F4000 Advance Series Dual Table Robot

F4000 Advance dual table benchtop robots are designed to ensure precise fluid placement and positioning.

The unique dual-table design allows for high speed manufacturing due to the elimination of part changeover and loading time. This is made possible with the removal of finished parts and the loading of new parts on the fixture of one table, while the other table is being processed by the robot.

Furthermore, the dual-table design provides users the option to carry out two different dispensing routines sequentially, thus eliminating the requirement for batch production.

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
F4553	3-Axis Robot - 500x500x100mm Work Area
F4554	4-Axis Robot - 500x500x150mm Work Area

Features

- Unique dual-table design for high speed manufacturing
- USB port for data transfer and back-up
- Program selector switch and fluid purge button
- True 3D interpolation and simultaneous motion control
- Modular connectivity feature

Benefits

- Dual-table design increases production rates
- Independent control of each table
- High positional accuracy improves dispense results
- Proprietary user-friendly robot software allows programs to be easily and quickly set up using the teach pendant
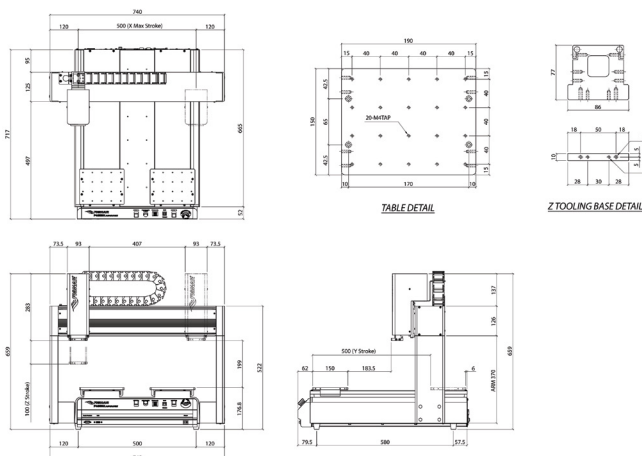- Increased productivity due to faster cycle times and less rejects

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Specifications

Item Number	F4553	F4554
Maximum Working Area X/Y/Z	500 x 500 x 100mm (20 / 20 / 4")	500 x 500 x 150mm (20 / 20 / 6")
Maximum Working Area (R)	+/- 720°	
Maximum Speed (X&Y/Z)	800 / 320mm / secs (31 / 13" / secs)	
Maximum Speed (R)	720° / secs	
Work Load	10kg (22lb)	
Tool Load	5kg (11lb)	
Repeatability	+/- 0.008mm**	
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)	740 x 659 x 717mm (30 x 26 x 28")	740 x 916 x 717mm (30 x 36 x 28")
Weight	52kg (115lb)	56kg (123lb)
Approvals	CE, RoHS, WEE	

**Repeatability value will vary depending on measurement method.

F4553

F4554