Brushless®Screwdriver
Screw Counter / Pulse Counter
BLG-ZERO1 BLG-ZERO1 Series
(DC Type)

Anyone can be a skilled craftsman in Just 30 Seconds.

- Direct teaching makes it easy to configure settings.
- The pulse of the motor is counted, enabling real time detection of screw fastening errors with a high degree of accuracy.
- Errors such as mixing of wrong types of screws, unseated screws, cam out, stripped screw holes, or parts caught in screws can be detected.
- It displays the remaining number of screws to fasten every time a screw is fastened.

Lever Start Type

Unit : mm

BLG-4000ZERO1

RoHS 10 CE CCC*

46
206
Ø32.7
Weight：370g

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

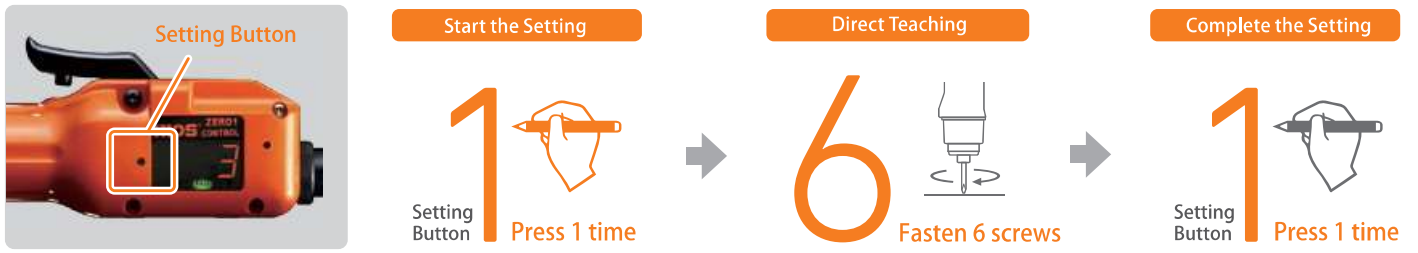## Two-way Start System

Unit : mm

BLG-5000ZERO1

RoHS 10 CE CCC*

46
235
(WD cut shape)
Max:Ø38
Min: Ø32
Weight：425g

Hi-speed rotation
BLG-5000ZERO1-15

RoHS 10 CE

46
235
(WD cut shape)
Max:Ø38
Min: Ø32
Weight：425g

Hi-speed rotation
BLG-5000ZERO1-18

RoHS 10 CE

46
235
(WD cut shape)
Max:Ø38
Min: Ø32
Weight：425g

Hi-torque
BLG-5000ZERO1-HT

RoHS 10 CE

46
235
(WD cut shape)
Max:Ø38
Min: Ø32
Weight：425g

BLG-ZER01 Series Specifications

Model name		BLG-4000ZERO1	BLG-5000ZERO1	BLG-5000ZERO1-15	BLG-5000ZERO1-18	BLG-5000ZERO1-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	Stepless Adjustment
Unloaded Rotation Speed (r.p.m) ±10%	HI	1.000	1.000	1.500	1.800	730
	LOW	690	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 (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				
	Cord length (m)	2m(6P)	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	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.

The 3-step procedure of "**1-6-1**" makes it easy to configure settings so that the driver itself securely guards against improper screw fastening.

Setting Button

Start the Setting	Direct Teaching	Complete the Setting
1 Setting Button **Press 1 time**	**6** **Fasten 6 screws**	**1** Setting Button **Press 1 time**

Detectable errors

7 Pitch	9 Pitch	Long	Short								
Difference in pitch		Difference in length		Seized parts	Missing parts	Unseated Screw	Cross threaded	Cam out	Stripped Screw hole	Missing Screw	Recessed Screw

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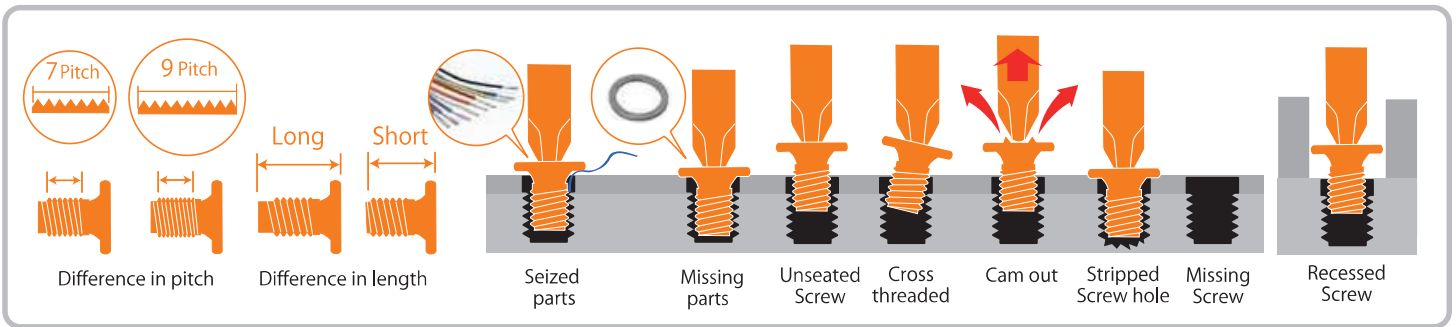
Accessories   BLG-BZERO1 Accessories

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-4000ZERO1	F3-Standard 18mm	H4 60mm	BLGQ4-SET
BLG-5000ZERO1	F3-Standard 18mm	H4 40mm	BLQ5-SET／BLQ5-SET-ESD※
BLG-5000ZERO1-15		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-5000ZERO1-18)

Vertical Screwdriver Operating Stand
VMS-40／VMS-50

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

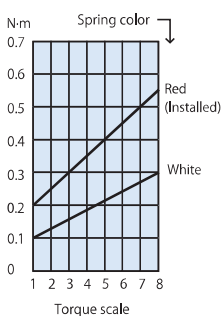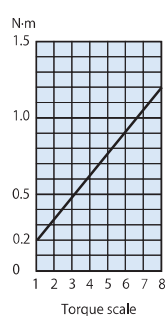**RoHS** **10**

Compatible screwdrivers:

BLG-4000ZERO1
BLG-5000ZERO1 Series   ▶ See P.46 for details.
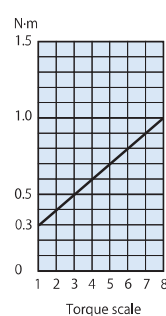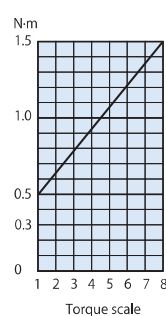

Output torque guide (HI input)

BLG-4000ZERO1

N·m
Spring color
0.7
0.6
0.5   Red (Installed)
0.4
0.3   White
0.2
0.1
0
1 2 3 4 5 6 7 8
Torque scale

BLG-5000ZERO1

N·m
1.5

1.0

0.5
0.2
0
1 2 3 4 5 6 7 8
Torque scale

BLG-5000ZERO1-15

N·m
1.5

1.0

0.5
0.3
0
1 2 3 4 5 6 7 8
Torque scale

BLG-5000ZERO1-18

N·m
1.5

1.0

0.5
0.3
0
1 2 3 4 5 6 7 8
Torque scale

BLG-5000ZERO1-HT

N·m
2.0

1.5

1.0

0.5

1 2 3 4 5 6 7 8
Torque scale
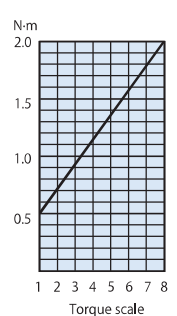
*There are two types of spring for torque adjustment: for HI (originally fixed to the unit) and for Low (accessory). Use one of them depending on your operating conditions.