

Fisnar F5000 Series Benchtop Gantry Dispensing Robots



Description

The automation of any manual benchtop dispensing application can be easy to justify, with a quick return on investment (ROI). The versatile **UNITOP™ F5000 Series** robots are compact and economically priced robots that can be used either as a benchtop or a gantry system. The F5000 series dispensing robots are ideal for conveyor fed automation or installed in work cells operating as a slave robot.

The **F5000 Series** have work areas up to 300mm with a resolution accuracy of 0.001mm. Using the teach pendant, these benchtop gantry dispensing robots support Fisnar's industry-leading dispensing software and can store and retrieve up to 100 programs containing 50,000 points each. They have a three-axis design and are capable of interfacing with any INTERTRONICS dispensing equipment.

The modular connectivity design of the Fisnar F5000 series offers an easy configuration with a number of add-on productivity accessories such as [Tip Alignment Kit](#), [Height Sensor](#) and [CCD Camera Vision System](#). Our in-house technical team are available to help you select the most efficient and cost-effective dispensing system for your application.

We are able to provide complete robotic dispensing systems to include any required [dispensing valves and pumps](#), [material feed reservoirs](#) and [robot safety enclosures](#). Dispensing equipment can be easily integrated with curing or surface preparation equipment to improve your process.

Our technical team are also able to design [dispensing systems](#) on request, please contact us for a full

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discussion of your requirements.

Features & Benefits

- Modular connectivity support for add-on accessories
- Ideal for form-in-place gaskets, adhesives, potting, coating and filling
- Place-anywhere UNITOP benchtop gantry design allows flexible operation
- High resolution 0.001mm
- Performs continuous path and point-to-point motions, including dots, lines, arcs and circles
- Quick fluid-purge button located on the front panel of controller
- Software tip alignment routine for quick program offsets when changing [dispensing tips](#)
- Step-and-repeat functions – program one object only for multiple identical objects
- Stores 100 programs on-board with up to 50,000 points per program
- Available without Teach Pendant for multiple installations
- USB connector allows system updates and program interchange between robots

Applications

- Form-in-place gaskets
- Adhesives
- Potting
- Coating
- Filling

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Programming the F5000 Series dispensing robot is simple with easy to follow English language instructors. Commands can be entered through a number of ways including a teach pendant, RS232 connection or proprietary PC software (sold separately).



Specifications

Specifications	F5200N.2	F5300N.2
Robot Working Area X/Y/ Z	200mm / 200mm / 150mm	300mm / 300mm / 150mm

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Specifications	F5200N.2	F5300N.2
Tool Load – Z axis	2kg	2kg
Max. Speed X/Y/Z (mm/sec)	500 / 500 / 320	500 / 500 / 320
Repeatability	+/- 0.02mm / axis	+/- 0.02mm / axis
Resolution	0.001mm / axis	0.001mm / axis
Data Memory	1-100 programs, 50,000 points / program	1-100 programs, 50,000 points / program
Drive System / Stepping Motor	Micro stepping motors	Micro stepping motors
Motion Control	PTP & CP	PTP & CP
Teaching Method	Teach pendant	Teach pendant
I/O Signals	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 (WxDxH)	485 x 383.5 x 569mm	595 x 483 x 569mm

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Specifications	F5200N.2	F5300N.2
Weight	25kg	28kg

Other Information

See also our [Technical Resources](#) page to download [“Robots in Manufacturing – How the Smaller Machine Provides Automation and Competitiveness”](#) – a whitepaper about this technology.

Ordering Information

Part number	Description
FISF5200N.2	3-Axis UNITOP Dispensing Robot Includes: F5200N.2 Controller Box, Teach Pendant, USB Drive, Barrel Holder, Spare screws and Hex key, Power Cord, Dispenser Cable, X/Y/Z Cables, I/O Port Connector, External Control Connector, Spare Control Connector, Tip Locator (3 pieces), Barrel and Air Line, Cable Supporter, Start/Stop Box (optional)

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Part number	Description
FISF5300N.2	3-Axis UNITOP Dispensing Robot Includes: F5300N.2 Controller box, Teach pendant, USB drive, Barrel holder, Spare screws and Hex key, Power cord, Dispenser cable, X/Y/Z cables, I/O Port Connector, External control connector, Spare control connector, Tip locator (3 pieces), Barrel and Air Line, Cable supporter, Start/stop box (optional)
FISF4000N-WIN	Windows® software package
Enclosure	A range of safety enclosures are available with light curtains, interlocked doors, etc

Next Steps

Our technical team are on hand to discuss your application requirements. [Click here](#) to get in touch.

Find out more information on [how to purchase](#).

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Supplied by:

intertronics

INTERTRONICS

12a Station Field Industrial Estate, Banbury Road, Kidlington

Oxfordshire England OX5 1JD

t 01865 842842 e info@intertronics.co.uk

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