



## Abrasive Vacuum Recovery Systems

The basic advantages of the **CY-VAC50 Abrasive Vacuum Recovery Systems** are simplicity, reduced dimensions, low energy consumption and incredible speed.

These systems can be used indoors as well as outdoors, which allows sucking flows of more than 8 to 10 tons/h of sand or 5-8 ton/hour of steel abrasive. Detailed capabilities may vary considerably depending on moisture and abrasive type, number of curves and radius, combination of vertical and horizontal position taken by the suction hose, height above sea, operator efficiency, etc..

These recovery systems not only carry abrasive but are also ready to be used whenever needed in excellent working conditions due to its cleaning system.

When all these factors are considered, the recovery system investment is rapidly refunded.

These machines are suitable for abrasive recovery in dried dams of shipyards, inside and outside of large petroleum tanks, blast rooms of large dimensions, bridges, any blast site where cleanup is desirable or mandatory, etc.

The Abrasive vacuum recovery system comprises three main components

- Vacuum Suction and filtration Module
- Storage Hopper
- Hoses and Pick-up tools





## Vacuum and Filtered Module

It is the heart of the equipment and mounted on metal pallet has the following components:

- Roots vacuum pump system with 50 HP motor. Silencer Inlet and Outlet; Maximum Vacuum Valve; and Anti Vibration System.
- Cyclone separator with replaceable wear plate and powder hopper.
- Safety filter. Protects pump abrasive passage, extending its life. It uses two cartridge with with 11 m<sup>2</sup> each - 22 m<sup>2</sup> total filter area.
- Filter cartridges with high vacuum automatic cleaning of filter elements. Uses four cartridges with 11 m<sup>2</sup> each - 44 m<sup>2</sup> total filter area. Automatic cleaning is through pneumatic valves commanded by PLC.
- Control Panel, made of steel, double tight lid so that the controls are protected inside. Run-stop control and protection of the pump and filter wiper control.
- Metal housing allows the movement in a single unit.

## Storage hopper

- Built in steel cylinder, conical hopper discharge profiles structure.
- It is independent of the rest of the equipment and can be placed where needed, for example on blasting hoppers for charging or containers for removal of abrasive.
- Have resistant protections to the abrasion replaceable in the abrasive entry system.
- Lower hopper has a capacity of 2 m<sup>3</sup> of abrasive (8 tons steel abrasive reference) and allows the discharge through the central part and two side jaws

## Hose and Pick-up Tools

- Supplied with twenty (20) meters of 100 mm spiral tube abrasion resistant and suction with anti choke and two Nozzle pick up tools



## Technical data

- Recovery Rate: 4 to 10 tons/hour

Note: Detailed capacities may vary considerably depending on moisture and abrasive type, number of curves and radii, combination of vertical and horizontal position taken by the suction hose, height above sea level, operator efficiency, etc.

- Maximum Distance
  - Horizontally 150 m
  - Vertically: 30 m
- Silo capacity: 2 m<sup>3</sup>
  - Sand: 3.2 ton
  - Steel Shot: 8 ton
- Root vacuum pump: 50 HP (37.5Kw)
- Control panel: IP55 overload protection
- Power supply: according to customer request



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Industrial Solutions

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