



COMPANY DETAILS

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PRODUCT DESCRIPTION

The conventional method of recovering spent abrasives is both labor-intensive and time-consuming, while the fastest and most cost-effective method of cleaning up spent abrasives is by vacuuming.

SMARTBLAST has specially developed the pneumatic vacuum recovery system suitable for blasting operations. The system is engineered for minimum installation, easy operation, simple maintenance, and increased productivity with superior overall performance.

SMARTBLAST pneumatic vacuum recovery system provides 24 hours of cleaning operation and allows for silo to be fitted with a rotary valve (optional) for continuous dumping operation.

STANDARD SAFETY FEATURES

- System automatically shuts off to prevent damage to the vacuum producer when the suction hose is choked up with abrasives and when the electric motor's current rises above a certain pre-determined value.
- Cyclones are equipped with full-tank sensors to shut down the vacuum machine when it is full and prevent over-loading of abrasives to the dust collector. Silo full-tank sensor is available as an option.
- An emergency "STOP" button, when depressed, will automatically cut off all electrical supply.

TECHNICAL SPECIFICATIONS

| Parameter | Specification |
|-----------------------------------|--|
| Model No. | SMB – VR90 |
| Electric Motor | 90 kW, IP55, Class F |
| Process Air Volume | 60 m ³ /min (3600 CMH) |
| Vacuum Pressure | -450 mmHg |
| Transmission | V-belt driven |
| Dust Filtration | Cyclone and cartridge dust collector |
| Filter Cleaning | Reverse jet pulsing (timer) |
| Filter Efficiency | 99.95% High efficiency filter cartridge |
| Filter Cartridge | Dia. 324 mm × 1000 mm length (4 nos) |
| Control Panel | Traditional relay control (IP55 enclosure) |
| Protection | Wrong phase, overload, vacuum relief valve |
| Noise Level | 85 dB @ 5 m radius scale A |
| Power Supply | 380 - 415 V / 50 Hz / 3 phase |
| Power Requirement | 120A - Full load, 50A - No load |
| Air Requirement | 25 cfm, max 10 bar |
| Silo Capacity | 8-ton capacity |
| Silo Dimensions | Ø 1800 mm × 3200 mm (H) |
| Silo Weight | 1.6 ton |
| Machine Dimensions | 2800 × 2200 × 2250 mm (L×W×H) |
| Machine Weight | 3.5 ton |
| Recovery Rate | Up to 10 tons/hr |
| Optional Accessories | |
| Machine to Silo | 5" × 20m WGP suction hose |
| Silo to Suction / Manifold | 4" × 20m WGP suction hose |
| Manifold to Vacuum | 2" × 20m GL ducting hose |

