



Model	TH550A
Type	Horizontal multi-joint
No. of controlled axes	4
Arm length	550 mm (300 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 1 375°/s Axis 2 600°/s Axis 3 (Z-axis) 2000 mm/s Axis 4 (Z-axis rotation) 2000°/s Composite 6.2 m/s
Standard cycle time (with 2kg load)	0.30 s
Maximum payload mass	5 kg (rated: 2 kg)
Allowable moment of inertia	0.06 kgm <sup>2</sup> *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	5m (optional: Max. 25 m)
Power Capacity	2.3 kVA
Mass	28 kg

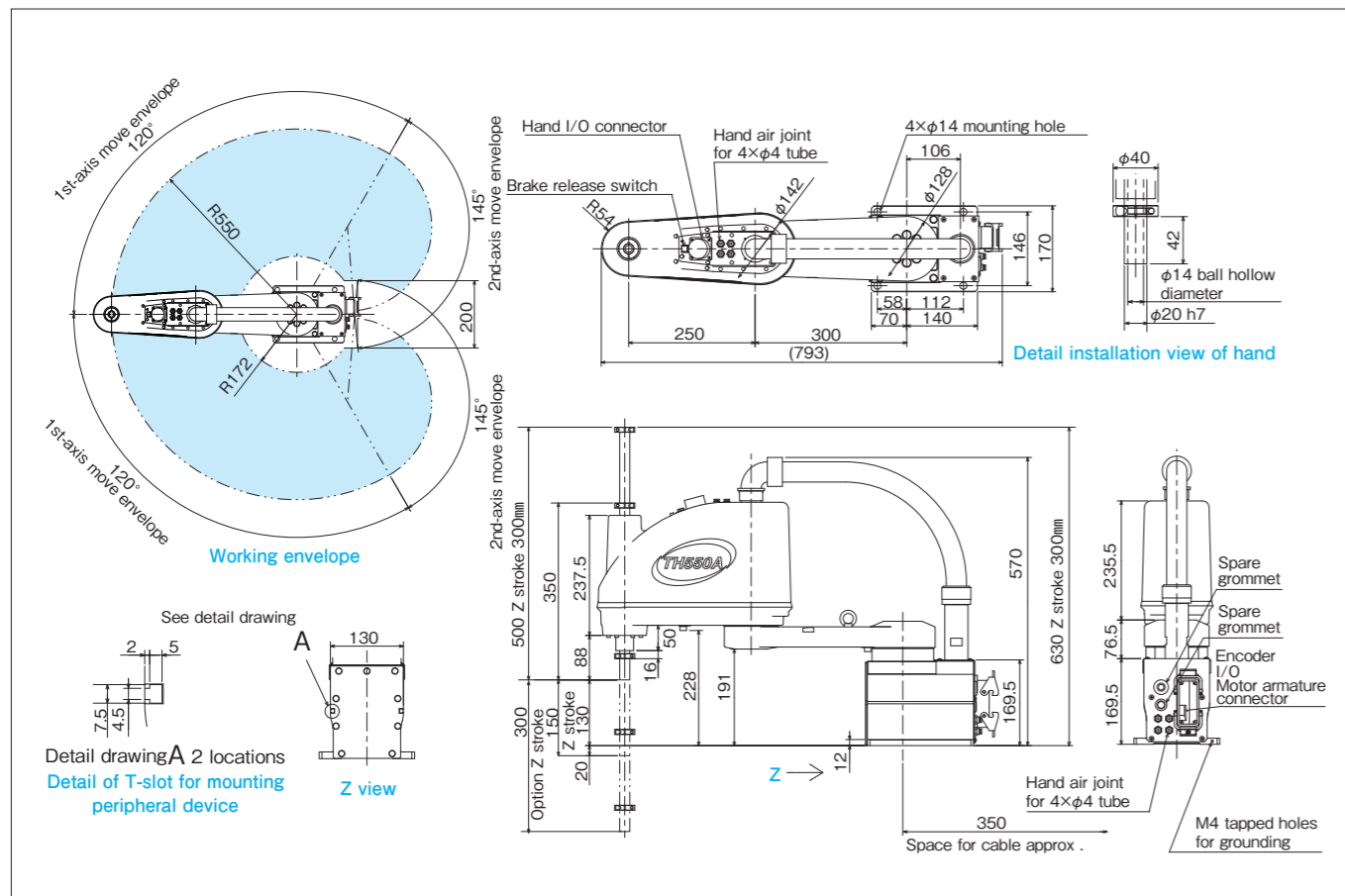
■ For \*2, \*3 and \*4, see page 5.



Model	TH650A
Type	Horizontal multi-joint
No. of controlled axes	4
Arm length	650 mm (300 mm+350 mm)
Working envelope	Axis 1 ±160° Axis 2 ±143° Axis 3 (Z-axis) 200 mm (optional: 400 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) 1700°/s Composite 7.52 m/s
Standard cycle time (with 2kg load)	0.31 s *2
Maximum payload mass	10 kg (rated: 2 kg)
Allowable moment of inertia	0.1 kgm <sup>2</sup> *3
Positioning repeatability	X-Y ±0.01 mm *4 Z (Axis 3) ±0.01 mm *4 Axis 4 (Z-axis rotation) ±0.004° *4
Hand wiring	5 inputs / 4 outputs
Hand piping	4 pcs. (φ6)
Position detection	Absolute
Robot controller cable	5 m (optional: max. 25 m)
Power Capacity	3.5 kVA
Mass	52 kg

■ For \*2, \*3 and \*4, see page 5.

## External view



## External view

