

VT6L All-in-One 6-Axis Robot

Robot

6-Axis



The ultra affordable all-in-one solution that's compact and easy to use.

Full featured; ultra low cost — the same powerful features found in Epson's high-end robots at an incredibly affordable price; with a reach up to 900 mm and payload up to 6 kg

Easy to use — intuitive and feature-packed Epson RC+® development software makes it easy to create powerful solutions

All-in-One solution — space-saving design with built-in controller

SlimLine design — compact wrist pitch enables access to hard-to-reach areas in confined spaces

Comes standard with 110 V and 220 V power — low wattage and power consumption

Fast, easy integration — installs in minutes; requires less time and money for system integration

Integrated vision guidance option — designed specifically for robot guidance; makes it easy to automate simple applications when vision is required

Simplified cabling — hollow end-of-arm design makes end-of-arm tooling easier than ever

No battery required for encoder — minimizes downtime and reduces overall cost of ownership

Application versatility — ideal for machine-tool and injection-molding load/unload, pick and place, dispensing and simple assembly projects

Specifications

Mounting Type¹ Tabletop/Ceiling/Wall Mount
Arm Length 920 mm
Repeatability Joints #1 - 6 ±0.1 mm
Payload
 Rated 3 kg
 Max. 6 kg
Standard Cycle Time² 0.60 sec
Max. Motion Range
 Joint #1 ±170 deg
 Joint #2 -160 deg ~ +65 deg (225 deg)
 Joint #3 -51 deg ~ +190 deg (241 deg)
 Joint #4 ±200 deg
 Joint #5 ±125 deg
 Joint #6 ±360 deg
Max. Reach
 P Point: Joints #1-5 Center 920 mm
 P Point: Joints #1-6 Flange Surface 1,000 mm
Allowable Moment of Inertia³
 Joint #4 0.3 kg-m²
 Joint #5 0.3 kg-m²
 Joint #6 0.1 kg-m²
Standard I/O In 24/Out 16
Remote I/O In 8/Out 8
 (Remote function assigned to standard I/O)
Brake All axes

Other

Power AC 100-240 V Single Phase
Power Consumption 1.2 kVA
Power Cable Length 5 m
Weight (cables not included) 40 kg; 88.2 lb
Applicable Controller Built-in
Installation Environment Standard
Safety Standard
 CE Mark; EMC directive, machinery directive, RoHS directive
 ANSI/RIA R15.06-2012
 NFPA 79 (2007 Edition)

What's in the Box

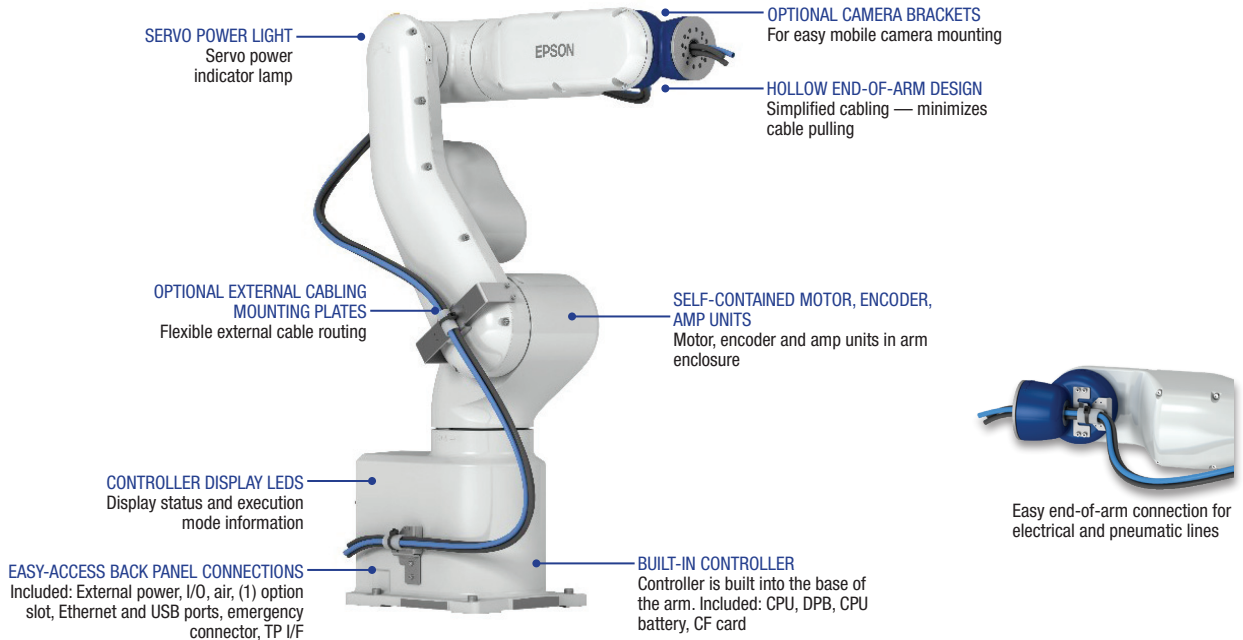
VT6L All-in-One 6-Axis Robot
 Robot power cable
 Epson® RC+ software
 USB cable
 E-Stop unit with cable
 VT6L Robot System Safety & Installation Manual
 Connector set (I/O, hand I/O and safety circuit connectors)

Support

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Sales Inquiries (562) 290-5997
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Ordering Information

Product Name	Product Code
VT6L	VT6L-A901SS
Options	
Vision Guide CV2	Available
Vision Guide PV1	Available
VT6L External Cable Mounting Plates	R12NZ900ZW
VT6L Camera Mounting Bracket	R12NZ900ZZ
OCR (for use with Vision Guide)	R12NZ920H3
Epson RC+ 7.0 API	R12NZ920AE
GUI Builder 7.0	R12NZ900AH
External Control Point (ECP) Option	R12NZ900AF
TP3 – Teach Pendant	R12NZ900N3
TP2 – Teach Pendant	R12NZ900L9
Ethernet/IP Fieldbus I/O (Slave)	R12NZ900TH
Ethernet/IP Fieldbus I/O (Master)	R12NZ900NZ
DeviceNet Fieldbus I/O (Slave)	R12NZ900TE
DeviceNet Fieldbus I/O (Master)	R12NZ900NX
PROFINET Fieldbus I/O (Slave)	R12NZ900TG
PROFIBUS Fieldbus I/O (Slave)	R12NZ900TF
PROFIBUS Fieldbus I/O (Master)	R12NZ900NY
EtherCAT Fieldbus I/O (Slave)	R12NZ900TX
CC-Link Fieldbus I/O (Slave)	R12NZ900TD



¹ Default software setting is "tabletop." To use the VT6L in a wall or ceiling mount configuration requires changing the model setting in Epson RC+. | ² Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with 2 kg payload (path coordinates optimized for maximum speed). | ³ 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.

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