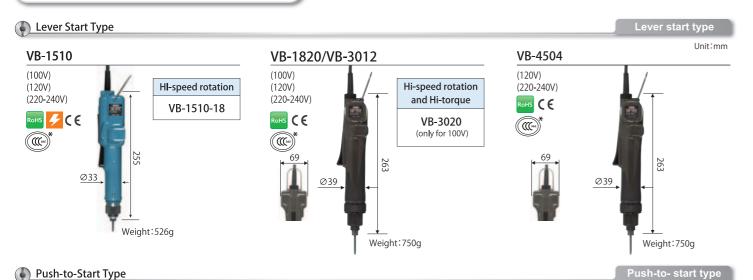
## Energy saving and cost reduction can be achieved by reducing power consumption by about 50% (compared with conventional HIOS product).

- The temperature rise of the motor is reduced by about 30% and reduces errors caused by heating.
- Can be directly plugged into AC outlet.



**VB-1510PS** HI-speed rotation (120V) (220-240V) VB-1510-18PS ((ii)) Ø33 Weight: 526g





### VB Series Specifications

Lever Start Model		VB-1510		VB-1510-18		VB-1820			VB-3012			VB-3020		VB-4504				
Push-to-Start Model			VB-1510PS		VB-1510PS-18		VB-1820PS				/B-30		VB-3020PS		VB-4504PS			
AC input power (±5%)		100V	120V	220-240V	100V 1	20V 2	220-240V	100V	120V	220-240V	100V	120V	220-240V	100V	100V	120V	220-240V	
Power consumption(W)*1		tion(W)*1	20W	20W	25W	20W 2	20W	25W	40W	40W	32W	40W	40W	32W	20W	40W	40W	32W
Out	nut Taraua	N∙m	0.25 - 1.5		0.2 - 1		0.4 - 1.8			0.5 - 3		1 - 3	1 - 4.5					
	put Torque	lbf•in	2.2 <b>-</b> 13		2.2 - 8.7		3.5 - 16			4.3 - 26			8.7 - 26	8.7 - 39.1				
Rang	ge	(kgf·cm)	(2.5 - 15)		(2 - 10)			(4 - 18)			(5 - 30)			(10 - 30)		(10 - 45)		
Torque Switching			Stepless adjustment		Stepless adjustment		Stepless adjustment			Stepless adjustment			Stepless adjustment	Stepless adjustment				
Unloaded Rotation Speed (r.p.m)		Speed (r.p.m) $\pm 10\%$	970		1,800		2,000			1,200			2,000	400				
Scre	ew Size	Machine Screw	2.0 - 4.0		2.0 - 4.0		2.6 - 4.0			3.0 - 5.0			3.0 - 5.0	3.0 - 5.0				
(mm	m) Tapping Screw		2.0 - 3.0		2.0 - 3.0		2.6 - 3.0			3.0 - 4.0			3.0 - 4.0	3.0 - 4.0		4.0		
Bit	HIOS Shank		H4		H4		H5 and 5HEX (both can be used)		H5 and 5HEX (both can be used)		th can be used)	H5 and 5HEX (both can be used)		_				
Drive	e HEX Sha	H5 and 5HEX or			H5 and 5HEX or		1/4HEX		1/4HEX		JEV	1/4HEX		1/4HEX				
	HEA SHAIR		1/4HEX		1/4HEX						ILA	1/411LA						
AC Screwdriver Cord length			3m		3m		3m		3m		n	3m		3m				
		+#1 (∅4×40mm)		+#1 (⊘4×40mm)														
		H4	+#2 (∅4×40mm)		+#2 (⊘4×40mm)		/											
		H5	+#1	(⊘5×60mm) +		+#1 (∅5×60mm)		+#1 (∅5×60mm)			+#1 (∅5×60mm)			+#1 (Ø5×60mm)				
A	Bit (one eacl		+#2	(Ø5×	60mm)	+#2 (∅5×60mm)		+#2 (∅5×60mm)			+#2 (⊘5×60mm)		×60mm)	+#2 (Ø5×60mm)				
Accessories			+#1	(5.0×5	50mm)	+#1 (5.0×50mm)		+#1 (5.0×50mm)			+#1 (5.0×50mm)			+#1 (5.0×50mm)	+#1 (5.0×50mm)		50mm)	
sori		1/4HEX	+#2 (5.0×50mm)		+#2 (5.0×50mm)		+#2 (5.0×50mm)			+#2 (5.0×50mm)			+#2 (5.0×50mm)	+#:	+#2 (5.0×50mm)			
es _			_	(5.0×5	50mm)	− (5.0×50mm		mm)	— (5.0×50mm)		— (5.0×50mm)			$-(5.0 \times 50 \text{mm})$ $-(5.0 \times 50 \text{mm})$		(5.0×5	50mm)	
_1	Torque adjus	Silver																
F	Plus screw fo							M2.6 (Pan head machine screw)					M2.6 (Pan head machine screw)			achine screw)		
F	Flat 2P conversion	1pc (v	with gro	und wire)	1pc (with ground wire)			1pc (with ground wire)			1pc (with ground wire)			1pc (with ground wire)	1pc	1pc (with ground wire)		

<sup>\*1</sup> The value of power consumption is an approximate estimate

VB Accessories & Applicable Drivers

## Accessories

# Suction(vacuum) Attachments for VB Series

By making use of negative pressure, the effort needed to pick up screws can be reduced. This suction attachment can even pick up non-ferrous screws such as stainless steel screws by vacuuming, and improve operation efficiency. It can also be used to remove powder dust generated from screw tightening.

#### Order guide

(A), (B) and (C) needed to be purchased separately if you would like to mount this suction device to your VB screwdriver.

\* There are several options of sizes of (A) and (B) depending on the screw size. For more information on the size, please refer to P. 54.

Model		(A) Mouthpiece model	(B) Bits total length	(C) Suction attachment model			
AC100V	VB-3020						
AC100V AC120V AC220V-240V	VB-1820 VB-3012	F6-Standard 31mm	H5 100mm	VZQ18-SET			

Including PS type. Not applicable to VB-4504PS (100V).

HIOS screw counter

### For use with HIOS screw counters



**VB-OPC** 

(100V, 120V) VB-1510-OPC (100V, 120V) VB-1510-18-OPC (100V, 120V) VB-1820-OPC (100V, 120V) VB-3012-OPC

VB-3020-OPC (Including PS type) (100V) (100V, 120V) VB-4504PS-OPC

See P. 40 for details.

These screwdrivers prevent you from skipping screw tightening in combination with the screw counter. • They have a function to output positive rotation, reverse rotation and torque-up (tightening complete) signals.

If you would like to purchase AC220V-240V type. please contact HIOS distributors.

(100V/220V) ··· VB-1510 \ VB-1510PS (100 V / 220V) ··· VB-3012 \ VB-3012PS (100 V / 220V) · · · VB-4504, VB-4504P9

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

## Output torque guide (Including PS type) VB-1510 VB-1510-18 VB-3012 VB-4504 VB-1820 (Silver) VB-3020

**Pistol Attachment** 

PAB-18 (for Lever Start) PAB-18PS (for Push-to-Start)

This attachment converts a standard screwdriver to a pistol-style screwdriver, most suitable for horizontal tightening.



Compatible screwdrivers: PAB-18

VB-1820, VB-3012, VB-3020

VB-1820PS, VB-3012PS, VB-3020PS

#### **Angle Attachment**

ANGLV-Z-CH1 (with HIOS shank) ANGLV-Z-XX1 (with hexagonal shank)

This attachment is most suitable when the available space is very small for screw tightening. This attachment can be fitted to the tip of the screwdriver.

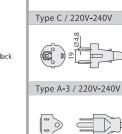


Compatible screwdrivers: VB-1820, VB-3012, VB-3020 (Lever Type only)

Plug type

Type A / 100V

Type A-2 / 120V



Type S / 220V-240V 

http://www.fnengineering.co.th

<sup>\*</sup>There are two types of spring for torque adjustment: for HI (originally fixed to the unit) and for Low (accessory). Use one of them depending on your operating