

# Eclipse™ Series (EPC) Pattern Control Systems



*Easy-to-use, advanced pattern control systems deliver flexible performance and precise adhesive placement.*

Eclipse series (EPC) pattern controls deliver application flexibility and precise adhesive placement. They are easy to install and operate and simplify many of the setup tasks often associated with pattern controls. Both the EPC-30 and EPC-15 accommodate random-size cases automatically, and provide real-time pattern adjustment capability. The unique trigger memory enables closer spacing of products, maximizing operational efficiencies and productivity.



## EPC-30

- **Distance-based program** for constant or variable line speeds (300m/min or 984 ft/min); bead placement is  $\pm 1$  millimeter.
- **Autoscaling capability** automatically calculates encoder settings, reducing lengthy setup time.
- **Memory capability** for up to 50 separate patterns for quick, easy changeovers.
- **Controls** up to four independent gun outputs; produces up to 24 beads per output.
- **Stores** up to four consecutive trigger events providing flexibility in trigger location and enabling closer product spacing.
- **PC interface** allows pattern control to be programmed from an industrial PC or notebook, useful for large operations with numerous production lines or multiple facilities.
- **Run-up capability** maintains bead volume during line speed changes.

## EPC-15

- **Time-based program** for constant line speeds (150m/min or 500 ft/min); bead placement is  $\pm 1$  millisecond.
- **Autoscaling capability** automatically calculates line speed for easy setup by product size.
- **Memory capability** for up to 25 separate patterns for quick, easy changeovers.
- **Controls** up to four independent gun outputs; produces up to eight beads per output.
- **Stores** up to four consecutive trigger events providing flexibility in trigger location and enabling closer product spacing.
- **Three trigger input capability** enables timer to control several lines, cost-effectively reducing equipment needs.
- **Easy to read display** can be accessed in five languages: English, French, German, Spanish and Italian.
- **Three remote programmable inputs** allow remote program recall or lockout.

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## Standard Specifications for EPC-30 and EPC-15

Pattern Control System	EPC-30	EPC-15
Max. Line Speed	300 m/min (984 ft/min)	150 m/min (500 ft/min)
Pattern Accuracy (max. line speed) <sup>1</sup>	±1mm (0.1 in.)	±1ms
Max. Beads per Output	24	8
Program Memory	up to 50	up to 25
Independent Gun Outputs	4	4
Independent Trigger Inputs	2	3
Enclosure Rating <sup>2</sup>	IP54	IP54
Approvals	UL, CUL, CE	CE
Input/Output	Remote I/O board	3 programmable inputs
<b>Main Control Unit</b>		
Input Voltage Requirement	18-30 VDC	12-30 VDC
Voltage/Amperage per Output <sup>3</sup>	24 VDC/1.10 A	24 VDC/1.10 A
Run Permissive Input	24 VDC	N/A
<b>Trigger</b>		
Required Supply Voltage/Current	18-30 VDC/150 mA max.	18-30 VDC/150 mA max.
Type	Retro-reflective or diffuse reflective	Retro-reflective or diffuse reflective
Output Type	NPN transistor	NPN transistor
Output Load Current	20 mA	20 mA
Enclosure Rating	IP54	IP54
<b>External Power Supply</b>		
Input Voltage	100-240 VAC (universal)	100-240 VAC (universal)
Input AC Frequency	47-63 Hz	47-63 Hz
Output Voltage	24 VDC	24 VDC
Max. Output Current	2.5 amps	2.5 amps

**Notes:**

1. For most typical packaging applications and proper setup.
2. Based upon the use of watertight conduit fittings (dust protected, splash resistant).
3. Total current rating of all gun actuators (pneumatic solenoid valves or electric gun drivers) should not exceed current rating of system power supply.

**ISO 9000**

QUALITY SYSTEMS

### EPC-30 Line Speed and Run-up Control

<b>Encoder</b>	
Encoder Type	Quadrature
Resolution	500 pulses/revolution
Output	12V differential line driver
Mounting	Metric or U.S. Standard
Enclosure Rating	IP66
Frequency	Max. 100 KHz
<b>I/P Transducer</b>	
Input Current	4-20 mA
Output Air Pressure	13.8-620 kPa (2-90 psi)
Supply Air Pressure	656-1035 kPa (95-150 psi)

### EPC-30 I/O and PC Communications

<b>I/O Board</b>	
Independent Pressure-control Outputs	2
Voltage of Control Outputs/Output Current	0-10 VDC/4-20 mA
Program Recall	1-15 programs
Inputs (Unit Enable and Unit Disable)	2
Outputs (Low Line Speed and Fault/Warning)	2
<b>PC Interface Software</b>	
Operating System Requirements	Windows® 95
PC Connector	Standard serial 9-pin "D" shell connector

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*For more information, talk with your Nordson representative or contact your Nordson regional office.*

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