

High-Speed and High-Precision SCARA Robot TH450A



Model	TH450A	
Type	Horizontal multi-joint	
No. of controlled axes	4	
Arm length	450 mm (200 mm+250 mm)	
Working envelope	Axis 1	±120°
	Axis 2	±145°
	Axis 3 (Z-axis)	150 mm (optional: 300 mm)
	Axis 4 (Z-axis rotation)	±360°
Maximum speed	Axis 1	600°/s
	Axis 2	600°/s
	Axis 3 (Z-axis)	2000 mm/s
	Axis 4 (Z-axis rotation)	2000°/s
	Composite	7.3 m/s
Standard cycle time (with 2kg load)	0.30 s *2	
Maximum payload mass	5 kg (rated: 2 kg)	
Allowable moment of inertia	0.06 kgm ² *3	
Positioning repeatability	X-Y	±0.01 mm *4
	Z (Axis 3)	±0.01 mm *4
	Axis 4 (Z-axis rotation)	±0.005° *4
Hand wiring	8 inputs / 8 outputs	
Hand piping	4 pcs. (φ4)	
Position detection	Absolute	
Robot controller cable	5 m (optional: max. 25 m)	
Power Capacity	2.3 kVA	
Mass	26 kg	

■ For *2, *3 and *4, see page 5.

External view

