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.





	THL400
	Horizontal multi-joint
led axes	4 400mm (225mm+175mm)
Axis 1	±125°
Axis 2	±145°
Axis 3 (Z-axis)	0~160mm
Axis 4 (Z-axis rotation)	±360°
Axis 1	660°/s
Axis 2	660°/s
Axis 3 (Z-axis)	1120mm/s
Axis 4 (Z-axis rotation)	1500°/s
Composite	6.3m/s
vith 2kg load) *2	0.47s
yload mass	5kg
oment of inertia	0₌05kg·m²
Х—Ү	±0,01mm
Z (Axis 3)	±0 <u>.</u> 015mm
Axis θ (Z-axis rotation)	±0.007°
	8 inputs/8 outputs
atic joints *4	φ4 ×3 pcs
ection	Absolute
ler cable	3 . 5m
ity	0.7kVA
'iLy	
	Axis 1 Axis 2 Axis 3 (Z-axis) Axis 4 (Z-axis rotation) Axis 1 Axis 2 Axis 3 (Z-axis) Axis 4 (Z-axis rotation) Composite vith 2kg load) *2 yload mass coment of inertia X—Y Z (Axis 3) Axis 0 (Z-axis rotation) atic joints *4 action ler cable

- *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.

Ī	Controller
	Specifications



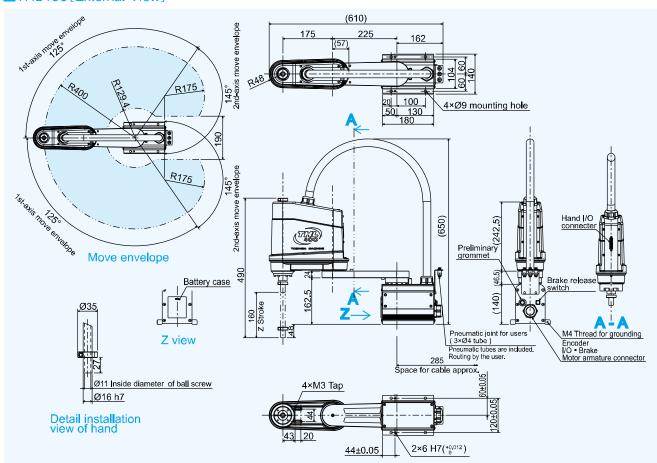
TEACH PENDANT(OPTION)

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	

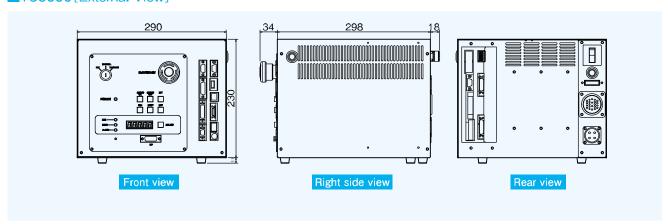
*5:Ethernet is a registered trademark of XEROX Corp. in the U.S.A.
CC-Link is a registered trademark of CC-Link Partner Association.
DeviceNet is a registered trademark of ODVA.
PROFIBUS is a registered trademark of Profibus User Organization.

External memory

THL400[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.