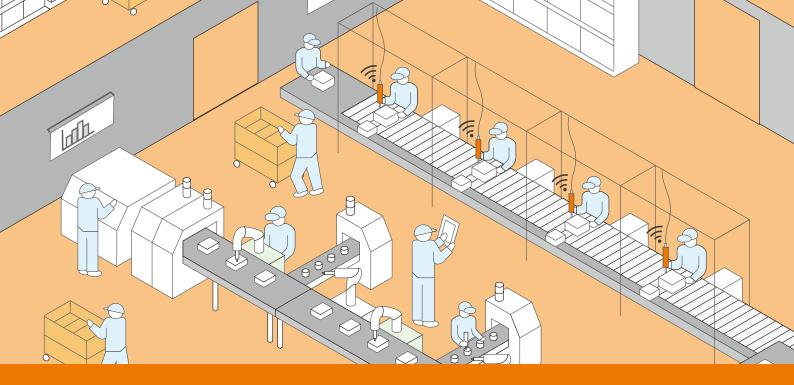


BLG-BC2 Series

Screw Counter / Built-in Pulse System

熟 № ® 練工





Do you have anxiety when fastening screws?





JUKUREN eliminates all anxieties about screw fastening.

Error detection and data management of screw fastening are all automated.

Conventional screw fastening work often relies on the experience and intuition of the worker, who determines if the screw has been fastened correctly. Thus, the quality depends on the skills of the individual. To keep consistent fastening quality regardless who does it, automation and digitalization is the most effective way, and it becomes possible with this JUKUREN. By reading the signals transmitted from the motor and checking the number of pulses, the screwdriver itself judges the screw's seating condition that is barely detected with a visual check. As a result, anyone can efficiently perform proper screw fastening.





Instantly detects errors that are difficult to detect visually!













type of screv









3

BLG-BC2 Series Lineup



SPECIFICATIONS

Star	't type			Le	ver			Push and Le	ver		Push
Мо	del			BLG-4000BC2	BLG-4000BC2-LT	BLG-5000BC2	BLG-5000BC2-15	BLG-5000BC2-18	BLG-5000BC2-HT	BLG-7000BC2	BLG-7000BC2-GT
Out	put to	que rar	nge (N·m)	0.1 - 0.55	0.03 - 0.2	0.2 - 1.2	0.3 - 1.0	0.5 - 1.5	0.5 - 2.0	0.7 - 2.8	2.0 - 5.0
		rotatior % [HI / I		1,000) / 690	1,000 / 690	1,500 / 1,000	1,800 / 1,200	730/—	1,200 / 800	600/—
Scre	ew size	Ma	chine screw	1.4 - 2.6	1.0 - 2.3	2.0 - 3.0	2.3 - 3.0	2.3 - 3.0	2.0 - 4.0	2.6 - 5.0	4.0 - 6.0
(mr	n)	Тар	oping screw	1.4 - 2.3	1.0 - 2.0	2.0 - 3.0	2.0 - 2.6	2.0 - 2.6	2.0 - 3.0	2.6 - 4.0	4.0 - 6.0
Out	er	Grip	o diameter (Max)	Ø	32.7	Ø	38	Ø	38	Ø40	Ø40 (-HANDLE) Ø44 (-S)
dim	ension	s Ler	ngth (mm)	206	207	2	35	2:	35	238	242.7
Wei	ght (g)			370	312	4	25	42	25	670	1000 (-HANDLE) 1915 (-S)
		T-4	5BL	0	0	0	○*	_	_★	_	—
Pov	/er sup	oly T-7	OBL	0	0	0	○*			○*	_
		T-8	OBL	0	0	0			★	○*	
D:+	drive	Sta	ndard	F	14	F	14	H5 a	nd 5HEX (compat	ible)	1/4HEX
	ection	Spe	ecial Order	1/4HEX	—		(compatible) or HEX		1/4HEX		—
	명	HIOS	H4	+#0 (⊘2.5×40) +#1 (⊘4.0×40)	+#0 (Ø2.0×40) +#0 (Ø2.5×40)		4.0×40) 4.0×40)				—
A	one	Shank	H5	_	_		5.0×60) 5.0×60)		+#1 (⊘5.0×60) +#2 (⊘5.0×60)		_
Accessories		HEX Shank	1/4HEX	+#1 (Ø5.0×50) +#2 (Ø5.0×50) – (Ø5.0×50)	_			+#1 (Ø5.0×50) +#2 (Ø5.0×50) - (Ø5.0×50)			+ # 2 (Ø7.0×100mm) + # 3 (Ø7.0×100mm)
s	Torqu	ie adjus	tment spring	White	Yellow	-			_		_
	Cord	length		2m	(6P)	2m	(6P)		2m (6P)		2m (6P)
	L-sha	ped HE	K wrench	_	_	Width across	flat: 5mm, 1 pc	Widt	h across flat: 5mm,	1 рс	_
V- ·			HIOS Shank		D		D		٠		—
vari	ations	BLGQ	HEX Shank	-	_	-	_		—		—

● For the models with the ★ mark, use with output power HI (DC 30V). With LOW (DC 20V) output, the screwdriver features may not be fully performed.

Power supply P.6 __ International Standard Certifications P.9 __





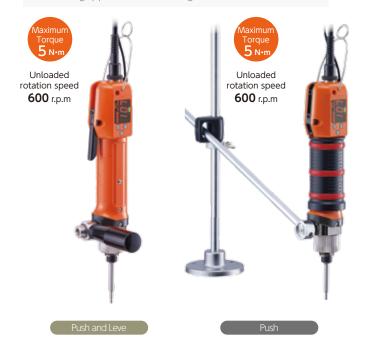
NEW HI Torque

BLG-7000BC2-GT-HANDLE Grip Type

BLG-7000BC2-GT-S

Stand Typ

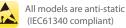
Stronger, faster, safer and higher precision torque control. Equipped with a slide arm and a handle as standard for minimum impact and excellent operability. Eliminates fatigue from work and enables highly precise screw fastening.

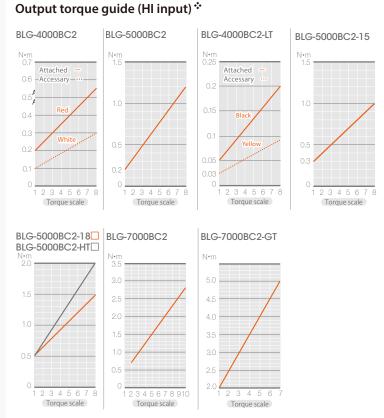


A range of torque types, from low to high, applicable to various production lines

Main features

- Error detection (Number of motor rotations fromstart of fastening to seating of a screw) Direct teaching
- Screw fastening count (1 to 99)
- Error warning (sound and lamp)
- Data I/O port (RS232C)
- Count error prevention (for retightening)
- Reverse rotation count up
- Maintenance reminder (accumulated total count)





* The colors in the chart indicate the spring colors.

For some models, two torque adjustment springs, for HI torque (installed) and for LOW torque (accessary), are included. Please use a suitable one for your operation

APPLICABLE DRIVERS Suction



ACCESSORIES

Stand for Vertical Operations VMS-40 / VMS-50

Keeps the screwdriver in a vertical position, allowing accurate screw fastening.

BI G-4000BC2



Cord for External I/O BLG-BC2-3012

The plug design has renewed to enhance robustness by a one-touch lock.





BLG-BC2 Related Products

RELATED PRODUCTS

External I/O Box BLG-IO-Pro1



By connecting this box to the screwdriver, you can control screw fastening easily such as error detection.

* Please separately purchase an external I / O cable.



Wireless unit IOT-101 (回 練工)

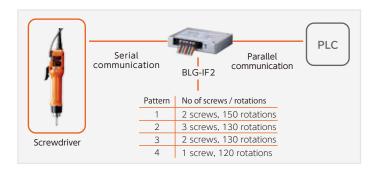
The IoT extension unit IoT-101, which makes BLG-BC2 smarter, consolidates screw fastening data in the cloud. It visualizes the operational status at work sites, enabling data capturing and analysis in real-time even from remote locations.

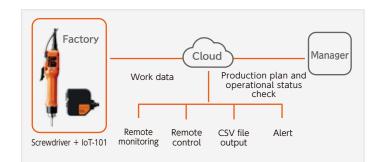


Serial-to-parallel Conversion Box BLG-IF2



The communication mode with an external device such as a PLC can be converted from serial to parallel. Up to 4 setting patterns including the number of screws and pulses can be saved and switched on the PLC.





Please contact us for this product.

POWER SUPPLY



T-70BL (for one screwdriver)





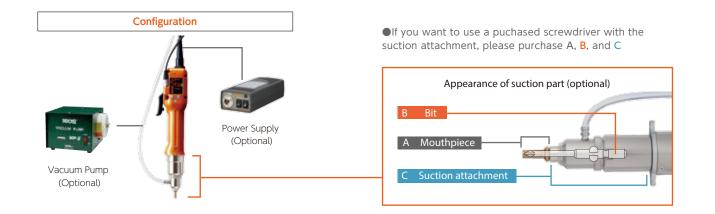


SPECIFICATIONS

Model	T-45BL	T-70BL	T-80BL
Primary input power supply	AC100-240V (47-63Hz)	AC100-240V (47-63Hz)	AC100-240V (47-63Hz)
Secondary output voltage	HI (2): DC30V, LOW (1): DC20V (2-step switch)	HI (2): DC30V, LOW (1): DC20V (2-step switch)	HI (2): DC30V, LOW (1): DC20V (2-step switch)
Outer dimensions (mm)	71.5 (W)×146 (D)×42.6 (H)	88 (W)×210 (D)×52 (H)	116 (W)×210 (D)×55 (H)
Weight (g)	320	685	1,370
Accessories	Power supply cord 1.8m(1pc),flat2p conversion plug (1pc) (only for 100V), mounting hardware, mounting screws	Power supply cord 1.8m(1pc),flat2p conversion plug (1pc) (only for 100V), mounting hardware, mounting screws	Power supply cord 1.8m(1pc),flat2p conversion plug (1pc) (only for 100V), mounting hardware, mounting screws
Plug type	A / A-2 / A-3 / C / BF / S	A / A-2 / A-3 / C / BF / S	A / A-2 / A-3 / C / BF / S
Applicable screwdrivers	4000BC2、4000BC2-LT、5000BC2、 5000BC2-15、5000BC2-HT	4000BC2、4000BC2-LT、5000BC2、 5000BC2-15、5000BC2-18、 5000BC2-HT、7000BC2	Compatible with all models

Accessories for Suction Screwdrivers

Suction screwdrivers suck screws by negative pressure, eliminating the need to pick up screws. Nonferrous metal screws such as stainless steel ones can also be sucked. In addition, it can remove dust generated during a screw fastening process. Suction parts vary in size depending on the model. Please check the accessory chart when purchasing.



Compatible accessory chart

		Α	В			С		
Category	Model	Mouthpiece	Applicable bit		S	uction attachment		
		mouthpiece		Standard	ESD		Appearance	
	BLG-4000BC2	F3 Std.18mm	H4 60mm	BLGQ4-SET				
	BLG-4000BC2-LT	F3 Std.18mm	H4 60mm	CLQ2-SET	CLQ2-SET-ESD	1	Low	100
BLG-BC2	BLG-5000BC2	F3 Std.18mm	H4 40mm	BLQ5-SET	BLQ5-SET-ESD	A REAL PROPERTY AND	- Auguster Aug	Contrast in
Series	BLG-5000BC2-15	1.5.5td.10mm	H4 60mm	BLQ5N-SET	BLQ5N-SET-ESD	BLGQ4-SET	CLQ2-SET	BLQ5-SET
	BLG-5000BC2-18 BLG-5000BC2-HT		Please contact the	e HIOS distributor.				
	BLG-7000-BC2	F6 Std.31mm	H5 80mm	BLQ7-SET	BLQ7-SET-ESD	BLQ5N-SET	BLQ7-SET	
*BLG-7000BC2-0	T系はサクションアタッチ	メントに非対応。						

料訳依頼

RELATED PRODUCTS

For suction-type screwdrivers

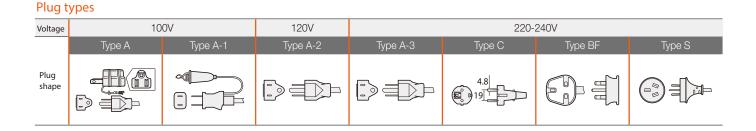
Vacuum Pump

In combination with a suction-type screwdriver, it generates negative pressure to have a screw sucked at the tip of the bit.



SPECIFICATIONS

Model	VP-3
Primary input power	AC100V、120V、220V-240V±5%
Max. power consumption	39W±20%
Ultimate vacuum	-350mm Hg
Air capacity	25L/min
Dimensions (mm)	200×188×142 (H)
Weight (kg)	3.8
Plug type	A-1/A-2/A-3/C/BF/S



Accessories for Suction Screwdrivers

A Mouthpiece	Order code	r	outhpie eferenc nsions	e		Screw head shape and screv	v size
F3 Std. 18mm (Total length)		D	d	d1	JIS plus (machine screw)	JCIS plus	JIS minus (machine screw)
	F3-00	7.5	-	_	Custom screw	Custom screw	Custom screw
	F3-01	3.3	2.1	2.1		Class 1 M1.4	
	F3-02	3.6	2.6	2.6		Class 1 M1.7 / Class 3 M1.4	
Crear continued view of a mouth size	F3-03	4.1	3.1	3.1		Class 1 M2.0 / Class 3 M1.7	
Cross-sectional view of a mouthpiece	F3-04	4.6	3.6	3.6	Pan, round M2.0	Class 1 M2.3 / Class 3 M2.0	Pan, round, flat M2.0 / countersunk, round countersunk M1.7
Light chamfering	F3-05	5.1	4.1	4.1	Pan, round M2.3 / countersunk, round countersunk M2.0	Class 1 M2.6 / Class 3 M2.3	countersunk, round countersunk M2.0
	F3-06	5.8	4.3	4.5	Pan, round M2.6	Class 3 M2.6	BindingM2.0
	F3-07	7.0	4.3	5.5	Pan, round M3.0 / Binding M2.6		Pan, round, flat M3.0 / Binding M2.6
	F3-10	5.5	4.3	4.3	Binding M2.0		Pan, round, flat M2.3
	F3-11	6.0	4.0	4.9	Binding M2.3		Binding M2.3
1 1.8	F3-15	3.8	2.8	2.8			Pan, round, flat M1.4
	F3-16	3.5	2.5	2.5			countersunk, round countersunk, M1.2
	F3-17	4.3	3.3	3.3			Pan, round, flat M1.7
	For differ			, please	contact the HIOS distributor. 3 mouthp 	ieces per pack.	

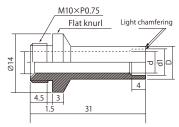
Ø4 ↓ ↓ <th>H4</th> <th>Screw recess</th> <th>Screw size</th> <th>Bit</th> <th>Order code</th>	H4	Screw recess	Screw size	Bit	Order code
H4 Mile Mile BP-H4-#0-1.8-40(S)(60)(80) BP418040(0/4 ↓ <td>+ 0</td> <td>JIS</td> <td>M2.0-M2.6</td> <td>BP-H4-#1-3.0-40(60)(80)</td> <td>BP4130040(60)(80)</td>	+ 0	JIS	M2.0-M2.6	BP-H4-#1-3.0-40(60)(80)	BP4130040(60)(80)
H4 plus M1.4-M1.7 BP-H4-#0-2.0-40(60)(80) BP4020040 ∅4 ↓ ↓		plus	M3.0	BP-H4-#2-4.0-40(60)(80)	BP4240040(60)(80)
M2.0-M2.6 BP-H4.#0-2.5-40(60)(80) BP4025040 Ø4 60mm JJS M1.2 BS-H4-2.0-40(60)(80) B5420040(6) M1.4 BS-H4-2.5-40(60)(80) B5425040(6) M1.4 BS-H4-2.0-40(6)(80) B5425040(6) M1.7-M2.0 BS-H4-3.0-40(60)(80) B5430040(6) B5430040(6) B5430040(6)	1 40 mm	JCIS	M1.4 Class 1	BP-H4-#0-1.8-40(S)(60)(80)	BP4018040(S)(60)(80)
Ø4 Image: March of the state o	H4	plus	M1.4-M1.7	BP-H4-#0-2.0-40(60)(80)	BP4020040(60)(80)
Bit Bit <td></td> <td></td> <td>M2.0-M2.6</td> <td>BP-H4-#0-2.5-40(60)(80)</td> <td>BP4025040(60)(80)</td>			M2.0-M2.6	BP-H4-#0-2.5-40(60)(80)	BP4025040(60)(80)
60mm minus M1.4 BS-H4-2.5-40(60)(80) BS425040(6 M1.7-M2.0 BS-H4-3.0-40(60)(80) BS43040(6		шс	M1.2	BS-H4-2.0-40(60)(80)	BS420040(60)(80)
M1.7-M2.0 BS-H4-3.0-40(60)(80) BS430040(6	↑ <u>60</u> mm		M1.4	BS-H4-2.5-40(60)(80)	BS425040(60)(80)
	ц.,	minus	M1.7-M2.0	BS-H4-3.0-40(60)(80)	BS430040(60)(80)
M2.3-M3.0 BS-H4-4.0-40(60)(80) BS440040(6	Π4		M2.3-M3.0	BS-H4-4.0-40(60)(80)	BS440040(60)(80)

The material of the mouthpiece is BS only.

Α Mouthpiece F6 Std. 31mm (Total length) Cross-sectional view of mouthpiece A M10×P0.75 Light chamfering Flat knurl Ø 14 d2 4 12 3 1.5 1.6 31

Dra

Cross-sectional view of mouthpiece B



The material of a mouthpiece is BS (brass) only.

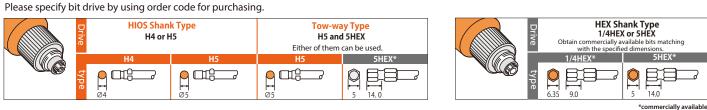
wing	Order	Mouth	npiece r	eferenc (mm)	e dime	nsions	Screw head shap	e and screw size
5	code	D	D1	d	d1	d2	JIS plus (Machine screw)	JIS minus (Machine screw)
В	F6-00	8.0		-	_		Custom screw	Custom screw
	F6-01	4.6	7.0	3.5	3.6	5.5	Pan, round M2.0	Pan, round M2.0
A	F6-02	5.1	7.0	3.5	4.1	5.5	Pan, round M2.3 / countersunk, round countersunk M2.0	Pan, round M2.3
	F6-03	5.8	7.0	3.5	4.5	5.5	Pan, round M2.6 / Binding, truss M2.0	Binding, truss M2.0
	F6-04	7.0	—	5.5	5.5	—	Pan, round M3.0 / Binding M2.6	Pan, round M3.0 / Binding M2.6
В	F6-05	7.5	—	5.5	6.0	—	Cuntersunk, round countersunk M3.0	Truss M2.6
	F6-06	8.5	—	5.5	7.0	—	Pan, round M4.0 / truss M3.0	Pan, round M4.0 / truss M3.0
A	F6-09	6.5	7.0	3.5	5.2	5.5	Cuntersunk, round countersunk M2.6	Truss M2.3
	F6-10	14.0		_	_		Custom screw	Custom screw
	F6-11	7.7	—	5.5	6.3	—	Binding M3.0	Binding M3.0
В	F6-13	9.7		5.5	8.3		Binding M4.0	
	F6-16*	9.4		5.5	8.0		Cuntersunk, round countersunk M4.0	
	F6-22*	9.7		7.5	8.3			Binding M4.0

* Sp

B Applicable bit				
H5	Screw recess	Screw size	Bit	Order code
	IIC also	M2.0-M2.6	BP-H5-#1-3.0×80	BP5130080
Ø5 <u>○</u> <u>□</u> □ □ □ □ 30 mm	JIS plus	M3.0-M5.0	BP-H5-#2-5.0×80	BP5250080
oonini	IIC minut	M2.0-M2.3	BS-H5-3.0×80	BS530080
	JIS minus	M3.0-M4.0	BS-H5-5.0×80	BS550080
H5	Screw recess	Screw size	Bit	Order code
	IIC also	M2.0-M2.6	BP-H5-#1-3.0-100	BP5130100
	JIS plus	M3.0-M5.0	BP-H5-#2-5.0-100	BP5250100
roonin	JIS minus	M3.0-M4.0	BS-H5-5.0-100	BS550100
	Truss: For M3.0,	use +#1.		

Order Code / International Standard Certifications

Order Codes



If you wish to purchase a suction part, please select the screwdriver and the suction unit (suction attachment, mouthpiece and bit) on P. 7-P8 before ordering.

Order Code

T-45BL

T-45BL-UL

T-45BL-TH

T-45BL-CN

T-70BL-UL

T-70BL-TH

T-70BL-EU-HK

T-70BL-UK-SP

T-70BL-CN

T-80BL-UL

T-80BL-TH

T-80BL-EU-HK

T-80BL-UK-SP

T-80BL-CN

T-80BL

T-70BL

T-45BL-EU-HK

T-45BL-UK-SP

Plua

A (100V)

A2 (120V)

A3 (220-240V)

C (220-240V)

BF (220-240V)

S (220-240V)

A3 (220-240V)

C (220-240V)

BF (220-240V)

S (220-240V)

A3 (220-240V)

C (220-240V)

BF (220-240V)

S (220-240V)

A (100V)

A2 (120V)

A (100V)

A2 (120V)

BLG-BC2 Varia

r Supply Model

Q Suction

T-45BI

T-70BI

T-80BI

BLG-BC2 Series		
Model	Order Code	Bit Drive
Lever Start	BI G-4000BC2	H4
BLG-4000BC2	BLG-40008C2	1/4HFX
		.,
BLG-4000BC2- LT	BLG-4000BC2-LT	H4
Lever Start and Push-	to-Start	
	BLG-5000BC2	H4
	BLG-5000H5BC2	H5and 5HEX *1
BLG-5000BC2	BLG-5000X5BC2	H5and 5HEX *2
	BLG-5000XBC2	1/4HEX
	BLG-5000BC2-15	H4
	BLG-5000H5BC2-15	H5and 5HEX *1
BLG-5000BC2-15	BLG-5000X5BC2-15	H5and 5HEX *2
	BLG-5000XBC2-15	1/4HEX
	BLG-5000BC2-18	H5and 5HEX*1
BLG-5000BC2-18	BLG-5000X5BC2-18	H5and 5HEX *2
	BLG-5000XBC2-18	1/4HEX
	BLG-5000BC2-HT	H5and 5HEX*1
BLG-5000BC2-HT	BLG-5000XBC2-HT	1/4HEX
	BLG-7000BC2	H5and 5HEX *1
BLG-7000BC2	BLG-7000XBC2	1/4HEX
BLG-7000BC2-GT (Grip Type)	BLG-7000XBC2- GT-HANDLE	1/4HEX
Push Start		
BLG-7000BC2-GT (Stand Type)	BLG-7000XBC2-GT-S	1/4HEX
★1 HIOS Shank H5 com	es with the product as a	standard accessary.

★2 No bit comes as a standard accessary

International Standard Certifications

[Cautions]

Diffrent order code system applies to China CQC mark certified products. Please contact the HIOS distributor before ordering. For the GB Safety Standard(UKCA), please contact the HIOS distributor

1	CE	European Safety StandardCE Compliant Products
2	CQC	China Quality Certification CQC Compliant Products
3	CCC	China Compulsory Certification CQC Compliant Products
4	UL cUL	US Canada Safety Standards UL / cUL Compliant Products
5	ESD	Anti-electrostatic IEC61340 compliant products
6	ESD	Supporting anti-electrostatic (surface resistance: 3 x 1012 Ω or less)
7	RoHS	RoHS compliant products
8	10	China RoHS compliant products

Model	1	2	3	4	5	6	7	8
BLG-BC2 Series								
BLG-4000BC2	0	0	—	—	0	—	0	0
BLG-4000BC2-LT	0	0	-	—	0	-	0	0
BLG-5000BC2	0	$^{\circ}$	—	—	0	-	0	0
BLG-5000BC2-15	0	0	-	—	0	-	0	0
BLG-5000BC2-18	0	0	—	—	0	-	0	0
BLG-5000BC2-HT	0	0	-	-	0	-	0	0
BLG-7000BC2	0	0	—	—	0	-	0	0
BLG-7000BC2-GT	0	-	-	-	-	-	-	-
BLG-IO-Pro1	-	-	-	-	-	0	0	0

Model	1	2	3	4	5	6	7	8
Power Supply DC Sc	rew	driv	ers					
T-45BL	0	—	0	0	0	—	0	0
T-70BL	0	-	0	0	0	-	0	0
T-80BL	0	-	0	0	-	0	0	0
T-80BL Vertical Screwdriver	O Op	erat	o ting		— anc	0 Is	0	0
	0 0p	erat	o ting —		anc	0 s -	0	0
Vertical Screwdriver	Op 0p	erat	o ting —		and	0 s -	0 0 0	0 0 0
Vertical Screwdriver VMS-40	0 0p	erat	o ting			0 s -	0	0

Related videos

You can watch videos showing how to use HIOS screwdrivers and examples of fastening errors detected in detail on our website. Please check them out.









9

Peripheral

Order Code	Order Code	
VP-3		A(100V)
or External I/O		
BLG-BC2-3012		One-touch Type
BLG-BC2-3010		Phone Plug Type
BLG-IO-P ro1		_
Conversion Box		
BLG-IF2		—
Order Code		Applicable Mod
ver Operating Sta	ands	5
VMS-40	BLG-4000-BC2 BLG-5000BC2 Series (Except BL-7000BC2)	
	for External I/O BLG-BC2-3012 BLG-BC2-3010 BLG-IO-P ro1 Conversion Box BLG-IF2 Order Code	for External I/O BLG-BC2-3012 BLG-BC2-3010 BLG-IC-P ro1 Conversion Box BLG-IF2 Order Code ver Operating Stands VMS-40 BL

Model	Holder model
BLG-4000-BC2 BLG-5000-BC2 Series	VMS-0900-BLG45

HIOS Inc.

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Please note the specifications and appearance may change as improvements are made.
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Cautions for Safety

