

For TVM Series **NEW**

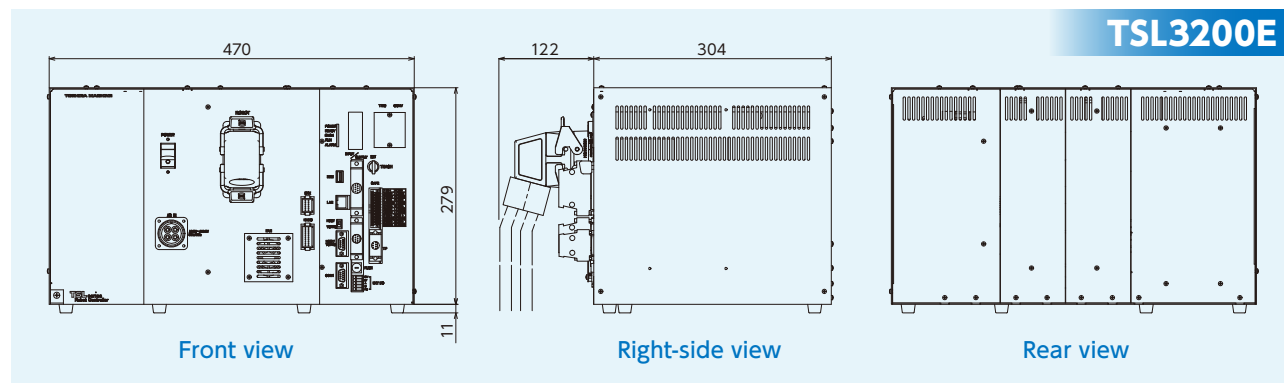
# TSL3200E

CE  
compliant

## Controller Specifications

Model	TSL3200E
Number of Control axes	Maximum 6 axes
Motion Modes	PTP,CP(Continuous Path; Linear, Circular), Short-cut
Storage Capacity	Approx. Total: 128000 point data + 25600 steps 1 program: 2000point data + 3000 steps
Number of Registrable Programs	Maximum 256
External Memory	USB memory
Programming Language	SCOL language (similar to Basic)
Teaching Pendant (Optional)	TP3000, TP1000-6ax, (Programs can also be written on PC)
I/O Signals	8 inputs / 8 outputs (Plus or minus common selection necessary)
Hand Control Signals	Maximum 8 inputs / 8 outputs
PLC function	Built-in PLC
Communication Ports	RS232C : 2 Ports, Ethernet : 1 Port, USB 1 Port (for external memory)
Functions	Interruptive functions, self-diagnosis, I/O Control and Communications during motion, Coordinate Calculations, Built-in PLC, Conveyor Synchronization, etc.
Power Supply	Single phase AC 190 to 240V, 50/60 Hz
Outer Dimensions and Mass	470(W) × 290(H) × 304(D) mm, 19kg (including rubber feet)
PC software for Programming support (Optional)	TSAssist : Program editor, Teaching, Remote Operation, Simulation, etc.
Options	Additional Axes, I/O Extension, I/O Cables, Field Network (PROFIBUS, DeviceNet, CC-Link, EtherNet/IP, EtherCAT), Conformance to various industrial Standards.

\*: Ethernet is a registered trademark of XEROX Corp. in the U.S.A. CC-Link is a registered trademark of CC-Link Partner Association. DeviceNet and EtherNet/IP are registered trademarks of ODVA. Profibus is a registered trademark of PROFIBUS User Organization. EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.



EASY INTRODUCTION OF BIN-PICKING  
AUTOMATION SYSTEM

Teach pendant **Optional**

## TP1000-6ax

Standard  
Teach pendant



## TP3000

Teach pendant  
equipped with  
graphic operation  
keys



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■The Contents in this document are subject to change without prior notice.

- System Robot
- Servo System
- Programmable Controller



Before operating the industrial robot, read through and completely understand the instruction man

# VERTICAL ARTICULATED ROBOT TVM Series



TVM900



TVM1200



TVM1500

For TVM Series  
Controller **NEW**

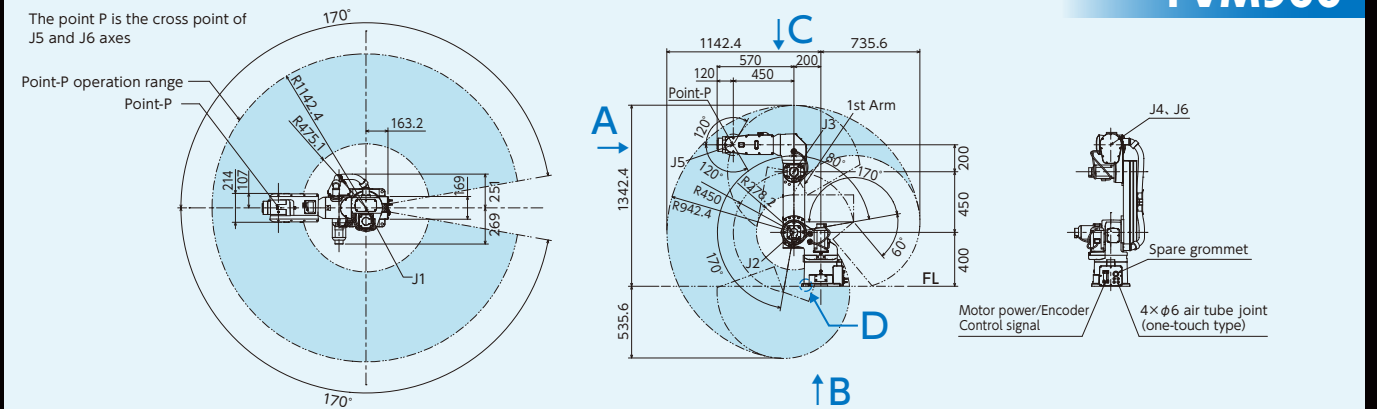
TSL3200E

The Robot TVM series, in combination with its function-rich controller and software solutions such as programming-support PC software and 3D vision bin-picking package, is applicable to a wide range of automation needs and contribute to efficiency, and cost and labor saving.

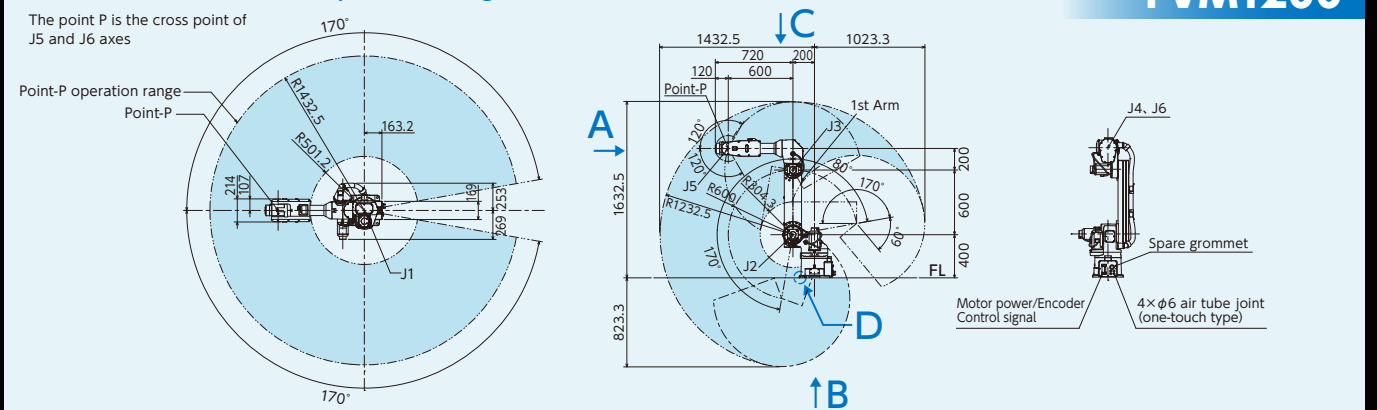
Models		TVM900	TVM1200	TVM1500
Number of Controlled Axes		6 Axes		
Arm Length (mm)	Total	900	1200	1500
	1st Arm	450	600	750
	2nd Arm	450	600	750
Reach (mm)		1124	1418	1715
Rated Load Mass (kg)		5		
Maximum Load Mass (kg)		20	15	10
Working Envelope (deg)	Axis 1 (J1)	±170		
	Axis 2 (J2)	+170~-80		
	Axis 3 (J3)	+170~-60		
	Axis 4 (J4)	±190		
	Axis 5 (J5)	±120		
	Axis 6 (J6)	±360		
Maximum Speed (deg/s)*1	Axis 1 (J1)	234		
	Axis 2 (J2)	191		165
	Axis 3 (J3)	270		
	Axis 4 (J4)	420		
	Axis 5 (J5)	336		
	Axis 6 (J6)	720		
	Composite (m/s)	8.8	10.8	12.3
Allowable Moment of Inertia (kgm <sup>2</sup> )	Axis 4 (J4)	1.80		
	Axis 5 (J5)	1.80		
	Axis 6 (J6)	0.30		
Robot Body Mass (kg)		122	125	131
Protection Grade		IP65		
Optional Specifications		Ceiling mount (planned) Cleanroom design (planned)		

## TVM Series External view

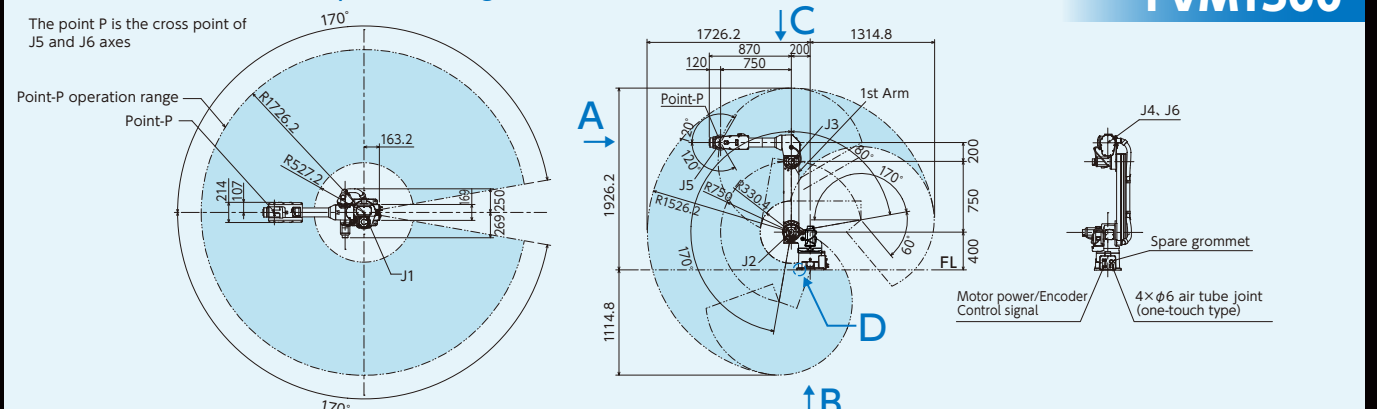
# TVM900



# TVM1200



## TVM1500



## For all TVM Series External view

