

HIOS®



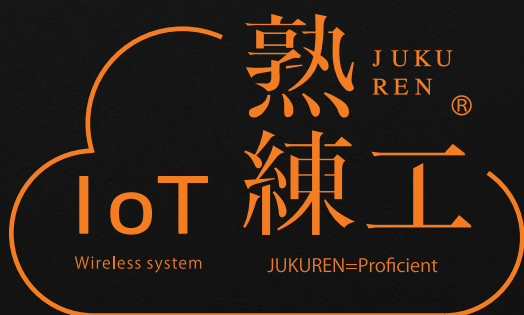
With This No Mistakes

Debut!
New Model

● Hi torque



● Low torque



Detect errors in screw fastening in real time with high accuracy by counting the pulse of the motor. No need to rely on the experience or logic of operators any longer. The screwdriver itself will enhance the quality of screw fastening.

Brushless® Screwdriver

Built-in Screw Counter / Pulse Counter

BLG-BC2 Series

New variations of BLG-BC2 Series are released.

BLG-BC2 has multiple functions such as direct teaching, screw counter, ultra-precise detection of screw fastening error and output of work data. It has incorporated many of the most advanced technologies from HIOS.



Use of big data with traceability unlocks future possibilities.

New model

BLG-4000BC2-LT

Lever start type

Low torque
0.03-0.2
N · m



New model

BLG-7000BC2

Lever and Push-to start (two-way)

Hi torque
0.7-2.8
N · m



Dedicated for external I/O

Cable and plug are redesigned.

New model has adopted one-touch lock system with higher durability.

【Model】

BLG-BC2-3012



【Specifications】

- Plug shape: one-touch lock system on the main unit; RS-232C on the counterpart
- Cable length: 3m
- Supporting BLG-4000BC2-LT and BLG-7000BC2.

Advantages of BLG-BC2

Direct teaching allows a simple setting

By installing several fasteners into the assembly the driver learns the number of motor revolutions required to correctly tighten the fasteners to the desired torque. The driver then establishes the minimum to maximum revolutions for process acceptance.

Drastically increases the error detection rate

Screws that were once difficult to judge visually, (misplaced screws of different type or length, recessed screws or floating screws due to seized cables) are now detected.

Display panel indicates the measured values

The user can check the measured values on their display panel, enhancing the user's quality of performance at work.

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.

Data transmission and reception are enabled by connecting with external devices, including PC and PLC.

Screwdriver specifications

New model

BLG-4000BC2-LT

Low torque



New model

BLG-7000BC2

Hi torque



Under applying CCC, CE



BLG-4000BC2 Series



BLG-5000BC2 Series



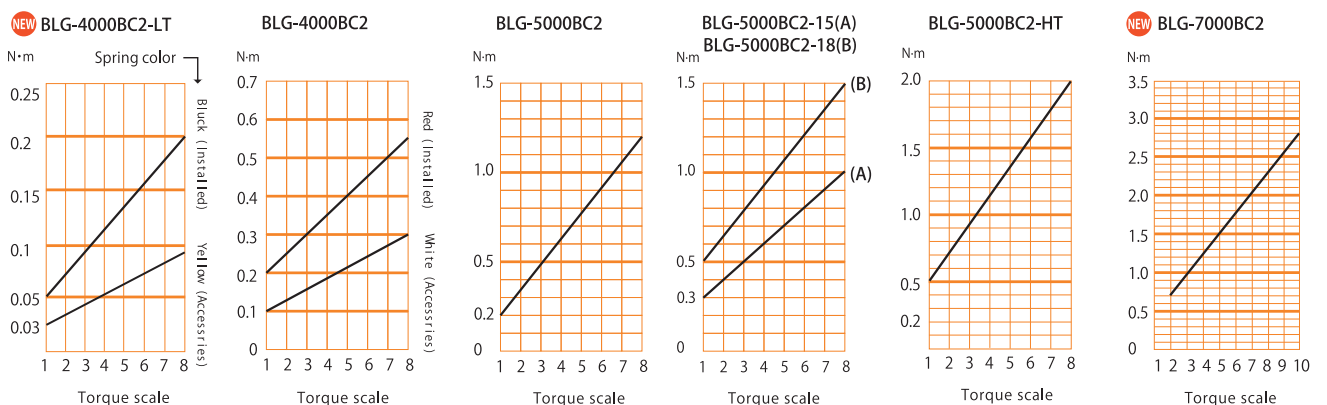
Start Type	Model	Output Torque Range N·m lbf·in (Kgf·cm)	Torque Switching	Unloaded Rotation Speed (rpm) ±10%	Screw Size (mm) Machine Screw/ Tapping Screw	External Dimensions(mm)		Weight (g)	Power Supply		Bit type (selectable) (Refer to P3.)		
						Grip (mm)	Length (mm)		T-45BL	T-70BL	A HIOS Shank H4	B Two-way Shank type H5 / SHEX	C HEX Shank 1/4HEX
Lever start	NEW Low torque type BLG-4000BC2-LT	0.03-0.2 0.3-1.7 (0.3-2)	Stepless adjustment	1,000/ 690	1.0-2.3/ 10.-2.0	φ 32.7	207	312	●	●	● (1)	—	—
	BLG-4000BC2	0.1-0.55 0.9-4.8 (1-5.5)		1,000/ 690	1.4-2.6/ 1.4-2.3		206	370	●	●	● (2)	—	●
Lever and Push-to start (two-way)	BLG-5000BC2	0.2-1.2 1.7-10 (2-12)		1,000/ 690	2.0-3.0/ 2.0-3.0	WD cut shape MAX: φ 38 Min: φ 32	235	425	●	●	● (3)	●	●
	High speed type BLG-5000BC2-15	0.3-1.0 2.6-10 (3-10)		1,500/ 1,000	2.3-3.0/ 2.0-2.6		235	425	● *	● *	● (3)	●	●
	High speed type BLG-5000BC2-18	0.5-1.5 4.3-13 (5-15)		1,800/ 1,200	2.3-3.0/ 2.0-2.6		235	425	—	● *	—	●	●
	High torque type BLG-5000BC2-HT	0.5-2.0 4.3-17 (5-20)		730/ —	2.0-4.0/ 2.0-3.0		235	425	● *	● *	—	●	●
	NEW High torque type BLG-7000BC2	0.7-2.8 6.1-30 (7-28)	1,200/ 800	2.6-5.0/ 2.6-4.0	WD cut shape MAX: φ 40 Min: φ 37		238	670	—	● *	—	●	●

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

● For BLG-4000BC2 Series, two types of torque adjustment spring are available: one for high torque (mounted on the body) and one for low torque (as an accessory). Please switch the springs according to the type of task.

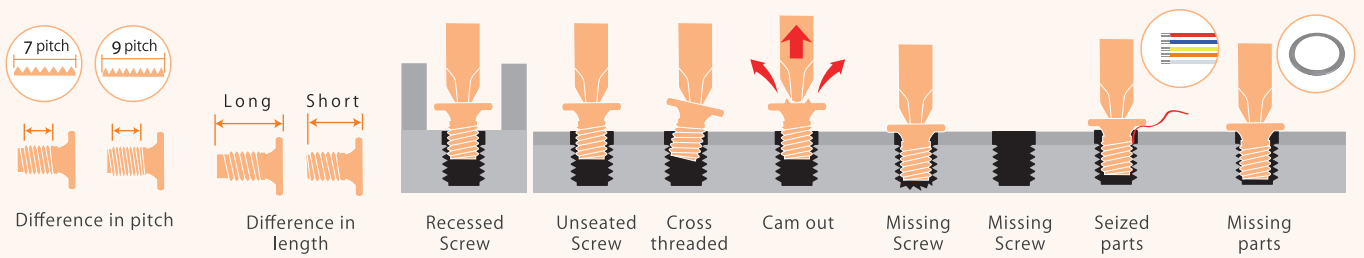
Accessories	• Adjustment spring for low torque (only for 4000 Series)	• Driver Code 2m(6P)	• HEX L-wrench: one (flat-to-flat 5mm) (only for 5000/7000 Series)	• Bits: one each for each type (only available with HIOS shanks)
				(A) (1) H4 +#0(φ 2.0×40mm) +#0(φ 2.5×40mm) (2) H4 +#0(φ 2.5×40mm) +#1(φ 4.0×40mm) (3) H4 +#1(φ 4.0×40mm) +#2(φ 4.0×40mm)
				(B) H5 +#1(φ 5.0×60mm) +#2(φ 5.0×60mm) (C) Please purchase commercially available one.

Output torque guide (HI input)



Detectable Errors

Including mixing of screws (different type or length), screw floating in a deep hole that is difficult to detect visually and seizing of a wiring cable.



Related Products

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.



※I/O cable needs to be purchased additionally.

External Input/output cable BLG-BC2-3010

Please use this cable for connection with an external device.

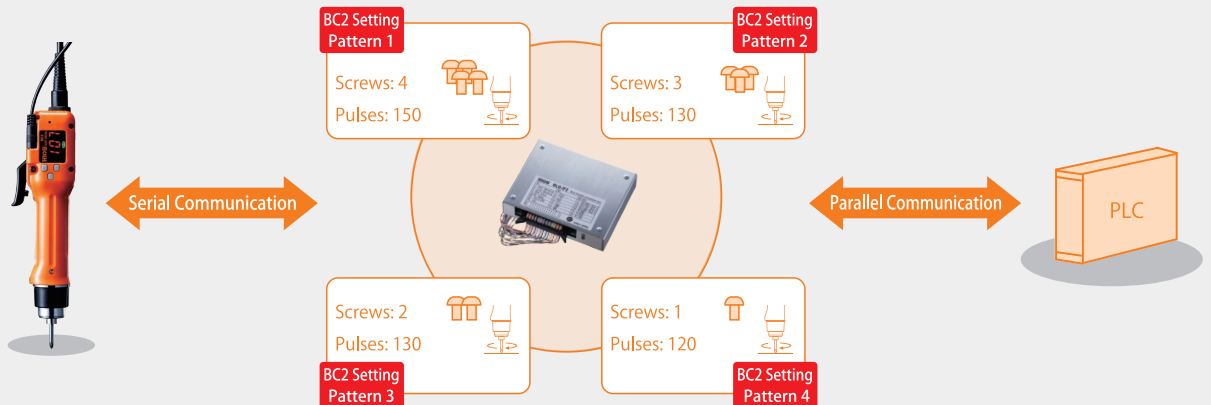
- Plug shape: phone plug; RS-232C on the counterpart
- Cable length: 3m
- Supporting BLG-4000BC2 and BLG-5000BC2 Series.



[Note] Use BLG-BC2-3012 (refer to page 1) for BLG-4000BC2-LT/BLG-7000BC2.

BLG-IF2 can save up to 4 setting values patterns such as the number of screws to fasten and the number of pulses, and the patterns can be switched through the PLC.

Operation Image



External I/O Box BLG-IO-Pro1

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



※I/O cable needs to be purchased additionally.

Operation Image

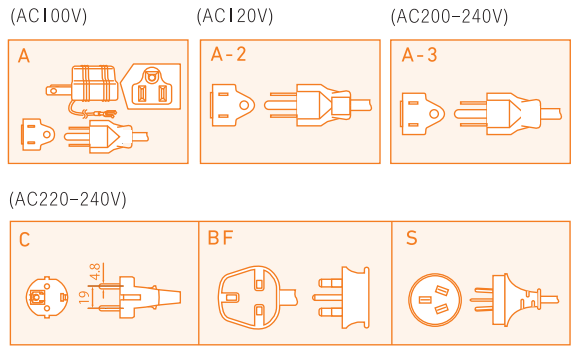


Power Supply

Number of connectable screwdrivers		
Power supply	T-45BL	T-70BL
BLG-4000BC2-LT	●	●
BLG-4000BC2	●	●
BLG-5000BC2	●	●
BLG-5000BC2-15	● *	● *
BLG-5000BC2-18	—	● *
BLG-5000BC2-HT	● *	● *
BLG-7000BC2	—	● *

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

■ Plug type



Model: T-45BL (for one screwdriver)				
Primary input power source	AC100-240V (47-63 Hz)			
Secondary output voltage	HI(2): DC30V, LOW(1): DC20V 2-step switchable			
External dimensions (mm)	71.5(W) × 146(D) × 42.6 (H) mm			
Weight (g)	320 g			
Accessories	Power supply cord 1.8m (1pc), Flat 2P conversion plug (1pc) (only for 100V), Mounting bracket (1 pcs), Mounting screw (1 pcs)			
Plug Type	A	A-2	A-3/C/BF/S	

Model: T-70BL (for one screwdriver)				
Primary input power source	AC100-240V (47-63 Hz)			
Secondary output voltage	HI(2): DC30V, LOW(1): DC20V 2-step switchable			
External dimensions (mm)	88(W) × 210(D) × 52 (H) mm			
Weight (g)	685 g			
Accessories	Power supply cord 1.8m (1pc), Flat 2P conversion plug (1pc) (only for 100V), Mounting bracket (1 pcs), Mounting screw (1 pcs)			
Plug Type	A	A-2	A-3/C/BF/S	

Please select a bit drive when you purchase a screwdriver.

There are three drive types: HIOS shank, two-way shank and Hex shank.
Please make sure to specify the shank.

		Unit:mm	
	HIOS bit drive type (H4 / H5) Please use HIOS standard bit.	H4	
		H5	
	Two-way bit drive type (H5 / 5HEX) Either of HIOS bit or hex bit can be used.	H5	
		5HEX	
		1/4HEX	
	Hex bit drive type (1/4HEX / 5HEX) Please purchase hex bit with the specified size from commercial stores.	5HEX	

Product videos

Videos to explain how to use BC2, etc., are available on our website. Please check them.

➔ <https://hios.com/EN/movie/>

Main functions	Examples of error detections	Direct teaching

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ISO9001:
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ISO14001:
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