TOSHIBA MACHINE

NEW PRODUCT



- Low cost Excellent performance at affordable prices.
- Improved weight capacity and allowable inertia Expanded applicability of multi-hand with improved weight capacity and allowable inertia.
- Energy-efficient

Up to 20% reduction in required power-supply capacity compared with our previous models. Low-power consumption robots ideal for energy conservation era.





Model		THL300
Туре		Horizontal multi-joint
No. of controlled axes		4
Arm length		300mm (125mm+175mm)
Working	Axis 1	±125°
enve l ope	Axis 2	±145°
	Axis 3 (Z-axis)	0~160mm
	Axis 4 (Z-axis rotation)	±360°
Maximum *1	Axis 1	660°/s
speed	Axis 2	660°/s
	Axis 3 (Z-axis)	1120mm/s
	Axis 4 (Z-axis rotation)	1500°/s
	Composite	5.1m/s
Cycle time (with 2kg load) *2		0.48s
Maximum payload mass		5kg
Allowable moment of inertia		0.05kg⋅m²
Positioning*3	X—Y	±0.01mm
repeatability	Z (Axis 3)	±0,015mm
	Axis θ (Z-axis rotation)	±0.007°
Hand wiring		8 inputs/8 outputs
Hand pneumatic joints *4		φ4 ×3 pcs
Position detection		Absolute
Robot controller cable		3 . 5m
Power capacity		0.7kVA
Mass		12kg
*1 : Acceleration	n/deceleration rates may be li	mited according to the motion pattern

- *1 : Acceleration/deceleration rates may be limited according to the motion pattern, load mass and amount of offset.
 *2 : Horizontal 300mm, vertical 25mm, round-trip. Continous operation is not possible beyond the effective load ratio.
 *3 : When the environment temperature is constant 20°C. Positioning repeatable accuracy in one-direction movement. Not absolute positioning accuracy.
 *4 : Pneumatic joints are provided on the base. Please refer to the drawings for the details of the pneumatic joints. Pipes to be are provided by the customers.

Controller
Specifications



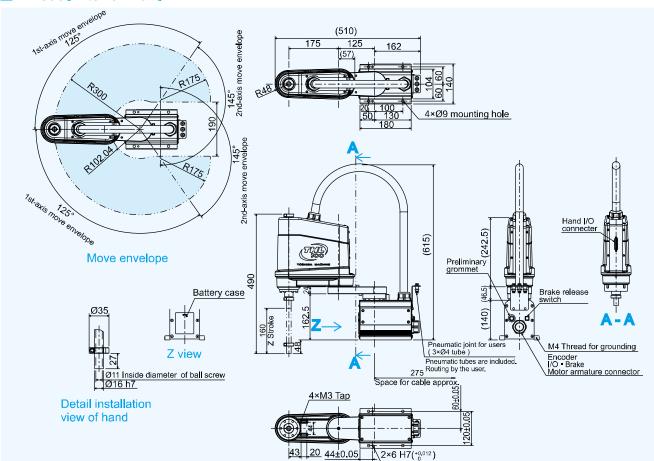
TEACH PENDANT(OPTION)

details of the pneumatic joints. Pipes to be are provided by the customers.			
Model	TS3000		
Number of axis	Standard 4 axis (Maximum 5 axis)		
Operation mode	PTP, CP (linear, Circular), Short-cut, Arch motion		
Storage capacity	Approx. Total:12800points+25600steps		
	1 program:2000points+3000steps		
Number of programs	Maximum 256 (247 user filles+9 system filles)		
Programming language	SCOL (similar to BASIC)		
Teaching unit	Teach pendant TP1000:Cable length 5m		
	(Programming support PC software TSPC also available)		
External I/O signals	32 inputs/32 outputs		
Hand control signals	8/8 can be assigned to system signals.		
External operation	Input:cycle operation mode, start, stop, program reset, etc		
signal	Output:Servo ON, operation ready, fault, etc		
Serial communication port	RS232C:2ports (HOST, COM1), Ethernet 1port *5		
Other functions	Torque control, interrupt function, self diagnosis,		
	I/O control, communication during motion,		
	coordinate calculations, built-in PLC,		
	conveyor synchronisation etc.		
Power supply	Single phase, AC200V~240V 50 / 60Hz		
Power capacity	1,4kVA		
Outer Dimensions and Mass	290 (W)×230 (H)×298 (D) [mm],13kg		
PC Software for Programming	TSPC:Program editor, teaching, remote operation		
Support (Option)	TCPRGOS:PLC sequence program creation		
Options	I/Oextension, I/Ocables,		
	Field-Network (CC-Link, DeviceNet, PROFIBUS) 5		
External memory	USB memory stick		

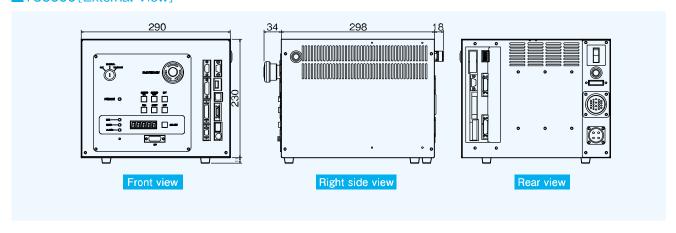
*5:Ethernet is a registered trademark of XEROX Corp. in the U.S.A.
CC-Link is a registered trademark of CC-Link Partner Association.
DeviceNet is a registered trademark of ODVA.
PROFIBUS is a registered trademark of PROFIBUS User Organization.

External memory

THL300[External View]



TS3000[External View]



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URL:http://www.toshiba-machine.co.jp/en/product/robot/index.html http://www.toshiba-machine.com http://www.tmrobotics.co.uk



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

■The contents included in this catalog are subject to change without prior notice to reflect improvements.