

# EV Series Automated Dispensing Systems

Easy automation for precise fluid application with simple vision pencil camera



EV Series pencil camera vision makes programming patterns easier.

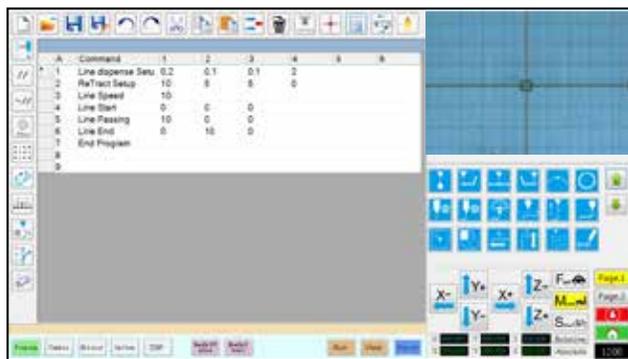
*\* X/Y calibration delivers best-in-class repeatability*



Pencil camera verifies product presence



Optional joystick puts the control of axis movement in your hands.



Vision-guided DispenseMotion software makes programming easy.



more info

Nordson EFD's EV Series automated systems include simple vision for precise fluid dispensing using EFD syringe barrel and valve systems.

Specialized vision-guided DispenseMotion™ software and a simple pencil camera make EFD automated systems quick to set up and easy to program. True three-dimensional motion control allows easy programming of dots, lines, circles, arcs, and compound arcs.

Platforms range from 150 x 200 mm to 570 x 500 mm, making them an ideal solution for batching or critical dispensing applications.

The EV Series can work as a standalone system or as a key part of an automated solution and is easily integrated into in-line transfer systems, rotary tables, and pallet assembly lines.

## Features

- Simple camera and DispenseMotion software make setup and programming easy
- On-screen preview of the dispensing path facilitates programming
- Streamlined file import and conversion
- True three-dimensional motion control
- Wide range of work envelopes

## Benefits

- Faster cycle and batch times
- Easy integration into any manufacturing operation
- Reduced production, material, and ownership costs
- New manufacturing opportunities

## EV Series Specifications

Item/Model	E2V	E3V	E4V	E5V	E6V
Part number	7360856	7360857	7360858	7360859	7362103
Part # Europe*	7361349	7361350	7361351	7361352	7362104
Number of axes	3	3	3	3	3
Maximum working area (X / Y / Z)	150 / 200 / 50 mm (6 / 8 / 2")	250 / 300 / 100 mm (10 / 12 / 4")	350 / 400 / 100 mm (14 / 16 / 4")	450 / 500 / 150 mm (18 / 20 / 6")	570 / 500 / 150 mm (22 / 20 / 6")
Workpiece payload	5 kg (11.0 lb)	10 kg (22.0 lb)	10 kg (22.0 lb)	10 kg (22.0 lb)	10 kg (22.0 lb)
Tool payload	1.5 kg (3.3 lb)	3 kg (6.6 lb)	3 kg (6.6 lb)	3 kg (6.6 lb)	3 kg (6.6 lb)
Maximum speed (XY / Z)	500 / 250 mm/sec (20 / 10"/sec)	800 / 320 mm/sec (31 / 13"/sec)			
Unit weight	29 kg (64 lb)	47.5 kg (105 lb)	52.5 kg (116 lb)	55 kg (121 lb)	58 kg (128 lb)
Dimensions	480 <sub>w</sub> x 435 <sub>H</sub> x 510 <sub>D</sub> mm (19 <sub>w</sub> x 17 <sub>H</sub> x 20 <sub>D</sub> " )	595 <sub>w</sub> x 538 <sub>H</sub> x 645 <sub>D</sub> mm (23 <sub>w</sub> x 21 <sub>H</sub> x 25 <sub>D</sub> " )	695 <sub>w</sub> x 638 <sub>H</sub> x 645 <sub>D</sub> mm (27 <sub>w</sub> x 25 <sub>H</sub> x 25 <sub>D</sub> " )	795 <sub>w</sub> x 717 <sub>H</sub> x 815 <sub>D</sub> mm (31 <sub>w</sub> x 28 <sub>H</sub> x 32 <sub>D</sub> " )	915 <sub>w</sub> x 717 <sub>H</sub> x 815 <sub>D</sub> mm (36 <sub>w</sub> x 28 <sub>H</sub> x 32 <sub>D</sub> " )
Drive system	3-phase micro-stepping motor				
Memory capacity	PC storage				
Data storage	PC storage / USB				
General purpose I/O	8 inputs / 8 outputs (16 / 16 optional)	8 inputs / 8 outputs (16 / 16 optional)	8 inputs / 8 outputs (16 / 16 optional)	8 inputs / 8 outputs (16 / 16 optional)	8 inputs / 8 outputs (16 / 16 optional)
Drive method	PTP and CP				
Dispensing controller	External	External	External	External	External
Power supply	Auto-switching, AC100–240V, 230 W	Auto-switching, AC100–240V, 350 W	Auto-switching, AC100–240V, 350 W	Auto-switching, AC100–240V, 350 W	Auto-switching, AC100–240V, 350 W
Interpolation	3 axes (3D space)				
Repeatability**	±0.008 mm				
Working temperature	10–40° C (50–104° F)				
Precision vision	Included	Included	Included	Included	Included
DispenseMotion software	Included	Included	Included	Included	Included
Tip detection	Optional	Optional	Optional	Optional	Optional
Approvals	CE, RoHS, WEEE, China RoHS				

\* Complies with European safety regulations.

\*\* Repeatability results may vary depending on method of measurement.

## Free Process Evaluation

Contact Nordson EFD to configure an automated dispensing system that meets your specific needs.

- A complimentary process evaluation by experienced fluid dispensing experts
- Samples processed for customer evaluation and approval prior to purchase

## PRO Series

EFD's PRO Series includes smart vision CCD camera and laser height sensing capabilities for a fully integrated dispensing solution.



For Nordson EFD sales and service in over 40 countries, contact Nordson EFD or go to [nordsonefd.com](http://nordsonefd.com)

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