

Brushless® Screwdriver
Built-in Pulse Counter
BLG-BC2 BLG-BC2 Series
(DC Type)



No more rely operations experience and skill.

- Detect errors in screw fastening in real time with high accuracy by counting the pulse of the motor.
- Misplaced screws of different type or length, recessed screws or floating screws due to seized cables are now detected.
- Installed serial port (RS-232C) makes it possible to set the driver by remote control and record pulse values of each screw tightening for traceability.
- Direct teaching allows a simple setting .

Lever Start Type

Lever Start Type

BLG-4000BC2



Two-way Start System

Two-way Start System

BLG-5000BC2



Hi-speed rotation

BLG-5000BC2-15



Hi-speed rotation

BLG-5000BC2-18



Hi-torque

BLG-5000BC2-HT



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

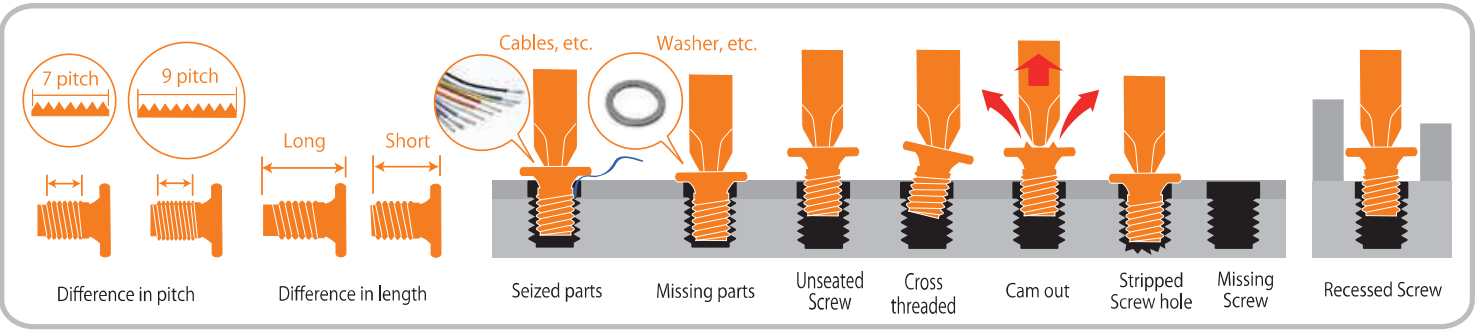
BLG-BC2 Series Specifications

Specifications

| Model name | | BLG-4000BC2 | BLG-5000BC2 | BLG-5000BC2-15 | BLG-5000BC2-18 | BLG-5000BC2-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 | 0.9-4.8 | 1.7-10 | 2.6-10 | 4.3-13 | 4.3-17 |
| | (Kgf·cm) | (1-5.5) | (2-12) | (3-10) | (5-15) | (5-20) |
| Torque switching | | Stepless Adjustment | | Stepless adjustment | Stepless Adjustment | Stepless Adjustment |
| Unloaded Rotation | HI | 1.000 | 1.000 | 1.500 | 1.800 | 730 |
| | LOW | 690 | 690 | 1.000 | 1.200 | — |
| Speed (r.p.m) ±10% | | 690 | | 1.000 | 1.200 | — |
| Screw Size (mm) | Machine Screw | 1.4-2.6 | 2.0-3.0 | 2.3-3.0 | 2.3-3.0 | 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 and 5HEX | H5 and 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) |
| | | Spring | White | — | — | — |
| Cord length (m) | | 2m(6P) | | 2m(6P) | 2m(6P) | 2m(6P) |
| L-shaped HEX wrench | | — | | Width across flats: 5mm, 1 pc | Width across flats: 5mm, 1 pc | Width across flats: 5mm, 1 pc |

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

Detectable errors with BLG-BC2



Accessories

BLG-BC2 Accessories

Accessories

Accessories

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. 63-64

| Model | (A) Mouthpiece model | (B) Bit length | (C) Suction attachment model |
|----------------|----------------------|----------------|------------------------------|
| BLG-4000BC2 | F3-Standard 18mm | H4 60mm | BLGQ4-SET |
| BLG-5000BC2 | | H4 40mm | BLQ5-SET / BLQ5-SET-ESD* |
| BLG-5000BC2-15 | | 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-5000BC2-18

External Input/output cable BLG-BC2-3010

To use external I/O, the special cable with the sample application software is available as an option.



Vertical Screwdriver Operating Stand VMS-40 / VMS-50

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



Compatible screwdrivers:

BLG-4000BC2
BLG-5000BC2 Series

▶ See P.46 for details.



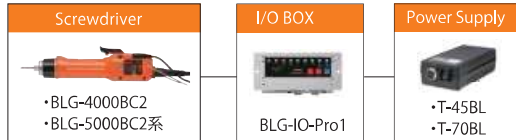
Related Products

Related Products

External I/O Box BLG-IO-Pro1



Operation Image



※I/O cable "BLG-BC2-3010" needs to be purchased additionally.

Connection with JUKUREN BLG-BC2 provides simple control of fastening a screw!

- ① Detects screw fastening errors and can be interlocked with revolving lights.
- ② Operations can be coordinated with PC (the dedicated software).
- ③ No preparation of a program like PLC controls is required.
- ④ Driver operation control is possible depending on whether work is available or not.
- ⑤ The driver terminates operation automatically when screw fastening error occurs.

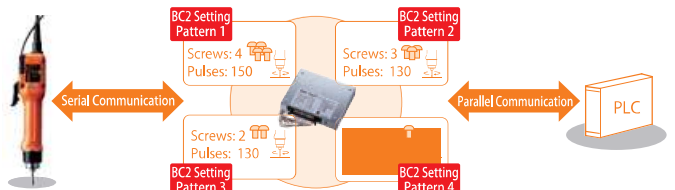
Serial-to-parallel Conversion Box BLG-IF2



The BLG-IF2 is a conversion box to convert the signal transmission of the BLG-BC2 driver from serial interface to parallel interface.

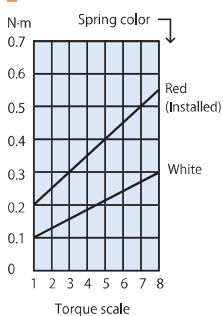
With the BLG-IF2 the driver can be interlocked with external devices such as a PLC by using input and output signals.

* The BLG BC2 I/O Cable "BLG-BC2-3010" needs to be purchased additionally.

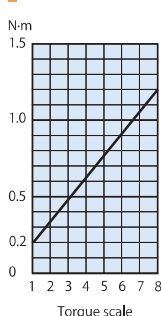


Output torque guide (HI input)

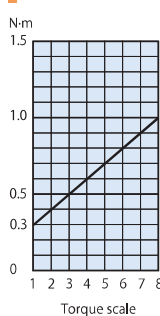
BLG-4000BC2



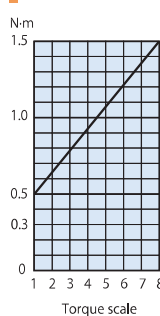
BLG-5000BC2



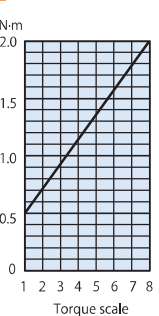
BLG-5000BC2-15



BLG-5000BC2-18



BLG-5000BC-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 operating conditions.