

# 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



[Achieving ROI with robotics – a roundtable discussion](#)

The benefits of robotics are quite compelling: improved productivity, efficiency, output, quality, and flexibility. In addition to their production benefits, they can improve health and safety and job satisfaction for employees.

To explore the UK’s productivity puzzle and discuss how the UK’s manufacturers can achieve ROI on their robot purchases, we brought together our team and a leading robotics expert.

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[The 10 Myths about Dispensing Robots](#)  
Are any of these misconceptions about dispensing robots holding back your productivity?

## Ordering Information

Part number	Description
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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)
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

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Let's start by talking about your application

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- Name\*
- Company\*
- Phone\*
- Email\*
- Post code\*

If you're in the UK, knowing your postcode would help us get in touch even more quickly. If you're outside the UK, please indicate your country.



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 ■ Tell us about your application

■

Any information that you submit using this form will be processed according to our [privacy policy](#).

■ Name 

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Supplied by:



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