

F7403N-HD Heavy Duty Desktop Robot

The F7403N-HD heavy duty robot is designed for precise fluid placement and positioning, when dispensing onto large and heavy size parts.

A 20Kg Z-Axis payload with safety brake mechanism enables heavy dispense equipment to be mounted, without effecting robot durability or performance. The 36Kg work load and increased Z-Clearance ensure the robot is capable of handling large and heavy parts.

The proprietary teach pendant robot software is user friendly and enables the creation of complex dispensing routines (dots, lines, circles, arcs and fills) to be set up and operational in minutes.

A supplementary windows programming software allows 2D DXF files to be imported into the software and have dispense lines, dots or circles quickly created from the imported CAD data. This feature dramatically reduces programming time for complex dispense patterns.

The F7403N-HD ADVANCE can be supplied on its own or as an integrated machine system in a safety enclosure.*

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

Features

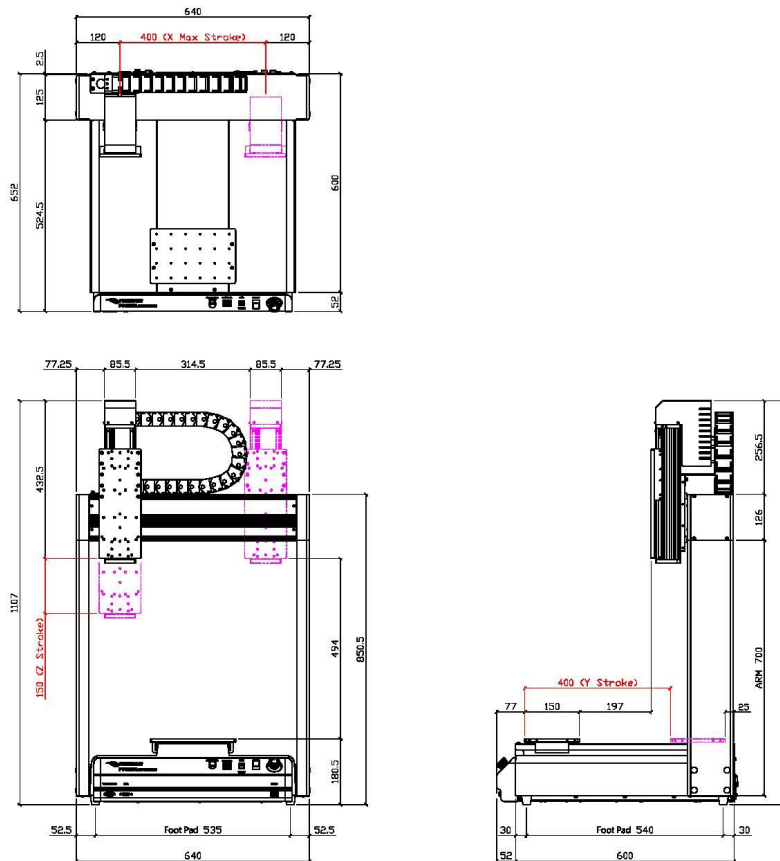
- Working area up to 400 x 400mm
- Axis repeatability +/- 0.05mm
- 36Kg Work load
- 20Kg Z-Axis payload
- Z-Axis motor brake mechanism
- Dual linear guide & ball screw drive mechanism
- Stepper motor drive system, with closed loop encoder feedback
- Modular connectivity interface
- USB port for program data transfer & back up
- Program selector switch and fluid purge button
- Teach pendant included for easy programming



Benefits

- High positional accuracy improves dispense results
- Heavy duty ball screw drive mechanism maximizes robot durability and performance
- Z-Axis brake mechanism eliminates the risk of the dispense tip crashing into the work piece in the event that the emergency stop button or door switch is inadvertently activated
- 385mm Z-Clearance ensures that large workpieces can be supported
- Optional CCD vision kit, tip-alignment, or height sensor can be easily added at any time
- Increased productivity due to faster cycle times and less rejects
- Windows software provides greater control and visibility of complete dispense program

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Specification

Item Number	F7403N-HD
Working Area X/Y/Z	400 x 400 x 150mm (16 x 16 x 6")
Max Speed (X&Y/Z)	500mm / 180mm / secs
Work Load	36 kg (80lb)
Tool Load	20 kg (44lb)
Repeatability	+/- 0.01mm
Motion Control	PTP & CP
Drive System	Ballscrew servo drive
Data Memory	1-100 programs / 50,000 points per program
I/O Signals	8 inputs / 8 Outputs
External Interface	USB / RS232
Power Supply	Auto-switching 100-240VAC, 200W
Dimensions (W/D/H)	640 x 652 x 1107mm / (25.2 x 25.7 x 43.6")
Weight	62 kg (137lb)
Approvals	CE, RoHS, WEE

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