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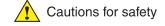
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URL http://www.hios.com/









Cautions for safety. Read the instruction manual carefully before use and operate the screwdriver for its intended purpose. Always use the specified current and voltage.

•Please note that the specifications and appearance may change as improvements are made. •Using copies or reproductions of this general catalog without permission is prohibited.

The information presented in this catalog are current as of August 2008.

Catalog number : EK-A002





Brushless® Screwdriver

General catalog 08A

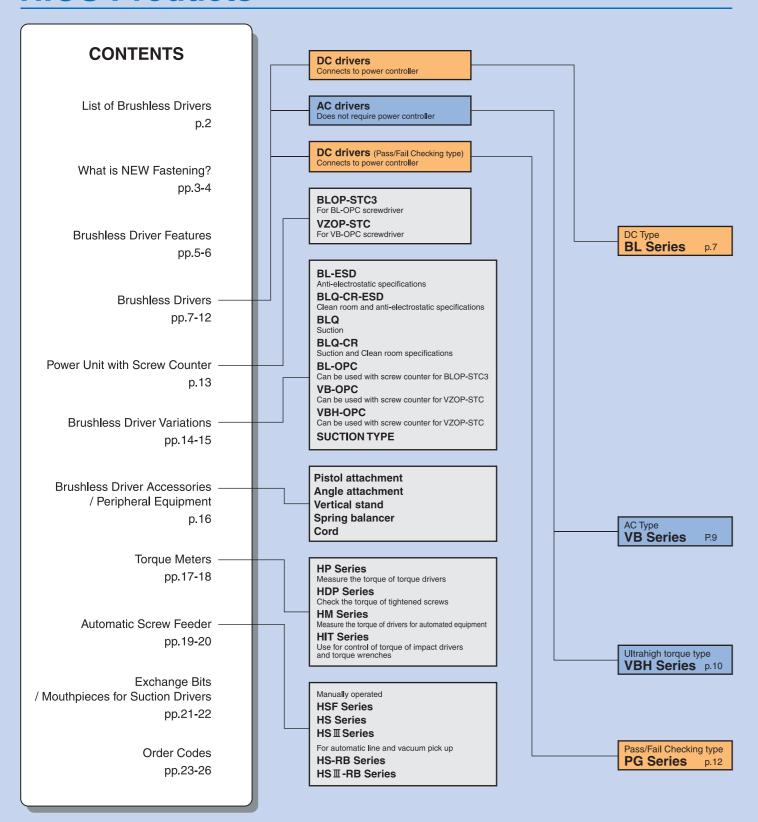
—The English version —



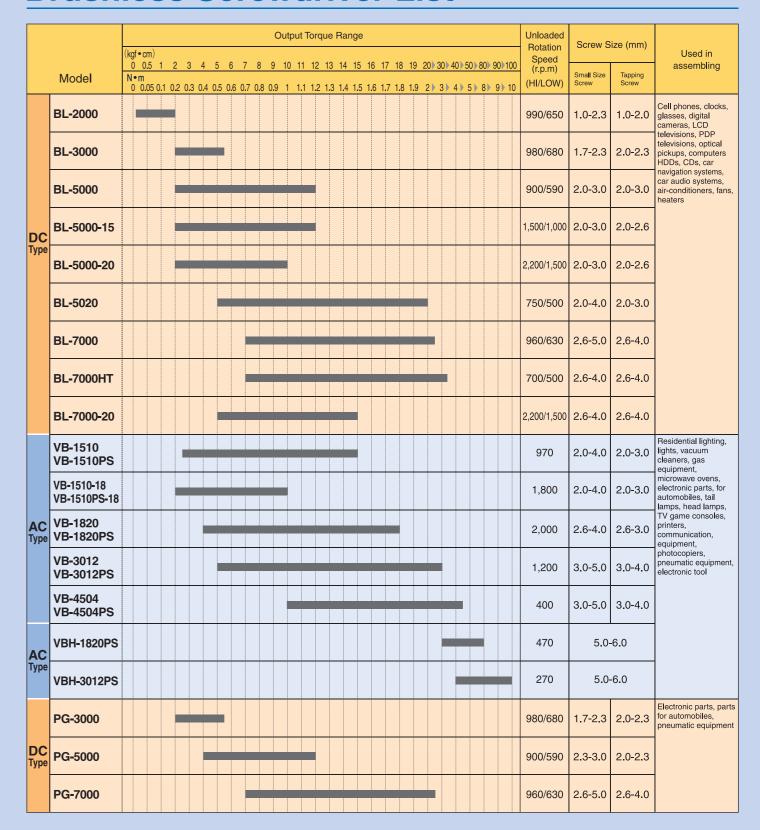




HIOS Products



Brushless Screwdriver List



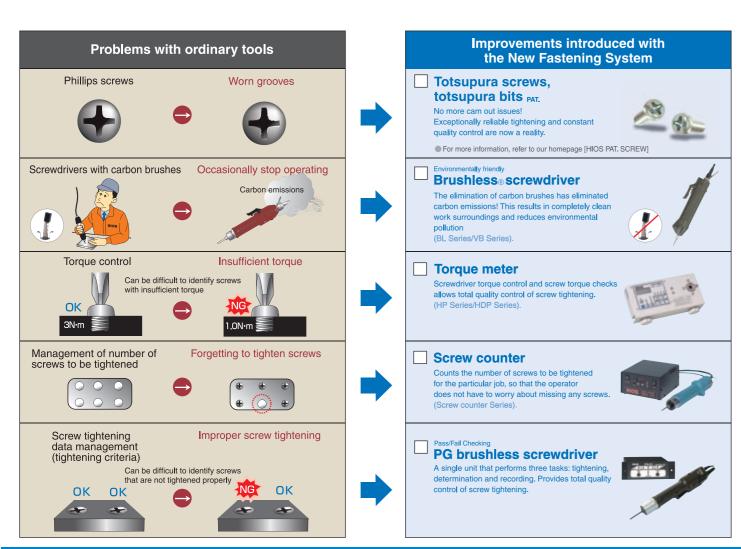
2

There are many factors that affect the overall quality of screw tightening

Hios is continuously working hard to apply our vast experience and technical expertise to make constant modifications and improvements to our tightening tools and other parts renowned for their precision and accuracy.

HIOS New Fastening System is a highly efficient system that overcomes roblems affecting variations in tightening, offering the operator exceptional reliability and quality control.





Improvements to the screw and screwdriver are the first step in reducing the number of defects.

Issues related to cam-out are all the more serious as equipment becomes more precise with the advancement of technology.

The shape of plus screws, regarded as the current global standard, often suffered from damaged heads and worn screw material from excess torque when accurate torque control was unavailable.

A V-shaped design similar to the tip of a pencil forces the bit to rise out from the head (* cam-out) when excess torque is applied. However, developments in peripheral tools now allow extremely accurate torque control, such that the V-shaped design that forces the bit to rise can now result in damage to the head and screw material. This in turn affects the quality of the final product.

* The bit rises out from the groove in the head when tightening plus screws

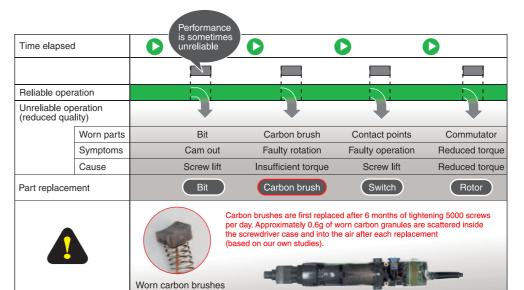


Totsupura screws PAT.

While retaining compatibility with plus screws, the V-shaped design has been changed to a U-shaped design that does not allow the bit to rise, preventing cam out and allowing extremely high reliability and precision. When products are recycled or sent in for maintenance, removal and reinsertion of screws can now be performed much more simply, resulting in the manufacture of more environmentally friendly products.

Ordinary screwdrivers that use brushes can stop occasionally

Wear on expendable parts (carbon brushes, commutators, switches and other contact points) and heat generated by the motor in brushed screwdrivers can shorten the operating life of the whole screwdriver. Wear of the expendable parts can affect performance, causing the screwdriver to stop operating. Regular replacement and maintenance of the expendable parts differs with operating time and environment, meaning management of replacement and maintenance can be difficult.





Brushless® screwdriver

Screwdrivers with brushless motors have an extremely long operating life with no need for regular replacement or maintenance of expendable parts (carbon brushes, rotor, switches and other contact points). Heat generated by the motor is reduced and screwdriver performance is always at the maximum level, resulting in reliable product quality.

No carbon powder emissions!

The brushless screwdriver design eliminates the need for expendable parts, providing reliable and environmentally friendly performance as well as a high level of product quality control.



Completely safe Brushless screwdrivers



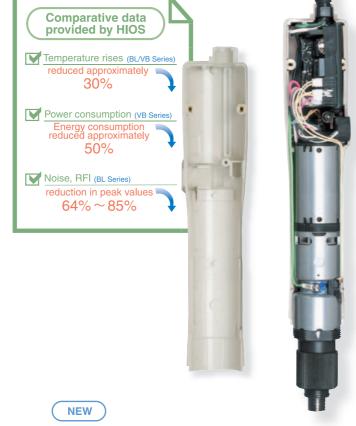


- Extended periods of highly precise torque control and superior durability lead to reliable product quality control.
- Expendable parts have been eliminated while the design allows a long operating life with a vastly reduced number of operating problems and malfunctions
- There are no external carbon powder emissions, resulting in clean electrical parts and operating environment.
- There is no heat generated by the motor, with no heat related problems with extended periods of use. The driver is also energy efficient.



Brush screwdriver

Expendable carbon brushes wear out, sending carbon powder throughout the motor, in turn causing operating problems, faults and reducing overall screwdriver performance. Powder can cause various problems in the work place if released from the driver case.



Brushless screwdriver

With almost no expendable parts and a simple design, the brushless screwdrivers life cycle is extended and maintains a clean working environment. The screwdriver is also more environmentally friendly due to the reduction in expendable parts and provides consistently reliable performance.

Standard specifications

(See the icon on each

page for standard

Lever and push type (both used for starting)

lever type to push type.

The starting procedure is simple The screwdriver body uses an antistatic body case to prevent

Antistatic body case

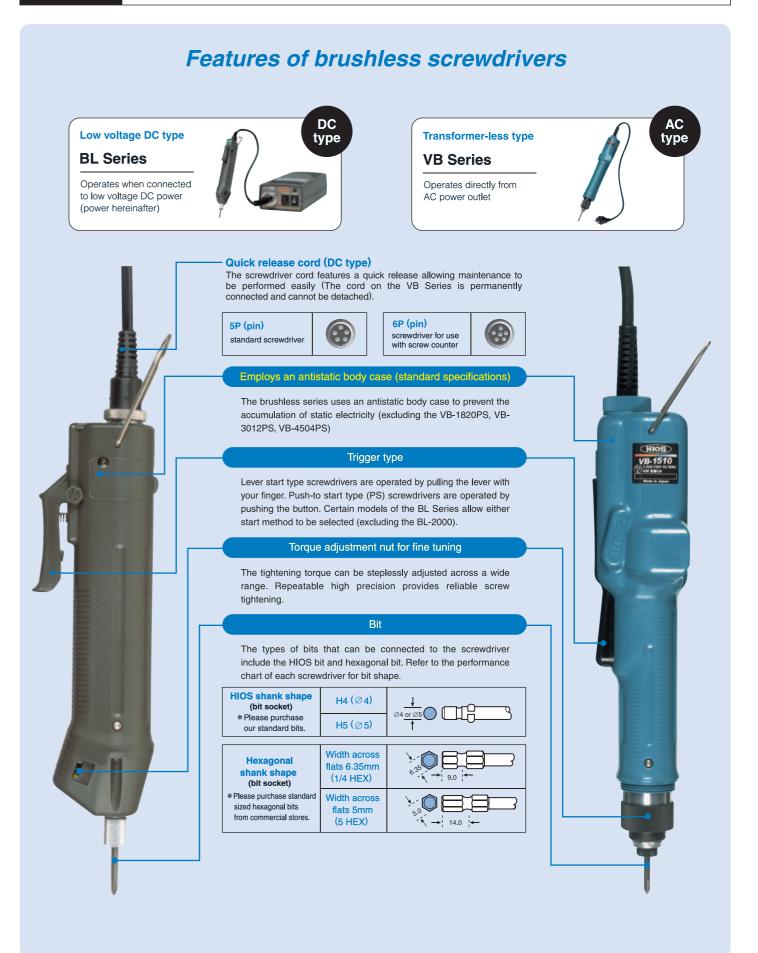
the generation of static electricity, which is suitable for the

assembly of precision equipment and electronic parts.

RoHS compliant

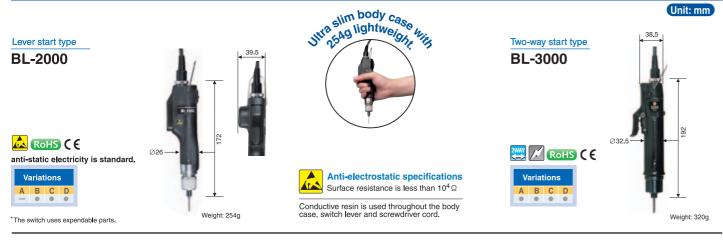
The screwdriver is RoHS compliant. Products meet European

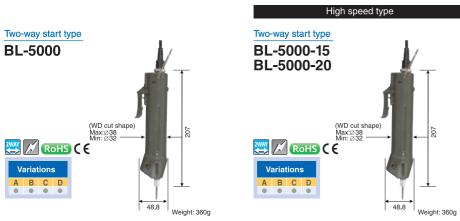
* The grip section of the VB-1820 and VB-3012 are made of rubber and do not completely prevent static electricity.



Environmentally friendly brushless screwdriver lineup







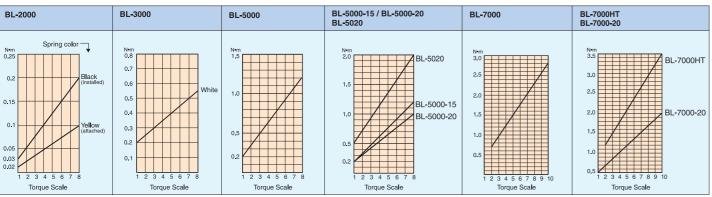








Output torque guide (during HI input)



Variation chart





Multi input type (AC 100V-240V)

Power supply for BL Series

Dedicated power supply ensures maximum performance from the screwdriver.

●Low voltage output (HI: approximately 30V, LOW: approximately 20V) means reliable yet quiet operating noise.

Screwdriver

- •Power capacity has been increased over the previous model, providing a reliable source of power.
- ●Two switchable stages HI/LOW are available for more accurate screw operations.

T-30BL

(Single power point)

Compatible models

BL-2000/BL-3000



(Single power point) Compatible models BL-2000/BL-3000/BL-5000 BL-5000-15/BL5000-20/BL-5020 BL-7000/BL-7000HT/BL-7000-20

T-70BL

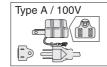
■ Specifications

Duimanus aida	Input power	AC 100V-240V (47-63Hz)
Primary side	Power capacity	70W
Secondary side output		HI/LOW 2 stage switchable
External dimensions (mm)		88 x 210 x 52 (H) mm
Weight (g)		830g
Length of power cord		1.8m (inlet type)
Accessories		2 mounting points, 4 mounting screws

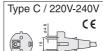
Specifications

Primary side	Input power	AC 100V-240V (47-63Hz)	
Filliary side	Power capacity	30W	
Secondary sid	e output	HI/LOW 2 stage switchable	
External dime	nsions (mm)	62 x 134 x 40 (H) mm	
Weight (g)		300g	
Length of pow	er cord	1.8m (inlet type)	
Accessories		2 mounting points, 4 mounting screws	

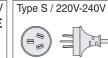
● Plug









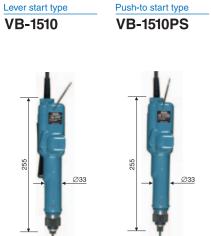


■Specifications

_ороо.	ropecinications								
	t type Mode		BL-2000	BL-3000	BL-5000	BL-5000-15	BL-5020	BL-7000	BL-7000HT
Push-to start type Model		-			BL-5000-20*			BL-7000-20*	
Output Tor	raus	N∙m	0.02-0.2	0.2-0.55	0.2-1.2	0.2-1.2 / 0.2-1*	0.5-2	0.7-2.8	0.7-3.5 / 0.5-1.5*
Output Torque Range		Ibf•in	0.17-1.7	1.7-4.8	1.7-10	1.7-10 / 1.7-8.7*	4.3-17.4	6.1-24	6.1-30 / 4.3-13*
		(kgf·cm)	(0.2-2)	(2-5.5)	(2-12)	(2-12) / (2-10)*	(5-20)	(7-28)	(7-35) / (5-15)*
Torque Sw	vitching					Stepless Adjustment			
Unloaded F	Rotation	HI	990	980	900	1,500 / 2,200*	750	960	700 / 2,200*
Speed (r.p.i	m) ±10%	LOW	650	680	590	1,000 / 1,500*	500	630	500 / 1,500*
Screw Size	e	Small Size Screw	1.0-2.3	1.7-2.3	2.0-3.0	2.0-3.0 / 2.0-3.0	2.0-4.0	2.6-5.0	2.6-4.0
(mm)	Tapping Screw		1.0-2.0	2.0-2.3	2.0-3.0	2.0-2.6 / 2.0-2.6	2.0-3.0	2.6-4.0	2.6-4.0
Bit Type		Hios H4	Hios H4 or 1/4 HEX	Hios H4 or 5 HEX or 1/4 HEX	Hios H4 or 5 HEX or 1/4 HEX	Hios H5 or 5 HEX or 1/4 HEX	Hios H5 & 5 HEX or 1/4 HEX	Hios H5 & 5 HEX or 1/4 HEX*	
Power Pac	nle.	T-30BL	0	0	_	_	_	_	_
rowel rac	JK.	T-70BL	0	0	0	0	0	0	0
	Bit, 1 of each	Hios H4	+#0(φ2×40mm) +#0(φ2.5×40mm)	+#0(φ2.5×40mm) +#1(φ4×40mm)	+#1(φ4×40mm) +#2(φ4×40mm)	+#1(φ4×40mm) +#2(φ4×40mm)			
₽		Hios H5					+#1(φ5×60mm) +#2(φ5×60mm)	+#1(φ5×60mm) +#2(φ5×60mm)	+#1(φ5×60mm) +#2(φ5×60mm)
Accessories		1/4 HEX	_	+#1(φ5×50mm) +#2(φ5×50mm) -(φ5×50mm)	+#1(φ5×50mm) +#2(φ5×50mm) -(φ5×50mm)	+#1(φ5×50mm) +#2(φ5×50mm) -(φ5×50mm)	+#1(φ5×50mm) +#2(φ5×50mm) -(φ5×50mm)	+#1(φ5×50mm) +#2(φ5×50mm) -(φ5×50mm)	+#1(φ5×50mm) +#2(φ5×50mm) -(φ5×50mm)
	Spring		yellow	_	_	_	_	_	_
	Cord Len	gth	2m (5P) ESD Design	1.5m (5P)	1.5m (5P)	1.5m (5P)	1.5m (5P)	2m (5P)	2m (5P)
	Hexagonal	L-shaped wrench	_	_	5mm, 1piece				

*1 Only 1/4 HEX is available for BL-7000HT.









Lever start type

VB-1510-18

VB-1510PS-18



VB-4504PS

Push-to start type (100V only)

dis

RoHS (E



Lever start type

VB-1820

Unit: mm

Push-to start type

VB-1820PS

Plug

Type A / 100V

Type A-2 / 120V

Type C / 220V-240V



Lever start type

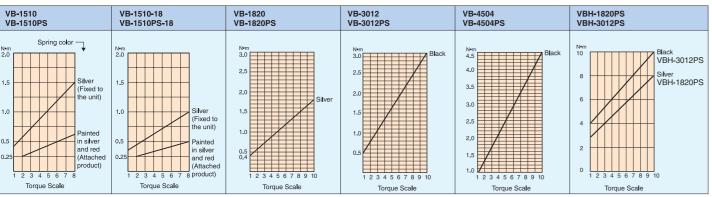


Push-to start type





Output torque guide (during HI input)



See p.10 for specifications for the VB-4504PS (100V) shockless stand.

Includes the weight of the screwdriver cord and slide arm







Ideal for working with products requiring high torque levels.

- High torque screw applications that were previously only possible with air-powered screwdrivers can now be performed with a brushless screwdriver.
- Tightening to the same torque level can now be done reliably.
- Recoils when tightening the screws are absorbed by the shockless stand to reduce operator fatigue.
- Features a light action push trigger for improved usability.

■ Specifications

<u> </u>				
Model		VBH-1820PS	VBH-3012PS	
Control torque range N	N•m (kgf•cm)	3.0~8.0 (30~80)	4.0~10.0 (40~100)	
Unloaded Rotation speed (r.p.m) ±10%		470	270	
Screw Size (mm)		5.0~6.0	5.0~6.0	
Dimensions (mm)	Grip	Max Ø41,Min Ø39 (non-circular)	Max Ø41,Min Ø39 (non-circular)	
Dimensions (mm)	Length	366	366	
Weight (kg)		1.9kg (includes the screwdriver cord and slide arm)		
Bit Type		1/4 HEX		
AC Cord Length (m)		3m		
Accessories		3 Hollow set scre 1 hexagonal L-shaped wrenc	ews (M4 x 6mm) h (width between flats 2mm)	

■Shockless stand specifications

Longth of				Stand	
Length of slide arm	Usable slide range	Brace height	Stand height	Mounting bolt hole diameter	Mounting bolt hole spacing
530	475	570	8	6	52 (Equilateral triangle, length of 1 side)

Please inquire about purchases of VBH Series products.

■ Specifications

Lever start type Model		e l	VB-1510	VB-1510-18	VB-1820	VB-3012	VB-4504		
Push-to sta			VB-1510PS	VB-1510PS-18	VB-1820PS	VB-3012PS	VB-4504PS		
Power Input			AC 100V ±5% Approx. 20W	AC 100V ±5% Approx. 20W	AC 100V ±5% Approx. 40W	AC 100V ±5% Approx. 40W	AC 100V ±5% Approx. 40W		
		OAD	AC 120V ±5%						
/ Power co	nsumptin	(VV)	Approx. 20W	Approx. 20W	Approx. 40W	Approx. 40W	Approx. 40W		
			AC 220-240V ±5%						
			Approx. 25W	Approx. 25W	Approx. 32W	Approx. 32W	Approx. 32W		
O. 4 4 T		N∙m	0.25-1.5	0.2-1.0	0.4-1.8	0.5-3	1-4.5		
Output Tor Range	que	lbf∙in	2.2-13	2.2-10	3.5-16	4.3-26	8.7-39		
riange		(kgf·cm)	(2.5-15)	(2-10)	(4-18)	(5-30)	(10-45)		
Torque Switching			Stepless Adjustment						
Unloaded	Rotation S	peed (r.p.m) ±10%	970	1,800	2,000	1,200	400		
Screw Size	9	Small Size Screw	2.0-4.0	2.0-4.0	2.6-4.0	3.0-5.0	3.0-5.0		
(mm)		Tapping Screw	2.0-3.0	2.0-3.0	2.6-3.0	3.0-4.0	3.0-4.0		
Bit Type			Hios 4 or 5 HEX or 1/4 HEX	Hios 4 or 5 HEX or 1/4 HEX	Hios 5 & 5 HEX or 1/4 HEX	Hios 5 & 5 HEX or 1/4 HEX	1/4 HEX		
AC Cord L	ength (m)		3m	3m	3m	3m	3m		
	Bit, ※ 1 1 of each	Hios H4	+#1(φ 4×40mm) +#2(φ 4×40mm)	+#1(φ4×40mm) +#2(φ4×40mm)	_	_	_		
æ		Hios H5	_	_	+#1(φ5×60mm) +#2(φ5×60mm)	+#1(φ5×60mm) +#2(φ5×60mm)	_		
Accessories		1/4 HEX	+#1(φ5×50mm) +#2(φ5×50mm) -(φ5×50mm)	+#1(φ5×50mm) +#2(φ5×50mm) -(φ5×50mm)	+#1(φ5×50mm) +#2(φ5×50mm) -(φ5×50mm)	+#1(φ5×50mm) +#2(φ5×50mm) -(φ5×50mm)	+#1(φ5×50mm) +#2(φ5×50mm) -(φ5×50mm)		
	Screw for	adjustment	_	-	M2.6 (panhead screw)	M2.6 (panhead screw)	_		
3PIN to 2F adaptor is		PIN power cable s attached	1 piece						

Real-Time OK/Error Detecting Screwdriver

PG Brushless

All fastening operations are monitored and checked with the criteria which value is saved in the PG system. The problems in fastening operations such us insufficient torque, wrong thread joint and screw going askew are monitored and prevented from going through the production line. PG Brushless drivers which has data collecting function are a part of the "New Fastening System" that meets the demand of modern era where the zero defects control is required.

- Instantly determines if a screw passes or fails (OK/NG). (Items checked: torque and time)
- All items can be checked at the same time as the operation is completed.
- Torque can be monitored for each tightening procedure.
- Can be connected to a PC for data recording.
- Job data can be checked at a glance.





Setting the Pass/Fail values

Screw tightening quality can be controlled by setting the checking criteria.

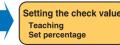
The checking criteria (learned values) are set by conducting an actual The acceptable range of passing values for torque, work time screw tightening procedure, the torque value, minimum work time (Min), maximum work time (Max) are then remembered.

[Percentage Setting] Range selection ± (2%, 5%, 10%, 20%)

minimum and work time maximum can be set individually.

Setting Pass/Fail checking criteria (learned values)













All data is saved as Job is done

By managing data, it is possible to verify past work details.

[Data display]

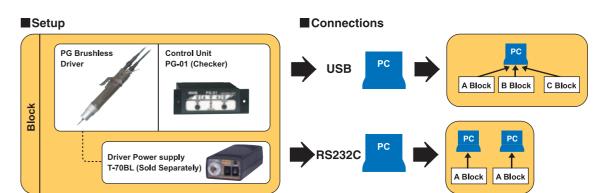
Measurement data can be displayed in Excel's numerical display. Graphs are also generated automatically. We can also develop customized programs to meet the current needs and the current work environment of the customer. Additional extension features are possible id used with a PLC.

Indications during every tightening procedure

OK/NG results are confirmed with an LED and buzzer while work is being done.

OK/NG is displayed on the PC and measurement values are displayed in the datasheet.

Pass-guard System Setup and Connections



Options

- It is possible to use Ethernet connections to manage multiple PG drivers together through a PC. (Software compatible with the communications specifications is
- Models with LAN output are available. Contact Hios for more

PG Brushless driver



Specifications

*PG Drivers are available only lever-start type

p		T G Birroro aro aranabio omy lovor olari typo			
Model		PG-3000	PG-5000	PG-7000	
<u>_</u>	N·m	0.2-0.55	0.4-1.2	0.7-2.8	
Output Torque Range	lbf•in	1.7-4.8	3.5-10	6.1-24	
	(kgf·cm)	(2-5.5)	(4-12)	(7-28)	
Torque Switching		5	Stepless Adjustmer	nt	
Unloaded Rotation	High	980	900	960	
Speed (r.p.m) ±10%	Low	680	590	630	
Screw Size	Small Size Screw	1.7-2.3	2.3-3.0	2.6-5.0	
(mm)	Tapping Screw	2.0-2.3	2.0-2.3	2.6-4.0	
Bit Type		Hios 4	Hios 4	Hios 5 or 1/4HEX	
Driver cord length / Sensor cord length (m)		2m(6P) / 2m	2m(6P) / 2m	2m(6P) / 2m	
Included accessories				Windows XP Excel), dapter (AC100-240V	

Driver Power Supply T-70BL (Sold separately)

■ Specifications

Model	T-70BL (Supports 1 driver)
Input voltage	AC100V-240V (47-63 Hz)
Power consumption	70W
Secondary output	2 step HI / LOW
External Dimensions (mm)	88 x 210 x 52 (H) mm
Weight (g)	830g
Power cord length (m)	1.8m (Insulated)
Accessories	Mounting brackets (2), Mounting screws (4)

Control Unit PG-01(checker)

■ Specifications

Model		PG-01
	Communication speed	4800BPS
RS232C	Start Bit	1 Bit
Communication	Stop Bit	1 Bit
	Data	8 Bit
	Data format	ASCII
External Dimensions (mm)		*Dimensions do not include protrusions
Weight (g) AC Adaptor		520g
		Input : AC100V-240V, Output : DC12V (50 / 60 Hz)

■I/O input/output connector

Pin No.	Output Signal	Description
13	L.NG (Fail)	Torque is below the LOW GOOD value (L.G)
14	L.G (Pass)	Torque is within the allowed percentage range of the LOW GOOD value
15	GOOD (Pass)	Within the HI and LOW values
16	H.G (Pass)	Torque is within the allowed percentage range of the HI GOOD value
17	H.NG (Fail)	Torque is above the HI GOOD value (H.G)
18	COM GND	_

Power supply with screw counter

The number of screws to be tightened can be set from 1 to 99, with the remaining number counted down after each screw is tightened.

Main functions

Buzzer to indicate screw tightening complete

A buzzer will sound when the final screw has been tightened to allow a check of complete screw tightening.

Auto reset function

The count down number is automatically reset after all screws have been tightened so that work can start on the next job immediately. The screwdriver will not be operable until the "next work set" confirmation SET signal is input.

Count timer function

Prevents confirmation tightening, supplemental tightening and secondary tightening from being

Normal power mode

In normal power mode the count function is disabled.

NEW Multi input (AC100V to 240V)

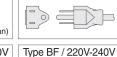
BLOP-STC3 (BL-OPC screwdriver single power point)

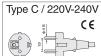
The power supply has been made smaller and lighter than the previous model. with touch panel controls to prevent operating errors.



Model		BLOP-STC3
Primary	Power input	AC 100V-240V
side	Fuse rating	3A / 250V(with spare fuses)
Power consu	umption (W)	75W output with DC31V input
Secondary side	Output voltage	HI: DC31V±5% (with overload LOW: DC20V±5% protection)
External dimensions (mm)		127×208×76(H)mm
Weight (kg)		1.8kg
Power cord	length	1.8m
Accessories		8 crimp terminals

Plug Type A-2 / 120V Type A-1 / 100V









AC100V Only

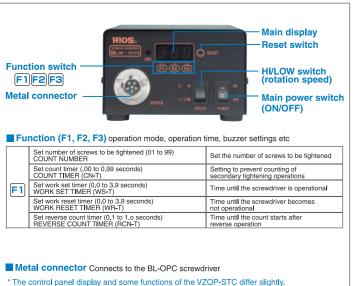
VZOP-STC (VB-OPC screwdirver or VBH screwdriver single power point)



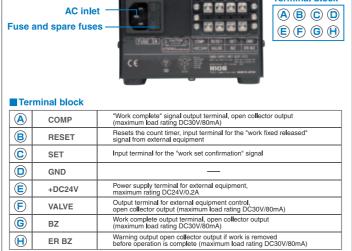
Model		VZOP-STC
Primary	Power input	AC100V ±5% 50/60 Hz
side	Fuse rating	6A / 250V(with spare fuses)
Power consu	umption (W)	2W / load free
External dim	ensions (mm)	160×175×84(H) mm
Weight (kg)		1.5kg
Power cord I	ength	1.8m
Accessories		8 crimp terminals, 1 minus screwdriver

Part names and functions =

BLOP-STC3 (Front panel)



BLOP-STC3 (Rear panel)



Variations for a range of applications

Variations

Anti-static electricity features

BL-ESD ♣ ROHS (€

Anti-electrostatic material used in manufacture of the body case, switches, lever and power cord to protect against electrostatic charge accumulations.

Surface resistance: 10⁴Ω

Two-way start type

BL-3000ESD BL-5000ESD BL-5000ESD-15 BL-5000ESD-20 BL-5020ESD BL-7000ESD BL-7000ESD-20

Suction, anti-static electricity features



BLQ **⚠** ROHS (€

Lever start type BLQ-2000

BLQ-3000 BLQ-5000 BLQ-5000-15 BLQ-5000-20 BLQ-7000 BLQ-7000-20

Two-way start type

Clean room, anti-static electricity features



BLQ-CR-ESD ♣ ROHS (€

The screwdrivers is equipped with a Vacuum pipes as well as a suction head to insure complete remover of fine particles generated by the screw tightening process in clean rooms.

- Surface resistance: 10⁴Ω
- Cleanliness class 100

Lever start type **BLQ-2000CR** Two-way start type

BLQ-3000CR-ESD BLQ-5000CR-ESD BLQ-5000CR-ESD-15 BLQ-5000CR-ESD-20

BLQ-7000CR-ESD BLQ-7000CR-ESD-20

Clean room



BLQ-CR ROHS (€

BLQ-2000CR

Lever start type Two-way start type

> BLQ-3000CR BLQ-5000CR BLQ-5000CR-15 BLQ-5000CR-20 BLQ-7000CR BLQ-7000CR-20

Screwdriver for screw counter

Operates with the screw counter BLOP-STC3 to ensure that all screws are tightened. The screwdriver can be operated in ordinary and reverse directions as well as providing torque increase signals (after screw tightening is complete).

Compatible with BLOP-STC3 -



BL-OPC ♣ ROHS (€

Lever start type BL-2000-OPC



BL-OPC Robs (€

Two-way start type

BL-3000-OPC BL-5000-OPC BL-5020-OPC BL-7000-OPC

Compatible with VZOP-STC



Lever start type

VB-1510-OPC VB-1510-18-OPC VB-1820-OPC VB-3012-OPC



VB-OPC RoHS (€

Push-to start type

VB-1510PS-OPC VB-1510PS-18-OPC VB-1820PS-OPC VB-3012PS-OPC VB-4504PS-OPC

VBH-OPC ROHS CE

Push-to start type

VBH-1820PS-OPC VBH-3012PS-OPC

Variations

Suction



A suction attachment has been installed as standard on the screwdriver. The vacuum assists in picking screws up. Screws that cannot be picked up magnetically, as well as minus screws, can also be picked up with the suction device, while dust generated during screw tightening is also eliminated.

When using the BL Series with suction

1 and 2 are required when using the BL screwdriver and BL power supply (sold separately). Purchase 3 if required for the job.

When using the VB Series with suction

and are required when using the VB screwdriver (sold separately). Purchase 3 if required for the job.

<Suction screwdriver construction> (2) Suction parts (each sold separately) mouthpiece 3 suction attachment

1 Suction parts The mouthpiece, bit and suction attachment are all sold separately.





	Model	Mouthpiece model (Dimensions chart)	Bit length (Dimensions chart)	Suction attachment model number	
	BL-2000		H4 60mm (Total length)	CLQ2-SET-ESD	
BL Series	BL-3000	F3 standard 18mm (total length)	H4 60Hilli (Total length)	BLQ3N-SET	
	BL-5000		H4 40mm (Total length)	BLQ5-SET	
	BL-7000	F6 standard 31mm (total length)	H5 80mm (Total length)	BLQ7-SET	
	VB-1820 (100V)		H5 100mm (Total length)		
	VB-3012 (100V)		113 Toomin (Total length)		
VB Series	VB-1820 (120V, 220V-240V)	F6 standard 31mm (total length)	C OF some how his	VZQ18-SET	
	VB-3012 (120V, 220V-240V)		6.35mm hex bit (Described below.)		
	VB-4504 (120V, 220V-240V)		(Described below.)		

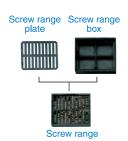
Please enquire about the BL-5000 and BL-7000 before purchase. Caution. A Hios shank is required in the bit socket for suction to operate. The suction device cannot be attached to the hexagonal shank.



Screw range (for suction screwdriver)

Screws are inserted into the groove, which shakes to align the screw heads along the top.

- •Effective for automatic catching
- ●The screw range consists of a box and plate
- Plates can be replaced to suit the screw diameter
- •Plates are made from either steel



Vacuum pump (for suction screwdriver)

A vacuum is generated to pick up and hold the screw on the bit end.



Model	VP-3
Primary power input	AC100V,120V or 220-240V±5%
Max. power consumption	39W
Vacuum attained	-350mm Hg
Dimensions (mm)	200×188×142(H)mm
Weight (kg)	3.8kg

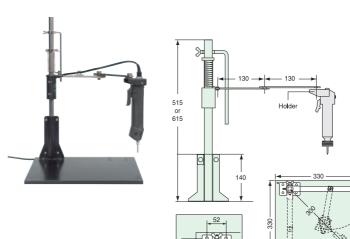
Peripherals and accessories



Vertical screwdriver operating stand

The stand constantly keeps the screwdriver in a vertical position, allowing accurate screw tightening and preventing any faulty screw adjustments.

VMS-40 VMS-50



VMS-40 VMS-50 Model Stand Length 515mm 615mm Weight 2.65kg BL driver. VB driver

* If the BL-7000 and VB screwdriver series are used with the VMS-40 and VMS-50 the holder is sold separately. Please make an enquiry before your purchase.

Angle attachment

ANGLV-Z-CH

The angle attachment can be installed to the end of the screwdriver for screws that are in hard to reach places.

Compatible models -

VB-1820 (Lever start type) VB-3012 (Lever start type)



* The screwdriver output with the attachment installed should be kept below 2 N-m.

Flexible screwdriver cord 2m/3m

Flexible cord that is resistant to kinking or bending for heavy duty.

Compatible models

2m BL Series (5P) (3m) BL-OPC Series (6P



Screwdriver extension cord 3m/5m

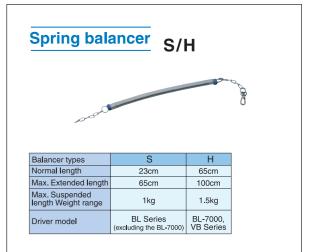
Use this cord as an extension cord when the standard screwdriver cord is not long enough.

Compatible models

(3m, 5m) BL Series (5P)



- The extension cord is connected between the screwdriver and screwdriver cord, or between the power supply and screwdriver cord.
- Using the extension cord will lower the voltage due to the internal resistance of the cord. Screwdriver specifications may change when the extension cord is used.



1.4 1.7 2.0 2.3 2.6 3.0 4.0 Rubber plate 1.2~1.4 1.7 2.0 2.3 2.6 3.0 4.0

Digital Torque Meter Series

- Measurement data can be transferred to a computer. (This requires an input tool.)
- Up to 100 data measurements can be stores in memory at a time. (HP series and HDP series)
- Can be checks maximum, minimum and average toque measurement. (HP series and HDP series)
- Measurement can be easily taken in either clockwise or counterclockwise direction.
- Data can be output either numerically or as waveforms.
- Light, compact and operating on a rechargeable battery, it is convenient for carrying around any job site.

HP

HP-10 HP-100



Use for making torque settings on electric drivers, checking torque of torque wrenches or measuring torque of fasteners, etc.

Model		HP-10	HP-100			
Peak	N•m	0.015 - 1.000	0.15 - 10.00			
measuring	Ibf • in	0.15 - 9.00	1.5 - 90.0			
range	(kgf • cm)	(0.15 - 10.00)	(1.5 - 100.0)			
Accuracy		Up to ± 0.	.5% (F.S.)			
Measuring me	odes	track, peak	, first peak			
Dimensions (mm)	230 × 124 × 65.2 (H)				
Weight		1.8kg				
Battery pack (c	harging time)	1.2V NiMH cells 1,000mA (6 hours)				
Continuous running ti	me on a full charge	8 hours				
Battery life		Approx. 300 charges				
Exclusive bat	tery	AC 100V-240V input (50 or 60Hz)				
charger		DC 7.3V-8V output 0.5 A				
Accessories		See p. 18				

HDP-5 HDP-50

0.15 - 9.0

(0.15 - 10.0)

0.15 - 10.00

(1.5 - 100.0)

Up to \pm 0.5% (F.S.)

track, peak

165 × 95 × 55(H)

1.0kg

1.7m (No.: DPC-0506) 1.2V Nicd cell (8 hours)

12 hours

Approx. 300 charges

DC7.2V output 120mA

LIT 200 LIT 500 LIT 2000

AC 100V, 120V or 220V-240V input

HDP

HDP-5 **HDP-50 HDP-100** (option)



Use for measuring slack torque of fastened screws or torque increase.

		Peak		N•m	0.015 - 0.500	0.15 - 5.00			
		measur	ring	lbf • in	0.15 - 4.40	1.5 - 44.0			
		range		(kgf • cm)	(0.15 - 5.00)	(1.5 - 50.0)			
		Accurac	су		Up to ± 0).5% (F.S.)			
		Measur	ring m	odes	track	, peak			
		Dimensions	Displa	ay unit	125 × 95	.6 × 42(H)			
		(mm)	(mm) Detector		104(L) × Ø21	160(L) × Ø34.5			
			Detec	tor bit socket	Hios 4 or 1/4 Hex	Hios 5 or 1/4 Hex			
		Weight	Display unit		780g				
			Detec	ctor	68g	250g			
		Detector	r cord		1.7m (No.: DPC-0506)				
		Battery pack (charging time)			1.2V NiMH cells 1,000mA (6 hours)				
		Continuous	running t	ime on a full charge	8 h	ours			
		Battery life			Approx. 300 charges				
ıе		Exclusiv	ve bat	tery	AC 100V-240V input (50 or 60Hz)				
		charger	r		DC7.3V-8V output 0.5A				
		Access	ories		See	See p. 18			

lbf • in

(kgf • cm)

range

Weight

Measuring modes

Dimensions (mm)

Battery pack (charging time)

Continuous running time on a full charg

Detector cord

Battery life

charger

Exclusive batter

HM

HM-10 HM-100



Use for control of torque of automatic drivers.

HIT

HIT-200 HIT-500 HIT-2000



Model		HH-200	HH-500	HII-2000				
		0.15 - 18.00	0.15 - 18.00 1.5 - 50.0 25.					
measuring	lbf • in	1.5 - 160.0	1.5 - 160.0 15 - 440 250					
range	(kgf • cm)	(1.5 - 180.0)	(15 - 500)	(250 - 1800)				
Accuracy			Up to ± 1% (F.S	.)				
Measuring mo	odes	ре	ak, track, first p	eak				
Dimensions of	display (mm)		165 × 95 × 55(F	H)				
Weight	Weight Display unit		1.0kg					
	Detector	0.85kg	1.65kg	1.65kg				
Socket dimen	sions	9.5sq mm	9.5sq mm 12.7sq mm					
Detector cord		1.7m (No.: DPC-0506)						
Battery pack (c	harging time)	1.2V Nicd cell (8 hours)						
Continuous running ti	me on a full charge	12 hours						
Battery life		Approx. 300 charges						
Exclusive batt	tery	AC 100V, 120V or 220V-240V input						
charger		DC	7.2V output 120	0mA				

Accessories	with	нм	series







Accessories to standard Fidaptors

automatic operation screwdriver.

HM-10 Phillips head #1 bit 0.15-0.6 N · m one yellow spring model: TFM26-Z

HM-100 Phillips head #2 bit 0.5-3 N • m one black spring

Select the Fidaptor model that fits the measurement needs of your

Optional Fidaptor

Phillips head #0 hit measuring range: 0.25 N • m (for measurement one red spring model: TFM20-Z

TCH-MULTI 1 pie 100V-240V



TCH-EU 1 piece (C plug) 100V-240V

*Attached one type based on countries

Calibration Sheet (quantity: 3)



220 Volt Adaptor Plug*







HM and HIT

standard

accessories (Power units and countries

where they can be used)

*Users in Japan, South Korea, Taiwan, Mexico, the United States and Canada do not need an adaptor plug.

An adaptor that checks the torque value preset on an electric driver and absorbs inertia created by high speed rotation, giving nearly the same torque effect as an

Threaded shaft

HP-100

This threaded shaft is provided for use when the Hios 5mm shank does not fit the bit of the driver to be measured.

Optional Fidaptors

Yellow Spring

. Measuring range:

0.15-0.6 N • m

Yellow Spring

Measuring range:

0.15-0.6 N • m

Part No.CL65-0040

Part No.CL65-0040

1 piece

Driver Shaft

Hex. shank (convertible shaft)

6.35 mm subtense (Lower)

Part No.TF6XG-0010 (A)

Hios shank Ø4 1 piece

Part No.TF5G-0010-4 (B)

Model	Measuring range	Bit type	Applicable drivers
TF4S-Z	less than 0.25 N • m	Hios shank Ø4	BL-2000, BL-3000, CL-2000, CL-3000, CL-4000, SS-2000, SS-3000, SS-4000 screwdriver
TF6U-Z	3-9N•m	6.35 mm hex shank	Driver model 6.35mm hex shank

Part No.

OHDP Standard Accessories

OHP Standard Accessories

HP-10

HP-100

Hios shank Ø4

Measuring range: 0.15-0.6 N • m

Part No.TF4G-Z

Hios shank Ø5

0.5-3 N • m

Part No.TF5G-Z

0.15-0.6 N • m

(Yellow Spring) 1 piece

5 mm subtense (upper) 6.35 mm subtense (Lower) Part No.TF6SG-Z

(Black Spring) 1 piece

5 mm subtense (upper)

Part No.TF6XG-Z

6.35 mm subtense (Lower)

Measuring range:

(Black Spring) 1 piece

Hex, shank (convertible shaft)

Hex. shank (convertible shaft) Measuring range: 0.5-3 N • m

(Yellow Spring) 1 piece

Market Areas

China Japan

Korea

Taiwan

Hong Kong

gapor

U.S.A. Canada

UK

Australia

Market Areas	Model	Bit	Detector cord	Auxiliary Arm	Exclusive Battery Charger *Attached one type based
China Japan Korea Taiwan Hong Kong Singapore	HDP-5	Hios shank Ø4 +Bit #0 × 40 mm #1 × 40 mm #2 × 40 mm 1 piece each			Part No.
	HDP-50	Hios shank ⊘5 +Bit #0 × 60 mm #1 × 60 mm #2 × 60 mm 1 piece each	1 piece	1 piece	TCH-MULTI 1piece (A plug) 100V-240V TCH-EU 1piece (C plug) 100V-240V
Europe U.S.A.	HDP-5	6.35 mm hex shank +Bit #1 × 50 mm #2 × 50 mm 1 piece each	Part No. DPC-0506		Calibration Sheet (quantity: 3)
Canada U.K. Australia	HDP-50	6.35 mm hex shank +Bit #1 × 50 mm #2 × 50 mm 1 piece each		1 piece	*Users in Japan, South Korea, Taiwan, Mexico, the United States and Canada do not need an adaptor plug.



Hong Kong



Singapore U.K.



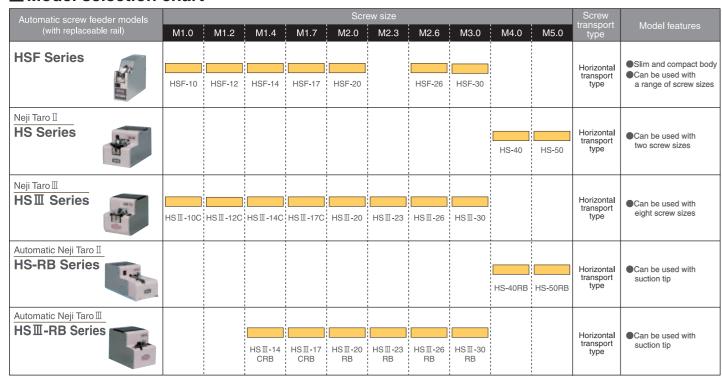
Use for control of torque of impact drivers and torque wrenches.

Free from picking up the screws!

Peripheral equipment

Automatic screw feeder

■ Model selection chart



Neji Taro

Speeding up your assembly lines

- A single unit can handle two screw sizes by simply replacing the rail (M4.0 and M5.0).
- The horizontal transport type can handle special screws



RoHS (€



Specifications

Power	Power input	AC:100V±5% 50/60Hz				
(AC Adapter) Power output		DC:12V 500mA				
Dimensions (mi	m)/weight (kg)	$130(W) \times 215(D) \times 136(H)$ /approximately 3.2kg (including the rail)				
Screw ca	apacity	150cc				
Protection	n circuits	Motor overload stop function				

Included items/1 installed standard rail, 1 transport plate, 1 hexagonal L-shaped wrench 2mm wide

■ The horizontal transport type can handle special screws.

HS ■ Series

• A single unit can handle two screw sizes by simply replacing the rail (M1.0 to M3.0).

Neji Taro Ⅲ)

HSⅢ-10C [M1.0] HSⅢ-20 [M2.0] HSⅢ-23 [M2.3] HSⅢ-12C [M1.2] HSⅢ-14C [M1.4] HSⅢ-26 [M2.6] HSⅢ-17C [M1.7] HSⅢ-30 [M3.0]

RoHS CE

■ Specifications

Power	Power input	AC:100V±5% 50/60Hz				
(AC Adapter) Power output		DC:12V 500mA				
Dimensions (m	m)/weight (kg)	123(W)×181(D)×145(H)/approximately 3kg (including the rail)				
Screw c	apacity	80cc				
Protection	n circuits	Motor overload stop function				

Included items/1 installed standard rail, 1 transport plate, 1 hexagonal L-shaped wrench 2mm wide,

Number of screws that can be supplied

N		Neji Taro 🛚	HS-450		Neji Taro Ⅲ HSⅢ-300							
Model	Model number		HS-50	HSⅢ-10C	HSⅢ-12C	HSⅢ-14C	HSⅢ-17C	HSⅢ-20	HSⅢ-23	HSⅢ-26	HSⅢ-30	
	Screw size	M4.0	M5.0	M1.0	M1.2	M1.4	M1.7	M2.0	M2.3	M2.6	M3.0	
Number of	Head diameter (D)	4.3~10.7	5.3~10.7	1.2~9	1.4~9	1.6~9	1.9~9	2.2~9	2.5~9	2.8~9	3.2~9	
screws that can be supplied	Head thickness (H)	More than 0.5	More than 0.5	More than 0.35	More than 0.35	More than 0.35	More than 0.35	More than 0.35	More than 0.35	More than 0.35	More than 0.35	
be supplied	Shaft length (L)	5~18	6~18	1.6~20	1.8~20	2.0~20	2.3~20	2.6~20	2.9~20	3.2~20	3.6~20	

Replacement rail model number

Model	Neji Taro Ⅱ HS-450		Neji Taro Ⅱ HS-450 Neji Taro Ⅲ HS Ⅲ-300								
Rail model number	R-40	R-50	SR-10	SR-12	SR-14	SR-17	SR-20	SR-23	SR-26	SR-30	
Screw size	M4.0	M5.0	M1.0	M1.2	M1.4	M1.7	M2.0	M2.3	M2.6	M3.0	

The sizes (D), (H) and (L) of screws that can be supplied in the specification chart refers to the following parts

Number of screws that can be supplied

Number of screws that car Head thickness be supplied

Dimensions provided in specification charts

Automatic screw feeder dimensions do not include surface irregularities. See the DXF file for more information.



NEW HSF

Ultra-slim 55mm design that is ideal for use in cell production.

A single unit can handle a range of screw sizes by simply replacing the rail.

HSF Series

HSF-10 [M1.0]

HSF-12 [M1.2]

HSF-14 [M1.4]

HSF-17 [M1.7]

- The ultra-slim and compact design is ideal for working in confined areas.
- Can be adapted to line changes.
- The transport speed can be adjusted to suit the screws being used.
- A range of inputs (AC 100V to 240V).

Specifications

ĺ	Power (AC Adapter)	Power input	AC:100V~240V 50/60Hz			
		Power output	DC:12V 1A			
	Dimensions (m	m)/weight (kg)	55(W)×205(D)×14.25(H)/approximately 2.4kg (including the rail)			
	Screw capacity		40cc			

Included items/1 installed standard rail. 1 hexagonal L-shaped wrench 2mm wide

■ Number of screws that can be supplied

Model				HSF-01	HSF-02			
Mode	I number	HSF-10	HSF-12	HSF-14	HSF-17	HSF-20	HSF-26	HSF-30
	Screw size	M1.0	M1.2	M1.4	M1.7	M2.0	M2.6	M3.0
Number of screws that can be supplied	Head diameter (D)	1.2~2.2	1.4~2.5	1.6~2.8	1.9~3.4	2.2~4.2	2.8~5.0	3.2~5.8
	Head thickness (H)	More than 0.35						
DC Supplied	Shaft length (L)	1.6~16	1.8~16	2.0~16	2.3~16	2.6~16	3.2~16	3.6~16

RoHS (E

HSF-20 [M2.0]

HSF-26 [M2.6]

HSF-30 [M3.0]

Replacement rail model number

Model			HSF	-02			
Rail model number	WR-10	WR-12	WR-14	WR-17	WR-20	WR-26	WR-30
Screw size	M1.0	M1.2	M1.4	M1.7	M2.0	M2.6	M3.0

Neji Taro (for automatic line and vacuum pick up)

Speeding up your automated lines

- A single unit can handle two screw sizes by simply replacing the rail
- A fast supply speed is more than capable of supplying screws to the automated tact (M3×8, 120 screws/minute).
- Compatible with suction tips.



Specifications

Neji Taro **I**

HS-RB Series RoHS (E

HS-40RB [M4.0] HS-50RB [M5.0]

- A single unit can handle six screw sizes by simply replacing the rail (M1.4 to M3.0).
- A fast supply speed is more than capable of supplying screws to the automated tact (M3×8, 120 screws/minute).
- Compatible with suction tips.



■ Specifications

Neji Taro Ⅲ

HSⅢ-RB Series

AC:100V±5% 50/60Hz

HSII-14CRB [M1.4] HSII-20RB [M2.0] HSⅢ-17CRB [M1.7] HSⅢ-23RB [M2.3]

RoHS (E

HSⅢ-26RB [M2.6]

HSⅢ-30RB [M3.0]

Power	Power input	AC:100V±5% 50/60Hz			
(AC Adapter)	Power output	DC:12V 500mA			
Dimensions (m	m)/weight (kg)	134(W)×275(D)×136(H)/approximately 4.2kg (including the rail			
Screw capacity		150cc			
Protection circuits		Motor overload stop function			

• Included items/1 installed standard rail, 1 transport plate, 1 hexagonal L-shaped wrench 2mm wide,

	(AC Adapter) Power output		DC:12V 500mA				
Dimensions (mm)/weight (kg)			124(W)×181(D)×144(H)/approximately 3kg (including the rail)				
	Screw c	apacity	80cc				
	Protection circuits		Motor overload stop function				

• Included items/1 installed standard rail, 1 transport plate, 1 hexagonal L-shaped wrench 2mm wide, 1 0.35mm gauge board, 1 escaping plate

Number of screws that can be supplied

- Nullibel O	indiffuel of screws that can be supplied									
Model Neji Taro I HS-450RB					Neji Taro II HS III-300RB					
Model number		HS-40RB	HS-50RB	HSⅢ-14CRB	HSⅢ-17CRB	HSⅢ-20RB	HSⅢ-23RB	HSⅢ-26RB	HSⅢ-30RB	
	Screw size	M4.0	M5.0	M1.4	M1.7	M2.0	M2.3	M2.6	M3.0	
Number of	Head diameter (D)	4.3~10.7	5.3~10.7	1.6~9	1.9~9	2.2~9	2.5~9	2.8~9	3.2~9	
screws that can be supplied	Head thickness (H)	More than 0.5	More than 0.5	More than 0.35	More than 0.35	More than 0.35	More than 0.35	More than 0.35	More than 0.35	
20 oappiloa	Shaft length (L)	5~18	6~18	2.0~20	2.3~20	2.6~20	2.9~20	3.2~20	3.6~20	

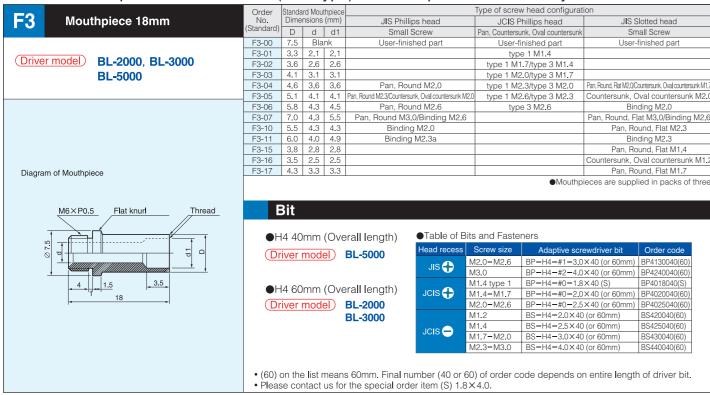
Replacement rail model number

Model	Neji Taro 🏻	HS-450RB		Neji Taro Ⅲ HS Ⅲ-300RB							
Rail model number	R-40RB	R-50RB	SR-14RB	SR-17RB	SR-20RB	SR-23RB	SR-26RB	SR-30RB			
Screw size	M4.0	M5.0	M1.4	M1.7	M2.0	M2.3	M2.6	M3.0			

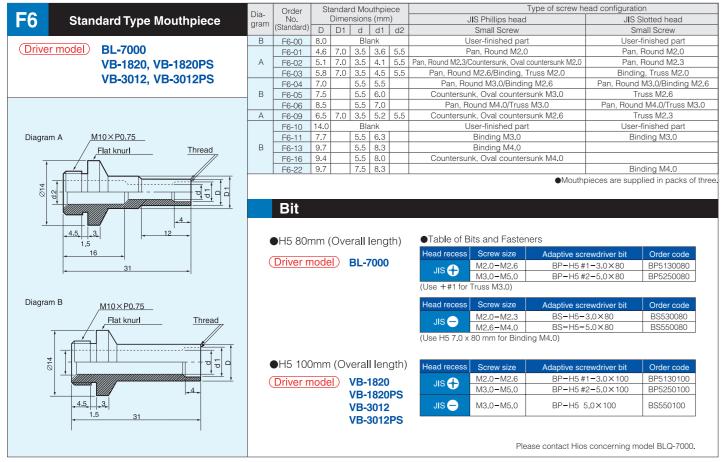
HIOS shank

Mouthpieces

■Table of Mouthpieces and Fasteners (Mini Type) Standard parts are of BS only.



● Table of Mouthpieces and Fasteners (Standard Type) Standard parts are of BS only.



Blank Mouthpiece Order Code No.

Model	Order Code	Size (mm)	Package
Blank	F3-00	Ø8×18	3 pieces/1 PACK
Mouthpiece	F6-00	Ø8×31	3 pieces/1 PACK
	F6-10	Ø14.0×31	3 pieces/1 PACK

Bit Series

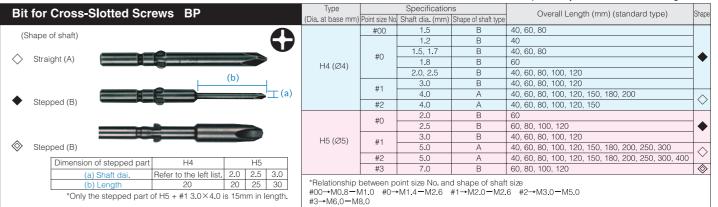
(Driver model)

H4(∅4)

BL-2000, BL-3000, BL-5000 BL-5000-15, BL-5000-20 VB-1510, VB-1510PS, VB-1510-18 VB-1510-18PS

H5(Ø5) BL-5020, BL-7000, BL-7000-20 VB-1820, VB-1820PS, VB-3012 VB-3012PS

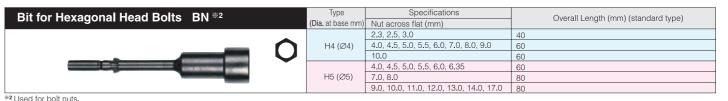
* Please address inquiries to your Hios dealer for hexagonal bit.



Rit	for Slotted Screw	e RS		Туре		Specifications	3	Overall Length (mm) (standard type)	Shape
Dit	ioi Siotted Screw	3 00		(Dia. at base mm)	Blade width (mm)	Blade thickness (mm)	Shape of shaft type	Overall Length (mm) (standard type)	Опаро
	4 4 40				1.1	0.28	В	60, 80	
(Sh	ape of shaft)		_		1.3	0.28	В	60, 80	
					1.5	0.3	В	40, 60, 80	
	Straight (A)				1.7	0.3	В	40, 60, 80	
			(1.)		1.8	0.4	В	60, 80	
			(b)	H4 (Ø4)	2.0	0.4	В	40, 60, 80	
	Stepped (B)				2.3	0.4	В	60, 80	
•	5.5pp5d (2)				2.5	0.4	В	40, 60, 80	
					2.8	0.4	В	60, 80	
					3.0	0.4	В	40, 60, 80	
	Stepped (B)				4.0	0.6	Α	40, 60, 80, 100	
		_			2.0	0.4	В	60	
	Dimension of stepped part	H4	H5		2.5	0.4	В	60	
		Refer to the left list.	2.0 2.5 3.0 4.0	H5 (Ø5)	3.0	0.4	В	60, 80	
	(a) Blade Width	20	20 25 30 30	110 (20)	4.0	0.6	В	60	
	(b) Length				5.0	0.7	А	60, 80, 100, 120, 150, 180	
	Only the stepped	ı parı or mə + #1 3.0	×4.0 is 15mm in length.		7.0	1.0	В	60	

Bit for Hexagonal Socket Head Screws BH *1	Туре	Specifications	Overall Length (mm) (standard type)
Dit for fickagonal occretificad ocicws Dif	(Dia. at base mm)	Hex. across flat (mm)	O voralii Eorigiii (min) (otamaara typo)
		0.89, 1.5, 2.0, 3.0	60
	H4 (Ø4)	1.27	60, 100
		2.5	60, 100, 120
		1.27	70
(A) type	H5 (Ø5)	1.5, 3.0, 4.0, 6.0	70, 100
(A) type, across flats of less than 1.5mm		2.0, 2.5, 5.0	70, 100, 120

^{*1} Used for tightening hollow set screws, cap screws, etc.



Bit for Hexagonal Nuts BC *2	Туре	Specifications	Overall Langth (mm) (standard type)
Dit for Hexagorial Nuts DC	(Dia. at base mm)	Nut across flat (mm)	Overall Length (mm) (standard type)
	114 (04)	4.0, 4.5, 5.0, 5.5, 6.0, 7.0	60
	H4 (Ø4)	8.0	65
	LIE (OE)	4.0, 4.5, 5.0, 5.5, 6.0, 7.0	60
	H5 (Ø5)	8.0	65

^{*2} Used for bolt nuts.

●Bit order codes explained Example 1: To order a Phillips head bit for a mini driver with a #1 point size, 3 mm in shaft diameter and 40 mm long, write the following: BP—H4—# 1 —3.0—40mm Example 2: To order a slotted bit for a standard driver with a 3.0 mm Blade width, and 80 mm long, write the following: BS—H5—3.0—0.4—80mm

Bit classification	Bit specs
BP	(H4 or H5)—(Point size No.)—(Shaft dia.)—(Overall length in mm)
BS	(H4 or H5)-(Blade width)-(Blade thickness)-(Overall length in mm)
BH	(H4 or H5)-(Hex. across flat)-(Overall length in mm)
BN	(H4 or H5)—(Nut across flat)—(Overall length in mm)
BC	(H4 or H5)—(Nut across flat)—(Overall length in mm)

When placing an order

- One order for standard bits should not be less than one pack (10 pieces).
- One order for special bits should be:
- For BT, BP, BS and BH types, not less than one lot (100 pieces).
 For BN type, not less than one lot (50 pieces).
 For BC type, not less than one lot (10 pieces).

Order codes

pp.7-8

Brushless screwdriver

■BL Series

Order Code	Bit
BL-2000	H4
BL-3000	H4
BL-3000X	1/4HEX
BL-5000	H4
BL-5000X5	5HEX
BL-5000X	1/4HEX
BL-5000-15	H4
BL-5000X5-15	5HEX
BL-5000X-15	1/4HEX
BL-5000-20	H4
BL-5000X5-20	5HEX
BL-5000X-20	1/4HEX
BL-5020	H5
BL-5020X5	5HEX
BL-5020X	1/4HEX
BL-7000	H5 & 5HEX
BL-7000X	1/4HEX
BL-7000X-HT	1/4HEX
BL-7000-20	H5 & 5HEX
BL-7000X-20	1/4HEX
	BL-2000 BL-3000 BL-3000X BL-5000X BL-5000X5 BL-5000X BL-5000X5 BL-5000X5-15 BL-5000X-15 BL-5000X-20 BL-5000X-20 BL-5020X BL-5020X BL-7000X BL-7000X BL-7000X BL-7000X-20

Power supply for BL Series

■T-30BL

Model	Order Code	Plug
T-30BL	T-30BL	Α
	T-30BL-UL	A-2
	T-30BL-EU-HK	С
	T-30BL-UK-SP	BF
	T-30BL-CN	S

■T-70BL

Model	Order Code	Plug
T-70BL	T-70BL	Α
	T-70BL-UL	A-2
	T-70BL-EU-HK	С
	T-70BL-UK-SP	BF
	T-70BL-CN	S

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Brushless screwdriver

■VB Series

● F	יחולי	· A Ti	vne (

Plug: A Type (AC100		
Model	Order Code	Bit
VB-1510	VB-1510	H4
	VB-1510X5	5HEX
VB-1510PS	VB-1510PS	H4
	VB-1510PSX5	5HEX
VB-1510-18	VB-1510-18	H4
	VB-1510X5-18	5HEX
VB-1510PS-18	VB-1510PS-18	H4
	VB-1510PSX5-18	5HEX
VB-1820	VB-1820	H5 & 5HEX
	VB-1820X	1/4HEX
VB-1820PS	VB-1820PS	H5 & 5HEX
	VB-1820PSX	1/4HEX
VB-3012	VB-3012	H5 & 5HEX
	VB-3012X	1/4HEX
VB-3012PS	VB-3012PS	H5 & 5HEX
	VB-3012PSX	1/4HEX
VB-4504PS*	VB-4504PSX	1/4HEX

*Shockless Stand Attached

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Brushless screwdriver

■VB Series •Plug: A-2 Type (AC120V)			
Model	Order Code	Bit	
VB-1510	VB-1510-120	H4	
	VB-1510X5-120	5HEX	
	VB-1510X-120	1/4HEX	
VB-1510PS	VB-1510PS-120	H4	
	VB-1510PSX5-120	5HEX	
	VB-1510PSX-120	1/4HEX	
VB-1510-18	VB-1510-18-120	H4	
	VB-1510X5-18-120	5HEX	
	VB-1510PSX-18-120	1/4HEX	
VB-1510PS-18	VB-1510PS-18-120	H4	
	VB-1510PSX5-18-120	5HEX	
	VB-1510PSX-18-120	1/4HEX	
VB-1820	VB-1820-120	H5 & 5HEX	
	VB-1820X-120	1/4HEXH	
VB-1820PS	VB-1820PS-120	H5 & 5HEX	
	VB-1820PSX-120	1/4HEX	
VB-3012	VB-3012-120	H5 & 5HEX	
	VB-3012X-120	1/4HEXH	
VB-3012PS	VB-3012PS-120	5 & 5HEX	
	VB-3012PSX-120	1/4HEX	
VB-4504	VB-4504X-120	1/4HFX	

■VB Series •Plug: C Type (AC 220V)

VB-4504PSX-120

Model	Order Code	Bit
VB-1510	VB-1510-B	H4
	VB-1510X5-B	5HEX
	VB-1510X-B	1/4HEX
VB-1510PS	VB-1510PS-B	H4
	VB-1510PSX5-B	5HEX
	VB-1510PSX-B	1/4HEX
VB-1510-18	VB-1510-18-B	H4
	VB-1510X5-18-B	5HEX
	VB-1510X-18-B	1/4HEX
VB-1510PS-18	VB-1510PS-18-B	H4
	VB-1510PSX5-18-B	5HEX
	VB-1510PSX-18-B	1/4HEX
VB-1820	VB-1820-B	H5 & 5HEX
	VB-1820X-B	1/4HEXH
VB-1820PS	VB-1820PS-B	H5 & 5HEX
	VB-1820PSX-B	1/4HEX
VB-3012	VB-3012-B	H5 & 5HEX
	VB-3012X-B	1/4HEXH
VB-3012PS	VB-3012PS-B	H5 & 5HEX
	VB-3012PSX-B	1/4HEX
VB-4504	VB-4504X-B	1/4HEX
VB-4504PS	VB-4504PSX-B	1/4HEX

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PG Brushless screwdriver

■PG Series (onl	y	Lever	start	type)
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Model	Order Code	Bit
PG-3000	PG-3000	H4
PG-5000	PG-5000	H4
PG-7000	PG-7000	H5 & 5HEX
	PG-7000X	1/4HEX

■Control Unit PG-01

Ι.			
	Model	Order Code	
	PG-01	PG-01-E	

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Power supply with screw counter series

■BLOP-STC3

Model	Order Code	Plug
BLOP-STC3	BLOP-STC3	A-1
	BLOP-STC-3USA	A-2
	BLOP-STC-3EUHK	С
	BLOP-STC-3UKSP	BF
	BLOP-STC-3-CN	S

■VZOP-STC

Model	Order Code	Plug
VZOP-STC	VZOP-STC	A-1
	VZOP-STC-USA	A-2
	VZOP-STC-EUHK	С
	VZOP-STC-UKSP	BF
	VZOP-STC-CN	S

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1/4HEX

Brushless screwdriver Variations

■BL-ESD Series

BE EOD COINCO			
Model	Order Code	Bit	
BL-3000ESD	BL-3000ESD	H4	
	BL-3000X-ESD	1/4HEX	
BL-5000ESD	BL-5000ESD	H4	
	BL-5000X5-ESD	5HEX	
	BL-5000X-ESD	1/4HEX	
BL-5000ESD-15	BL-5000ESD-15	H4	
	BL-5000X5-ESD-15	5HEX	
	BL-5000X-ESD-15	1/4HEX	
BL-5000ESD-20	BL-5000ESD-20	H4	
	BL-5000X5-ESD-20	5HEX	
	BL-5000X-ESD-20	1/4HEX	
BL-5020ESD	BL-5020ESD	H5	
	BL-5020X5-ESD	5HEX	
	BL-5020X-ESD	1/4HEX	
BL-7000ESD	BL-7000ESD	H5 & 5HEX	
	BL-7000X-ESD	1/4HEX	
BL-7000HTESD	BL-7000X-HT-ESD	1/4HEX	
BL-7000ESD-20	BL-7000ESD-20	H5 & 5HEX	
	BL-7000X-ESD-20	1/4HEX	

■BLQ-CR-ESD Series

Model	Order Code	Bit
BLQ-2000CR-ESD	BLQ-2000CR	H4
BLQ-3000CR-ESD	BLQ-3000CR-ESD	H4
BLQ-5000CR-ESD	BLQ-5000CR-ESD	H4
BLQ-5000CR-ESD-15	BLQ-5000CR-ESD-15	H4
BLQ-7000CR-ESD	BLQ-7000CR-ESD	H5 & 5HEX

■BLQ Series

Model	Order Code	Bit
BLQ-2000	BLQ-2000	H4
	BLQ-2000-ESD	H4 ESD
BLQ-3000	BLQ-3000	H4
BLQ-5000	BLQ-5000	H4
BLQ-7000	BLQ-7000	H5 & 5HE)

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Brushless screwdriver Variations

■BLQ-CR Series

Model	Order Code	Bit
BLQ-2000CR	BLQ-2000CR	H4
BLQ-3000CR	BLQ-3000CR	H4
BLQ-5000CR	BLQ-5000CR	H4
BLQ-5000CR-15	BLQ-5000CR-15	H4
BLQ-7000CR	BLQ-7000CR	H5 & 5HEX

Screwdriver for screw counter

■BL-OPC Series

■VB-OPC Series

VB-1510-OPC

VB-1510PS-OPC

VB-1510-18-OPC

VB-1510PS-18-OPC

VB-1820-OPC

VB-1820PS-OPC

VB-3012-OPC

VB-3012PS-OPC

VB-4504PS-OPC*

Model	Order Code	Bit
BL-2000-OPC	BL-2000-OPC	H4
BL-3000-OPC	BL-3000-OPC	H4
	BL-3000X-OPC	1/4HEX
BL-5000-OPC	BL-5000-OPC	H4
	BL-5000X5-OPC	5HEX
	BL-5000X-OPC	1/4HEX
BL-5000-15-OPC	BL-5000-15-OPC	H4
	BL-5000X5-15-OPC	5HEX
	BL-5000X-15-OPC	1/4HEX
BL-5000-20-OPC	BL-5000-20-OPC	H4
	BL-5000X5-20-OPC	5HEX
	BL-5000X-20-OPC	1/4HEX
BL-5020-OPC	BL-5020-OPC	H5
	BL-5020X5-OPC	5HEX
	BL-5020X-OPC	1/4HEX
BL-7000-OPC	BL-7000-OPC	H5 & 5HEX
	BL-7000X-OPC	1/4HEX
BL-7000HT-OPC	BL-7000HT-OPC	1/4HEX
BL-7000-20-OPC	BL-7000-20-OPC	H5 & 5HEX

VB-1510-OPC

VB-1510X5-OP

VB-1510PS-OPC

VB-1510PSX5-OPC

VB-1510X5-18-OPC

VB-1510PS-18-OPC

VB-1510PSX5-18-OPC 5HEX

VB-1510-18-OPC

VB-1820-OPC

VB-1820X-OPC

VB-1820PS-OPC

VB-1820PSX-OPC

VB-3012-OPC

VB-3012X-OP0

VB-3012PS-OPC

VB-4504PSX-OPC

●Plug: A type (AC 100V)

5HEX

5HEX

H4

H4

H5 & 5HEX

H5 & 5HEX

H5 & 5HEX

H5 & 5HEX

1/4HEX

1/4HEX

1/4HEX

1/4HEX

1/4HEX

Screw Range Box

Rubber-

Plate

Model Order Code Plug VP-3 VP-3 A-1 VP-3-120USA A-2 VP-3-220

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BLQ-2000

BLQ-3000

BLQ-5000

BLQ-7000

VB-1820

VB-3012

VB-4504 (120V & 220-240V)

•Include PS type

Screw Steel

Range Plates

Plates

(100V, 120V & 220-240V)

(100V, 120V & 220-240V)

Screw range for suction Head-equipped driver

SRP-F1.7

SRP-F2.0

SRP-F2.3

SRP-F2.6

SRP-F3.0

SRP-F4.0

SRP-R1.4

SRP-R1.7

SRP-R2.0 SRP-R2.3

SRP-R2.6

SRP-R3.0

SRP-R4.0

Suction Attachment

CLQ2-SET

BLQ3N-SET

BLQ5-SET

BLQ7-SET

VZQ18-SET

2.0

2.3

2.6

4.0

1.7

2.3

2.6

3.0

1.2-1.4

CLQ2-SET-ESD

Peripherals and Accessories

Pistol Attachment

+	Model	Order Code	Driver model
╛	PAB-70	PAB-70	BL-7000
	PAB-18PS	PAB-18PS	VB-1820PS &
			VB-3012PS

■VBH-PS-OPC Series

*Shockless Stand Attached

●Plug: A type (AC 100V or		2 100V only)
Model	Order Code	Bit
VBH-1820PS-OPC	VBH-1820PSX-OPC	1/4HEX
VBH-3012PS-OPC	VBH-3012PSX-OPC	1/4HFX

Angle attachment

Order Code	Driver mode
ANGLV-Z-CH (Hios shank H5)	VB-1820 /
ANGLV-Z-XX (Hex shank)	VB-3012

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Vertical screwdriver Operating Stand

Model	Order Code	Driver model
VMS-40	VMS-40	BL driver &
VMS-50	VMS-50	VB driver

NOTE: The attachment holder with BL-7000 and VB driver is optional item. Please contact Hios distributor before ordering VMS for BL-7000 and VB drivers.

Flexible screwdriver cord

Model	Order Code	Driver model
Flexible cord 2m	CL4-0610H-5P-2	BL driver(5P)
Flexible cord 3m	CL4-0610H-6P-3	BL-OPC driver(6p)

Screwdriver extension cord

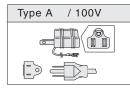
Model	Order Code	Driver model
Extension cord 2m	EXTCD-5P3M	BL driver(5P
Extension cord 3m	EXTCD-5P5M	BL driver(SF

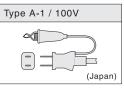
Spring balancer

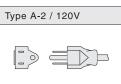
Model	Order Code	Driver model
Spring balancer	SPBL-S	BL driver*
	SPBL-H	BL-7000 & VB driver

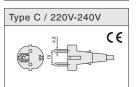
^{*}Excluding the BL-7000

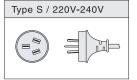
•Plug

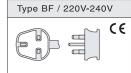












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Order codes

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Digital Torque Meter series

HP series

■HP-10 AC 100V

Model	Order Code	Measuring	Shank
HP-10	HPN-10-A1	NI (NI	HIOS
	HPN-10X-A1	N•m/N•cm	HEX

■HP-10 AC 120V

Model	Order Code	Measuring	Shank
HP-10	HPN-10-A2	N•m/lbf•in	HIOS
	HPN-10X-A2	Nemilionali	HEX
	HPN-10-A3	Namiliateam	HIOS
	HPN-10X-A3	N•m/kgf•cm	HEX

■HP-10 AC 220V-240V

Model	Order Code	Measuring	Shank
HP-10	HPN-10-C1	N•m/N•cm	HIOS
	HPN-10X-C1	IN TITI/IN TOTAL	HEX
	HPN-10-C2	N•m/lbf•in	HIOS
	HPN-10X-C2	IN THINIDITI	HEX
	HPN-10-C3	N•m/kgf•cm	HIOS
	HPN-10X-C3	IN THINK GITCHI	HEX
	HPN-10-D	N•m/lbf•in	HIOS
	HPN-10X-D		HEX

■HP-100 AC 100V

Model	Order Code	Measuring	Shank
HP-100	HPN-100-A1	NI /NI	HIOS
	HPN-100X-A1	N•m/N•cm	HEX

■HP-100 AC 120V

Model	Order Code	Measuring	
HP-100	HPN-100-A2	N•m/lbf•in	HIOS
	HPN-100X-A2	IN THINIDITI	HEX
	HPN-100-A3	Name // corfe and	HIOS
	HPN-100X-A3	N•m/kgf•cm	HEX

■HP-100 AC 220V-240V

Model	Order Code	Measuring	Shank
HP-100	HPN-100-C1	N•m/N•cm	HIOS
	HPN-100X-C1	INTII/INTCIII	HEX
	HPN-100-C2	N•m/lbf•in	HIOS
	HPN-100X-C2	1/1/101/101	HEX
	HPN-100-C3	Name // code and	HIOS
	HPN-100X-C3	N•m/kgf•cm	HEX
	HPN-100-D	N.L. and Alle Co. Lan	HIOS
	HPN-100X-D	N•m/lbf•in	HEX

HDP series

■HDP-5 AC 100V

Model	Order Code	Measuring	Shank
HDP-5	HDPN-5-A1	N•m/N•cm	HIOS
	HDPN-5X-A1	IN THINING CITI	HEX

■HDP-5 AC 120V

Model	Order Code	Measuring	Shank
HDP-5	HDPN-5-A2	N•m/lbf•in	HIOS
	HDPN-5X-A2	INTINIDITII	HEX
	HDPN-5-A3	Nam/kafaam	HIOS
	HDPN-5X-A3	N•m/kgf•cm	HEX

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Digital Torque Meter series

HDP series

■HDP-5	0 AC 100V		
Model	Order Code	Measuring	Shank
HDP-50	HDPN-50-A1	Nam/Naom	HIOS
	HDPN-50X-A1	N•m/N•cm	HFX

■HDP-50

יים וו	AC 120V		
Model	Order Code	Measuring	Shank
HDP-50	HDPN-50-A2	Nam/Ibfain	HIOS
	HDPN-50X-A2	N•m/lbf•in	HEX
	HDPN-50-A3	Nam/kafaam	HIOS
	HDPN-50X-A3	N•m/kgf•cm	HEX

■HDP-50

TIDE-3	AC 220V-2	4U V	
Model	Order Code	Measuring	Shank
HDP-50	HDPN-50-C1	N•m/N•cm	HIOS
	HDPN-50X-C1	IN THINING CITE	HEX
	HDPN-50-C2	N•m/lbf•in	HIOS
	HDPN-50X-C2	Nelli/IDIelli	HEX
	HDPN-50-C3	NI /If	HIOS
	HDPN-50X-C3	N•m/kgf•cm	HEX
	HDPN-50-D	N•m/lbf•in	HIOS
	HDPN-50X-D	IN THE INTERIOR	HEX

■HDP-100 (Option) AC 100V

	7 70 1001		
Model	Order Code	Measuring	Shank
HDP-100	HDPN-100-A1	Nam/Naom	HIOS
	HDPN-100X-A1	N•m/N•cm	HEX

HDP-100 (Option) AC 120V

Model	Order Code	Measuring	Shank
HDP-100	HDPN-100-A2	N•m/lbf•in	HIOS
	HDPN-100X-A2	14911/1019111	HEX
	HDPN-100-A3	N•m/kgf•cm	HIOS
	HDPN-100X-A3	IN TITING TO CITI	HEX

HDP-100 (Option) AC 220V-240V

Model	Order Code	Measuring	Shank
HDP-100	HDPN-100-C1	N•m/N•cm	HIOS
	HDPN-100X-C1	IN TII/IN CIII	HEX
	HDPN-100-C2	N•m/lbf•in	HIOS
	HDPN-100X-C2	IN TIME INTERIOR	HEX
	HDPN-100-C3	N•m/kgf•cm	HIOS
	HDPN-100X-C3	in ili/kgi*ciii	HEX
	HDPN-100-D	N•m/lbf•in	HIOS
	HDPN-100X-D	14*11/101*111	HEX

Standard Accessories

■Battery Charger For HP Series and HDP Series

Model	Order Code	Plug
TCH-MULTI	TCH-MULTI	A Plug
TCH-EU	TCH-EU	C Plug

■Detector cord

Model	Order Code	
DPC-0506	HDPN-100-C1	Detector cord for HDP-5,
		HDP-50, HDP-100

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Digital Torque Meter series

HM series

■HM-10

Model	Order Code	Voltage
HM-10	HM-10	100V
	HM-10-120	110V-120V
	HM-10-220	220V-240V

■HM-100

Model	Order Code	Voltage		
HM-100	HM-100	100V		
	HM-100-120	110V-120V		
	HM-100-220	220V-240V		

HIT series

■HIT-200

Model	Order Code	Voltage
HIT-200	HIT-200	100V
	HIT-200-120	110V-120V
	HIT-200-220	220V-240V

■HIT-500

Model	Order Code	Voltage
HIT-500	HIT-500	100V
	HIT-500-120	110V-120V
	HIT-500-220	220V-240V

■HIT-2000

Model	Order Code	Voltage
HIT-2000	HIT-2000	100V
	HIT-2000-120	110V-120V
	HIT-2000-220	220V-240V

Standard Accessories Battery Charger

■HM Series, HIT Series

Model	Order Code	Voltage
TCH-100N	TCH-100N	100V, (JAPAN)
TCH-120N	TCH-120N	110V-120V
		(Korea, Taiwan, U.S.A, Canada)
TCH-230G	TCH-230G	220V-240V
		(Hong Kong, Europe, China)
TCH-230B	TCH-230B	220V-240V
		(Singapore, U.K., Australia)

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Automatic Screw Feeder

■HSF series

nor series			Halls	
Model	Order Code	Nominal dia.	Order Code	Nominal dia.
HSF-10	HSF-10	M1.0	WR-10	M1.0
HSF-12	HSF-12	M1.2	WR-12	M1.2
HSF-14	HSF-14	M1.4	WR-14	M1.4
HSF-17	HSF-17	M1.7	WR-17	M1.7
HSF-20	HSF-20	M2.0	WR-20	M2.0
HSF-26	HSF-26	M2.6	WR-26	M2.6
HSF-30	HSF-30	M3.0	WR-30	M3.0

■HS series

●Rails

● Deile

Model	Order Code	Nominal dia.	Order Code	Nominal dia
HS-40	HS-40-EC	M4.0	R-40	M4.0
HS-50	HS-50-EC	M5.0	R-50	M5.0

■HSII series

●Rails

Model	Order Code	Nominal dia.	Order Code	Nominal dia.
HSⅢ-10C	HS-10-3-EC	M1.0	SR-10	M1.0
HSⅢ-12C	HS-12-3-EC	M1.2	SR-12	M1.2
HSⅢ-14C	HS-14-3-EC	M1.4	SR-14	M1.4
HSⅢ-17C	HS-17-3-EC	M1.7	SR-17	M1.7
HSⅢ-20	HS-20-3-EC	M2.0	SR-20	M2.0
HSⅢ-23	HS-23-3-EC	M2.3	SR-23	M2.3
HSⅢ-26	HS-26-3-EC	M2.6	SR-26	M2.6
HSⅢ-30	HS-30-3-EC	M3.0	SR-30	M3.0

■HS-RB series

Rails

Model	Order Code	Nominal dia.	Order Code	Nominal dia
HS-40RB	HS-40RB-EC	M4.0	R-40RB	M4.0
HS-50RB	HS-50RB-EC	M5.0	R-50RB	M5.0

■HSIII-BB series

■Raile

I IO m-I ID Selles			Rails	
Model	Order Code	Nominal dia.	Order Code	Nominal dia.
HSⅢ-14CRB	HS-14-3RB-EC	M1.4	SR-14RB	M1.4
HSⅢ-17CRB	HS-17-3RB-EC	M1.7	SR-17RB	M1.7
HSⅢ-20RB	HS-20-3RB-EC	M2.0	SR-20RB	M2.0
HSⅢ-23RB	HS-23-3RB-EC	M2.3	SR-23RB	M2.3
HSⅢ-26RB	HS-26-3RB-EC	M2.6	SR-26RB	M2.6
HSⅢ-30RB	HS-30-3RB-EC	M3.0	SR-30RB	M3.0

Standard Accessories

■AC Adaptor

Model	Order Code	Screw Feeder model
100V-240V	HSF	HSF
100V	HS-AD	HS, HSⅢ, HS-RB,
220V-240V	HS-AD220	HSⅢ-RB

HM and HIT series

■Power Units and countries where they can be used

HP and HDP series



TCH-MULTI (A plug)



TCH-EU (C plug)



100V Japan



TCH-120N

korea, Taiwan

U.S.A., Canada

120V



TCH-230G 220V-240V Hong Kong Europe, China



TCH-230B 220V-240V Singapore U.K., Australia