

ROTARY SIEVE HOPPER MODEL H200

Nordson

A high performance powder sieve integrated within a large capacity powder hopper

The Nordson sieve is designed for use in the recovery of organic and inorganic powder coating materials. The sieve is an integral part of the feed hopper, eliminating troublesome adapters and connectors. Oversize materials which would be detrimental to the finishing process are continuously discharged into the waste bucket. Fine material passes through the screen mesh into the fluid-bed hopper, where it is kept fluidised and fed to the powder guns.

Powder coated mild steel and stainless steel options are available. A large filling hatch provides access for inspecting the screen mesh. For operator safety an electrical interlock switch is provided on the hatch.

The motor, bearings and mechanical parts are located outside the machine, avoiding contact with the powder. The motor drives through twin v-belt pullies. This feature prevents today's "low bake" powders from curing on the drive shaft and causing premature failure. The main drive shaft utilises dual lip seals to keep the powder inside the sieve. Low pressure air is supplied to the seals to cool the drive shaft.

The two sieve screens are mounted on a stainless steel frame which can be easily changed in the event of a screen failure. To change screens, simply isolate the machine electrically, remove the oversize discharge by removing three hand wheels and withdraw the sieve frame.



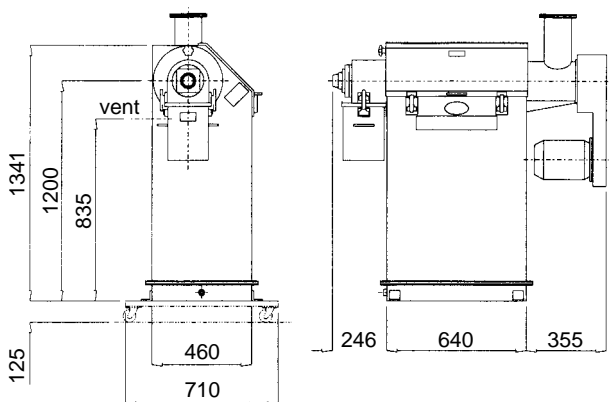
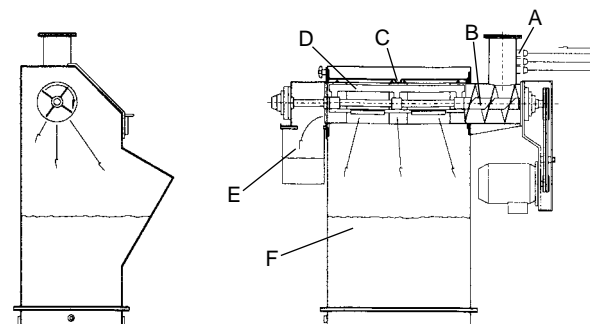
Features & Benefits

- **Dynamic sieving action delivers high capacity in a compact machine.**
- **Continuous discharge of oversize material for maximum performance and quality of the finished product.**
- **Automatic powder blending intimately mixes virgin and recycled powder inside the sieve for consistent results.**
- **Low maintenance provided by a simple screen replacement system and ready access to all mechanical components.**
- **Efficient design provided by the integrated one-piece construction, which makes this a compact, efficient machine.**

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Operation:

Powder which is recovered from the booth or virgin powder from a Nordson Bulk Feeder is pneumatically pumped into the sieve by a Nordson transfer pump. The powder is pumped into the mini-separator (A) and deposited into the feed screw (B). The feed screw acts as a buffer, feeding powder into the sieve at a fixed maximum rate. Once in the sieving section (C) the powder is thrown from the four paddle blades (D) onto and through the screen.



The paddles, which rotate close to the screen, cause the screen mesh to ripple because of the "wind" created. The ripple effectively clears the mesh of any powder particles which may obstruct the mesh or hang on outside the mesh because of electrostatic effects. Undersize powder passes through the mesh into the fluid bed (F). Oversize material travels along the sieve basket and eventually discharges into the waste collection bucket (E).

SPECIFICATIONS	
Powder capacity	200 litres
Weight	135kg
Pneumatics	Fluid bed: 10 s.c.f.m. at 10 PSI Sieve seals: 2 s.c.f.m. at 5 PSI
Electrical requirements	1.5kW, three phase, 380/415 V, 3.6 Amp. Other voltages and frequencies available on request.
Sieve capacity	Dependent upon powder sizes and type, the actual capacity on a particular powder can only be determined by test, however, as a guide, with a 150-micron screen fitted, a white epoxy was sieved at a rate of 600kg per hour with no measurable amount of reject powder.

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

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