Application Catalogue

- Foundry
- Steel Works
- Cement Works
- Industrial Cleaning

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Spirovac® is the Industrial Vacuum for the recovery of large quantities of material.

Where it can be helpful
- To clean ditches, elevators, tunnels, overhead cranes, plant structures etc.
- For maintenance where it’s necessary the rapid removal of large quantities of material to access the plant.
- For the recovery of material to re-cycle.
- Realisation of a pneumatic transportation system.
- Realisation of a centralized vacuum system.

Principal Advantages
- Reduce stopages of machines or plant.
- Recovery of large quantities of material, even in the most inaccessible locations.
- Conforming to legislation with respect to the security and quality of the production.
- Enormous saving of both time and labour.

Principal Fields of Application

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Applications
Spirovac® from 22kW to 37kW with recovery container of capacity 1,3 m³. Transportable. These models are easily transported with the aid of a fork lift or crane. They are equipped with resistant tubes and a wide range of accessories. The container for the recovery of the debris of 1,3 m³ can be removed and emptied using a fork hoist.

**Principal Operating Environments:**
- Cleaning contractors, foundries, steelworks, ceramic works, production of pre-fabricated cement.

**Advised Usage:**
- Cleansing of the plant with the possibility of disposal of the debris from production.

Spirovac® from 22kW to 100kW with hopper ranging from 1 to 1,3m. Fixed Plant. Used in fixed centralised vacuum plants. Vacuum to which is connected a piping system, which permits usage at different locations and on different floors, reaching the furthestmost points or inaccessible locations. The Spirovac® offers the possibility to attach directly the accessories to the vacuum unit for usage in close proximity.

**Principal Operating Environment**
- Cement works, calcification and chalk plants.

**Advised Usage:**
- Cleansing, recovery of material and return to production process.
- Pneumatic transportation.
- Industrial cleaning with discharge of recovered materials on transportation belts, in containers, Big-Bag, Silo's or to load trucks or train wagons.

Spirovac® mobile units are motorised by either an electric or diesel motor from 55 to 100 kW. Version for lorry’s and Dumper Trucks. This mobile unit validated by the ministry of transport permits to arrive directly at the recovery point or at the coupling junction of a centralised plant. This unit has been designed to function completely self-governed. It is simply placed on the platform of the truck, a hydraulic system for the discharging of the recovered material is provided.

### Technical specifications

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<tr>
<th>Model</th>
<th>Power (kW)</th>
<th>Flow (m³/h)</th>
<th>Max depression (daPa)</th>
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<tr>
<td>COMPACT SPY 8/30</td>
<td>22</td>
<td>30</td>
<td>1650</td>
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<td>COMPACT SPY 11/40</td>
<td>30</td>
<td>40</td>
<td>1950</td>
</tr>
<tr>
<td>COMPACT SPY 11/50</td>
<td>37</td>
<td>50</td>
<td>2000</td>
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<tr>
<td>COMPACT SPY 11/50 AV</td>
<td>37</td>
<td>50</td>
<td>1800</td>
</tr>
<tr>
<td>MAJOR SPY 25/75E CJ</td>
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<td>3050</td>
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<tr>
<td>MAJOR SPY 25/75E CJ AV</td>
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<td>MAJOR SPY 100E CJ AV</td>
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<td>100</td>
<td>4100</td>
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In production foundries the Spirovac® is used in zones of stripping, below the shake-out (vibrating grill).

In this zone it happens the detachment of earth upon the transportation belt that moves in the direction of a bucket elevator.

Along the belt length enormous loses of earth occur for which the Spirovac is used for the recovery reducing drastically time and labour hence costs.

**The more frequent applications are:**
- Cleaning below earth preparation towers.
- Cleaning below rollers for the recovery of earth and slag from the iron.
- Cleansing of the sand moulds.
- Cleansing of steel granule jet bays, that is the recovery of “precious” grains of steel.
The Spirovac® is used principally for the cleaning of the cement-mill and clinker. In this case it is advised the installation of fixed tubing connected to a Spirovac® of elevated power 75 or 100 HP.

In the previous two cases the scope is the cleaning of the environment and the recovery of hundreds of tonnes/year of material, naturally bringing about significant savings.

The Spirovac® is used as a centralised unit, in the bagging zones for the quick recovery of the tonnes of material which is spilt.
Use of primary materials of earth and clay generate a large quantity of overflow often of dry dust.

Hence along the entire path that the material undergoes, from its entrance in the factory to its usage in production, it’s necessary for regular cleaning and recovery.

In particular the area of production of refractory bricks requires cleaning of the machinery after each cycle of production to avoid the excessive wear.

The more frequent applications:
• Cleansing of working area of refractory
• Cleansing of moulds
• Recovery of material below transportation belts
• General cleaning of the plant

The Spirovac ® can be used as a mobile vacuum or alternatively as a central suction unit.
In re-cycling plants the Spirovac® is suited for the cleaning in areas where breakage occurs and for the transportation of glass or plastic; in incinerators and energy production plants, it is the Spirovac® that acts as the centralized unit, when connected to a piping system over various levels, removes quickly cinders and dust.

For industrial maintenance cleaning contractors use Spirovac® to clean heavy industrial ambients or where normally particularly grave production is carried out where large quantities of spillage are involved.