

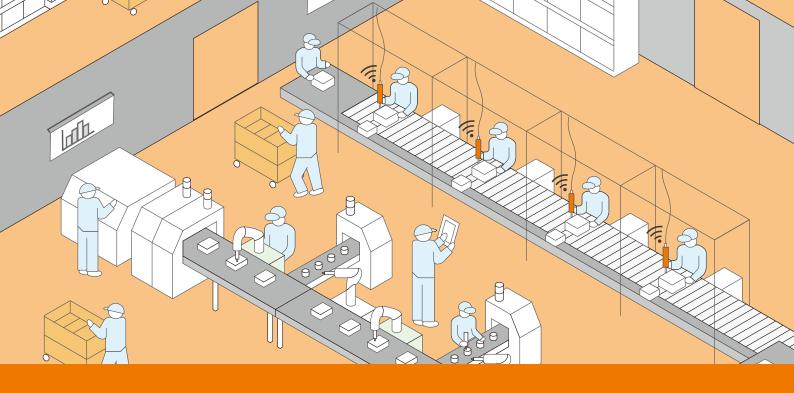
熟 JUKU 線工

Brushless®Screwdriver

Screw Counter/Built-in Pulse System

BLG-BC2 Series





Do you have anxiety when fastening screws?

















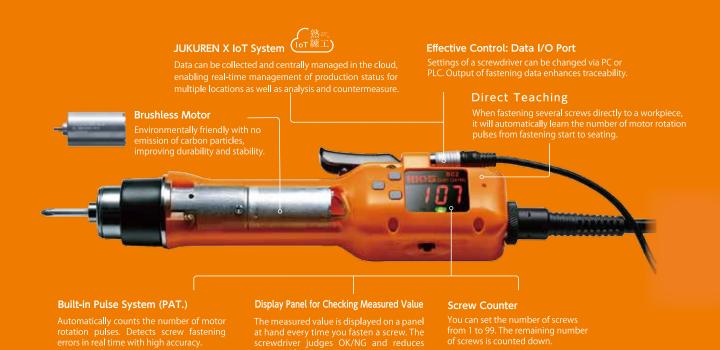




JUKUREN eliminates all anxieties about screw fastening.

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!



BLG-BC2 Series Lineup









BLG-7000BC2

SPECIFICATIONS

Start type				Le	ver			Push				
Model		BLG-4000BC2	BLG-4000BC2-LT	BLG-5000BC2	BLG-5000BC2-15	BLG-5000BC2-18	BLG-5000BC2-HT	BLG-7000BC2	BLG-7000BC2-GT			
Output torque range (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			
Unloaded rotation speed (r.p.m)±10% [HI / LOW]		1,000 / 690		1,000 / 690	1,500 / 1,000	1,800 / 1,200	730 /—	1,200 / 800	600/—			
Scre	ew size	e N	Machine 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	
(mn	n)	Т	apping 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	G	Grip diameter (Max)	Ø3	32.7	Ø	38	Ø	38	⊘40	Ø40 (-HANDLE) Ø44 (-S)	
dim	ensio	ns L	.ength (mm)	206	207	2:	35	2:	35	238	242.7	
Wei	ght (g	j)		370	312	4:	25	42	25	670	1000 (-HANDLE) 1915 (-S)	
		Т	-45BL	0	0	0	○*	_	○*	_	_	
Pow	er sup	oply T	-70BL	0	0	0	○*	○*	○*	○*	_	
		Т	-80BL	0	0	0	○*	○*	○*	○*	○*	
Di+ a	drive	S	standard	H4		H4		H5 a	ble)	1/4HEX		
	ction	S	pecial Order	1/4HEX	_	H5 and 5HEX (compatible) or 1/4HEX		1/4HEX			_	
	Bit	HIOS	H4	+#0 (⊘2.5×40) +#1 (⊘4.0×40)	+#0 (⊘2.0×40) +#0 (⊘2.5×40)	+#1 (⊘4.0×40) +#2 (⊘4.0×40)		_			_	
₽	(one	Shan	k H5	_	<u>-</u>		+#1 (⊘5.0×60) +#2 (⊘5.0×60)		+#1 (⊘5.0×60) +#2 (⊘5.0×60)			
Accessories	each)	HEX Shan	k 1/4HEX	+#1 (⊘5.0×50) +#2 (⊘5.0×50) - (⊘5.0×50)	_			+#1 (Ø5.0×50) +#2 (Ø5.0×50) - (Ø5.0×50)			+#2(⊘7.0×100mm) +#3(⊘7.0×100mm)	
S	Torq	ue adj	ustment spring	White	Yellow	-	_		_		_	
	Cord	l lengtl	h	2m	(6P)	2m	(6P)		2m (6P)		2m (6P)	
	L-shape		IEX wrench		_	Width across flat: 5mm, 1 pc		Width across flat: 5mm, 1 pc			_	
		DI C	HIOS Shank						•		_	
Vari	ations	BLG	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.



NEW

HI Torque

BLG-7000BC2-GT-HANDLE

Grip Type

NEW HI Torque

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



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

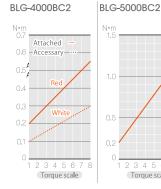
Main features

- 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)

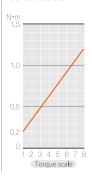


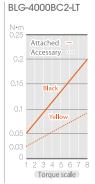
All models are anti-static (IEC61340 compliant)

Output torque guide (HI input) &

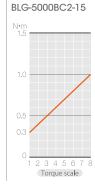


BLG-4000BC2





BLG-7000BC2-GT



BLG-5000BC2-18 BLG-7000BC2 BLG-5000BC2-HT□ Torque scale



12345678910

APPLICABLE DRIVERS Suction **BLGQ**



ACCESSORIES

Stand for Vertical Operations VMS-40 / VMS-50

Keeps the screwdriver in a vertical position, allowing accurate screw



Cord for External I/O BLG-BC2-3012

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



[❖] 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

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.





Serial-to-parallel Conversion Box BLG-IF2

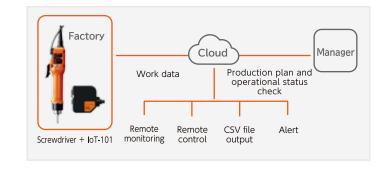
The communication mode with an external device such as a PLC can be converted from serial to parallel. Up to 4 setting patterns including the number of screws and pulses can be saved and switched on the PLC.





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.





Please contact us for this product.

POWER SUPPLY

T-45BL (for one screwdriver)

T-70BL (for one screwdriver)

T-80BL (for one screwdriver)





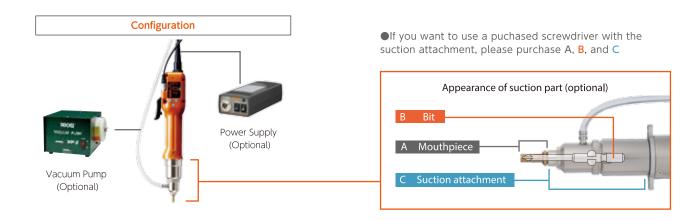


SPECIFICATIONS

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	C						
Category	Model	Mouthpiece	Applicable bit	Suction attachment						
		Mouthpiece	Applicable bit	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	1	- Charles		
BLG-BC2	BLG-5000BC2	F3 Std.18mm	H4 40mm	BLQ5-SET	BLQ5-SET-ESD	-	The same of the sa	TO FOR		
Series	BLG-5000BC2-15	1 5 5(4.10111111	H4 60mm	BLQ5N-SET	BLQ5N-SET-ESD	BLGQ4-SET	CLQ2-SET	BLQ5-SET		
	BLG-5000BC2-18 BLG-5000BC2-HT		Please contact th	e HIOS distributor.						
	BLG-7000-BC2	F6 Std.31mm	H5 80mm	BLQ7-SET	BLQ7-SET-ESD	BLQ5N-SET	BLQ7-SET			

^{*} Suction attachment cannot be equipped on 'BLG-7000BC2-GT'.

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					

Plug types

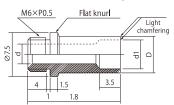
	71								
Voltage	100V		120V	120V 220-240V					
	Type A	Type A-1	Type A-2	Type A-3	Type C	Type BF	Type S		
Plug shape					4.8				

Accessories for Suction Screwdrivers

A Mouthpiece

F3 Std. 18mm (Total length)

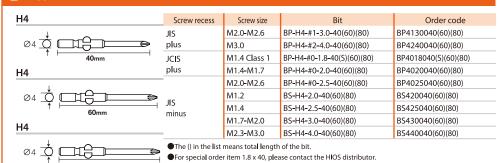
Cross-sectional view of a mouthpiece



Order code	Mouthpiece reference dimensions (mm)		e	Screw head shape and screw size					
	D) d		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				
F3-03	4.1	3.1	3.1		Class 1 M2.0 / Class 3 M1.7				
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			
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			
F3-15	3.8	2.8	2.8			Pan, round, flat M1.4			
F3-16	3.5	5 2.5 2.5				countersunk, round countersunk, M1.2			
F3-17	4.3	3.3	3.3			Pan, round, flat M1.7			

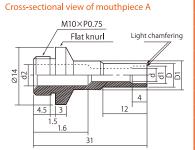
● For different specifications, please contact the HIOS distributor. ● 3 mouthpieces per pack.

B Applicable bit

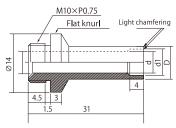


The material of the mouthpiece is BS (brass) only.

A Mouthpiece F6 Std. 31mm (Total length)



Cross-sectional view of mouthpiece B



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

Drawing	Order	Mouth	npiece r	eferenc (mm)	e dime	nsions	Screw head shape and screw size		
	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	
Α	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	-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	<u> </u>	5.5	6.0	<u> </u>	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	
Α	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	

* Special order lacktriangle For different specifications, please contact the HIOS distributor. lacktriangle 3 mouthpieces per pack.

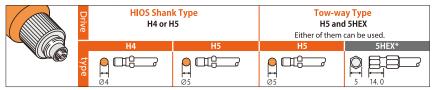
B Applicable bit

нэ	Screw recess	Screw size	Bit	Order code
Ø5 †	JIS plus	M2.0 - M2.6	BP-H5-#1-3.0×80	BP5130080
80mm	Jis pius	M3.0-M5.0	BP-H5-#2-5.0×80	BP5250080
Somm	JIS minus	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
+ •		Screw size M2.0-M2.6	Bit BP-H5-#1-3.0-100	Order code BP5130100
05 Q LLG \$	Screw recess JIS plus			
+ •		M2.0-M2.6	BP-H5-#1-3.0-100	BP5130100

Order Code / International Standard Certifications

ORDER CODES

Please specify bit drive by using order code for purchasing.





BLG-BC2 Series		
Model	Order Code	Bit Drive
Lever Start		
BLG-4000BC2	BLG-4000BC2	H4
BLG-4000B02	BLG-4000XBC2	1/4HEX
BLG-4000BC2- LT	BLG-4000BC2-LT	H4
Lever Start and Push	n-to-Start	
	BLG-5000BC2	H4
BLG-5000BC2	BLG-5000H5BC2	H5and 5HEX★1
DLG-3000B02	BLG-5000X5BC2	H5and 5HEX★2
	BLG-5000XBC2	1/4HEX
	BLG-5000BC2-15	H4
BLG-5000BC2-15	BLG-5000H5BC2-15	H5and 5HEX★1
BLG-5000BG2-15	BLG-5000X5BC2-15	H5and 5HEX★2
	BLG-5000XBC2-15	1/4HEX
	BLG-5000BC2-18	H5and 5HEX★
BLG-5000BC2-18	BLG-5000X5BC2-18	H5and 5HEX★
	BLG-5000XBC2-18	1/4HEX
BLG-5000BC2-HT	BLG-5000BC2-HT	H5and 5HEX★
BLG-3000BC2-FT	BLG-5000XBC2-HT	1/4HEX
BLG-7000BC2	BLG-7000BC2	H5and 5HEX★
DLG-7000BC2	BLG-7000XBC2	1/4HEX
BLG-7000BC2-GT (Grip Type)	BLG-7000XBC2- GT-HANDLE	1/4HEX
Push Start		
BLG-7000BC2-GT	BLG-7000XBC2-GT-S	1/4HEX

BLG-BC2 Va	riations
Q Suction	
	ase a suction part, please select the screwdriver an tion attachment, mouthpiece and bit) on P. 7-P8

Power Supply		
Model	Order Code	Plug
	T-45BL	A (100V)
	T-45BL-UL	A2 (120V)
T-45BL	T-45BL-TH	A3 (220-240V)
1-43BL	T-45BL-EU-HK	C (220-240V)
	T-45BL-UK-SP	BF (220-240V)
	T-45BL-CN	S (220-240V)
	T-70BL	A (100V)
	T-70BL-UL	A2 (120V)
T-70BI	T-70BL-TH	A3 (220-240V)
I-7UBL	T-70BL-EU-HK	C (220-240V)
	T-70BL-UK-SP	BF (220-240V)
	T-70BL-CN	S (220-240V)
	T-80BL	A (100V)
	T-80BL-UL	A2 (120V)
T-80BI	T-80BL-TH	A3 (220-240V)
I-OUDL	T-80BL-EU-HK	C (220-240V)
	T-80BL-UK-SP	BF (220-240V)
	T-80BL-CN	S (220-240V)

				•	
Peripherals					
Model	Orde	er Code		Note	
Vacuum Pump					
VP-3	VP-3			A(100V)	
Dedicated Cable fo	r Extern	al I/O			
BLG-BC2-3012	BLG-BC	2-3012		One-touch Type	
BLG-BC2-3010	BLG-BC	2-3010		Phone Plug Type	
External I/O Box					
BLG-IO-P ro1	BLG-IO	-P ro1		_	
Serial-to-Parallel C	onversi	on Box			
BLG-IF2	BLG-IF2	2		_	
Model	Orde	er Code		Applicable Mod	
Vertical Screwdrive	er Opera	iting Sta	nds		
VMS-40	VMS-40			BLG-4000-BC2	
VMS-50	VMS-50	BLG-5000BC2 Seri (Except BL-7000BC2			
Note: Please purchase a	VMS scre	wdriver ho	older	for BC2 separatel	
Model		Н	olde	r model	
BLG-4000-BC2 BLG-5000-BC2 Serie	es	VMS-09	900-	BLG45	

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	0	_	_	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 Screwdrivers										
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 Screwdrive	er Ope	erat	cing		anc	ls	0	0		
	er Ope	erat	o ting —		anc	ds —	0	0		
Vertical Screwdrive	er Ope	erat	o ting —		anc	ds —	0	0		
Vertical Screwdrive VMS-40	er Ope	erat	ting —		anc	ds —	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.













Jukurenko Content

With This-No Mistakes Setup options

With This-No Mistakes Detectable errors in screw tightening

With This-No Mistakes Direct teaching

[★]1 HIOS Shank H5 comes with the product as a standard accessary. ★2 No bit comes as a standard accessary.

HIOS Inc.

Yamagata Factory: 5 Takagi, Yamagata City, Yamagata Pref., Japan 990-2346 Phone: +81 (Japan) 23-645-8100 FAX: +81 (Japan) 3-645-2546

HIOS (SHENZHEN) Co., LTD.: 10D Room, Seaview Square, No.18. Taizi Road, Shekou Nanshan District, Shenzhen, Guangdong Province, China 518000 Phone: +86 (China) 755-26674278 FAX: +86 (China) 755-26858347

- Please note the specifications and appearance may change as improvements are made.
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 The information presented in this catalog is current as of April 2022.
 Catalog number: EK-A034(22A)



Read the instruction manual carefully before use and operate the screwdriver for its intended purposes.

