

Electric Screwdrivers

# ELECTRIC TOOLS





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# Electric Screwdrivers Technical

## ELECTRIC TOOLS TECHNICAL



Anti-static model  
suitable for use in the  
ESD protected area (EPA).

Conductive resin is used for the body,  
switch lever, and sleeve, so screws  
can be tightened safely even in areas  
where static electricity is a concern.  
Resistance Value  $10^5 \sim 10^{10} \Omega$

※VE-1500EPA, VE-2000EPA



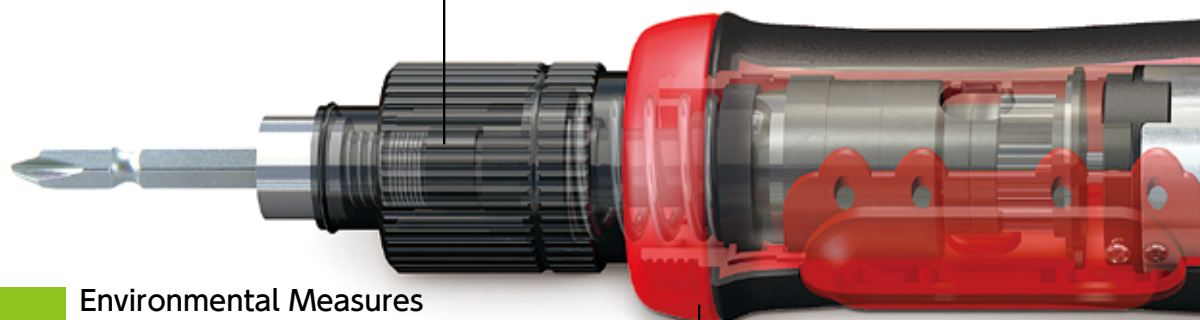
16-step, 5scale: VE-1500, 2000  
16-step, 8scale: VE-3000, 4000(P), 4500(P), 5000(P), 6000P  
24-step, 5scale: VE-1500(EPA), 2000(EPA)

### Accurate and secure torque adjustment

As the torque adjustment pitch is fine,  
precise adjustments are possible.  
A tamper-proof sleeve is enclosed as  
a standard accessory which can avoid  
the inappropriate torque setting.



Tamper-proof sleeve is enclosed as  
an accessory.



## RoHS

### Environmental Measures

Pb (lead) / Cd (cadmium) / Hg (mercury) / Hexavalent chromium /  
PBB (polybrominated biphenyl) / PBDE (polybrominated diphenyl ether) /  
DEHP, BBP, DBP, DIBP (phthalate esters)

The products with this mark in this catalogue are compliant with  
the RoHS directives (EU) (usage limit of the above 10 substances).

Note: For the updated information on RoHS compliant products, visit our homepage,  
because some products or sizes are under investigation or are not compliant at the  
time of publication of this catalogue.

### Easy-to-use, anti-fatigue ergonomic design

The ergonomically designed handle has a shape that fingers naturally fit at the lever position  
when the handle is gripped, a soft gel pad that absorbs vibration, and a non-slip surface finish, etc.



Lever

Lever method for  
vertical driving.



Lever

A thumb holder assures more  
stable operation.  
(VE-1500, 1500EPA, 2000, 2000EPA)



Push

Push method for  
horizontal driving



Vibration-absorbing gel pad

GEL pad on the grip assures a firm hold and absorbs  
vibration for comfortable operation.



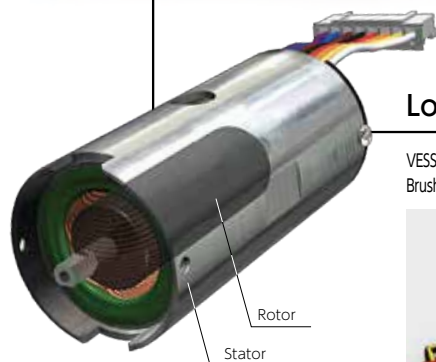
## Easy installation and wiring applicable to various working sites

The newly designed controller (DC type) has a rounded back surface for easy installation onto the cell block's pipe. The AC type is plugged into a 100VAC outlet, and does not require a controller.



External controller capable of HI or LOW selection

Easy cord connection (DC type)



Brushed motors require replacement of brushes at regular intervals because the brushes wear out. Brushless motors are free from maintenance because the motor rotation is controlled by an inverter to suppress the abrasion. Also brushless motors feature low annoying sounds and low electrical noises.

## Long-life, low-fault design Maintenance free

VESSEL electric screwdrivers incorporate a long life brushless motor; no need for replacement for 3 years in normal operating conditions. Brushless motors are not with a carbon brush which requires a regular replacement. In addition, a durable magnet switch is adopted.



Rigid gear clutch



High-strength cord is fixed firmly onto the main body to prevent breakage by on/off and pulling (except VE-1500 and 2000).



Magnetic switch (non-contact) is used to reduce wear and damage.

## Electric Screwdrivers



The ergonomic design that reduces the burden on the worker during consecutive assembly and/or fastening work.

Easy installation and wiring. Accurate torque adjustment. Maintenance-free concept for long and constant use.

The VE series is an electric screwdriver for professional use that powerfully supports the production lines.



**No. VE-4000**

### Electric Screwdrivers

High performance, slot-less and brush-less motor is used in the heart of an electric screwdriver. Improves not only the tightening accuracy but also the efficiency and the ease of maintenance, to enhance the performance of production sites.

Screwdriver Model Selection Table

Model		Output torque range						Model		Model
		0	1.0	2.0	3.0	4.0	N·m	Applicable screws	Small screws	
<b>VE-1500</b>	VE-1500,	0.01~0.15						M1.0~1.7	1.0~1.5mm	DC Type Conductive DC
	VE-1500EPA									
<b>VE-2000</b>	VE-2000,	0.06~0.34						M1.0~2.3	1.0~2.0mm	DC Type Conductive DC
	VE-2000EPA									
<b>VE-3000</b>	VE-3000	0.15~1.0						M2.0~3.0	1.0~2.0mm	DC Type
<b>VE-4000</b>	VE-4000, 4000P	0.3~1.5						M2.5~4.0	1.6~2.6mm	DC Type AC Type
	VE-4000AC, 4000PAC									
<b>VE-4500</b>	VE-4500, 4500P (-HS4)	0.4~1.8						M3.0~4.0	2.3~3.0mm	DC Type AC Type
	VE-4500AC, 4500PAC									
<b>VE-5000</b>	VE-5000, 5000P (-DL5)	0.6~2.5						M3.0~4.0	2.6~3.5mm	AC Type (SOP: Signal output) (R: 1200min <sup>-1</sup> ) (SOP: Signal output) (R: 2000min <sup>-1</sup> ) (SOP: Signal output)
	VE-5000SOP, 5000PSOP									
	VE-5000R, 5000PR									
	VE-5000RSOP, 5000PRSOP									
	VE-5000S, 5000PS									
<b>VE-6000</b>	VE-5000SSOP, 5000PSSOP									
	VE-6000, 6000P (-DL5)	1.6~4.5						M4.0~5.0	≤4mm	AC Type (SOP: Signal output) (R: 1200min <sup>-1</sup> ) (SOP: Signal output)
	VE-6000SOP, 6000PSOP									
	VE-6000R, 6000PR									
	VE-6000RSOP, 6000PRSOP									

## No. VE-1500



Lever type DC Type 16-step×5scales



## No. VE-2000



Lever type DC Type 16-step×5scales



## No. VE-3000



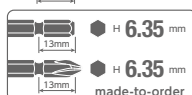
Lever type DC Type 16-step×8scales



## No. VE-4000



Lever type DC Type High-speed revolution 16-step×8scales



## No. VE-4000P



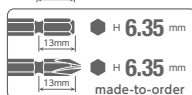
Push type DC Type High-speed revolution 16-step×8scales



## No. VE-4500



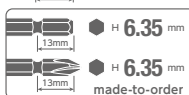
Lever type DC Type 16-step×8scales



## No. VE-4500P



Push type DC Type 16-step×8scales



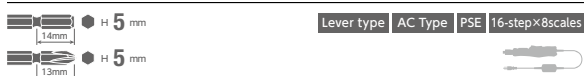
- Slot-less/brush-less motor is used. Tightening accuracy, efficiency and maintainability are improved.
- Easy-to-use ergonomic design. Shock absorbing gel pad enables a firm grip.
- Prevents mis-operation of adjustment by a tamper-proof sleeve. ●Power cable(2m) integrated type without a connector on the main body.
- VE-1500/2000 have connectors, and only the main body can be removed. Power cable length is 2m.

Model No.	Output torque range (N·m)	Applicable screws Small screw	Tapping (mm)	No-load rotation speed (min <sup>-1</sup> )	Rating	External dimensions(mm)	Weight (g)	Enclosed bits	Controller	EDP No.
VE-1500	0.01~0.15	M1.0~1.7	1.0~1.5	HI 1000/LO 700	12VDC 15W	200	190	D73 $\Phi$ 0×1.4×40...1/ $\Phi$ 0×1.7×40...1	VCT-20	550001
VE-2000	0.06~0.34	M1.0~2.3	1.0~2.0	HI 1000/LO 700	12VDC 15W	200	190	D73 $\Phi$ 0×1.4×40...1/ $\Phi$ 0×1.7×40...1	VCT-20	550002
VE-3000	0.15~1.0	M2.0~3.0	1.6~2.6	HI 1000/LO 700	32VDC 25W	222	430	D73 $\Phi$ 0×1.7×40...1/ $\Phi$ 1× 3×40...1	VCT-30	550003
VE-3000U									—	550103
VE-4000	0.3~1.5	M2.5~4.0	1.6~2.6	HI 2000/No LO setting	32VDC 55W	250	700	B36 $\Phi$ 1×70...1/ $\Phi$ 2×70...1	VCT-45	550104
VE-4000U									—	550104
VE-4000P	0.3~1.5	M2.5~4.0	1.6~2.6	HI 2000/No LO setting	32VDC 55W	250	700	B36 $\Phi$ 1×70...1/ $\Phi$ 2×70...1	VCT-45	550005
VE-4000PU									—	550105
VE-4500	0.4~1.8	M3.0~4.0	2.3~3.0	HI 1000/LO 700	32VDC 55W	250	710	B36 $\Phi$ 1×70...1/ $\Phi$ 2×70...1	VCT-45	550006
VE-4500U									—	550106
VE-4500P	0.4~1.8	M3.0~4.0	2.3~3.0	HI 1000/LO 700	32VDC 55W	250	710	B36 $\Phi$ 1×70...1/ $\Phi$ 2×70...1	VCT-45	550007
VE-4500PU									—	550107

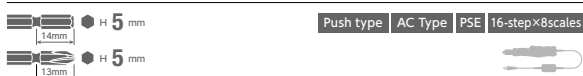
\*Common accessories for products with controllers: 1 tamper-proof sleeve, 2 set screws (M3×3), 1 hexagonal wrench (H1.5), 1 AC cable (1.8 m), 1 3P2P conversion adapter, user manual. Material: PC+elastomer  
 \*Common accessories for products without controllers: 1 tamper-proof sleeve, 2 set screws (M3 × 3), 1 hexagonal wrench (H1.5), user manual. Material: PC + elastomer



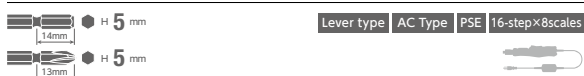
## No. VE-4000AC



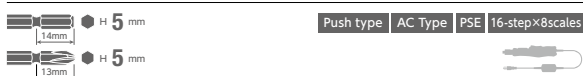
## No. VE-4000PAC



## No. VE-4500AC



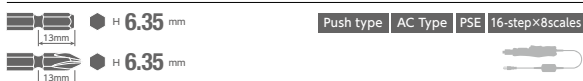
## No. VE-4500PAC



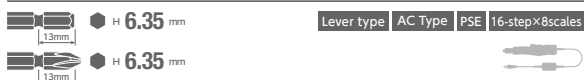
## No. VE-5000



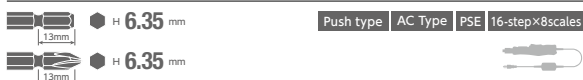
## No. VE-5000P



## No. VE-6000



## No. VE-6000P




- Slot-less/brush-less motor is used. Tightening accuracy, efficiency and maintainability are improved.
- Easy-to-use ergonomic design. Shock absorbing gel pad enables a firm grip.
- Prevents mis-operation of adjustment by tamper-proof sleeve.
- Power cable (2.5m) integrated type without a connector on the main body.

The AC type is a 100VAC input that requires no controller.

Model No.	Output torque range (N·m)	Applicable screws Small screw	Tapping (mm)	No-load rotation speed (min <sup>-1</sup> )	Rating	External dimensions (mm)	Weight (g)	Enclosed bits	EDP No.
VE-4000AC	0.3~1.5	M2.5~4.0	1.6~2.6	2000	100VAC 50/60Hz 40W	250	840	B36 $\Phi$ 1×70...1	550014
VE-4000PAC								B36 $\Phi$ 2×70...1	550015
VE-4500AC	0.4~1.8	M2.5~4.0	2.3~3.0	1000	100VAC 50/60Hz 40W	250	845	B36 $\Phi$ 1×70...1	550012
VE-4500PAC								B36 $\Phi$ 2×70...1	550013
VE-5000	0.6~2.5	M3.0~4.0	2.6~3.5	1000	100VAC 50/60Hz 90W	290	1100	M-A14 $\Phi$ 2×65H...2	550008
VE-5000P									550009
VE-6000	1.6~4.5	M4.0~5.0	≤4	1000	100VAC 50/60Hz 120W	290	1100	M-A14 $\Phi$ 2×65H...2	550011
VE-6000P									550010


\*Common accessories: 1 suspension ring (Except VE-4000, VE-4000P, VE-4500, VE-4500P), 1 tamper-proof sleeve, 2 set screws (M3×3), 1 hexagonal wrench (H1.5), 1 3P2P conversion adapter, user manual Material: PC + elastomer

## No. VE-4500-HS4 NEW


 Lever type DC Type 16-step×8scales



## No. VE-4500P-HS4 NEW


 Push type DC Type 16-step×8scales



## No. VE-5000-DL5 NEW


 Lever type AC Type 16-step×8scales



## No. VE-5000P-DL5 NEW


 Push type AC Type 16-step×8scales



## No. VE-6000-DL5 NEW


 Lever type AC Type 16-step×8scales




## No. VE-6000P-DL5 NEW


 Push type AC Type 16-step×8scales



- Slot-less/brush-less motor is used. Tightening accuracy, efficiency and maintainability are improved.
- Easy-to-use ergonomic design. Shock absorbing gel pad enables a firm grip.
- Prevents mis-operation of adjustment by a tamper-proof sleeve.
- Power cable(2.5m) integrated type without a connector on the main body.


 The AC type is a 100VAC input that requires no controller.

Model No.	Output torque range (N·m)	Applicable screws Small screw	Tapping (mm)	No-load rotation speed (min <sup>-1</sup> )	Rating	External dimensions(mm)	Weight (g)	Enclosed bits	EDP No.
VE-4500-HS4	0.4~1.8	M3.0~4.0	2.3~3.0	Hi 2000 Lo 700	32VDC 55W	250	710	B73 $\Phi$ 1×40...1 B73 $\Phi$ 2×40...1	550020 550021
VE-5000-DL5	0.6~2.5	M3.0~4.0	2.6~3.5	1000	100VAC 50/60Hz 90W	290	1100	B36 $\Phi$ 2×70...2	550022 550023
VE-6000-DL5	1.6~4.5	M4.0~5.0	≤4	1000	100VAC 50/60Hz 120W	290	1100	B36 $\Phi$ 2×70...2	550024 550025

※Common accessories: main body (with power cord)×1, tamper-proof sleeve×2, set screws (M3×3)×1, hexagonal wrench (H1.5), 3P2P conversion adapter, usermanual, Material: PC + elastomer  
 VE-4500(P)HS4: Power cable(2m), Controller VCT-45×1, Enclosed AC cable (1.8 m)×1 VE-5000(P)DL5, VE-600(P)DL5: suspension ring×1

## No. VE-5000R NEW


 Lever type AC Type PSE 16-step×8scales



## No. VE-5000PR NEW


 Push type AC Type PSE 16-step×8scales



## No. VE-6000R NEW


 Lever type AC Type PSE 16-step×8scales




## No. VE-6000PR NEW


 Push type AC Type PSE 16-step×8scales



- Slot-less/brush-less motor is used. Tightening accuracy, efficiency and maintainability are improved.
- Easy-to-use ergonomic design. Shock absorbing gel pad enables a firm grip.
- Prevents mis-operation of adjustment by a tamper-proof sleeve.
- Power cable(2.5m) integrated type without a connector on the main body.
- No-load rotation speed : 1200min<sup>-1</sup>(High speed type)


 The AC type is a 100VAC input that requires no controller.

Model No.	Output torque range (N·m)	Applicable screws Small screw	Tapping (mm)	No-load rotation speed (min <sup>-1</sup> )	Rating	External dimensions(mm)	Weight (g)	Enclosed bits	EDP No.
VE-5000R	0.6~2.5	M3.0~4.0	2.6~3.5	1200	100VAC 50/60Hz 120W	290	1100	M-A14 $\Phi$ 2×65H...2	550028 550029
VE-6000R	1.6~4.5	M4.0~5.0	≤4	1200	100VAC 50/60Hz 135W	290	1100	M-A14 $\Phi$ 2×65H...2	550030 550031

main body (with power cord)×1, suspension ring 1 tamper-proof sleeve×2, set screws (M3×3)×1, hexagonal wrench (H1.5)×1, 3P2P conversion adapter, usermanual, Materials : PC + elastomer



# One point

Equipped with 3 output signal wires and 1 input signal wire, enabling to be controlled by PLC.

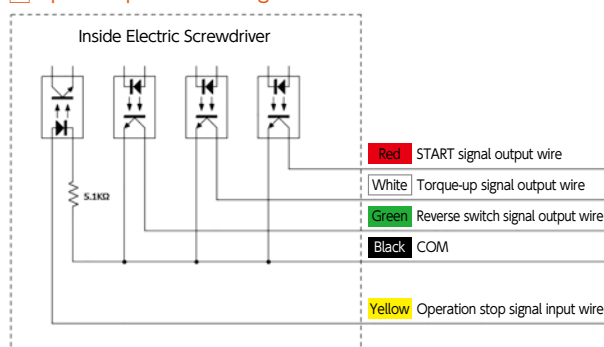
START

Torque-up

Reverse Switch

STOP

## Input/Output Circuit Diagram



## Detail of Cables

### Output signal cables

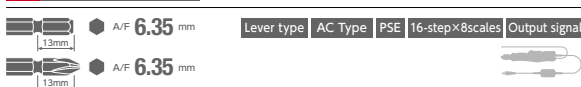
Color of lead wire	Function
Red	START signal output
White	Torque-up signal output
Green	Reverse switch signal output
Black	COM

### Input signal cables

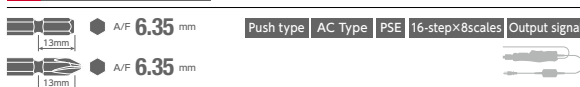
Color of lead wire	Function
Yellow	Operation stop signal input



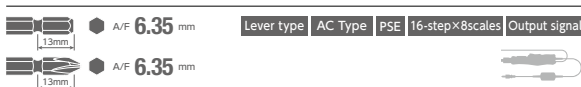
## No. VE-5000SOP



## No. VE-5000PSOP



## No. VE-6000SOP



## No. VE-6000PSOP



- Slot-less/brush-less motor is used. Tightening accuracy, efficiency and maintainability are improved.
- Easy-to-use ergonomic design. Shock absorbing gel pad enables a firm grip.
- Prevents mis-operation of adjustment by a tamper-proof sleeve.
- Power cable(2.5m) integrated type without a connector on the main body.
- Equipped with 3 output signal wires and 1 input signal wire, enabling to be controlled by PLC.

The AC type is a 100VAC input that requires no controller.

Model No.	Output torque range (N·m)	Applicable screws Small screw Tapping (mm)	No-load rotation speed (min <sup>-1</sup> )	Rating	External dimensions(mm)	Weight (g)	Enclosed bits	EDP No.
VE-5000SOP	0.6~2.5	M3.0~4.0	2.6~3.5	1000	100VAC 50/60Hz 90W	290	M-A14 $\Phi$ 2×65H··2	550016
VE-5000PSOP								550018
VE-6000SOP	1.6~4.5	M4.0~5.0	≤4	1000	100VAC 50/60Hz 120W	290	M-A14 $\Phi$ 2×65H··2	550017
VE-6000PSOP								550019

main body (with power cord)×1, suspension ring 1 tamper-proof sleeve×2, set screws (M3×3)×1, hexagonal wrench (H1.5)×1, 3P2P conversion adapter, usermanual, Materials : PC + elastomer

## No. VE-5000RSOP NEW



## No. VE-5000PRSOP NEW



## No. VE-6000RSOP NEW



## No. VE-6000PRSOP NEW



- Slot-less/brush-less motor is used. Tightening accuracy, efficiency and maintainability are improved.
- Easy-to-use ergonomic design. Shock absorbing gel pad enables a firm grip.
- Prevents mis-operation of adjustment by a tamper-proof sleeve.
- Power cable(2.5m) integrated type without a connector on the main body.
- No-load rotation speed : 1200min<sup>-1</sup>(High speed type)

The AC type is a 100VAC input that requires no controller.

Model No.	Output torque range (N·m)	Applicable screws Small screw Tapping (mm)	No-load rotation speed (min <sup>-1</sup> )	Rating	External dimensions(mm)	Weight (g)	Enclosed bits	EDP No.
VE-5000RSOP	0.6~2.5	M3.0~4.0	2.6~3.5	1200	100VAC 50/60Hz 120W	290	1100	M-A14 2x65H...2
VE-5000PRSOP	0.6~2.5	M3.0~4.0	2.6~3.5	1200	100VAC 50/60Hz 120W	290	1100	550032
VE-6000RSOP	1.6~4.5	M4.0~5.0	≤4	1200	100VAC 50/60Hz 135W	290	1100	550033
VE-6000PRSOP	1.6~4.5	M4.0~5.0	≤4	1200	100VAC 50/60Hz 135W	290	1100	550034

main body (with power cord)×1, suspension ring 1 tamper-proof sleeve×2, set screws (M3×3)×1, hexagonal wrench (H1.5)×1, 3P2P conversion adapter, usermanual, Materials : PC + elastomer

## No. VE-5000S NEW



## No. VE-5000PS NEW



## No. VE-5000SSOP NEW



## No. VE-5000PSSOP NEW



- Slot-less/brush-less motor is used. Tightening accuracy, efficiency and maintainability are improved.
- Easy-to-use ergonomic design. Shock absorbing gel pad enables a firm grip.
- Prevents mis-operation of adjustment by a tamper-proof sleeve.
- Power cable(2.5m) integrated type without a connector on the main body.
- No-load rotation speed : 2000min<sup>-1</sup>(High speed type)

The AC type is a 100VAC input that requires no controller.

Model No.	Output torque range (N·m)	Applicable screws Small screw Tapping (mm)	No-load rotation speed (min <sup>-1</sup> )	Rating	External dimensions(mm)	Weight (g)	Enclosed bits	EDP No.
VE-5000S	0.6~2.5	M3.0~4.0	2.6~3.5	2000	100VAC 50/60Hz 150W	290	1100	M-A14 2x65H...2
VE-5000PS	0.6~2.5	M3.0~4.0	2.6~3.5	2000	100VAC 50/60Hz 150W	290	1100	550036
VE-5000SSOP	0.6~2.5	M3.0~4.0	2.6~3.5	2000	100VAC 50/60Hz 150W	290	1100	550037
VE-5000PSSOP	0.6~2.5	M3.0~4.0	2.6~3.5	2000	100VAC 50/60Hz 150W	290	1100	550038

main body (with power cord)×1, suspension ring 1 tamper-proof sleeve×2, set screws (M3×3)×1, hexagonal wrench (H1.5)×1, 3P2P conversion adapter, usermanual, Materials : PC + elastomer

## No. VE-1500EPA



Lever type DC Type 24-step×5scales



## One point

### Conductive resin body

- Anti-static resin is used for the body, switch lever and sleeve. Prevents static electricity from damaging the assembled items. Resistance:  $10^5$  to  $10^{10}\Omega$  or smaller



## No. VE-2000EPA



Lever type DC Type 24-step×5scales



No.VE-1500EPA

No.VE-2000EPA

- Slot-less/brush-less motor is used. Tightening accuracy, efficiency and maintainability are improved. ●Easy-to-use ergonomic design. Shock absorbing gel pad enables a firm grip.
- Prevents mis-operation of adjustment by tamper-proof sleeve. ●Power cable(2m) integrated type without a connector on the main body.

Model No.	Output torque range (N·m)	Applicable screws Small screw Tapping (mm)	No-load rotation speed (min <sup>-1</sup> )	Rating	External dimensions(mm)	Weight (g)	Enclosed bits	Controller	EDP No.
VE-1500EPA	0.01~0.15	M1.0~1.7	1.0~1.5	Hi: 1000/ LO: 700	12VDC 15W	200 190	D73 $\Phi$ 0×1.4×40...1/ $\Phi$ 0×1.7×40...1	VCT-20	550201
VE-1500EPAU								—	550108
VE-2000EPA	0.06~0.34	M1.0~2.3	1.0~2.0	Hi: 1000/ LO: 700	12VDC 15W	200 190	D73 $\Phi$ 0×1.4×40...1/ $\Phi$ 0×1.7×40...1	VCT-20	550202
VE-2000EPAU								—	550109

\*Common accessories for products with controllers: 1 suspension ring, 1 tamper-proof sleeve, 2 set screws (M3×3), 1 hexagonal wrench (H1.5), 1 AC cable (1.8 m), 1 3P2P conversion adapter, 1 3P/6P conversion cord, user manual. Material: Conductive PC + conductive elastomer  
\*Common accessories for products without controllers: 1 suspension ring, 1 tamper-proof sleeve, 2 set screws (M3×3), 1 hexagonal wrench (H1.5), 1 3P/6P conversion cord, user manual. Material: Conductive PC + conductive elastomer

## No. VCT-20/ 30/ 45 DC Type Controller

PSE



- Rear surface is cut in round shape, so that it is easily mounted on the pipe of the cell bench. ●HI (high speed) and LO (low speed) can be switched by flicking the switch.

Model No.	Rating	Secondary power	Dimensions(mm)	Weight(g)	Compatible models	Package contents	EDP No.
VCT-20	100~240VAC 50/60Hz 31~42VA	Hi: 12VDC/ LO: 9VDC 1.0A	72×170×40	230	VE-1500, 1500EPA, 2000, 2000EPA	AC cable(1.8m)×1, 3P2P conversion adapter×1	550301
VCT-30	100~240VAC 50/60Hz 63~79VA	Hi: 32VDC/ LO: 24VDC 1.0A	72×170×40	300	VE-3000	AC cable(1.8m)×1, 3P2P conversion adapter×1	550302
VCT-45	100~240VAC 50/60Hz 62~78VA	Hi: 32VDC/ LO: 24VDC 0.9A	82×200×55	510	VE-4000, 4000P, 4500, 4500P	AC cable(1.8m)×1, 3P2P conversion adapter×1	550303

## No. AD24-SC2 Power Adapter **NEW**

- I/P : 100~240VAC, O/P : 24VDC



Model No.	Dimensions(mm)	Weight(g)	Compatible models	EDP No.
AD24-SC2	70×50×30	110	VSC-02	551073



**No. VSC-01 Screw Counter**


- Connected between the electric screwdriver VE series and the power source, to notify tightening completion, insufficient tightening and wrong screws by alarm sound and light.
- Convenient slow start function and final tightening function available.
- Compact and lightweight, can be mounted anywhere.

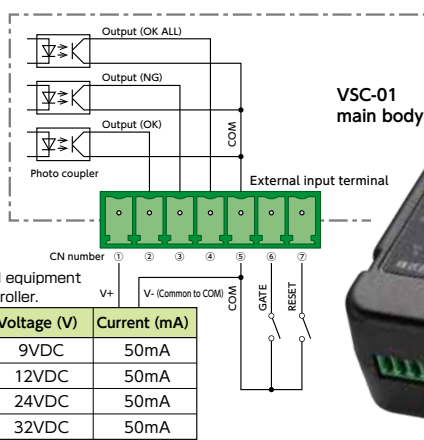
Channel	5 channels
Count number	0~99
Count method	Count up/count down (selective)
Automatic reset time	0.0~9.9seconds
Slow start setting time	0.0~9.9seconds
Speed during slow start	10 30, 35, 40, 45, 50, 60, 65, 70, 80, 85% (steps)
Screw tightening time	(upper limit time) 0.01~9.90seconds (lower limit time) 0.01~9.90seconds
Connector	Dedicated connector (open collector 7 contacts)

Model No.	Compatible Controller	Output	Dimensions(mm)	Weight(g)	Compatible models	EDP No.
VSC-01	VCT-20	HI:12VDC, LO: 9 VDC	150×65×32	180	VE-1500EPA, VE-2000EPA	551002
	VCT-30	HI:32VDC, LO:24VDC			VE-3000	
	VCT-45	HI:32VDC, LO:24VDC			VE-4000, VE-4000P, VE-4500, VE-4500P	

# One point

Input and output signals from the external input/output terminal.

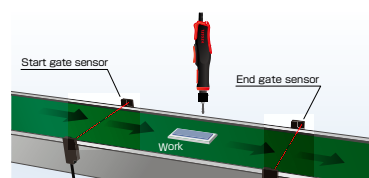
- Combined with PLC or sensors, it can control processes.



Power source capacity for external equipment varies depending on the used controller.

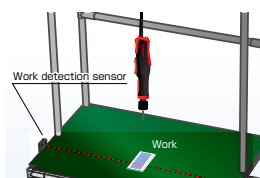
Used controller and output	Voltage (V)	Current (mA)
VCT20, Low	9VDC	50mA
VCT-20, High	12VDC	50mA
VCT-30 / 45, Low	24VDC	50mA
VCT-30 / 45, High	32VDC	50mA

## Interlocked with sensor



## Interlocked with gate sensor

- ① Passes the start gate sensor. Screw tightening work can be started.
- ② Start the screw tightening work. Tighten the specified number of screws.
- ③ Screw tightening work is completed. Screw tightening work completion signal is sent out.
- ④ Passes the end gate sensor. You can move onto the next work.

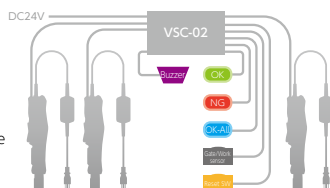


## Interlocked with work detection sensor

- ① Work detection sensor detects the existence of work. Screw tightening work can be started.
- ② Start the screw tightening work. Tighten the specified number of screws.
- ③ Screw tightening work is completed. Screw tightening work completion signal is sent out, and you can move onto the next work.

**No. VSC-02 Screw Counter NEW**

- Max.16 sequences x 64 channels
- Max.32 channels registration (tightening time per screwdriver in use)
- Count function from 0 to 99 screws to be tightened.
- 24-contact terminal (VE screwdriver x 3 pcs + Power + External connection)
- 24V DC input 300mA



※To be used with the SOP screwdrivers (lever or push type)



Model	VSC-02
Input	24VDC 300mA (Option: AC adapter AD24-SC2)
Display	LCD 16 characters x 2 lines (5x8 dot)
Signal input/output terminal	Input 2 terminals (TLP785) Output 3 terminals (TLP627) Line output (Output impedance 1kΩ)
Number of VE series that can be connected	3 pcs
Number of sequences that can be preset	16 sequences x 64 channels each
Number of channels that can be preset	32 channels
Number of counts that can be preset	1 to 99 pcs
Count method	Count-up, Count-down (can be switched)
Auto-reset time	0.00 to 9.99 sec.
Screw tightening time (upper limit time)	0.01 to 9.99 sec.
Screw tightening time (lower limit time)	0.00 to 9.99 sec.
Dimensions	64 x 122 x 37 mm (excluding protrusions)
Weight	340g
Operating temperature/humidity	Options: AD24-SC2 (AC adapter, Input 100-240VAC, Output 24VDC)
Accessories	Instruction manual
Applicable models	VE-5000SOP, 5000PSOP, 6000SOP, 6000PSOP
EDP No.	551003

● Options: AD24-SC2 (AC adapter, Input 100-240V AC, Output 24V DC)

## No. VSF-5 Screw Feeder



- Supports various screws from M1 to M5.
- Lightweight and compact, the small footprint only takes up 126 × 182 mm area.
- All required replacement parts are attached for changing supplied screws.
- By the sensor, it operates the drum rotation and vibration only when required. When in standby, the operation is stopped temporarily so it is quiet.
- Adaptable to screws such as counter sunk screws, pan head screws, truss head screws, screws with washers.



**Adjustable with enclosed rail**

The rail width can be adjusted, so there's no need to manage several rails.



**Adjustment tool enclosed in set**

The adjustment tool required to change the screw size is enclosed so adjustments can be made.

Model No.	Compatible Screw	Screw	Thread Length	Screw capacity	Rating	Dimensions(mm)	Weight(kg)	EDP No.
VSF-5	Regular screws Tapping screws	M1~M5	20mm	200cc	15VDC 0.7A	126×182×147	2.2	551001

\*Working temperature/humidity: 0~40°C 10~95%RH(with no dew condensation) Installation place: Limited to indoors \*Accessories: AC adapter 1, Spare parts set 1

### AC adapter

Model	AD15-VSF
Applicable standards	PSE
Rated input voltage	100~240VAC 50/60Hz 0.8A
Rated output voltage	15VDC 1.5A
Cord length (m)	Cord approx. 1.8
Weight (g)	136

### Accessories

Stopper	For M1.0 to 2.0...1 pc., for M2.3 to 5.0...1 pc.
Rail width adjustment plate (mm)	Front 70 x 90 x t0.8, t1.0, t1.2, t1.5, t2.0...1 plate each Rear 20 x 10 x t0.2...2 plates, 20 x 10 x t0.5...10 plates
L-shape hexagon wrench	H2.0 mm x 108 mm
Grounding wire	
Instruction manual	

## No. VTM-8 / 10 / 100 Torque Meter

### Measurement bits

H5mm bits	H6mm bits
D73 H5×50	D73 H6×50
D76 H5×50	D76 H6×50
B34 H5×50	B34 H6×50
A16 H5×50	A16 H6×50



VTM-8



VTM-10



VTM-100

- Torque accuracy within  $\pm 0.5\%$  enables accurate torque measurement.
- Light and compact design, the main body is approximately 1kg. Rechargeable and convenient to carry around.
- Capable of measuring both tightening and loosening directions. ● Automatic power off (power turns OFF after 10 minutes of non-operation).

Model No.	Measurement range(N·m)	Precision	Unit measurement	Socket Outlet(mm)	Dimensions(mm)	Weight(kg)	Power supply	Compatible models	EDP No.
VTM-8	0.002~0.8	$\pm 0.5\%$ ( $\pm 3$ digits below 499 digits)	cN·m / mN·m	20×20, SQ9.5	160x125x55	1.0	Nickel-cadmium battery 1.2V x 5 cells (700 mAh)	VE-1500(EPA), 2000(EPA)	551011
VTM-10	0.01~1.0	$\pm 0.5\%$ ( $\pm 1$ digits below 199 digits)	N·m / cN·m	20×20, SQ9.5	160x125x55	1.0		VE-1500(EPA), 2000(EPA), 3000	551012
VTM-100	0.1~10.0	$\pm 0.5\%$ ( $\pm 1$ digits below 199 digits)	N·m / cN·m	20×20, SQ9.5	160x125x55	1.0		VE-4000(P), 4500(P), 5000(P), 6000(P)	551013

\*One digit refers to the minimum value of the last digit that can be displayed regardless of the decimal point position. (VTM-8:3digit=0.003N·m/3mN·m, VTM-10:1digit=0.01N·m/1cN·m, VTM-100:1digit=0.1N·m/10cN·m)

\*Accessories: AC adapter 1, Torque adapter, Measurement bits set, Test Results, Proof of Calibration, Traceability System Diagram, Instruction manual

\*Charging/usage time: Charging approx. 3 hours/max. 12 hours of use Battery life: 300 or more charges (varies according to the usage state)

### AC adapter

Applicable standards	PSE
Rated input voltage	100~240VAC 50/60Hz 0.3A
Rated output voltage	12VDC 0.5A
Cord length (m)	1.5
Weight (g)	70

### Torque Adapter

	Compatible models	Usage range	Compatible bits	EDP No.
VJ-3	VTM-8	0.25 N·m or less	H5	551021
	VTM-10	0.25 N·m or less	H5	
VJ-10	VTM-10	0.3~1.0 N·m	H5	551022
VJ-10K	VTM-100	0.3~1.0 N·m	H6	551023
VJ-50	VTM-100	0.5~5.0 N·m	H6	551024

## One point

### Measurement data management

Can store 800 measurement data in the body.  
Also can manage the data by exporting to a personal computer through USB cable.



## Two measurement mode types

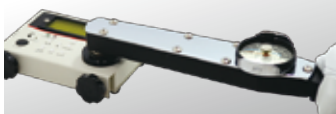


Either the Peak Hold measurement mode suitable for measuring electric screwdrivers, or the Peak Down Hold measurement mode suitable for manual tools can be selected.

For measurement of electric screwdrivers and torque drivers

### Peak Hold mode

The max torque which is being measured is always displayed.



For measurement of torque wrenches

### Peak Down Hold mode

The value when the load torque value peaks then starts to drop is displayed. No influence by the torque excessively imposed.



## No. VPG-L Pistol Grip

- By mounting it on a straight type to transform into a pistol type, the efficiency of working against a vertical surface is improved.
- There are two holes to hang, to change the barycenter according to the type of work.
- Easy-to-grip trigger prevents fatigue even if working for a long time.

### Suspension ring mounting hole

Using the suspension holes provided at two places on the piston grip and one place on the Dendora body can change the installation angle.



Model No.	VPG-L
Dimensions (mm)	119.5×50.8×182.3
Weight (g)	113
Material	Polycarbonate
Accessories	Housing upper cover × 1, Housing lower cover × 1 Trigger × 1, Link × 1, Spring × 1, M3 pan-head screw × 5
Compatible models	VE-5000, 5000P, 6000, 6000P
Optionally compatible models	VE-1500 (EPA), 2000 (EPA), 3000, 4000 (P), 4500 (P)
EDP No.	551038

The piston grip is available as an option for all models other than the VE-5000 (P) and VE-6000P. Contact VESSEL for more information.

## No. VE-EC2 Extension Cord (2m)



Compatible models	VE-3000, 4000, 4000P, 4500, 4500P VE-1500EPA, 2000EPA VSC-01, VCT-20*, VCT-30, VCT-45
Weight (g)	120g
EDP No.	551036

\*The 3P/6P conversion cord is required to connect to the VCT-20.

## No. VCA-M Corner Angle Attachment (for VE-4000, 4500 series) **NEW**

- Head Height: 40mm, Radius Dimension: 10mm  
- Ideal for a cramped space.
- Adjustable head position (360° rotatable, 12-direction setting)
- VESSEL's bit B39 and B35 series can be used.

\*(Lever type only) (Not applicable to Push type)



Model	Weight	Material	EDP No.
VCA-M	168 g	Steel	550026

\*Accessories: Instruction Manual, Adapter Bit, C-ring, L Wrench 1.5mm

## No. VCS Color Sleeves

- Tamper-proof color sleeves for the VE series electric screwdrivers.
- Allocating the same color helps identify the different torque of the VE screwdrivers used in the assembly line.



PINK



RED



GREEN



BLUE



YELLOW

Model No.	Size	Compatible models	EDP No.
VCS-SSP	SS	VE-1500 VE-2000	551053
VCS-SSR			551045
VCS-SSG			551057
VCS-SSB			551049
VCS-SSY			551061
VCS-SP	S	VE-3000	551054
VCS-SR			551046
VCS-SG			551058
VCS-SB			551050
VCS-SY			551062
VCS-MP	M	VE-4000 VE-4000P VE-4500 VE-4500P	551055
VCS-MR			551047
VCS-MG			551059
VCS-MB			551051
VCS-MY			551063
VCS-LP	L	VE-5000 VE-5000P VE-6000 VE-6000P	551056
VCS-LR			551048
VCS-LG			551060
VCS-LB			551052
VCS-LY			551064

## No. VCA-L Corner Angle Attachment (for VE-5000, 6000 series) **NEW**

- Head Height: 40mm, Radius Dimension: 10mm  
- Ideal for a cramped space.
- Adjustable head position (360° rotatable, 12-direction setting)
- VESSEL's bit B39 and B35 series can be used.

\*(Lever type only) (Not applicable to Push type)



Model	Weight	Material	EDP No.
VCA-L	219 g	Steel	550027

\*Accessories: Instruction Manual, Adapter Bit, C-ring, L Wrench 1.5mm