

F4000 Advance Series 4-Axis Robot

Fisnar F4000 Advance series 4-axis benchtop robots are designed to ensure precise fluid placement and positioning.

Specifically made for fluid dispensing processes, the F4000 proprietary robot software is user friendly and enables the creation of complex dispensing routines (dots, lines, circles, arcs, and fills) that can be set up and operational in just minutes using the teach pendant (included).

The additional 4th rotational (R) axis allows for dispensing at a user-specified, fixed angle around the 360° rotational plane, allowing it to access hard-to-reach areas and vertical surfaces.

The F4000 Advance can be supplied individually or as a complete stand-alone machine system by integrating into a safety enclosure.*

**Required to conform to European CE safety regulations (Machinery Directive 2006/42/EC).*



Models

Item Number	Description
F4304N	4-Axis Robot - 300x300x150 mm Work Area
F4404N	4-Axis Robot - 400x400x150 mm Work Area
F4504N	4-Axis Robot - 500x500x150 mm Work Area
F4604N	4-Axis Robot - 600x500x150 mm Work Area

Features

- Integral tip position adjustment routine
- USB port for data transfer and back-up
- Program selector switch and fluid purge button
- True 3D interpolation and simultaneous motion control
- Modular connectivity design for the simple installation of productivity enhancement tools

Benefits

- High positional accuracy improves dispense results
- Proprietary user-friendly software allows programs to be easily and quickly set up using the teach pendant
- Increased productivity due to faster cycle times and less rejects

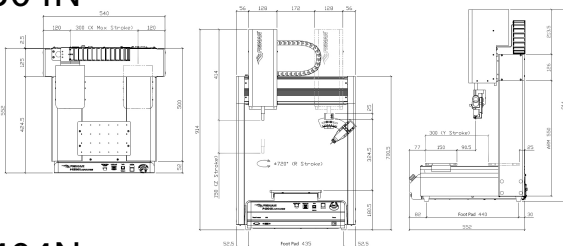
F4000 Series 4-Axis Robots

Specifications

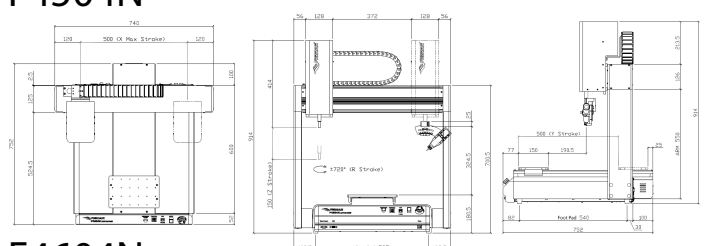
Item Number	F4304N	F4404N	F4504N	F4604N
Maximum Working Area X/Y/Z	300 x 300 x 150 mm (12 / 12 / 6")	400 x 400 x 150 mm (16 / 16 / 6")	500 x 500 x 150 mm (20 / 20 / 6")	600 x 500 x 150 mm (24 / 20 / 6")
Max Working Area (R)	+/- 720°			
Maximum Speed (X&Y/Z)	800 / 320 mm / secs (31 / 13" / secs)			
Maximum Speed (R)	720° / secs			
Work Load	10 kg (22 lb)			
Tool Load	5 kg (11 lb)			
Repeatability	+/- 0.008 mm**			
Motion Control	PTP & CP			
Drive System	3-phase micro stepping motors			
Data Memory	1-100 programs 1-50,000 points / program			
I/O Signals	8 inputs / 8 outputs			
External Interface	USB / RS232			
Power Supply	Auto-switching AC 100 - 240 VAC, 320 watts			
Dimensions (W/D/H)	540 x 552 x 914 mm (21 x 22 x 36")	640 x 652 x 914 mm (25 x 30 x 36")	740 x 752 x 914 mm (29 x 30 x 36")	860 x 752 x 914 mm (32 x 30 x 36")
Weight	49.5 kg (109 lb)	57 kg (126 lb)	62.5 kg (138 lb)	66.5 kg (146 lb)
Approvals	CE, RoHS, WEE			

**Repeatability value will vary depending on measurement method.

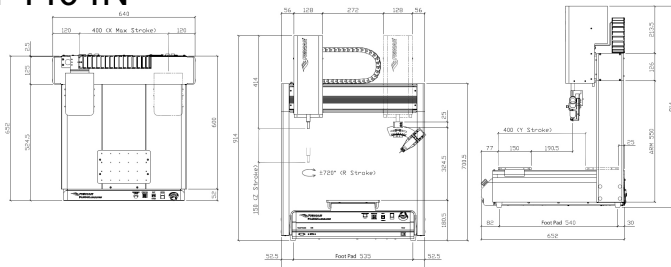
F4304N



F4504N



F4404N



F4604N

