



BLG Series -The New Industry Benchmark in Electric Torque Drivers

Our new brushless screwdriver hasn’ t only achieved enhanced performance, quality and durability, but also easiness of disassembling and reassembling for maintenance owing to unitization of internal components. In addition, our new screwdriver is highly cost-competitive and can be used anywhere in the world

Brushless® Screwdriver BLG Series

BLG-4000

BLG-5000



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* Specifications and appearance of the products are subject to change without notice.
* The contents in the catalog are based on information available as of June 2013. Catalog number: EK-A025 (13A).

Exclusive power supply for our brushless screwdrivers

Low-voltage output (30V/20V) achieves safe and quiet operation.
There is always a stable voltage supply.

Model: T-30BL (for one screwdriver)

Multiple input (AC100V-240V)

Compatible models:

BLG-4000

BLG-4000-OPC

RoHS

CE

UL



Primary input power source

AC100-240V (47-63Hz)

Secondary output voltage

HI (2): DC30V, LOW (1): DC20V Two-step switching type

External dimensions (mm)

62 (W) x 134 (D) x 40 (H)

Weight (g)

300 g

Accessories

Power supply cord 1.8m (1pc), Flat 2P conversion plug 1 (only for 100V), Mounting hardware 2 、Mounting screw 4

Plug type

A A-2 A-3 / C / BF / S

Model: T-70BL (for one screwdriver)

Multiple input (AC100V-240V)

Compatible models:

BLG-4000

BLG-4000-OPC

BLG-5000

BLG-5000-OPC

RoHS

CE

UL



Primary input power source

AC100-240V (47-63Hz)

Secondary output voltage

HI (2): DC30V, LOW (1): DC20V Two-step switching type

External dimensions (mm)

88 (W) x 210 (D) x 52 (H)

Weight (g)

685g

Accessories

Power supply cord 1.8m (1 pc), Flat 2P conversion plug 1 (only for 100V), Mounting hardware 2, Mounting screw 4

Plug type

A A-2 A-3 / C / BF / S

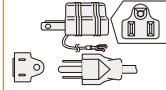
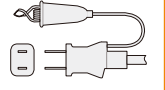
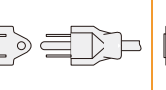
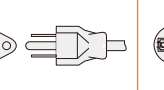
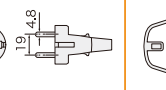
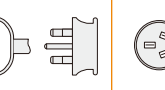
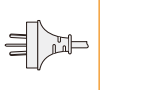
Screw counter Series

You can set the number of screws to be fastened between 1 and 99.
The screw counter displays the remaining number after every fastening action.
You can easily use a separate screw counter by connecting it to the existing HIOS power supply.
The mini screw counter can be used by connecting it directly to the screwdriver.

Power supply with screw counter				Separate counter (external)		Mini separate counter (external)	
Model: BLOP-STC3 (for one screwdriver)				Model: BLOP-SC1 (for one screwdriver)		Model: BLOP-SC3 (for one screwdriver)	
Multiple input (AC100V-240V) Compatible models: BLG-4000-OPC BLG-5000-OPC				Compatible models: BLG-4000-OPC BLG-5000-OPC		Compatible models: BLG-4000-OPC BLG-5000-OPC	
							
							
Primary input power source		AC100-240V (47-63Hz)		Primary input power source		DC20-31V	
Secondary output voltage		HI (2): DC31V, LOW (1): approx. DC20V Two-step switching type		Secondary output voltage		Same as the primary input power source	
External dimensions (mm)		127 (W) x 208 (D) x 76 (H)		External dimensions (mm)		110 (W) x 100 (D) x 55 (H)	
Weight (kg)		1.8kg		Weight (g)		600g	
Accessories		Power supply cord: 1.8m (with gro und wire) 1 Crimping terminals: 8		Connectable power unit		T-30BL/T-70BL	
Plug type		A-1	A-2	Accessories		Screwdriver cord: 1.5m:	
		A-3/C/BF/S				Connectable power unit	
						T-30BL/T-70BL	
						Accessories	
						Hangers for mounting: 1 set	

* Not including dents of the connector
Notes: Hang BLOP-SC3 with a balancer when you use it.
Do not use BLOP-SC3 for horizontal fastening.

Plug

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



Eco-friendly brushless motor is used.
Because of no emissions of carbon particles, it provides a clean environment for electronic components as well as for work places. There is no risk of electric leakage.



Low voltage (DC 30V) is reassuring for safe use.
Because of the low voltage design, you can use it safely and at ease. The low voltage also allows for easier maintenance.



Two-way Start System (Switchable)
You can switch between Push-to-Start and Lever Start (this is only for BLG-5000).



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 assembling of precision devices and electronic components.



The screwdriver heat generation has been reduced by approx. 40%.(Compared with the conventional HIOS products)
Use of the brushless motor has significantly reduced the screwdriver heat generation. The screwdriver heat generation is low and does not impair screwdriver performance.



Easy maintenance unit
Because the internal structure is unitized, maintenance can be done with only one screwdriver.

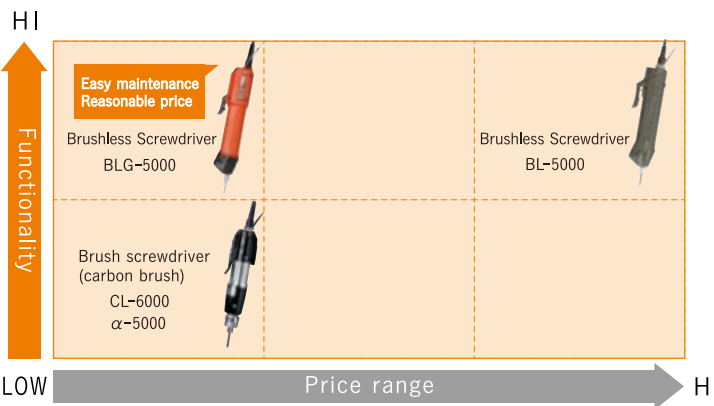


Reliable screw-tightening quality
We have realized stable screw-tightening quality by maintaining high-precision torque for a long time.



Outstanding durability
Durability has been significantly enhanced by eliminating malfunctions and failures due to wear of the consumable parts.

Comparison of our products



※ You can smoothly change from a brushed screwdriver (e.g., CL and α series) to a brushless screwdriver (e.g., BLG Series) without a significant cost increase.

BLG series

Lever Start

BLG-4000



Unit: mm

Weight: 370g

Two-way Start System
(switchable between Push-to-Start and Lever Start)

BLG-5000



Weight: 425g

Compatible power supply

Power supplies for the Brushless screwdrivers



Combinations

Screwdriver	+	Power supply
BLG-4000	+	T-30BL or T-70BL
BLG-5000	+	T-70BL

Accessories Suction attachment for BLG Series

Accessories

Vertical screwdriver operating stand The stand constantly keeps the screwdriver in a vertical position, allowing accurate screw tightening through minimal operation.

Models: VMS-40 VMS-50	Model	VMS-40	VMS-50
	Supporting pole height (mm)	515	615
	Weight (kg)	1.5	2.65
	Compatible screwdrivers	BLG-4000/BLG-5000	

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

Model number: VMS-0900-BLG

Screwdrivers with screw counter

These screwdrivers prevent you from skipping screw fastening in combination with the screw counter. They have the ability to output positive rotation, reverse rotation and torque- increase signals.

Lever start

BLG-4000-OPC



Unit: mm

Weight: 370g

Two-way Start System (switchable)

BLG-5000-OPC



Weight: 425g

Compatible HIOS screw counters

Power supply with the screw counter
BLOP-STC3



Combinations

Screwdriver	+	Power supply with screw counter
BLG-4000-OPC BLG-5000-OPC	+	BLOP-STC3

Separate screw counters



Combinations

Screwdriver	+	Separate screw counter	+	Power supply
BLG-4000-OPC	+	BLOP-SC1 or BLOP-SC3	+	T-30BL T-70BL
BLG-5000-OPC	+		+	T-70BL

Accessories

Suction attachment for BLG 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 improves effectiveness of operation. It can also be used to remove powder dust generated from screw fastening.

Compatible screwdrivers: BLG-4000/BLG-5000

Configuration of a suction screwdriver

Vacuum pump (optional): VP-3

Power supply (optional): T-30BL/T-70BL

Suction unit (optional):
(A): Mouthpiece
(B): Bit
(C): Suction attachment

Outline of the suction parts

Guide for ordering
(A)(B) and (C) need to be purchased separately if you would like to mount this suction device to your BLG screwdriver.
* The type of (A) and (B) depends on the screw size.
For more information on that, please visit our website at http://hios.com/EN/product/index_mouthpiece.html

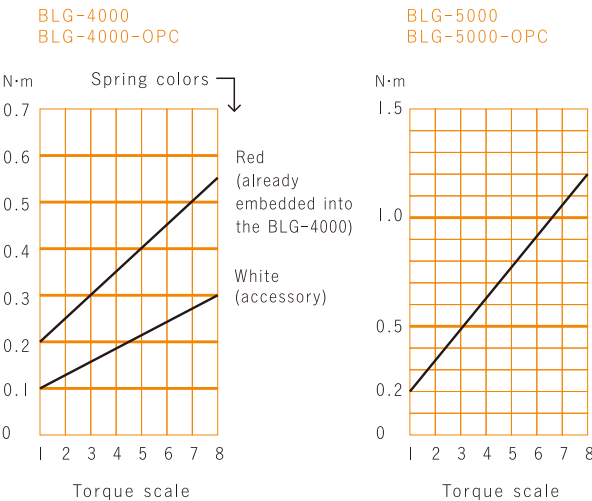
Model name	A Mouthpiece			B Driver Bits			C Suction attachment	
	Type	Total length	External dimensions	Type (a)	Total length (b)	External dimensions	Standard	Anti-static
BLG-4000	F3	18mm		Hios H4 (Φ4)	60mm		BLGQ4-SET	
BLG-5000	F3	18mm		Hios H4 (Φ4)	40mm		BLQ5-SET	BLQ5-SET-ESD
				60mm	BLQ5N-SET	BLQ5N-SET-ESD		

Specifications of screwdriver

Model		BLG-4000		BLG-5000		
		BLG-4000-OPC		BLG-5000-OPC		
Start system		Lever Start		Two-way Start(switchable)		
Output torque range	N·m	0.1-0.55		0.2-1.2		
	lbf·in	0.9-4.8		1.7-10		
	(kgf·cm)	(1-5.5)		(2-12)		
Torque adjusting		Stepless adjustment		Stepless adjustment		
Unloaded rotation speed (r.p.m.) +/-10%	HI	1.000		1.000		
	LOW	690		690		
Screw size (mm)	Machine screw	1.4-2.6		2.0-3.0		
	Tapping screw	1.4-2.3		2.0-3.0		
Bit type	HIOS Shank	H4		H4		
	Hexagonal shank	1/4HEX		H5 & 5HEX or 1/4HEX		
Compatible power supply		T-30BL			—	
		T-70BL				
Accessories	HIOS Shank bit (1pc each)	H4	+ #1 (Φ2.5×40mm) + #2 (Φ4.0×40mm)		+ #1 (Φ4.0×40mm) + #2 (Φ4.0×40mm)	
	Hexagonal shank bit (1pc each)	1/4HEX	+ #1 (5.0×50mm) + #2 (5.0×50mm) — (5.0×50mm)		+ #1 (5.0×50mm) + #2 (5.0×50mm) — (5.0×50mm)	
	Torque Spring		White spring			
	Cord length (m)	BLG	1.5m(5P)		1.5m(5P)	
		BLG-OPC	2m(6P)		2m(6P)	
HEX L -wrench		WAF 5mm 1 pc				

Note: If you would like to order hexagonal shank (special order), no bit would be attached. Please purchase standard measure bit in the markets. The power supply CLT-30 * and CLT-60 are compatible with BLG except BLG-OPC Series. (* CLT-30 is not compatible with BLG-5000.)

Torque output (at HI input)



* For adjusting torque of BLG-4000, two types of torque springs are available. The red one is for large torque (already embedded into the BLG-4000) and the white one is for small torque (accessory). Please select a suitable one for your work.