

Brushed Screwdriver

VZ Series

(AC Type)

Transformerless

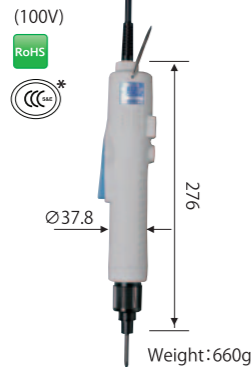
- ## Transformerless screwdrivers suitable for heavy work
- Transformerless type with built-in controller.
 - Can be directly plugged into an AC outlet.
 - Light and slim balanced body design that minimizes operator fatigue.
 - HIOS H5 bit and hexagonal bit with width across flats 5mm (5HEX) can be used. (Not applicable to VZ-1510 and VZ-1501PS)

Lever Start Type

VZ-1510



VZ-1820 VZ-3012/VZ-3007



VZ-1820 VZ-3012/VZ-4506



VZ-1812 VZ-3007/VZ-4504

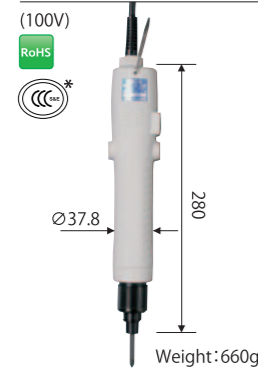


Push-to-Start Type

VZ-1510PS



VZ-1820PS VZ-3012PS/VZ-3007PS



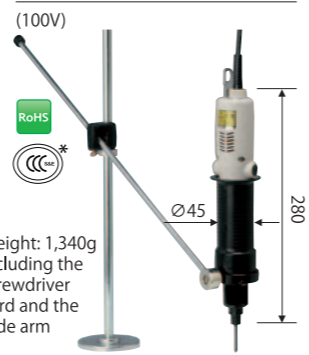
VZ-1820PS VZ-3012PS/VZ-4506PS



VZ-1812PS VZ-3007PS/VZ-4504PS



VZ-4506PS (with shock-less stand)



VZ Series Specifications

Lever Start Model		VZ-1510	VZ-1812	VZ-1820	VZ-3007	VZ-3012	VZ-4504	VZ-4506
Push-to-Start Model		VZ-1510PS	VZ-1812PS	VZ-1820PS	VZ-3007PS	VZ-3012PS	VZ-4504PS	VZ-4506PS
AC Input Power (±5%)		100V	220 - 240V	100V 120V	100V 220-240V	100V 120V	220 - 240V	100V 120V
Power Consumption (W)*1		26W	72W	40W 60W	40W 72W	40W 60W	72W	40W 60W
Output Torque Range	N·m	0.15 - 1.5	0.4 - 1.8	0.4 - 1.8	0.9 - 3	0.9 - 3	1 - 4.5	1 - 4.5
	lbf·in	1.3 - 13	3.5 - 16	3.5 - 16	7.8 - 26	7.8 - 26	8.8 - 39	8.8 - 39
	(kgf·cm)	(1.5 - 15)	(4 - 18)	(4 - 18)	(9 - 30)	(9 - 30)	(10 - 45)	(10 - 45)
Torque Switching		Stepless adjustment	Stepless adjustment	Stepless adjustment	Stepless adjustment	Stepless adjustment	Stepless adjustment	Stepless adjustment
Unloaded Rotation Speed (r.p.m) ±10%		1,000	1,200	2,000	700	1,200	400	600
Screw Size (mm)	Machine Screw	2.0 - 4.0	2.6 - 4.0	2.6 - 4.0	3.0 - 5.0	3.0 - 5.0	3.0 - 5.0	3.0 - 5.0
	Tapping Screw	2.0 - 3.0	2.6 - 3.0	2.6 - 3.0	3.0 - 4.0	3.0 - 4.0	2.6 - 4.0	3.0 - 4.0
Bit Drive	HIOS Shank	H4	H5 and 5HEX	H5 and 5HEX	H5 and 5HEX	H5 and 5HEX	—	—
	HEX Shank	5HEX or 1/4HEX	1/4HEX	1/4HEX	1/4HEX	1/4HEX	1/4HEX	1/4HEX
AC Screwdriver Cord Length		3m	3m	3m	3m	3m	3m	3m
Accessories	Bit (one each)	H4	+ #1 (Ø4×40mm) + #2 (Ø4×40mm)					
		H5	+ #1 (Ø5×60mm) + #2 (Ø5×60mm)	+ #1 (Ø5×60mm) + #2 (Ø5×60mm)	+ #1 (Ø5×60mm) + #2 (Ø5×60mm)	+ #1 (Ø5×60mm) + #2 (Ø5×60mm)		
		1/4HEX	+ #1 (5.0×50mm) + #2 (5.0×50mm) — (5.0×50mm)	+ #1 (5.0×50mm) + #2 (5.0×50mm) — (5.0×50mm)	+ #1 (5.0×50mm) + #2 (5.0×50mm) — (5.0×50mm)	+ #1 (5.0×50mm) + #2 (5.0×50mm) — (5.0×50mm)	+ #1 (5.0×50mm) + #2 (5.0×50mm) — (5.0×50mm)	+ #1 (5.0×50mm) + #2 (5.0×50mm) — (5.0×50mm)
	Torque adjustment spring		Red (Ø1.5)					
	Plus screw for adjustment				M2.6 (pan head machine screw)	M2.6 (pan head machine screw)	M2.6 (pan head machine screw)	
	Carbon brush (Order code)		1 pair (ACL10-0490)	1 pair (VZ18-0480B)	1 pair (VZ18-0480)	1 pair (VZ18-0480B)	1 pair (VZ18-0480)	1 pair (VZ18-0480)
Flat 2P conversion plug (only for 100V)		1 pc (with ground wire)		1 pc (with ground wire)	1 pc (with ground wire)	1 pc (with ground wire)	1 pc (with ground wire)	1 pc (with ground wire)

*1 The value of power consumption is approximate estimate. *2 If you select the hexagonal shank, no bit is included. Please purchase standard-sized hexagonal bits from commercial stores (refer to P. 51).

Variations

VZ Applicable Drivers



Suction (Vacuum) VZQ

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) and (B) needed to be purchased separately if you have a suction-type screwdriver. (A), (B) and (C) needed to be purchased separately if you want to convert your screwdriver to a suction type.

* 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	VZQ-1510	F3-standard 18mm	H4 60mm	VZQ10-SET
AC100V, AC120V, AC220V-240V	VZQ-1812, 1820, 3007, 3012	F6-Standard 31mm	H5 100mm	VZQ18-SET

For use with HIOS screw counters

VZ-OPC

Models:
 (100V) VZ-1510-OPC
 (100V, 120V) VZ-1820-OPC
 (100V) VZ-3007-OPC
 (100V, 120V) VZ-3012-OPC (including PS type)
 (100V) VZ-4506PS-OPC (with shockless stand)

Compatible counter

HIOS Screw counter
VZOP-STC



► 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.

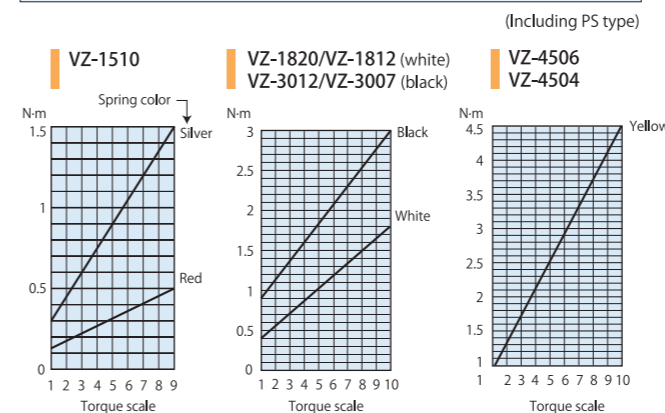
If you would like to purchase AC220V-240V type, please contact HIOS distributors.

CCC certified models

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

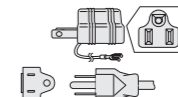
Note: CCC certified models have different specification and order codes from the standard models.
 Please contact HIOS distributors before ordering.

Output torque guide

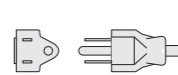


Plug type

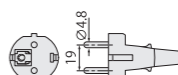
Type A / 100V



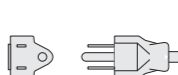
Type A-2 / 120V



Type C / 220V-240V



Type A-3 / 220V-240V



Type S / 220V-240V



Accessories

Accessories

Pistol Attachment

PA-18 (for Lever Start*) PA-18PS (for Push-to-Start*)

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



RoHS

* Not applicable to VZ-1510 and VZ-1510PS

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.

* The output torque should be 1.8N·m or lower when you use this attachment.

RoHS

Compatible screwdrivers:
 VZ-1820 VZ-3007 VZ-3012 (Lever Type only)

PS Front Cover Ring

VZ18-0960

This helps you to easily apply load in the axial direction to reduce workload.

RoHS

Protective Cover for Torque Adjustment Nut

VZ18-0970

This cover prevents deviation from set torque due to a shock or malfunction.

RoHS

Shockless Stand

VZ18PS-SAS

The shockless stand absorbs reaction force created by the clutch. This stand can be used only with Push-to-Start-type screwdrivers.



RoHS