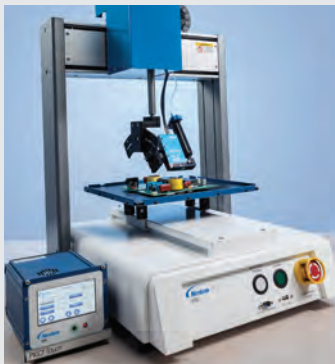


Automated Dispensing Systems



Nordson EFD's range of automated dispensing systems are specifically designed and configured for precise fluid dispensing using EFD syringe barrel and valve systems.

Specialized DispenseMotion™ software and fully 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, compound arcs, and complex patterns on different planes.

Closed-loop encoding, along with the smart vision CCD camera and laser height sensing, allows the systems to automatically adjust a dispensing program to compensate for both surface height changes and variations in product orientation.







The systems set up quickly and are easy to run, providing more time for other projects while increasing product yield.

Features and Benefits

- Produces more parts and reduces process time
- Improves product quality from more precise, accurate dispensing
- Quicker learning curve for operators — programming is easier, more visual
- Faster startup to introduce automation, with less production downtime
- Fully integrated positioning and dispensing functions

Automated Dispensing System Selection Guide

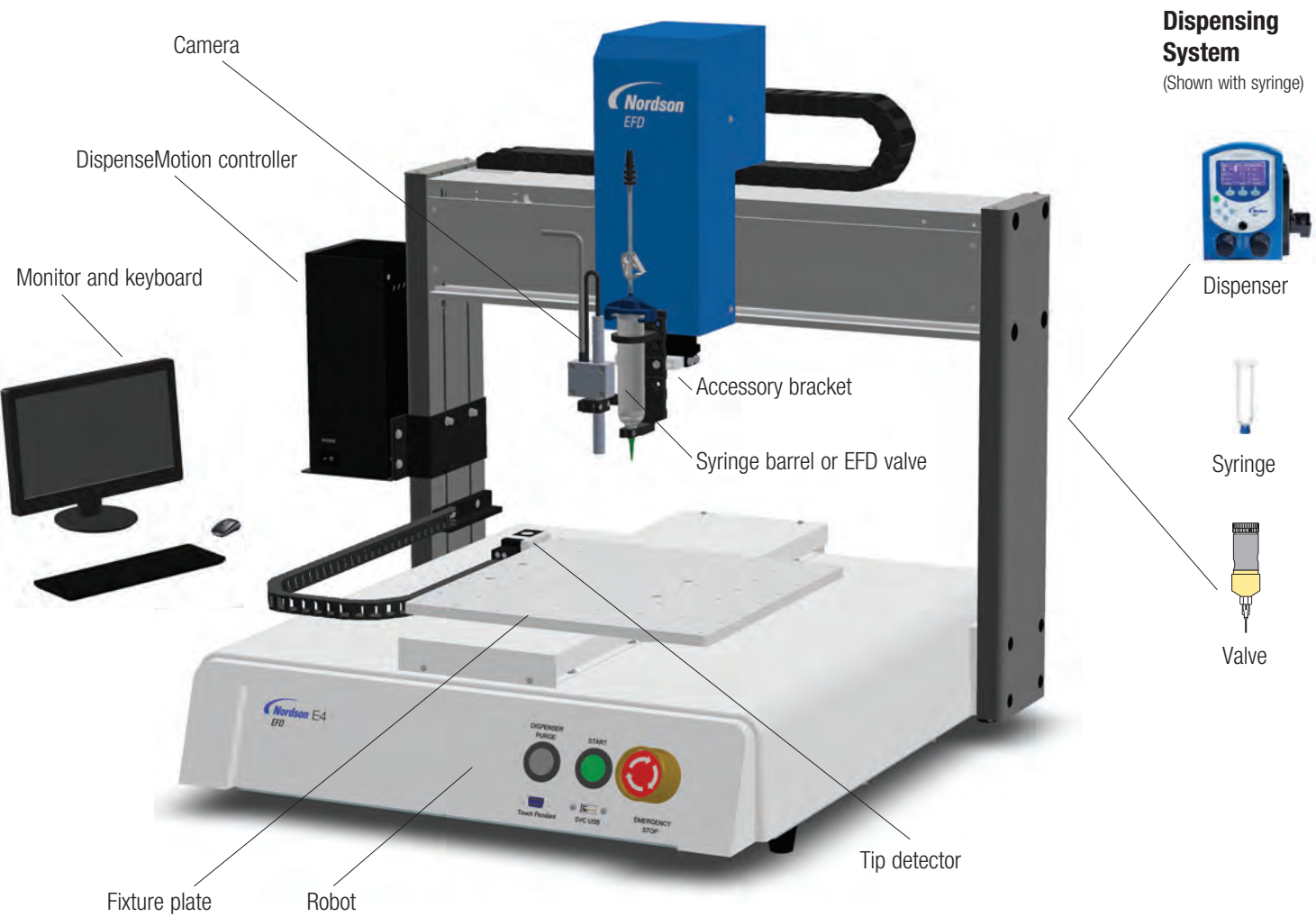
AUTOMATED DISPENSING SYSTEMS

System						
	PROPlus / PRO	EV	E	RV	R	GV
# of axes	3	3	3	4	4	3
Programming method	DispenseMotion software	DispenseMotion software	Teach Pendant TeachMotion software	DispenseMotion software	Teach Pendant TeachMotion software	DispenseMotion software
Vision	CCD smart camera	Pencil camera	—	CCD smart camera (fixed or rotating mount)	—	G8V CCD smart camera G4V Pencil camera
Height detection	Laser (included on PROL / PROPlusL)	Mechanical (optional)	Mechanical (optional)	—	—	Mechanical (optional)
Tip detection	Tip detector (included)	Tip detector (optional)	Tip aligner (optional)	Tip detector or Tip aligner (optional)	Tip aligner (optional)	Tip detector (optional)
Closed loop encoding	Included	—	—	—	—	G4V (N/A) G8V (Included)
Maximum working area (X / Y / Z)	PRO3 / PRO3Plus 250 / 250 / 100 mm (10 / 10 / 4") PRO3L / PRO3PlusL 250 / 220 / 100 mm (10 / 9 / 4") PRO4 / PRO4Plus 350 / 350 / 100 mm (14 / 14 / 4") PRO4L 300 / 400 / 100 mm (12 / 16 / 4") PRO4PlusL 350 / 320 / 100 mm (14 / 13 / 4")	E2V 150 / 200 / 50 mm (6 / 8 / 2") E3V 250 / 300 / 100 mm (10 / 12 / 4") E4V 350 / 400 / 100 mm (14 / 16 / 4") E5V 450 / 500 / 150 mm (18 / 20 / 6") E6V 570 / 500 / 150 mm (22 / 20 / 6")	E2 200 / 200 / 50 mm (8 / 8 / 2") E3 300 / 300 / 100 mm (12 / 12 / 4") E4 400 / 400 / 100 mm (16 / 16 / 4") E5 500 / 500 / 150 mm (20 / 20 / 6") E6 620 / 500 / 150 mm (24 / 20 / 6")	R3V 300 / 300 / 150 mm (12 / 12 / 6") R4V 400 / 400 / 150 mm (16 / 16 / 6") R6V 620 / 500 / 150 mm (24 / 20 / 6") All: ± 999°	R3 300 / 300 / 150 mm (11.8 / 11.8 / 5.9") R4 400 / 400 / 150 mm (15.7 / 15.7 / 5.9") R6 620 / 500 / 150 mm (24 / 19.7 / 5.9") All: ± 999°	G4V 400 / 400 / 100 mm (16 / 16 / 4") G8V 800 / 800 / 100 mm (31 / 31 / 4")



www.nordsonefd.com/Robot

Automated Dispensing System – System Setup



Accessories



Automated Dispensing Systems

The PROPlus / PRO Series is EFD's most advanced automated dispensing system. Along with specialized DispenseMotion software and fully integrated vision and laser height sensing capabilities, the system includes closed-loop encoding to deliver best-in-class dispensing performance and exceptional process control.

Features and Benefits

- Dual linear guide, advanced servomotor, and ball screw actuation (PROPlus only)
- Best-in-class repeatability and speed (PROPlus ± 0.003 mm; PRO ± 0.004 mm)
- 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
- Improved product quality; more precise, accurate dispensing
- Quicker learning curve for operators; programming is easier, more visual
- Produces more parts and reduces process time

PROPlus / PRO Series Automated Dispensing System



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

Items/Models	SPECIFICATIONS			
	PRO3 / PRO3L	PRO4 / PRO4L	PROPlus3 / PROPlus3L	PROPlus4 / PROPlus4L
Part #	7362911	7360860	7363536	7363539
Part # Europe*	7363829	7361353	7363650	7363653
Part # with Laser	7362913(A) / 7362914(B)	7360861(A) / 7360862(B)	7363538(A) / 7363537(B)	7363541(A) / 7363540(B)
Part # Europe* with Laser	7363830(A) / 7363831(B)	7361354(A) / 7361355(B)	7363652(A) / 7363651(B)	7363654(A) / 7363655(B)
Number of Axes	← 3 →			
Maximum Working Area (X / Y / Z)	250 / 250 / 100 mm (10 / 10 / 4") / 250 / 220 / 100 mm (10 / 9 / 4")	350 / 350 / 100 mm (14 / 14 / 4") / 350 / 320 / 100 mm (14 / 13 / 4")	250 / 250 / 100 mm (10 / 10 / 4") / 250 / 220 / 100 mm (10 / 9 / 4")	350 / 350 / 100 mm (14 / 14 / 4") / 350 / 320 / 100 mm (14 / 13 / 4")
Workpiece Payload	10.0 kg (22.0 lb)	10.0 kg (22.0 lb)	25.0 kg (55.1 lb)	25.0 kg (55.1 lb)
Tool Payload	3.5 kg (7.7 lb) / 1.5 kg (3.3 lb)	3.5 kg (7.7 lb) / 1.5 kg (3.3 lb)	6.0 kg (13.2 lb)	6.0 kg (13.2 lb)
Weight	45.0 kg (99.2 lb) / 46.5 kg (102.5 lb)	57.5 kg (126.8 lb) / 59 kg (130.1 lb)	50.5 kg (111.3 lb) / 52 kg (114.6 lb)	63.5 kg (140.0 lb) / 65 kg (143.3 lb)
Dimensions	720w x 690h x 590d mm (28w x 27h x 22d")	820w x 690h x 690d mm (32w x 27h x 27d")	720w x 690h x 590d mm (28w x 27h x 22d")	820w x 690h x 690d mm (32w x 27h x 27d")
Dimensions with Laser	793w x 690h x 590d mm (31w x 27h x 22d")	833w x 690h x 690d mm (33w x 27h x 27d")	793w x 690h x 590d mm (31w x 27h x 22d")	833w x 690h x 690d mm (33w x 27h x 27d")
Maximum Speed (X / Y / Z)	500 / 250 mm/s (20 / 10"/s)	500 / 250 mm/s (20 / 10"/s)	800 / 250 mm/s (31 / 10"/s)	800 / 250 mm/s (31 / 10"/s)
Drive System	5-phase micro stepping motor	5-phase micro stepping motor	Servomotor	Servomotor
Memory Capacity	← PC storage →			
General Purpose I/O	← 8 inputs / 8 outputs (16 / 16 optional) →			
Input AC (to power supply)	← 100–240 VAC, $\pm 10\%$, 50/60Hz, 20 Amp maximum, 380 W →			
Repeatability**	± 0.004 mm / axis	± 0.004 mm / axis	± 0.003 mm / axis	± 0.003 mm / axis
Tip Detection System	← Included →			
Vision	← CCD smart camera →			
DispenseMotion Software	← Included →			
Laser Height Detection	← Optional / Included (PROL/PROPlusL) →			
Approvals / Warranty	CE, RoHS, WEEE, China RoHS / 1 year, limited			

*Complies with European safety regulations. **Repeatability results may vary depending on method of measurement.



www.nordsonefd.com/PROVideo

Automated Dispensing Systems

The EV Series offers simple vision for precise fluid application in an automated solution. Along with specialized DispenseMotion software and a pencil camera, the system is quick to set up and easy to program. Platforms range from 150 x 200 mm to 570 x 500 mm, making them an ideal solution for batching or critical dispensing applications.

Features and Benefits

- Simple camera and dispensing 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
- Faster cycle and batch times
- Easy integration into any manufacturing operation

EV Series Automated Dispensing Systems



EV Series pencil camera vision makes programming patterns easier.

Item/Model	SPECIFICATIONS				
	E2V	E3V	E4V	E5V	E6V
Part #	7360856	7360857	7360858	7360859	7362103
Part # Europe*	7361349	7361350	7361351	7361352	7362104
Number of Axes	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	5.0 kg (11.0 lb)	10.0 kg (22.0 lb)	10.0 kg (22.0 lb)	10.0 kg (22.0 lb)	10.0 kg (22.0 lb)
Tool Payload	1.5 kg (3.3 lb)	3.0 kg (6.6 lb)	3.0 kg (6.6 lb)	3.0 kg (6.6 lb)	3.0 kg (6.6 lb)
Weight	29.0 kg (63.9 lb)	47.5 kg (104.7 lb)	52.5 kg (115.7 lb)	55.0 kg (121.3 lb)	58.0 kg (127.9 lb)
Dimensions	481w x 510h x 432d mm (19w x 20h x 17d")	596w x 644h x 543d mm (23w x 25h x 21d")	696w x 644h x 638d mm (27w x 25h x 25d")	796w x 814h x 718d mm (31w x 32h x 28d")	913w x 812h x 718d mm (36w x 32h x 28d")
Maximum Speed	500 / 250 mm/s (20 / 10"/s)	800 / 320 mm/s (31 / 13"/s)	800 / 320 mm/s (31 / 13"/s)	800 / 320 mm/s (31 / 13"/s)	800 / 320 mm/s (31 / 13"/s)
Drive System	3-phase micro stepping motor				
Memory Capacity	PC storage				
General Purpose I/O	8 inputs / 8 outputs (16 / 16 optional)				
Input AC (to power supply)	100–240 VAC, ±10%, 50/60Hz, 20 Amp maximum, 230 W	100–240 VAC, ±10%, 50/60Hz, 20 Amp maximum, 350 W	100–240 VAC, ±10%, 50/60Hz, 20 Amp maximum, 350 W	100–240 VAC, ±10%, 50/60Hz, 20 Amp maximum, 350 W	100–240 VAC, ±10%, 50/60Hz, 20 Amp maximum, 350 W
Repeatability**	±0.008 mm / axis				
Vision	Pencil camera				
DispenseMotion Software	Included				
Tip Detection	Tip detector (optional)				
Height Detection	Mechanical (optional)				
Approvals / Warranty	CE, RoHS, WEEE, China RoHS / 1 year, limited				

*Complies with European safety regulations. **Repeatability results may vary depending on method of measurement.



www.nordsonefd.com/EVSeriesVideo

Automated Dispensing Systems

The E Series offers precise fluid application in an automated solution. Along with specialized TeachMotion™ software, the E Series relies on an easy-to-use Teach Pendant for programming. Platforms range from 200 x 200 mm to 620 x 500 mm, making them ideal for batching or critical dispensing.

Features and Benefits

- Simplified setup and programming via Teach Pendant or file importation
- True, three-dimensional motion control
- Rugged, reliable construction and small footprint
- Wide range of work envelopes
- Faster cycle and batch times
- Easy integration into any manufacturing operation

E Series Automated Dispensing Systems



E Series makes automation easy with precise performance and fast programming.

Item/Model	SPECIFICATIONS				
	E2	E3	E4	E5	E6
Part #	7360852	7360853	7360854	7360855	7362101
Part # Europe*	7361345	7361346	7361347	7361348	7362102
Number of Axes	3				
Maximum Working Area (X / Y / Z)	200 / 200 / 50 mm (8 / 8 / 2")	300 / 300 / 100 mm (12 / 12 / 4")	400 / 400 / 100 mm (16 / 16 / 4")	500 / 500 / 150 mm (20 / 20 / 6")	620 / 500 / 150 mm (24 / 20 / 6")
Workpiece Payload	5.0 kg (11.0 lb)	10.0 kg (22.0 lb)	10.0 kg (22.0 lb)	10.0 kg (22.0 lb)	10.0 kg (22.0 lb)
Tool Payload	3.0 kg (6.6 lb)	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)	5.0 kg (11.0 lb)
Weight	21.0 kg (46.3 lb)	39.5 kg (87.1 lb)	44.5 kg (98.1 lb)	47.0 kg (103.6 lb)	50.0 kg (110.2 lb)
Dimensions	370w x 510h x 414d mm (15w x 20h x 16d")	490w x 644h x 519d mm (19w x 25h x 20d")	590w x 644h x 617d mm (23w x 25h x 24d")	690w x 814h x 718d mm (27w x 32h x 28d")	808w x 812h x 718d mm (32w x 32h x 28d")
Maximum Speed	500 / 250 mm/s (20 / 10"/s)	800 / 320 mm/s (31 / 13"/s)	800 / 320 mm/s (31 / 13"/s)	500 / 320 mm/s (20 / 13"/s)	500 / 320 mm/s (20 / 13"/s)
Drive System	3-phase micro stepping motor				
Memory Capacity	1–99 programs, 1–9,999 points per program				
General Purpose I/O	8 inputs / 8 outputs				
Input AC (to power supply)	100–240 VAC, ±10%, 50/60Hz, 20 Amp maximum, 200 W	100–240 VAC, ±10%, 50/60Hz, 20 Amp maximum, 320 W	100–240 VAC, ±10%, 50/60Hz, 20 Amp maximum, 320 W	100–240 VAC, ±10%, 50/60Hz, 20 Amp maximum, 320 W	100–240 VAC, ±10%, 50/60Hz, 20 Amp maximum, 320 W
Repeatability**	±0.008 mm / axis				
Teach Pendant	Included				
Tip Detection	Tip detector (optional)				
Height Detection	Mechanical (optional)				
Approvals / Warranty	CE, RoHS, WEEE, China RoHS / 1 year, limited				

*Complies with European safety regulations. **Repeatability results may vary depending on method of measurement.

Download CAD Models:
www.nordsonefd.com/CAD



Automated Dispensing Systems

The 4-axis RV Series offers easy setup and programming with specialized vision-guided DispenseMotion software and an integrated CCD smart vision camera to deliver market-leading repeatability and accuracy in fluid placement. Simultaneous X and Y movement during R rotation provides true point of programming for dispensing at any angle along the 360° rotation plane.

In addition to its standard fixed-mount CCD camera, the RV Series has an optional rotating-mount camera that mounts onto the R-axis of the robot. This allows multiple substrate viewing orientations at 0° or 90° angles. It also allows multi-focus on multiple substrate heights.

Features and Benefits

- Simplified setup and programming with EFD's advanced vision-guided DispenseMotion Software
- On-screen preview of the dispensing path facilitates programming
- Market-leading dimensional positioning accuracy and deposit placement repeatability with powerful CCD camera
- Faster cycle and batch times with best-in-class $\pm 8 \mu\text{m}$ repeatability
- 360° rotation for ID and OD dispensing

RV Series Automated Dispensing Systems



RV Series CCD smart vision camera verifies workpiece presence and orientation.

Item/Model	SPECIFICATIONS		
	R3V	R4V	R6V
Part # (w/ fixed-mount camera)	7363556	7363557	7363558
Part # Europe* (w/ fixed-mount camera)	7361913	7361915	7361917
Part # (w/ rotating-mount camera)	7363673 (base robot, no vision) ← 7364066 (vision kit) →	7363675 (base robot, no vision) ← 7364066 (vision kit) →	7363677 (base robot, no vision) ← 7364066 (vision kit) →
Part # Europe* (w/ rotating-mount camera)	7363674 (base robot, no vision) ← 7364067 (vision kit) / 7727235 (keyboard and mouse) →	7363676 (base robot, no vision) ← 7364067 (vision kit) / 7727235 (keyboard and mouse) →	7363678 (base robot, no vision) ← 7364067 (vision kit) / 7727235 (keyboard and mouse) →
Number of Axes	4		
Maximum Working Area (X / Y / Z / R°)	300 / 300 / 150 mm / $\pm 999^\circ$ (11.8 / 11.8 / 5.9" / $\pm 999^\circ$)	400 / 400 / 150 mm / $\pm 999^\circ$ (15.7 / 15.7 / 5.9" / $\pm 999^\circ$)	620 x 500 x 150 mm / $\pm 999^\circ$ (24 / 19.7 / 5.9" / $\pm 999^\circ$)
Workpiece Payload	10.0 kg (22.0 lb)		
Tool Payload	3.0 kg (6.6 lb)		
Weight	50.0 kg (110 lb)	55.0 kg (121 lb)	61.0 kg (135 lb)
Dimensions	645w x 914h x 552d mm (25w x 36h x 22d")	745w x 914h x 652d mm (29w x 36h x 26d")	965w x 914h x 752d mm (38w x 36h x 30d")
Maximum Speed (XY / Z)	800 / 320 mm/s (31 / 13"/s)		
Maximum Speed (R)	720 deg/s		
Drive System	3-phase micro stepping motor		
Memory Capacity	PC storage		
General Purpose I/O	8 inputs / 8 outputs (16 / 16 optional)		
Input AC (to power supply)	100–240 VAC, $\pm 10\%$, 50/60Hz, 20 Amp maximum, 320W		
Repeatability**	$\pm 0.008 \text{ mm}$ / axis (XY / Z) / $\pm 0.005 (R^\circ)$		
Vision	CCD smart camera (fixed or rotating mount)		
Tip Detection	Optional		
DispenseMotion Software	Included		
Approvals / Warranty	CE, RoHS, WEEE, China RoHS / 1 year, limited		

*Complies with European safety regulations. **Repeatability results may vary depending on method of measurement.



www.nordsonefd.com/RVSeriesVideo

Automated Dispensing Systems

The 4-axis R Series offers easy setup and programming with specialized TeachMotion Teach Pendant software designed to deliver market-leading repeatability and accuracy in fluid placement. Simultaneous X and Y movement during R rotation provides true point programming for dispensing at any angle along the 360° rotation plane.

Features and Benefits

- Built-in tip recalibration for easy tip change alignment
- Easy USB file upload and download
- 360° rotation for ID and OD dispensing
- Quicker setup and programming
- Faster cycle and batch times with best-in-class $\pm 8 \mu\text{m}$ repeatability
- New manufacturing opportunities

R Series Automated Dispensing Systems



R Series makes 4-axis dispensing automation easy.

Item/Model	SPECIFICATIONS		
	R3	R4	R6
Part #	7361912	7361914	7361916
Part # Europe*	7361913	7361915	7361917
Number of Axes	4		
Maximum Working Area (X / Y / Z / R°)	300 / 300 / 150 mm / $\pm 999^\circ$ (12 / 12 / 6" / $\pm 999^\circ$)	400 / 400 / 150 mm / $\pm 999^\circ$ (16 / 16 / 6" / $\pm 999^\circ$)	620 x 500 x 150 mm / $\pm 999^\circ$ (24 / 20 / 6" / $\pm 999^\circ$)
Workpiece Payload	10.0 kg (22.0 lb)		
Tool Payload	3.0 kg (6.6 lb)		
Weight	41.0 kg (90.4 lb)	46.0 kg (101.4 lb)	52.0 kg (114.7 lb)
Dimensions	490w x 901h x 519d mm (19w x 35h x 20d")	590w x 901h x 619d mm (23w x 35h x 24d")	810w x 901h x 616d mm (32w x 35h x 24d")
Maximum Speed (XY / Z)	800 / 320 mm/s (31 / 13"/s)		
Maximum Speed (R°)	720 deg/s		
Drive System	3-phase micro stepping motor		
Memory Capacity	1–99 programs, 1–9,999 points per program		
General Purpose I/O	8 inputs / 8 outputs		
Input AC (to power supply)	100–240 VAC, $\pm 10\%$, 50/60Hz, 20 Amp maximum, 320 W		
Repeatability**	$\pm 0.008 \text{ mm / axis (XY / Z) / } \pm 0.005 \text{ (R}^\circ\text{)}$		
Teach Pendant	Included		
Tip Detection	Tip aligner (optional)		
Approvals / Warranty	CE, RoHS, WEEE, China RoHS / 1 year, limited		

*Complies with European safety regulations. **Repeatability results may vary depending on method of measurement.

Download CAD Models:
www.nordsonefd.com/CAD



www.nordsonefd.com/RSeriesVideo

Automated Dispensing Systems

Nordson EFD's vision-guided GV Series automated dispensing gantry systems deliver easy automation for precise fluid applications. Working envelopes range from 400 mm to 800 mm, making them an ideal solution for precise fluid dispensing onto substrates requiring large work envelopes while not sacrificing repeatability. The GV Series can work as a standalone system or as a key part of an automated solution and is easily integrated into rotary tables and conveyor-fed assembly lines.

Features and Benefits

- Work envelopes as large as 800 mm
- Simplified setup and programming with EFD's advanced vision-guided DispenseMotion software
- Unlimited workpiece payload provides full range of dispensing application opportunities
- Ideal for conveyor-fed automation
- Seamless integration into any manufacturing operation

GV Series Automated Dispensing System



The GV Series automated dispensing system has an unlimited workpiece payload.

Items/Models	SPECIFICATIONS	
	G4V	G8V
Part # (100 mm post)	7363644	7363647
Part # (150 mm post)	7363645	7363648
Part # (250 mm post)	7363646	n/a
Number of Axes	← 3 →	
Maximum Working Area (X / Y / Z)	400 / 400 / 100 mm (16 / 16 / 4")	800 / 800 / 100 mm (31 / 31 / 4")
Tool Payload	3.0 kg (6.6 lb)	8.0 kg (17.6 lb)
Weight	63.5 kg (140.0 lb)	181.5 kg (400.1 lb)
Dimensions	833 _W x 382 _H x 730 _D mm (33 _W x 15 _H x 29 _D ")	1,489 _W x 534 _H x 1,160 _D mm (59 _W x 21 _H x 46 _D ")
Maximum Speed (XY / Z)	500 / 320 mm/s (20 / 13"/s)	800 / 320 mm/s (31 / 13"/s)
Drive System	5-phase micro-stepping motor	XY axis: Servo motor Z axis: 5-phase micro-stepping motor
Memory Capacity	← PC storage →	
General Purpose I/O	← 8 inputs / 8 outputs (16 / 16 optional) →	
Input AC (to power supply)	100–240 VAC, ±10%, 50/60Hz, 20 Amp maximum, 420 W	220 VAC, ±10%, 50/60 Hz, 10 Amp maximum, 420 W
Repeatability*	±0.02 mm / axis	±0.1 mm / axis
Vision	Pencil camera	CCD smart camera
DispenseMotion Software	← Included →	
Tip Detection	← Tip detector (optional) →	
Height Detection	← Mechanical (optional) →	
Approvals / Warranty	CE, RoHS, WEEE, China RoHS / 1 year, limited	

*Repeatability results may vary depending on method of measurement.

Download CAD Models:
www.nordsonefd.com/CAD



www.nordsonefd.com/GVSeriesVideo

Automated Dispensing Systems

Nordson EFD guarded safety enclosures integrate seamlessly with our complete line of automated dispensing systems. Featuring external dispensing controls, a safety light curtain, and an internal electrical control box and wireways for faster, safer setup, these CE-compliant enclosures also fully comply with EU Machinery Directive 2006/42/EC.

Features and Benefits

- Light curtain meets safety requirements while providing easy access to the dispensing system when necessary
- Complete control of the system from the outside of the enclosure, including Start, Emergency Stop, and Run/Teach
- Solid construction resists bumps and jolts to maintain dispensing accuracy
- High-quality enclosure protects operators from operational hazards
- Protects the dispensing system from environmental conditions
- Compliant with EU Machinery Directive 2006/42/EC, essential for all production requirements



Complete Guarded System

7362738 Small Safety Enclosure

Compatible robot models E2, E2V, E3, E3V, R3, R3V, PRO3, PRO3L, PROPlus3, PROPlus3L.

7362766 Small Safety Enclosure, Europe

Compatible robot models E2, E2V, E3, E3V, R3, R3V, PRO3, PRO3L, PROPlus3, PROPlus3L.

7362739 Large Safety Enclosure

Compatible robot models E4, E4V, E5, E5V, R4, R4V, PRO4, PRO4L, PROPlus4, PROPlus4L.

7362767 Large Safety Enclosure, Europe

Compatible robot models E4, E4V, E5, E5V, R4, R4V, PRO4, PRO4L, PROPlus4, PROPlus4L.

"Automated tabletop dispensing has significantly increased productivity by removing the variability from our process. It has also reduced our rejects by up to 90%."

— Electroynamics Inc.






Automated Dispensing Accessories



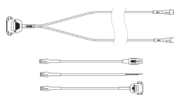







MOUNTING BRACKETS								
Bracket	Part #	Recommended Use	PROPlus / PRO	EV	E	RV	R	GV
	7362438	PROPlus / PRO Series base for all valve mounting brackets except P/Ns 7360611 and 7360612	✓	—	—	—	—	—
	7361668	R / RV Series base for all valve mounting brackets except P/N 7360612	—	—	—	✓	✓	—
	7360610	EFD syringe barrels, all sizes	✓	✓	✓	✓	✓	✓
	7028271	EFD cartridges, small bracket 2.5 oz (74 ml), 6 oz (177 ml), 12 oz (355 ml)	✓	✓	✓	✓	✓	✓
	7028272	EFD cartridges, large bracket 20 oz (591 ml), 32 oz (946 ml)	✓	✓	✓	✓	✓	✓
	7361815	PICO <i>Pulse</i> valves	✓	✓	✓	✓	✓	✓
	7360612	PICO valves (excluding PICO <i>Pulse</i> valves)	✓	—	—	—	—	—
	7360611	PICO valves (excluding PICO <i>Pulse</i> valves)	—	✓	✓	✓	✓	✓
	7362177	Liquidyn P-Jet and P-Dot Series valves	✓	✓	✓	✓	✓	✓
	7364423	797PCP Series pumps	✓	—	—	—	—	✓
	7364529	797PCP-2K Series pumps	✓	—	—	—	—	✓
	7360613	Universal for valves with mounting holes (752, 725, 741, 736, 781, 787, and 782 Series)	✓	✓	✓	✓	✓	✓
	7361758	Universal for valves without mounting holes (702, 754, 794, and 784S Series)	✓	✓	✓	✓	✓	✓

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Automated Dispensing Accessories

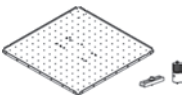
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MOUNTING BRACKETS									
Bracket	Part #	Recommended Use	PROPlus / PRO	EV	E	RV	R	GV	
	7361114	xQR41 and 745 Series valves	✓	✓	✓	✓	✓	✓	
	7361757	7860C Radial Spinner valves	✓	✓	✓	—	—	✓	
	7360952	Ultimus IV fluid dispenser	—	—	✓	—	✓	—	
	7360796	2K Equalizer	—	—	✓	—	—	—	
	7360609	EV Series pencil camera	—	✓	—	—	—	—	

CABLES									
Cable	Part #	Description	PROPlus / PRO	EV	E	RV	R	GV	
	7360551	Standard cable to connect dispenser and robot	✓	✓	✓	✓	✓	✓	
	7360761	Single voltage initiate cable for one dispenser or controller	✓	✓	✓	✓	✓	✓	
	7360554	Dual voltage initiate cable for up to two dispensers / controllers	✓	✓	✓	✓	✓	✓	
	7362573	I/O cable for ValveMate 8000 Controller (when all four channels are required)	✓	✓	✓	✓	✓	✓	
	7360558	Dual-connector cable for one or two PICO Touch Controllers	✓	✓	✓	✓	✓	✓	
	7362356	Dual-connector cable for one or two Liquidyn V10 Controllers	✓	✓	✓	✓	✓	✓	
	7362357	Dual-connector cable for one or two Liquidyn V200 Controllers	✓	✓	✓	✓	✓	✓	
	7362373	Single-connector cable for one Liquidyn V200 Controller	✓	✓	✓	✓	✓	✓	
	7015086	DB9 cable for RS-232 connection	—	—	✓	—	✓	—	
	7015475	USB-to-serial converter cable	—	—	✓	—	✓	—	

Automated Dispensing Accessories

FIXTURE PLATES

Fixture Plate	Part #	Description	PROPlus / PRO*	EV	E	RV	R	GV
	7028276	200 mm fixture plate	—	✓	✓	—	—	—
	7028277	300 mm fixture plate	—	✓	✓	—	—	—
	7028278	400 mm fixture plate	—	✓	✓	—	—	—
	7028279	500 mm fixture plate	—	✓	✓	—	—	—
	7362547	300 mm fixture plate	—	—	—	✓	✓	—
	7362548	400 mm fixture plate	—	—	—	✓	✓	—
	7362549	600 mm fixture plate	—	—	—	✓	✓	—

All plates include four edge levelers and four leveling mounts.




*Fixture plates shipped pre-installed on PRO Series models; replacement not required.

VISION KITS




Vision Kit	Part #	Description	PROPlus / PRO	EV	E	RV	R	GV
	7360864	Vision kit for CCD camera with light box (includes camera, PC, monitor, keyboard, and mouse)	✓	—	—	—	—	—
	7361595	Vision kit for CCD camera with light box, Europe (includes camera, PC, and monitor) Note: Order keyboard and mouse separately.	✓	—	—	—	—	—
	7364830	Vision kit for CCD camera (includes camera, PC, monitor, keyboard, and mouse)	—	—	—	—	—	G8V only
	7364831	Vision kit for CCD camera, Europe (includes camera, PC, and monitor) Note: Order keyboard and mouse separately.	—	—	—	—	—	G8V only
	7360863	Vision kit for pencil camera (includes camera, PC, monitor, keyboard, and mouse)	—	✓	—	—	—	G4V only
	7361528	Vision kit for pencil camera, Europe (includes camera, PC, and monitor) Note: Order keyboard and mouse separately.	—	✓	—	—	—	G4V only
	7363461	Vision kit for fixed-mount camera (includes camera, PC, monitor, keyboard, and mouse)	—	—	—	✓	—	—
	7363672	Vision kit for fixed-mount camera, Europe (includes camera, PC, and monitor) Note: Order keyboard and mouse separately.	—	—	—	✓	—	—
	7364066	Vision kit for rotating-mount camera (includes camera, PC, monitor, keyboard, and mouse)	—	—	—	✓	—	—
	7364067	Vision kit for rotating-mount camera, Europe (includes camera, PC, and monitor) Note: Order keyboard and mouse separately.	—	—	—	✓	—	—
	7727235	Wireless keyboard and mouse	✓	✓	✓	✓	✓	✓
	7360867	Lens accessory kit for high-precision CCD cameras (allows different focal lengths and depths of field)	✓	—	—	—	—	G8V only

Automated Dispensing Accessories




HEIGHT DETECTION KITS

Kit	Part #	Recommended Use	PROPlus / PRO	EV	E	RV	R	GV
	7361239	Laser A for optical height sensing of reflective or transparent surfaces	✓	—	—	—	—	—
	7361240	Laser B for optical height sensing of most surfaces	✓	—	—	—	—	—
	7361667	Touch-type mechanical height sensor	—	✓	✓	—	—	✓

TIP DETECTION / ALIGNMENT KITS

Kit	Part #	Recommended Use	PROPlus / PRO	EV	E	RV	R	GV
	7361535	Tip detector for touch sensing of the tip-to-workpiece gap (tip must contact the sensor)	✓	—	—	—	—	—
	7360893	Tip detector for touch sensing of the tip-to-workpiece gap (tip must contact the sensor)	—	✓	—	✓	—	✓
	7360892	Tip aligner for optical sensing of the tip-to-workpiece gap (no tip contact required)	—	—	✓	—	—	—
	7362353	Tip aligner for optical sensing of the tip-to-workpiece gap (no tip contact required)	—	—	—	✓	✓	—
	7363940	Allows the tip detector / aligner to be mounted in the center of the robot fixture plate	✓	✓	✓	✓	✓	✓

OTHER ACCESSORIES

Accessory	Part #	Description	PROPlus / PRO	EV	E	RV	R	GV
	7363285	Start / stop accessory box and I/O checker, standard	✓	✓	✓	✓	✓	✓
	7360865	Start / stop accessory box, European Community	✓	✓	✓	✓	✓	✓
	7360866	Input / output expansion, 8 inputs / 8 outputs	✓	✓	✓	✓	✓	✓
	7364017	TC100 Temperature Controller	✓	✓	✓	✓	✓	✓

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