

Nordson Oscillator



Combines high load capacity, energy efficiency, extended life, and improved productivity in automated powder coating applications.

The Nordson oscillator for automated powder coating operations is a 450 mm (18 in) stroke oscillator that covers a broad range of powder coating applications.

It provides a payload capacity of 80 kg (176 lbs) and a maximum stroke speed of 40 cycles per minute. These two features combined translate into 16 gun capacity and higher line speeds. As a result, manufacturers benefit from higher performance and maximum productivity on their powder coating line.

Simple and unique design for extended life and energy efficiency

Incorporating a simplified design, the Nordson oscillator features a pneumatic cylinder and accumulator counter-balance that results in energy efficiency, low wear, and extended life of all moving parts. The counter-balance results in no drifting of the machine when stopped. The pneumatic cylinder provides air cushioning for the gear box and crank arm resulting in less wear and longer life. This unique design from Nordson translates into less load on the motor — allowing it to run more efficiently and resulting in lower operating costs.

Easy set-up and operation

The Nordson oscillator is available with integrated variable speed drive that can be machine mounted or remotely located in the main system control panel for easy control and adjustment of oscillator stroke speed. Incorporating a plug-and-play design, the Nordson oscillator requires simple connections for quick and easy installation and start-up. It's streamlined gun bar and clamp design allow for easier set-up and operation, as well as an integrated overall design.

The Nordson oscillator can be used with Nordson's In/Out positioner and all of Nordson's spray booth systems, including but not limited to, the ColorMax® E, ColorMax3, Excel® 2000, and Excel 3000 systems.



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Technical specification	
Operating specifications	
Gun speed velocity range	Minimum: 9 cycles per minute (up and down) @ 20 Hz Maximum: 40 cycles per minute (up and down) @ 88 Hz
Stroke center line from base	1920 mm (75.6 in.) (Without in/out positioner)
Stroke length adjustment	100--450 mm (4--18 in.)
Maximum payload	80 kg (176 lb) @ 610 mm (24 in.) from gun mounting flange
Ambient operating temperature range	5--50 _C (41--122 _F)
Dimensions:	With VFD: 2667.7 mm H x 843.3 mm W x 737.5 mm D (105 in. H x 33.2 in. W x 28 in. D) Without VFD: 2667.7 mm H x 703 mm W x 737.5 mm D (105 in. H x 27.6 in. W x 28 in. D)
Recommended gear reducer oil	Mineral oil with an EP additive (DIN51517, Type CLP, ISO viscosity, Grade EP220 (AGMA 5EP)
Compressed air requirements	
Supply pressure	Minimum: 5.8 bar (85 psi) Maximum: 10.3 bar (150 psi)
Air consumption	Negligible

Features and benefits

- **Simple design** for easy operation and maintenance
- **16-gun capacity** is ideal for heavy payloads
- **450 mm (18") maximum stroke** covers a complete range of application requirements
- **Pneumatic counter-balance mechanism** provides energy efficiency and extended life of all moving parts
- **On-board or remote VFD** provides easy speed adjustment
- **Plug-and-play connections** for easy installation and start-up



Why choose Nordson

In highly competitive manufacturing markets, productivity is vital and performance is essential. That's why we apply both to everything we do, whether it's our products, expertise or outstanding customer service. We'll always be there to help maintain the new standards you've set, with expert service and support delivered through our teams working across the globe.

This unique Nordson approach helps you reach new levels of production, while working more accurately, efficiently and competitively than ever. Precisely why manufacturers who demand quality, can rely on Nordson.

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