

F4000N ELITE Series 3-Axis Robot

Fisnar F4000N Elite 3-axis benchtop robots are designed to offer the highest level of precise automated fluid placement and positioning.

The CCD camera vision system and laser height sensor result in the system being able to automatically adjust for changes in part position/orientation and height.*

Specifically built for fluid dispensing processes, the F4000 proprietary robot vision software is user friendly and enables the set-up and running of complex dispensing routines to be created easily.

The additional auxiliary camera allows for real-time viewing, image capturing, and recording of the dispense path.

Additional functionality features such as CAD import and an offline measuring tool further improve the users control of the dispensing process.

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

*Laser Height Sensor included with -IL and -LK models only. **Required to conform to European CE safety regulations (Machinery Directive 2006/42/EC).

Features

- Dual Linear Guide and ball screw mechanism
- Servomotor drive control with closed loop encoder feedback
- CCD camera vision & PC kit with automated tip-alignment
- Keyence Laser Height Detect Kit (-LK version for detection of transparent or highly reflective surfaces)*
- Fiducial Recognition System
- Real-time preview & recording of dispense cycle path
- Additional Process Functionality tools CAD import, measuring & image capture/recording



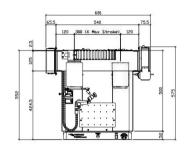
Benefits

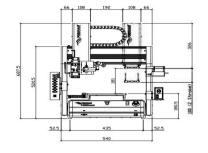
- Highest level of positional repeatability
 +/-0.003 mm improves dispense results
- Proprietary user-friendly camera vision software ensures a quicker and easier learning curve for users to set-up dispense programs
- Laser Height Sensor scans dispense surface and automatically adjusts height to maintain consistent clearance between dispense tip and substrate*
- More precise and accurate dispense results regardless of dimensional variations of component parts
- Improved process control and quality due to additional software functionality tools

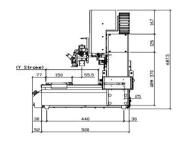


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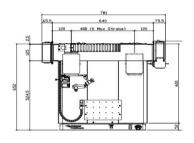
F4303N ELITE / F4303N-IL ELITE / F4303N-LK ELITE

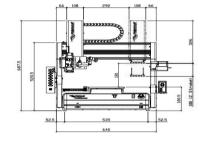


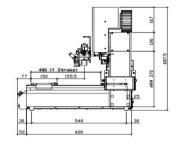




F4403N ELITE / F4403N-IL ELITE / F4403N-LK ELITE







Specifications

Item Number	F4303N ELITE F4303N-IL ELITE F4303N-LK ELITE	F4403N ELITE F4403N-IL ELITE F4403N-LK ELITE
Working Area (X/Y/Z)	300 x 300 x 100 mm	400 x 400 x 100 mm
Max Speed (X&Y/Z)	800 / 250 mm / secs	800 / 250 mm / secs
Work Load	25 kg (55 lbs)	25 kg (55 lbs)
Tool Load (Z-Axis)	6 kg (13 lbs)	6 kg (13 lbs)
Repeatability	+/- 0.003 mm / axis***	+/- 0.003 mm / axis***
Motion Control	PTP & CP	PTP & CP
Drive Mechanism	Dual linear guide/ ball screw	Dual linear guide/ ball screw
Drive System	Servo Motor	Servo Motor
Data Memory	PC Storage	PC Storage
I/O Signals (NPN)	8 inputs / 8 outputs	8 inputs / 8 outputs
External Interface	USB / RS232	USB / RS232
Power Supply	Auto-switching AC 100 - 240 VAC, 320 watts	Auto-switching AC 100 - 240 VAC, 320 watts
Dimensions (W/D/H)	681 x 575 x 687.5 mm (27 x 23 x 27")	781 x 675 x 687.5 mm (31 x 26.5 x 27")
Weight	49 kg (108 lb)	54 kg (119 lb)
Approvals	CE, RoHS, WEE	CE, RoHS, WEE

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^{***}Repeatability value will vary depending on measurement method.