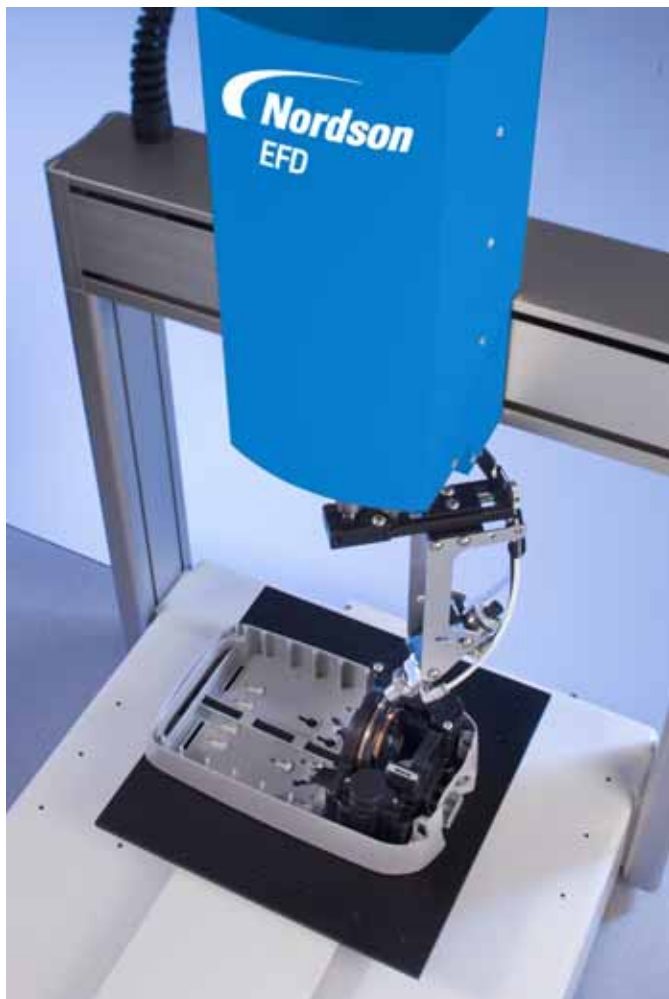


# Multi-axis Dispensing Robots

**Adhesives Conformal Coatings Cyanoacrylates Greases Paints Reagents Sealants Solder Pastes**



Nordson EFD's extensive line of multi-axis dispensing robots is specifically designed and configured for precise placement and dispensing with EFD syringe barrel and valve systems. Platforms range from 200mm x 200mm all the way to 500mm x 500mm, making them an ideal solution for batch processing or critical dispensing applications.

Specialized PC dispensing software and CAD download capabilities make EFD robots easy to program and quick to set up. True three- and four-dimensional motion control allows easy programming of dots, stripes, arcs, compound arcs and patterns on different planes.

## Features

- Easy to program - Dedicated dispensing software eliminates the need for complex robot language programming
- Programmable interface via teach pendant or PC (dispensing and CAD download software included)
- Rugged, reliable construction
- Wide range of work envelopes
- Small footprint
- Compatible with all EFD syringe, valve and jet dispensing systems
- Ideal for both stand-alone and automated operations
- Complimentary process evaluation by experienced fluid dispensing experts
- Samples processed for customer evaluation and approval prior to purchase
- Compact size and built-in sequencer permit easy integration into automated assembly lines

## Benefits

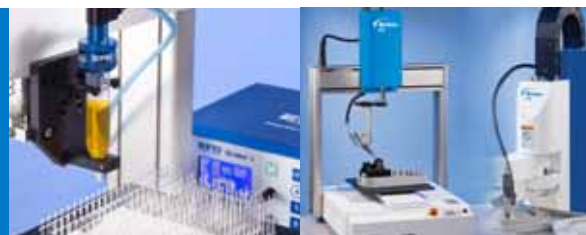
- Precise fluid placement, accuracy and repeatability
- Higher production yield
- Better product quality and reliability
- Cost-effective automation
- More efficient batch processing
- Frees operators for other tasks

## Applications

- Dots
- Lines
- Potting
- Dam & Filling
- Underfilling
- Encapsulation
- Sealing
- Coating
- Jetting

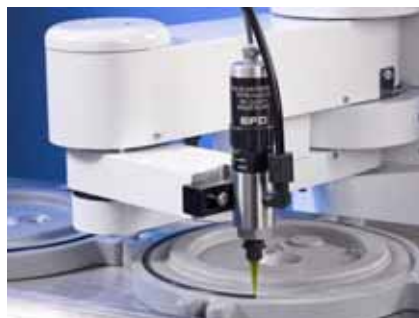


# Multi-axis Dispensing Robots



## Multi-axis Dispensing Robots

<b>Rigid Structure</b>	Aluminum die-cast base, extruded aluminum column
<b>Labyrinth Mechanism</b>	Prevents foreign objects from getting under the work table
<b>Smooth Movement</b>	Micro-step control system
<b>Flexible Interface</b>	RS-232C port for PC connection RS-422 port for teaching pendant I/O (Input 16, Output 16)
<b>Large Clear Screen</b>	Easily viewable, multiple languages, mm or inches
<b>Simple Teaching</b>	Software allows user to "teach" robot easily, or create original programs
<b>Enhanced Memory</b>	Stores up to 255 programs and 30,000 points
<b>Simple Sequencer</b>	Built-in simple sequencer functions independently, provides up to 1000 steps



## Models

DR2203	7023145	200 X 200, 3 axes
DR2204	7023149	200 X 200, 4 axes

DR2303	7023153	300 x 320, 3 axes
DR2304	7023157	300 x 320, 4 axes

DR2403	7023161	400 x 400, 3 axes
DR2404	7023165	400 x 400, 4 axes

DR2503	7023169	510 x 510, 3 axes
DR2504	7023173	510 x 510, 4 axes

	SPECIFICATIONS				
Features		2200	2300	2400	2500
Moving Range	X/Y	200/200 mm	300/320 mm	400/400 mm	510/510 mm
	Z	50 mm	100 mm	150 mm	150 mm
	R	360°	360°	360°	360°
Work Piece Payload		7 kg	11 kg	11 kg	11 kg
Tool Payload		3.5 kg	6 kg	6 kg	6 kg
Max. Speed		500 mm/sec	800 mm/sec	800 mm/sec	800 mm/sec
Unit Weight		18 kg	35 kg	42 kg	42 kg
Dimensions	Width	320 mm	560 mm	584 mm	584 mm
	Depth	377 mm	529 mm	629 mm	629 mm
	Height	536 mm	649 mm	799 mm	799 mm
Drive System		5-Phase Stepping Motor	5-Phase Stepping Motor	5-Phase Stepping Motor	5-Phase Stepping Motor
Program Capacity		255	255	255	255
Point Capacity		30,000	30,000	30,000	30,000
General Purpose I/O		16 Inputs/ 16 Outputs	16 Inputs/ 16 Outputs	16 Inputs/ 16 Outputs	16 Inputs/ 16 Outputs
External Communications		RS232-C	RS232-C	RS232-C	RS232-C
Drive Method		PTP and CP	PTP and CP	PTP and CP	PTP and CP
Dispensing Controller		External	External	External	External
Current Consumption		200VA	200VA	200VA	200VA
Power Source		Multi-voltage	Multi-voltage	Multi-voltage	Multi-voltage

## In-line Dispensing Arms

Nordson EFD also offers SCARA in-line robot systems. With similar ease of programming and quick setup, these robots are specifically designed for use with in-line conveyors or products with heavy or high profiles.

SR4403	7012481	SCARA, 3 axes
SR4404	7012482	SCARA, 4 axes

USA & Canada: 800.556.3484 or +1.401.431.7000  
Europe: 0800 585733 or +44 (0) 1582 666334  
Asia: +86 (21) 3866 9006

info@nordsonefd.com      www.nordsonefd.com

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