

Brushless® Screwdriver

BLG BLG Series (DC Type)



The New Industry Benchmark in Electric Torque Drivers

- The BLG series has the performance, quality and durability equivalent to existing brushless screwdrivers (e.g., BL series), plus better maintenance efficiency.
- You can smoothly switch from a brushed screwdriver (e.g., CL and α series) to a brushless screwdriver (e.g., BLG series) without significant cost increase.

Lever Start Type

Lever Start Type

Unit: mm

BLG-4000



Note: CCC certified models have different specification and order codes from the standard models. Please contact HIOS distributors before ordering.

Two-way (Push/Lever) Start Type

Two-way Start System

Unit: mm

BLG-5000



Hi-speed rotation

BLG-5000-15



Hi-speed rotation

BLG-5000-18



Hi-torque

BLG-5000-HT



BLG series Specifications

Specifications

Model Name		BLG-4000	BLG-5000	BLG-5000-15	BLG-5000-18	BLG-5000-HT	
Output Torque Range	N·m	0.1 - 0.55	0.2 - 1.2	0.3 - 1.0	0.5 - 1.5	0.5 - 2.0	
	lbf·in (kgf·cm)	0.9 - 48 (1 - 5.5)	1.7 - 10 (2 - 12)	2.6 - 10 (3 - 10)	4.3 - 13 (5 - 15)	4.3 - 17 (5 - 20)	
Torque Switching		Stepless Adjustment	Stepless Adjustment	Stepless Adjustment	Stepless Adjustment	Stepless Adjustment	
Unloaded Rotation Speed (r.p.m) ±10%	HI	1,000	1,000	1,500	2,000	730	
	LOW	690	690	1,000	1,400	—	
Screw Size (mm)	Machine Screw	1.4 - 2.6	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 4.0	
	Tapping Screw	1.4 - 2.3	2.0 - 3.0	2.0 - 2.6	2.0 - 2.6	2.0 - 3.0	
Bit Drive	HIOS Shank	H4	H4	H4	H5 & 5HEX	H5 & 5HEX	
	HEX Shank	1/4HEX	H5 and 5HEX or 1/4HEX	H5 and 5HEX or 1/4HEX	1/4HEX	1/4HEX	
Power Supply	T-45BL	○	○	○★	—	○★	
	T-70BL	○	○	○★	○★	○★	
Accessories	Bit (one each)	H4	+ # 0 (Ø2.5×40mm) + # 1 (Ø4.0×40mm)	+ # 1 (Ø4.0×40mm) + # 2 (Ø4.0×40mm)	+ # 1 (Ø4.0×40mm) + # 2 (Ø4.0×40mm)	—	
		H5	—	+ # 1 (Ø5.0×60mm) + # 2 (Ø5.0×60mm)	+ # 1 (Ø5.0×60mm) + # 2 (Ø5.0×60mm)	+ # 1 (Ø5.0×60mm) + # 2 (Ø5.0×60mm)	
		1/4HEX	+ # 1 (Ø5.0×50mm) + # 2 (Ø5.0×50mm) — (Ø5.0×50mm)	+ # 1 (Ø5.0×50mm) + # 2 (Ø5.0×50mm) — (Ø5.0×50mm)	+ # 1 (Ø5.0×50mm) + # 2 (Ø5.0×50mm) — (Ø5.0×50mm)	+ # 1 (Ø5.0×50mm) + # 2 (Ø5.0×50mm) — (Ø5.0×50mm)	+ # 1 (Ø5.0×50mm) + # 2 (Ø5.0×50mm) — (Ø5.0×50mm)
	Spring	White spring					
Cord length (m)		1.5m(5P)					
L-shaped HEX wrench		Width across flats: 5mm, 1pc					

Use only 2(HI) power outlet with the ★models. These models may not perform properly on 1(LOW) power outlet.

Suction(Vacuum) Attachment for BLG Series

By negative pressure, the effort needed to pick up screws is reduced. This attachment can even pick up non-ferrous screws such as stainless steel screws by vacuuming, and improve operation efficiency. It also removes powder dust generated in screw fastening.

Order guide

(A),(B) and (C) below needed to be purchased separately .

* The size of (A) and (B) depends on the screw size. For more information, please refer to P. 59-60.

Model	(A) Mouthpiece model	(B) Bit length	(C) Suction Attachment model
BLG-4000	F3-Standard 18mm	H4 60mm	BLGQ4-SET
BLG-5000		H4 40mm	BLQ5-SET/BLQ5-SET-ESD*
BLG-5000-15		H4 60mm	BLQ5N-SET/BLQ5N-SET-ESD*

Note: The Suction Attachment cannot be used with 1/4HEX .

* ESD is anti-electrostatic

Please contact HIOS distributors for the attachment for the BLG-5000BC1-18



Vertical Screwdriver Operating Stand

VMS-40 / VMS-50

The stand keeps the screwdriver in a vertical position, allowing accurate screw fastening .



Compatible screwdrivers:

BLG-4000BC1
BLG-5000 Series



▶ See P.42 for details.

For use with HIOS Screw Counters

BLG-OPC



Models:

BLG-4000-OPC BLG-5000-OPC-18
BLG-5000-OPC BLG-5000-OPC-HT
BLG-5000-OPC-15

These models prevent skipping screw fastening in combination with the HIOS Screw Counter.

- They have a function to output positive rotation, reverse rotation and Torque-up (finish) signals.

Compatible counters

Power supply with HIOS Screw Counter
BLOP-STC3

Separate Counter
BLOP-SC1

Compact Separate Counter
BLOP-SC3



▶ See P. 43-46 for details.

I/O Signal Relay Box

BLOP-AF

A complete signal from the screwdriver can be easily extracted and used by connecting this Relay box to an external device such as a PLC.



Compatible screwdrivers:

BLG-4000 (OPC)
BLG-5000 Series (OPC)



▶ See P.28 for details.

BLG - OPC Series I/O Signal Relay Box for Automation BLOP-OST

By connecting this box to a set of the BL-OPC or BLG-OPC and its power supply, the driver can start / stop by inputting D-ACT signals into the CN3 connector with external devices.



Compatible screwdrivers:

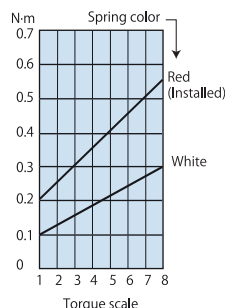
BLG-4000 (OPC)
BLG-5000 Series (OPC)



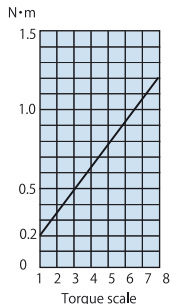
▶ See P.28 for details.

Output torque guide (HI input)

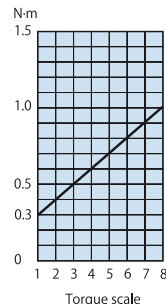
BLG-4000



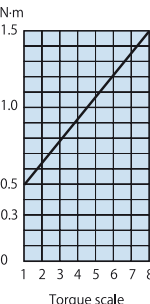
BLG-5000



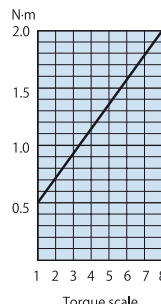
Hi-speed rotation BLG-5000-15



Hi-speed rotation BLG-5000-18



Hi-torque BLG-5000-HT



*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 operation conditions.