



# Trilogy™ Electrostatic Spray System

# TRIOLOGY

## Trilogy™ Electrostatic Spray Systems

### Two Atomization Technologies in a Single, High-Performance Electrostatic Gun System

Nordson Trilogy spray systems are designed with coating versatility in mind. Featuring two atomization technologies – air spray and high volume, low pressure (HVLP) – Trilogy systems deliver superior application performance with a variety of substrates, coatings and part profiles.

Trilogy electrostatic spray systems are available in manual or automatic gun models that incorporate the latest in engineering and design materials. As a result, you'll achieve many benefits that decrease the cost of ownership and enhance your bottom line:

- **The highest kV in the industry** – 93 kV – increasing transfer efficiency, reducing material costs and improving part finish.
- **Tough and durable gun bodies** minimize maintenance costs and downtime.
- **Well balanced, handle-forward gun design** ensures operator comfort for better productivity.



### Maximum Transfer Efficiency and Control

Trilogy guns are the highest kV guns available in the industry today. At 93 kV, they provide superior transfer efficiency and paint wrap. With the strongest electrostatic load lines, voltage remains consistently high – even as gun-to-part distances change – ensuring high efficiency coverage. In addition, Automatic Current Limiting lets you customize the charge to coat specific part profiles, improving coverage across the part and into contours and recesses.

With a Trilogy system, you also achieve extreme fan pattern control from four to 20 inches. Equipped with Nordson air caps, Trilogy guns

produce fine particle atomization at lower pressures for improved paint-to-part transfer with minimal overspray. The guns also feature large diameter air ports for more air energy at the tip, which allows you to atomize even the most viscous coatings. With fast, easy air adjustments that can accommodate varying part configurations, you'll realize greater fan pattern control and consistent coverage. The increased transfer efficiency and fan pattern control saves you money on coatings and rejects.



### Gun Models Designed for Durability

Trilogy gun bodies are constructed of tough, polyamide materials for long life under punishing manufacturing environments. The advanced bellows packing design allows for consistent, trouble-free operation and fast routine maintenance. The cartridges prevent fluid leakage, minimizing the risk of carbon tracking and loss of electrostatic power.

In addition, single-piece multipliers are positioned inside the gun and contain no fragile moving parts for longer life. The use of durable materials for air caps and fluid tips provides exceptional field strength for long life.



### Ergonomic Design for Painter Comfort and Productivity

The Trilogy gun design provides both balance and comfort to minimize operator fatigue and maintain consistent coverage from part to part. The well-balanced, handle-forward design equally distributes gun weight over the hand for comfortable handling and maneuverability. Easy access to precise controls at the painter's fingertips allows the operator to make fast, easy adjustments, all while maintaining production pace and delivering quality finishes.

### IPS-20 Power Supply

The new IPS-20 Automatic Electrostatic System Controller utilizes proven electrostatic technology for the control, DC power and monitoring functions of a single automatic liquid spray gun. It is retrofittable to existing Nordson liquid electrostatic IPS type spray systems, and can be set up with an external PLC to be used with multiple spray guns.

### Trilogy System Features and Benefits

- **Wide range of aircaps and fluid tips** for consistent and repeatable atomization quality in various applications.
- **The highest kV in the industry** – 93 kV – reduces material waste costs.
- **Handle forward design** provides better balance and improved operator comfort.
- **Automatic current limiting** allows for greater control of charging which translates to better part coverage whatever the part profile
- **Quick-flush fluid passages** for ease of cleaning and maintenance.
- **Rugged gun bodies** minimize maintenance costs and downtime.
- **More than 50 fluid tip and air cap combinations** for even greater flexibility.
- **FM and CE approvals** for electrostatic safety.



### Technical Specifications

#### Trilogy Guns

	Automatic	Manual
Weight:		
Solvent (g)	1469	877
Waterborne (g)	1143	711
Max air pressure	100 psi (7 bar)	100 psi (7 bar)
Max fluid pressure airspray	100 psi (7 bar)	100 psi (7 bar)
Max kV	93	93

#### IPS-20 Power Supply

Enclosure: Meets IP54 requirements  
 Electrical:  
 Input: 85-250 Vac at 50-60 Hz, 40 VA  
 Output: 7-21 Vdc  
 Short circuit output current: 500 mA  
 ISA S82.1 Pollution Degree 2  
 Over Voltage Category 2

#### Gun Part Numbers

1090428	Trilogy Automatic Gun
1090697	Trilogy Manual Gun
1090981	Trilogy Automatic Gun for Waterborne Applications
1091981	Trilogy Manual Gun for Waterborne Applications



For more information on Trilogy™ electrostatic spray systems, talk with your Nordson representative or visit our website at [www.nordson.com/liquid](http://www.nordson.com/liquid)

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

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