

Epson Robot

# VT6L

Compact 6-Axis Robot with Built-In Controller

## Specifications

Model name		VT6L
Model number		VT6-A901S
Payload (Load)*1	Rated	3 kg
	Max.	6 kg
Max. reach	P point : Joint#1-5 center	920 mm
	Joint#1-6 flange surface	1000 mm
Repeatability	Joint#1-6	± 0.1 mm
Allowable moment of inertia*2	Joint#4	0.3 kg-m <sup>2</sup>
	Joint#5	0.3 kg-m <sup>2</sup>
	Joint#6	0.1 kg-m <sup>2</sup>
Mounting type		Table top
Environment spec		Standard
Weight (cables not included)		40 kg
Applicable Controller		Built-in controller
Installed wire for customer use		None (External Wiring Option available)
Installed pneumatic tube for customer use		None (External Wiring Option available)
Power		AC100-240V single phase
Power Consumption*3		1.2 kVA
Cable length		5 m
I/O	Standard I/O	In 24, Out 16 (Non polarity)
	Remote I/O	In 8, Out 8 (Remote function assigned to standard I/O)

\*1: Do not apply the load exceeding the maximum payload.

\*2: If the center of gravity is at the center of each arm, if the center of gravity is not at the center of each arm, set the eccentric quantity using INERTIA command.

\*3: It depends on operating environment and operation program.

## Supported Controller Options

TP1	—
TP2 / TP3	●
Conveyor tracking	—
PG motion system	—
Emergency stop switch	●
Emergency cable kit (terminal)	●
RS-232C cards	—
I/O expansion cards	—
Fieldbus I/O (slave)*5	●
I/O cable kit	—
DU	—
Vision option CV2 Series	●
Force sensor option S250	—

\*5: CC-LINK, ProfiBus, ProfiNet, EtherCAT, EtherNet/IP, DeviceNet

## Supported Software Options

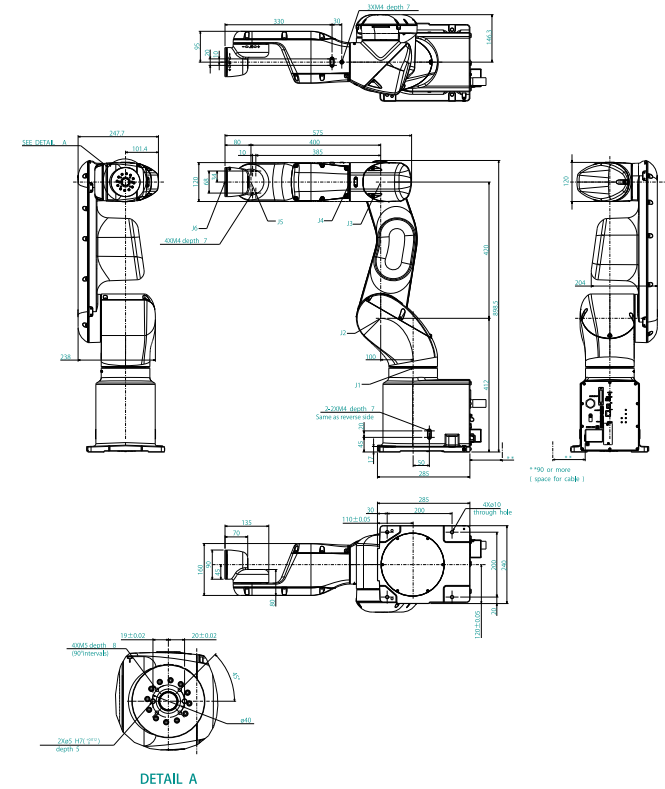
Vision Guide 7.0/PV1	●
Force Guide 7.0	—
RC+ API 7.0	●
ECP	●
GUI Builder 7.0	●
OCR	●
VRT	●

## Supported Manipulator Options

EXTERNAL WIRING OPTION	●
ISO FLANGE	●
MOUNTING COMPATIBLE PLATE	●
CAMERA PLATE UNIT	●
Mechanical Stop of Joint#1(Adjustable)	●
Mechanical Stop of Joint#2(Adjustable)	●
Mechanical Stop of Joint#3(Adjustable)	●

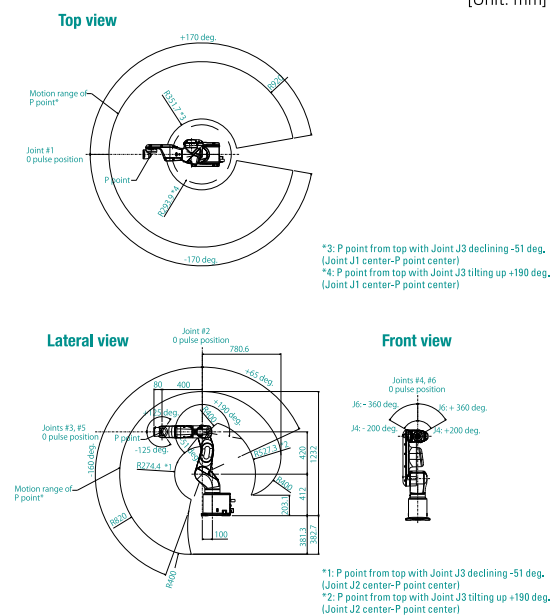
## Outer Dimensions (Table Top Mounting)

[Unit: mm]



## Motion Range (Table Top Mounting)

[Unit: mm]



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● Product specifications and appearance are subject to change without notice.

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⚠ Safety Precautions

Please read associated manuals carefully before installing or using our robot products. Always use products properly per guidelines in the manuals.

Compact 6-axis robot designed for easy setup and high cost-performance

The VT6L compact 6-axis robot with built-in controller is an affordable way to automate repetitive manual tasks that were impractical to automate before.

### VT6L features

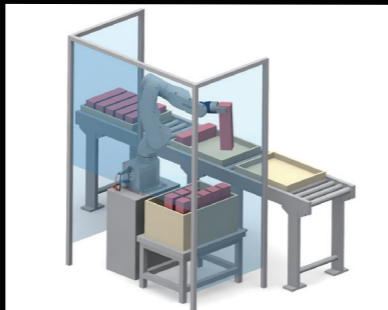
- Built-in controller saves space and makes setup easy
- Batteryless motor unit reduces battery replacement hassles
- 100V~240V power source compatibility allows greater installation flexibility
- Pass-through wrist design makes cabling and ducting easier

With unrivaled setup ease, space-saving design, and low total cost of ownership, the VT6L lowers the cost barrier to simple manual task automation.

Before



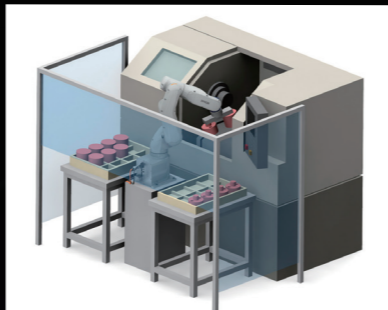
After



Before



After

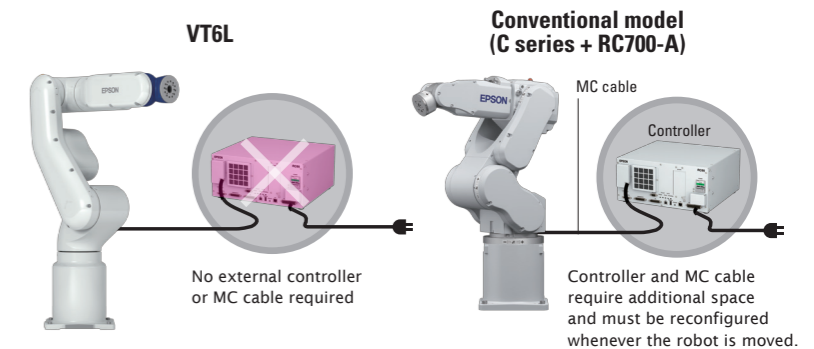


Built-in controller

### VT6L features

#### Built-in controller saves space and increases installation ease

With its built-in controller, the VT6L eliminates the need to make room for an external controller. And because there is no need to connect power and signal cables, the robot is much easier to setup and relocate when your production needs change.



#### No motor unit battery to replace

The motor unit stores starting position data without requiring a battery. As a result, motor unit battery replacement chores are eliminated, and equipment running costs and downtime are reduced.

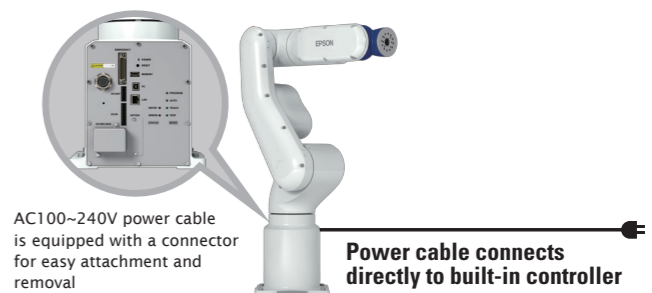
\*Only motor unit battery replacement is eliminated; a controller battery is still required (estimated life: 7 years).



#### Operates on 100~240V power

VT6L robots operate on standard 100~240V AC current, so there is no need for a special power supply, and you can install them anywhere an AC outlet is accessible.

\*20A rated current supply required for 100V operation.



#### Pass-through wrist design for easy cabling and ducting

The VT6L's pass-through wrist design makes it easy to run cabling to the end effector, and minimizes the likelihood of cable interference when reaching into narrow openings.\* External wiring options can also be used to further ease cable installation and ensure interference-free operation.

\*Over time, acute flexing of the #5 and #6 joints can lead to cable bending, twisting, and abrasion that can degrade cable insulation integrity. Operators should check cables regularly to prevent problems caused by excessive wear.



VT6L with external wiring option

