

- Low-voltage output (30V/20V) achieves safety and quiet rotation.
- Always supplies stable voltage.

Model: **T-30BL** (for one screwdriver)

Multiple input (AC100-240V)
Compatible screwdrivers:
BLG-4000BC1



Primary input power source: AC100-240V (47-63 Hz)
Secondary output voltage: HI(2): DC30V, LOW(1): DC20V 2-step switchable
External dimensions (mm): 62(W) × 134(D) × 40 (H) mm
Weight (g): 300 g
Accessories: Power supply cord 1.8m (1pc), Flat 2P conversion plug (1pc) (only for 100V), Mounting hardware (2 pcs), Mounting screw (4 pcs)
Plug Type: A, A-2, A-3 / C / BF / S

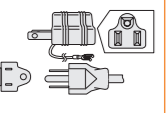
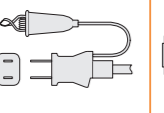
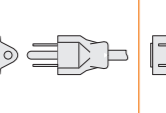
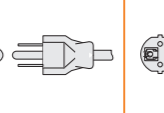
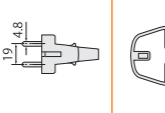
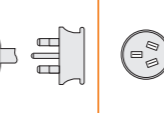
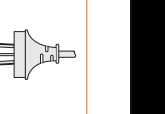
Model: **T-70BL** (for one screwdriver)

Multiple input (AC100-240V)
Compatible screwdrivers:
BLG-4000BC1
BLG-5000BC1 Series



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 hardware (2 pcs), Mounting screw (4 pcs)
Plug type: A, A-2, A-3 / C / BF / S

Plug type

Voltage	100V		120V	220-240V			
	Type A	Type A-1	Type A-2	Type A-3	Type C	Type BF	Type S
Plug type							

You can connect BC1 to an existing screw counter by turning off the built-in counter function.

Separate Counter
Model name: BLOP-SC1



Compatible screwdrivers:
BLG-4000BC1/BLG-5000BC1 Series

Power Supply with a Screw Counter
Model name: BLOP-STC3




Compatible screwdrivers:
BLG-4000BC1/BLG-5000BC1 Series

Complete Signal Relay Box

- 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.

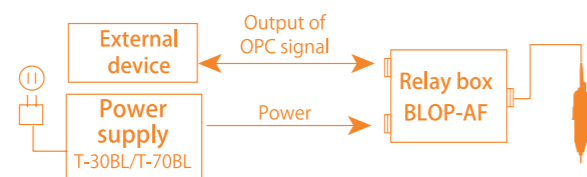
Model Name: **BLOP-AF**

Compatible screwdrivers:
BLG-4000BC1
BLG-5000BC1 Series



Output signal: FOR(forward)/REV(reverse)/T-UP (torque up)
Primary input power: DC30V
Secondary output: Same as the primary input
External dimensions: 70(W) × 42(D) × 100(H)mm
Weight (g): 160g
Accessories: A cable (1.5m), mounting hardware (2pcs), a plug for OPC signals

How to connect the Relay box



HIOS®



This screwdriver will change the world of screw tightening.

The First Generation of the Evolving BLG Series

You don't have to depend on the operator's experience or visual check anymore to know if a screw is tightened properly. The screwdriver and the screw counter are integrated into one body of the BLG-BC1, the first generation of the evolving BLG series. The screwdriver itself can judge pass or fail and that helps you to achieve zero screw tightening errors.

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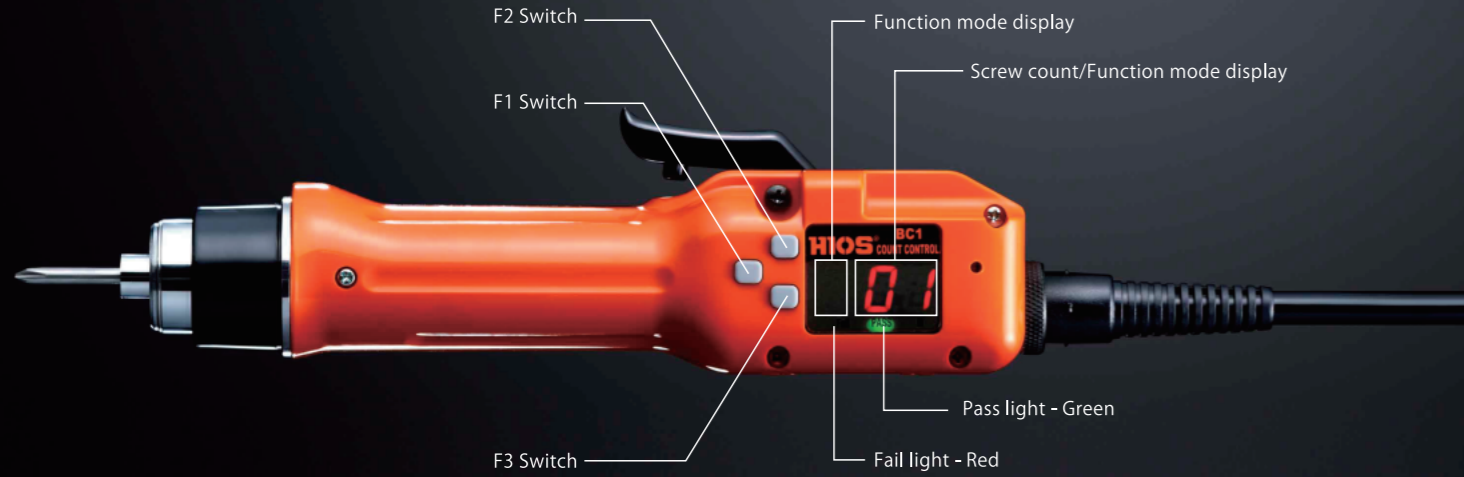
Brushless® Screwdriver with a Built-in Screw Counter

BLG-4000BC1
BLG-5000BC1

* Specifications and appearance of the products are subject to change without notice. * The contents in the catalog are based on information available as of October 2013. Catalog number: EK-A028(13C)

No more overlooked tightening errors! Advantages of built-in counter BC1:

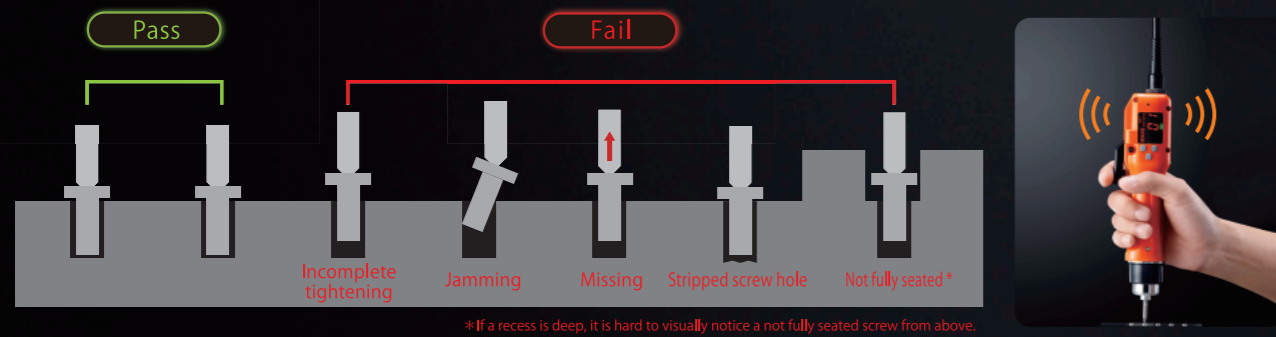
- 1 It prevents human errors in operations! It supports accurate screw tightening and reduces the operator's fatigue.
- 2 A conventional external screw counter is not required. This realizes low-cost introduction of new screwdrivers.
- 3 The integration of the screwdriver and the counter is optimal for space-saving operations.



Major features

- Counter ON/OFF** You can turn off the counter and use the screwdriver as an ordinary one; then you can connect your own counter to it.
- Count** You can set the number of screws for counting from 1 to 99. This way screw tightening skipping can be prevented.
- Work reset timer** The buzzer notifies you of completion of the work. The counter will be reset.
- Count timer** This prevents incorrect counting errors due to tightening for verification, retightening or tightening twice.
- Reverse rotation count timer** You can set the timer to start counting reverse rotation (loosening).
- Over-time/Short-time** Faulty tightening can be detected (e.g., incomplete tightening, Jamming, cam-out, stripped screw hole, etc.).
- Accumulation counter** The total number of torque-up is counted.

From now on, the screwdriver itself detects and notifies you of screw tightening errors.



* If a recess is deep, it is hard to visually notice a not fully seated screw from above.

Lever start type BLG-4000BC1



High speed type

Lever and Push-to start (two-way)
BLG-5000BC1-15
(Revolution speed: 1,500 r.p.m)



Lever and Push-to start (two-way)
BLG-5000BC1-20
(Revolution speed: 2,000 r.p.m)



Lever and Push-to start (two-way) BLG-5000BC1



High torque type

Lever and Push-to start (two-way)
BLG-5000BC1-HT
(Torque range: 0.5 to 2.0N·m)



Accessory

The stand for vertical operations
The stand keeps the screwdriver in a vertical position,
allowing accurate screw tightening only with basic actions.



Models: VMS-40
VMS-50

Model	VMS-40	VMS-50
Pole height (mm)	515	615
Weight (kg)	2.5	2.65
Compatible screwdrivers	BLG-4000BC1 BLG-5000BC1 Series	

BLG Driver Holder (optional)
The holder to fix the screwdriver to the VMS stand
is optional. Please purchase it separately.

Model: VMS-0900-BLG

Accessory Suction (Vacuum) attachment

Complete Signal Relay Box

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

Model: BLOP-AF



UP! Extensible function screw driver Can be easily upgraded!

If you already have BC1, you can upgrade it as BLG
evolves for functional enhancement.
Please contact HIOS distributors when you want to
upgrade your BC1.

Antistatic (applied for EPA Certification)

The body case is made of antistatic resin. Therefore, it does
not easily get a static charge and is suitable for the
assembling of precision devices and electronic components.

Screwdriver specifications

Model		BLG-4000BC1	BLG-5000BC1	BLG-5000BC1-15	BLG-5000BC1-20	BLG-5000BC1-HT	
Start type		Lever start type	Lever and Push-to start (two-way)	Lever and Push-to start (two-way)	Lever and Push-to start (two-way)	Lever and Push-to start (two-way)	
Output Torque Range	N·m	0.1-0.55	0.2-1.2	0.3-1.0	0.3-0.8	0.5-2.0	
	lbf·in	0.9-4.8	1.7-10	2.6-10	2.6-7	4.3-17	
	(Kgf·cm)	(1-5.5)	(2-12)	(3-10)	(3-8)	(5-20)	
Torque Switching		Stepless adjustment	Stepless adjustment	Stepless adjustment	Stepless adjustment	Stepless adjustment	
Unloaded Rotation Speed (rpm) ±10%	HI	1,000	1,000	1,500	2,000	730	
	LOW	690	690	940	1,400	490	
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	
Drive size	HIOS Shank	H4	H4	H4	H4	H5 & 5HEX	
	Hexagonal Shank	1/4HEX	H5 & 5HEX or 1/4HEX	H5 & 5HEX or 1/4HEX	H5 & 5HEX or 1/4HEX	1/4HEX	
Power Supply	T-30BL	○	○	○	○	-	
	T-70BL	○	○	○	○	○	
Accessories	Bit type	H4	+ #0(Φ2.5×40mm) + #1(Φ4.0×40mm)	+ #1(Φ4.0×40mm) + #2(Φ4.0×40mm)	+ #1(Φ4.0×40mm) + #2(Φ4.0×40mm)	+ #1(Φ4.0×40mm) + #2(Φ4.0×40mm)	
		H5	+ #1(5.0×50mm) + #2(5.0×50mm) - (5.0×50mm)	+ #1(5.0×50mm) + #2(5.0×50mm) - (5.0×50mm)	+ #1(5.0×50mm) + #2(5.0×50mm) - (5.0×50mm)	+ #1(5.0×50mm) + #2(5.0×50mm) - (5.0×50mm)	+ #1(Φ5.0×60mm) + #2(Φ5.0×60mm)
		1/4HEX	+ #1(5.0×50mm) + #2(5.0×50mm) - (5.0×50mm)	+ #1(5.0×50mm) + #2(5.0×50mm) - (5.0×50mm)	+ #1(5.0×50mm) + #2(5.0×50mm) - (5.0×50mm)	+ #1(5.0×50mm) + #2(5.0×50mm) - (5.0×50mm)	+ #1(5.0×50mm) + #2(5.0×50mm) - (5.0×50mm)
	Spring	White	White	White	White	White	
Cord length (m)		2m(6P)	2m(6P)	2m(6P)	2m(6P)	2m(6P)	
HEX L-wrench		-	WAF: 5mm (1pc)	WAF: 5mm (1pc)	WAF: 5mm (1pc)	WAF: 5mm (1pc)	

BLG Series Suction (Vacuum) Attachment

This attachment picks up a screw in combination with a vacuum pump. It can pick up non-ferrous screws such as stainless steel screws by vacuuming, and improves operation efficiency. It also remove powder dust generated from screw tightening.

Compatible screwdrivers: BLG-4000BC1/BLG-5000BC1/BLG-5000BC1-15/BLG-5000BC1-20

Configuration of suction screwdriver

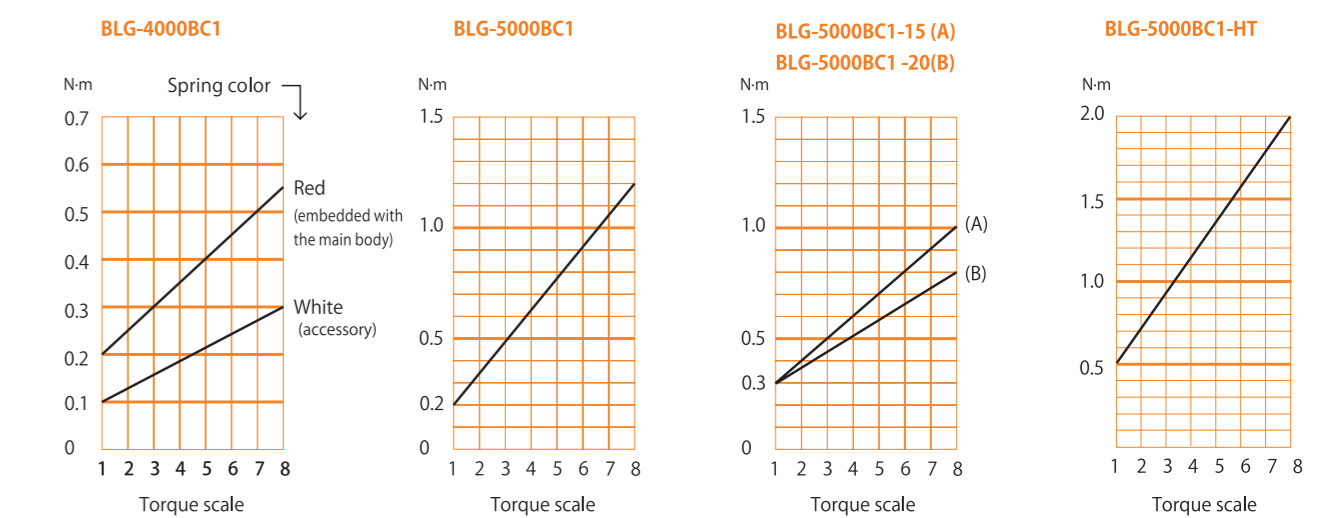
Outline of the suction unit

Order guide:
(A), (B) and (C) need 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 our website or contact us.

Model	(A) Mouthpiece			(B) Driver Bits			(C) Suction attachment	
	Type	Total length	External dimensions	Drive(a)	Total length(b)	Outer dimensions	Standard	Anti-static
BLG-4000BC1	F3	18mm		Hios H4 (Φ4)	60mm		BLGQ4-SET	
BLG-5000BC1 BLG-5000BC1-15 BLG-5000BC1-20	F3	18mm		Hios H4(Φ4)	40mm 60mm		BLQ5-SET BLQ5N-SET	BLQ5-SET-ESD BLQ5N-SET-ESD

Output torque guide (HI input)



* For the torque adjustment spring for BLG-4000, two types are available. One is for large torque (embedded in the main body) and the other is for small torque (accessory). Please select a suitable one for your application.