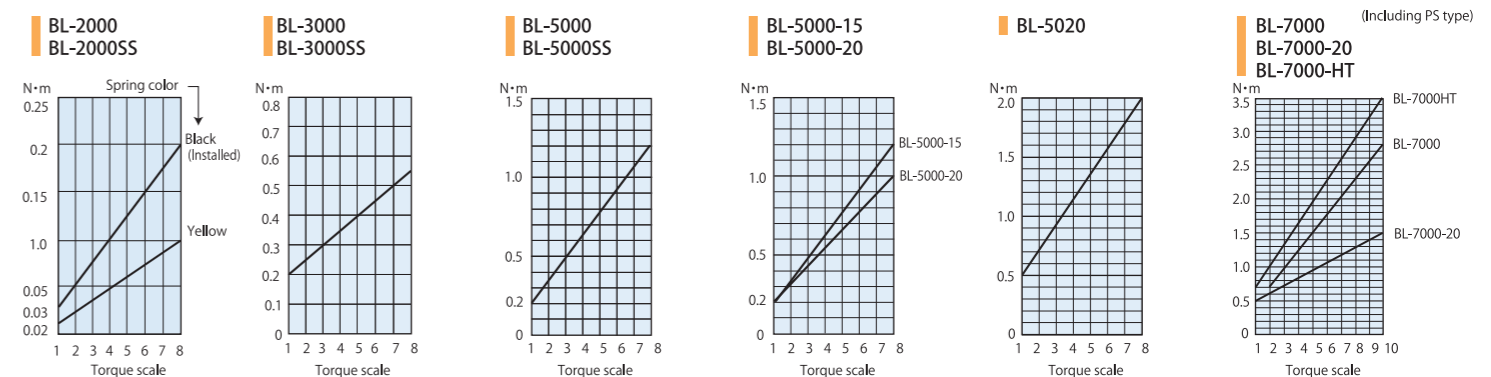
Pistol Attachment

PAB-70

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



Output torque guide (HI input)



*There are two types of spring for torque adjustment: for HI (originally fixed to the unit) and for Low (accessory). Use one of them depending on your operating conditions.