

4-Axis Desktop Robot

AXELIA® AXE-R

4-Axis Desktop Robot for Precise Operations

The AXE-R series is a 4-axis desktop robot equipped with a rotational axis on the tool side. It allows for angled access to the target surface, enabling a wider application range. Direct teaching is supported via a teaching pendant, and offline teaching edits can be performed using dedicated PC software.

Features

- 4-axis design with a rotational mechanism on the tool
- Enables angled access to the workpiece
- Direct teaching via a teaching pendant
- Offline teaching supported by dedicated PC software
- Optional needle position correction tool



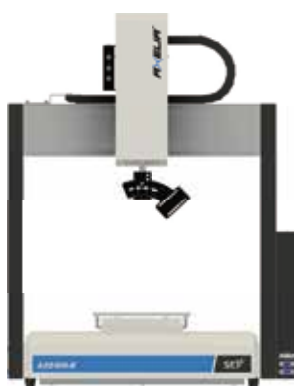
Specifications

Model		AXE300-R	AXE400-R	AXE600-R
Items	Axes	3 axes	3 axes	3 axes
Working Range	X/Y-axes	300 / 300	400/400	600/500
	Z-axis	150mm	150mm	150mm
Max. Payload	X-axis (Tool)	3KG	3KG	3KG
	Y-axis (Work)	10KG	10KG	10KG
Max. Speed (PTP)	X-axis	800mm/sec	800mm/sec	800mm/sec
	Y-axis	800mm/sec	800mm/sec	800mm/sec
	Z-axis	300mm/sec	300mm/sec	300mm/sec
	R-axis	720° /sec	720° /sec	720° /sec
Repeatability	X/Y-axes	± 0.008mm	± 0.008mm	± 0.008mm
	Z-axis	± 0.008mm	± 0.008mm	± 0.008mm
	R-axis	± 0.005°	± 0.005°	± 0.005°
Interpolation		3D interpolation/3D Arc Interpolation		
Control Motion		PTP/CP		
Drive System	X/Y-axes	Stepping Motor/Ball Screw		
	Z-axis	Stepping Motor(Brake)/Ball Screw		
	R-axis	Stepping Motor		
Memory Capacity	SD Card	1-999 programs, 1-1000 points		
External I/O	I/O	32 inputs/32 outputs		
Nozzle Detection		Optical(Optional)		
Power Supply		Auto-switching AC100-240V 50/60Hz		

Lineup



AXE300-R



AXE400-R



AXE600-R

System Configuration



Options

Needle Adjuster

* Custom options are available.



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