

Nordson® Horizontal Gun Mover



Versatile gun mover for powder coating applications where controlled movement of multiple guns is required.

Many coating applications require the movement of spray guns to improve the consistency of the finished coating, as well as increasing coverage in some hard-to-coat areas. The Nordson horizontal gun mover is designed for positioning guns at an optimum distance from conveyed parts for improved finish consistency and better coverage in a wide range of powder coating applications.

Guns are mounted onto a platform that can be moved horizontally using a pneumatic cylinder and PLC for infinite positioning. Depending on the specific gun positioner model, maximum travel distances achievable are 24-, 30- or 36-inches (610-, 762-, or 915 mm).

The use of a servo-pneumatic valve mechanism ensures smooth motion and eliminates wobbling common to solenoid-driven systems. Spray gun positioning accuracy of $\pm 1/8$ in (3 mm) is achieved through integration with PLC controls.



The servo-pneumatic valve eliminates wobble at the point of spray for more precise spray application.



Nordson horizontal gun mover shown here with fixed gun stand

The unit also incorporates a built-in anti-tipping feature composed of camfollowers that prevent the gun oscillator from tipping forward during use to eliminate potential operational failure.

To meet varying production requirements, the Nordson horizontal gun mover is available as automatic, PLC-driven units and as a fully manual unit with push-pull travel and manual lock.

Features and Benefits

- Servo-pneumatic valve design controls speed and stroke of cylinder to eliminate wobble and provides smoother start/stop action.
- Variable travel speed and cycle time accommodate different production situations.
- Automatic and manual versions available for operating flexibility.
- Use of built-in camfollowers prevents tipping forward during use to eliminate potential operational failure.

Specifications

Dimensions

(up to 30-inch stroke)

Length	62 in (1575 mm)
Width	28 in (711 mm)
Height	12 in (305 mm)

Load Bearing Capability

Nordson oscillators and 12 powder spray guns and supports (2000 lbs)

Nordson fixed gun stand with 12 powder spray guns and supports (400 lbs)

Overall Range of Horizontal Travel

24 in (610 mm)
30 in (762 mm)
36 in (915 mm)

Stopping Accuracy

Within 1/8 in (3 mm)

Travel Speed/Cycle Time

(Speed can be varied through PLC programming)

Average unit speed:
8 in/sec

Average travel time to 24-in length:
3 sec

Power Supply

Standard PLC 24V DC signal from booth control cabinet

Air Supply Controls

Standard duty regulator with 0-100 Psig pressure gauge

80 Psig (minimum) plant air to servo valve and cylinder

Available Configurations

Automatic

PLC-driven unit with 24-in travel
PLC-driven unit with 30-in travel
PLC-driven unit with 36-in travel

Manual

Fully manual unit with push-pull travel and manual lock for 24-, 30- and 36-in travel

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

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