

NRPS-200 Rotary Powder Sieve



NEW AND IMPROVED

New NRPS-200 rotary powder sieve for high throughput performance and contamination-free powder coating operations.

Rejects in powder coating applications are often the result of mechanical contaminants such as agglomerated powder particles and loose pieces of impact-fused powder, being introduced into the booth. The new Nordson NRPS-200 rotary powder sieve is designed for trouble-free material screening and maximum throughput capacity in powder coating operations to significantly reduce rejects and deliver superior finish quality.



NRPS-200 rotary powder sieve shown with optional air flow control panel

High Screening Capacity

The NRPS-200 sieve provides coaters with high sieving capacity and reliable operation. With a total screen area of 94 square inches and standard screen opening size of 250 micron (60 mesh), the Nordson sieve can effectively handle a minimum of 327 kg/hr of conventional powder (720 lbs/hr).

Proper Screen Tensioning

To optimize sieve performance and prolong service life, the screen cage of the NRPS-200 sieve provides visual indication of proper screen tensioning.

Easy Maintenance

The end cap of the NRPS-200 sieve is designed for easy access and removal for inspection. Powder-coated inside and outside surfaces of the durable, cast aluminum sieve body facilitate cleaning. The screen cage and impeller are easily removed through the end door for inspection and maintenance. During reinstallation, the screen cage securely locks in place to assure proper alignment for optimum performance.

Reliable Operation

Effective air seals protect bearings in the end-door and the motor of the sieve from powder contamination. An optional air flow control panel allows users to set the required airflow to the seals. For reliable bearing and motor protection, regulators and flow meters on the control panel permit adjustment for proper airflow, should the compressed air line pressure change.

NRPS-200 Sieve Enhancements

- **Serviceability** — The motor to rotor, and rotor to end-door interfaces have been re-designed for quicker assembly and disassembly with ease of serviceability in mind.
- **Fewer Parts** — Fewer parts mean fewer parts to replace, which translates into less inventory and most importantly, lower operating cost.
- **External Bearing** — Integral to the new end door is an externally mounted sealed bearing that is located outside of the sieve to eliminate its exposure to in-process powder.
- **Interchangeable** — A retrofit kit with easy to follow instructions is now available, consisting of a new NRPS-200 rotor and end cap assembly, allowing users to quickly convert their existing NRPS-100 sieve.

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Safety Interlock

For maximum operating safety, an electrical safety interlock switch is installed between the sieve housing and end door. This switch interrupts the electrical powder supply to the sieve if the end door is not installed, is improperly installed or removed during operation.

Optional Waste Output Assembly

The NRPS-200 rotary sieve can be used with an optional waste outlet assembly consisting of a five-gallon waste bucket, cover with gasket, clamp and hose. The waste outlet assembly securely collects contaminants and is recommended for use.

Specifications

Dimensions

Height 11.76 in (299 mm)
Length 33.28 in (845 mm)
Width 8.80 in (224 mm)

Capacity

(rated with 250 μm screen opening size [60 mesh] and standard powder)
327 kg/hr (720 lbs/hr) minimum

Air Seal Requirements and Supply Air Pressure

5.5 bar (80 psi) minimum 8.3 bar (120 psi) maximum

Purge air pressure 0.35 bar (5 psi)

Purge airflow 75-90 scfm

Standard* screen sizes available

420 μm (40 mesh)
250 μm (60 mesh)
177 μm (80 mesh)
149 μm (100 mesh)

Motor voltages available

208 – 230 / 460 VAC, 3 ϕ , 60 Hz
208 – 230 / 460 VAC, 3 ϕ , 50 Hz
575 VAC, 3 ϕ , 60 Hz
380 VAC, 3 ϕ , 60 Hz
380 VAC, 3 ϕ , 50 Hz
200/400 VAC, 3 ϕ , 60 Hz
200/400 VAC, 3 ϕ , 50 Hz

*Other sizes are available. For more information, contact your Nordson representative.



The NRPS-200 sieve is easily disassembled for routine cleaning and maintenance.

Features and Benefits

- **Large screen area** delivers high throughput capacity.
- **Visual indicators of proper screen tensioning** for optimum performance and long life.
- **Powder coated inside and outside surfaces** for easy cleaning.
- **Air seals prevent powder contamination of bearings and motor** for maximum durability.
- **Convenient airflow control panel available** for proper air seal operation and bearing protection.
- **Electrical safety interlock** prevents accidental sieve operation while end cap is open.
- **Wide range of screens available** to fit varying operating requirements.

Nordson reserves the right to make design changes to products to improve their function. These changes may occur between printings.

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

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