

PRO Series Automated Dispensing Systems

A complete, vision-guided automation solution



Integrated vision and laser make the PRO Series a complete automated solution.

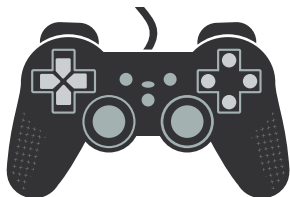
** X/Y calibration delivers best-in-class repeatability*



Smart vision CCD camera verifies product presence and orientation.



Integrated laser height sensor checks for surface height variations (PRO4L).



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

Nordson EFD's vision-guided PRO Series automated systems are specifically designed and configured for precise fluid dispensing using EFD syringe barrel and valve systems.

Specialized DispenseMotion™ software and integrated vision and laser height sensing capabilities 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.

Closed-loop encoding, along with the smart vision and laser height sensing capabilities, allows the system to automatically adjust programs to compensate for both surface height changes and variations in product orientation.

Features

- Simplified setup and programming with EFD's advanced vision-guided DispenseMotion software
- On-screen preview of the dispensing path facilitates programming
- Constant closed-loop feedback with encoding, smart vision camera, and precision laser non-contact sensing
- Streamlined file import and conversion

Benefits

- Improved product quality; more precise, accurate dispensing
- Faster startup to introduce automation, less production line downtime
- Quicker learning curve for operators; programming is easier, more visual
- Produces more parts and reduces process time
- Reduced production, material, and ownership costs
- New manufacturing opportunities



more info

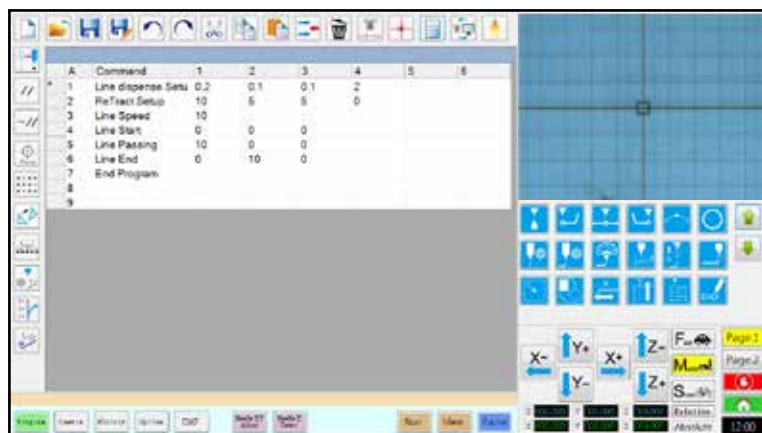


PRO Series Specifications

Item	PRO4	PRO4L / A/B
Part #	7360860	7360861 (A) / 7360862 (B)
Part # Europe*	7361353	7361354 (A) / 7361355 (B)
Number of axes	3	3
Maximum working area (X / Y / Z)	350 / 400 / 100 mm (14 / 16 / 4")	300 / 400 / 100 mm (12 / 16 / 4")
Workpiece payload	7 kg (15.4 lb)	7 kg (15.4 lb)
Tool payload	2 kg (4.4 lb)	1.5 kg (3.3 lb)
Unit weight	57.5 kg (127 lb)	59 kg (130 lb)
Dimensions	811 _W x 647 _H x 660 _D mm (32 _W x 25 _H x 26 _D ")	811 _W x 647 _H x 660 _D mm (32 _W x 25 _H x 26 _D ")
Maximum speed (XY / Z)	500 / 250 mm/sec (20 / 10"/sec)	500 / 250 mm/sec (20 / 10"/sec)
Drive system	5-phase micro stepping motor	5-phase micro stepping motor
Memory capacity	PC storage	PC storage
Data storage	PC storage / USB	PC storage / USB
General purpose I/O	8 inputs / 8 outputs (16 / 16 optional)	8 inputs / 8 outputs (16 / 16 optional)
Drive method	PTP and CP	PTP and CP
Dispensing controller	External	External
Power supply	Auto-switching, AC100-240V, 380 W	Auto-switching, AC100-240V, 380 W
Interpolation	3 axes (3D space)	3 axes (3D space)
Repeatability**	±0.004 mm	±0.004 mm
Working temperature	10–40° C (50–104° F)	10–40° C (50–104° F)
Closed-loop X and Y axis encoder	Included	Included
Tip detection	Included	Included
High-precision vision	Included	Included
DispenseMotion software	Included	Included
Laser height detection	Optional	Included
Approvals	CE, RoHS, WEEE, China RoHS	

* Complies with European safety regulations.

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



Vision-guided DispenseMotion software makes programming easy.

Smart Vision

- Precise repeatability with powerful CCD camera
- Higher product quality and throughput

All PRO Series systems include a CCD camera that converts pixels to digital values to deliver precise, high-quality images. The software confirms workpiece presence and placement and automatically adjusts as in-process variations occur.

Laser Height Sensing

- Pinpoint accuracy with integrated laser height sensing
- Better dispensing

In addition to smart vision, the PRO4L Series also includes a fully integrated height sensor that detects variations on the surface of a product. The system automatically adjusts the tip dispensing height, preventing uneven deposits and tip or workpiece damage.

Free Process Evaluation

Contact Nordson EFD to configure an automated dispensing system that meets your specific needs, with:

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



For Nordson EFD sales and service in over 40 countries, contact Nordson EFD or go to nordsonefd.com

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