

High-Speed and High-Cycle SCARA robot THP700



Model		THP700
Type		Horizontal multi-joint
No. of controlled axes		4
Arm length		700 mm (350 mm+350 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	340°/s
	Axis 2	600°/s
	Axis 3 (Z-axis)	2050 mm/s
	Axis 4 (Z-axis rotation)	1800°/s
Composite		7.8 m/s
Standard cycle time (with 2kg load)		0.345 s *2
Maximum payload mass		10 kg (rated: 2 kg)
Allowable moment of inertia		0.1 kgm ² *3
Positioning repeatability	X-Y	±0.03 mm *4
	Z (Axis 3)	±0.02 mm *4
Axis 4 (Z-axis rotation)		±0.02° *4
Hand wiring		8 inputs / 8 outputs
Hand piping		4 pcs. (φ6)
Position detection		Absolute
Robot controller cable		5 m (optional: max. 25 m)
Power Capacity		4.8 kVA
Mass		57 kg

■ For *2, *3 and *4, see page 5.

External view

