

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.

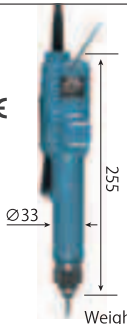
Lever Start Type

Lever start type

Unit: mm

VB-1510

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

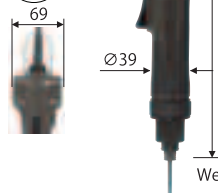


Hi-speed rotation
VB-1510-18

Weight: 526g

VB-1820/VB-3012

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

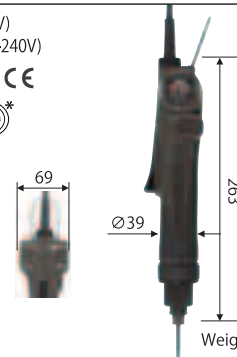


Hi-speed rotation and Hi-torque
VB-3020
(only for 100V)

Weight: 750g

VB-4504

(120V)
(220-240V)



Weight: 750g

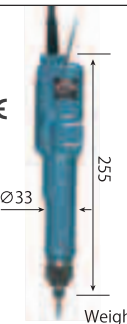
Push-to-Start Type

Push-to-start type

Unit: mm

VB-1510PS

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



Hi-speed rotation
VB-1510-18PS

Weight: 526g

VB-1820PS / VB-3012PS / VB-4504PS

(120V-240V)

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

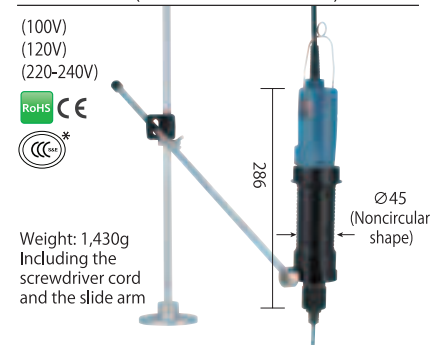


Hi-speed rotation and Hi-torque
VB-3020PS
(only for 100V)

Weight: 750g

VB-4504PS (with shock-less stand)

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



Weight: 1,430g
Including the screwdriver cord and the slide arm

VB Series Specifications

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			VB-3012PS			VB-3020PS			VB-4504PS			
AC input power (±5%)	100V	120V	220-240V	100V	120V	220-240V	100V	120V	220-240V	100V	120V	220-240V	100V	120V	220-240V	100V	120V	220-240V	
Power consumption(W)*1	20W	20W	25W	20W	20W	25W	40W	40W	32W	40W	40W	32W	20W	40W	40W	32W	40W	40W	32W
Output Torque Range	N·m	0.25 - 1.5			0.2 - 1			0.4 - 1.8			0.5 - 3			1 - 3			1 - 4.5		
	lbf·in	2.2 - 13			2.2 - 8.7			3.5 - 16			4.3 - 26			8.7 - 26			8.7 - 39.1		
	(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) ±10%	970			1,800			2,000			1,200			2,000			400			
Screw Size (mm)	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		
	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		
Bit Drive	HIOS Shank	H4			H4			H5 and SHEX (both can be used)			H5 and SHEX (both can be used)			H5 and SHEX (both can be used)			—		
	HEX Shank	H5 and SHEX or 1/4HEX			H5 and SHEX or 1/4HEX			1/4HEX			1/4HEX			1/4HEX			1/4HEX		
AC Screwdriver Cord length	3m			3m			3m			3m			3m			3m			
Accessories	Bit (one each)	H4	+#1 (Ø4.0×40mm)			+#1 (Ø4.0×40mm)			—			—			—				
			+#2 (Ø4.0×40mm)			+#2 (Ø4.0×40mm)			—			—			—				
		H5	+#1 (Ø5.0×60mm)			+#1 (Ø5.0×60mm)			+#1 (Ø5.0×60mm)			+#1 (Ø5.0×60mm)			+#1 (Ø5.0×60mm)				
	+#2 (Ø5.0×60mm)			+#2 (Ø5.0×60mm)			+#2 (Ø5.0×60mm)			+#2 (Ø5.0×60mm)			+#2 (Ø5.0×60mm)						
	1/4HEX	+#1 (5.0×50mm)			+#1 (5.0×50mm)			+#1 (5.0×50mm)			+#1 (5.0×50mm)			+#1 (5.0×50mm)					
+#2 (5.0×50mm)			+#2 (5.0×50mm)			+#2 (5.0×50mm)			+#2 (5.0×50mm)			+#2 (5.0×50mm)							
Torque adjustment spring		Silver			—			—			—			—					
Plus screw for adjustment		—			—			M2.6 (Pan head machine screw)			M2.6 (Pan head machine screw)			M2.6 (Pan head machine screw)					
Flat 2P conversion plug (only for 100V)		1pc (with ground wire)			1pc (with ground wire)			1pc (with ground wire)			1pc (with ground wire)			1pc (with ground wire)					

*1 The value of power consumption is an approximate estimate.

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. 58.

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).

For use with HIOS screw counters

VB-OPC

Models:

- (100V, 120V) VB-1510-OPC
- (100V, 120V) VB-1510-18-OPC
- (100V, 120V) VB-1820-OPC
- (100V, 120V) VB-3012-OPC
- (100V) VB-3020-OPC (Including PS type)
- (100V, 120V) VB-4504PS-OPC

Compatible counters

HIOS screw counter
VZOP-STC



▶ See P. 41-42 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.

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.



RoHS

Compatible screwdrivers:

PAB-18
VB-1820, VB-3012, VB-3020

PAB-18PS
VB-1820PS, VB-3012PS, VB-3020PS

Angle Attachment

ANGLV-Z-CH1 (For HIOS H5 and 5HEX drive*)

ANGLV-Z-XX1 (For 1/4 HEX drive)

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.



The output torque should be 2N·m or lower when you use this attachment.

RoHS

Compatible screwdrivers:

VB-1820, VB-3012, VB-3020 (Lever Type only)

*The bit drive for ANGLV-Z-CH1 is H5. Please contact HIOS distributors for ANGLV-Z-CH1 to use with 5HEX drive bits.

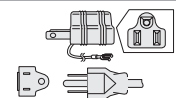
CCC certified models

(100V/220V) ...VB-1510、VB-1510PS (100V/220V) ...VB-3012、VB-3012PS
(100V/220V) ...VB-1820、VB-1820PS (100V/220V) ...VB-4504、VB-4504PS

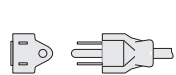
Note: CCC certified models have different specification and order codes from the standard models. Please contact HIOS distributors before ordering.

● Plug type

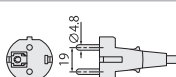
Type A / 100V



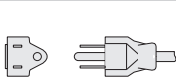
Type A-2 / 120V



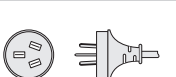
Type C / 220V-240V



Type A-3 / 220V-240V



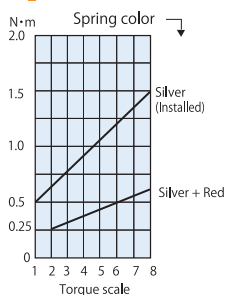
Type S / 220V-240V



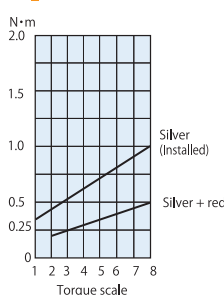
Output torque guide

(Including PS type)

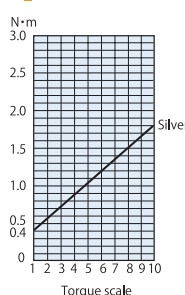
VB-1510



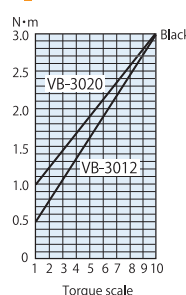
VB-1510-18



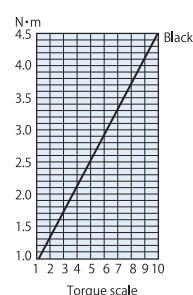
VB-1820 (Silver)



VB-3012 VB-3020



VB-4504



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