



Vacuum solutions for
**POWDER
AND WOOD CHIPS**

made in Italy





| Extraction of dust and wood chips

In woodworking shops, wood dust, sawdust and shavings are inevitable, and they are a continuous and real risk given the high combustibility of wood dust.

The flammability of wood dust requires the use of extraction systems that limit the accumulation of dust and chips in the work environment and that suck in as much as possible directly at the source. *Industrial vacuum cleaners for wood dust and wood chips, vacuum cleaners for woodworking shops, and centralized vacuum and filtration systems are must-have solutions for **safety**.*

In the case of potentially explosive areas, it is a good idea to use **ATEX-certified vacuum cleaners** to further increase safety.



- > **health for the operator**
- > **cleaning of machinery**
- > **cleanliness of the working environment**
- > **localized dust extraction** from circular saws, sanders, and other equipment to equipment to minimize machine maintenance

Industrial vacuum cleaners for wood dust are at their most effectiveness when used for vacuuming during the work cycles of circular saws, sanders and other woodworking tools.



Solutions for wood dust extraction

RGS industrial vacuum cleaners, designed for the world of wood, have distinctive features that make them ideal for these applications thanks to their systems.

Industrial vacuum cleaner ONE63ECOX1

Industrial vacuum cleaner to **suck up combustible dust, in antistatic version**, with components connected with an earthing cable:

- > stainless steel container to ensure the continuity of the vacuum cleaner's earthing
- > antistatic M filter
- > cable hook and handgrip clip
- > suitability for internal zone 22 for combustible dusts, wood dust /is a version free of ignition sources "EX II 3 / -D c T100 ° C".

* *version with optional hose holders*



Industrial vacuum cleaner ONE63EC024

Battery-powered industrial vacuum cleaner specifically suitable for cleaning large spaces. In fact, thanks to the **possibility of use without connection to the electricity** grid, therefore no constraints due to electric cables, the operator can move freely.

This vacuum cleaner has great **flexibility of use**, and it is possible in fact, use it to easily clean floors thanks to the fixed front nozzle (optional), but also as an industrial vacuum cleaner for **cleaning machinery, work centers, dedusting**.



Industrial vacuum cleaner ATEX

The ATEX range of vacuum cleaners can be used in **areas with a risk of explosion due to the presence of dust ("D") or explosive gases ("G")**.

For applications in zone 0-20 we recommend the use of machines in **compressed air versions**. All machines are manufactured with electrical components that comply with the ATEX directives for the classification zones. All models of standard vacuum cleaners are available in the ATEX version and specific vacuum cleaners can be produced in accordance with customer's risk analyses.



Industrial dust collectors HIGH AIRFLOW

Range of industrial dust collectors with high airflow ventilator fan ideal for air **extraction and filtration** in small rooms and where it is necessary to move the machine itself.

Depending on the model, one to two **articulated suction arms** can be applied, allowing the desired suction area to be easily reached.

Also available in **single-phase and ATEX versions**.



| Wood extraction and filtration system

Extraction systems are the most widely used method to **capture and remove airborne pollutants from the work environment**, especially where high air flows and several localized extraction points are required.

Direct suction has the task of capturing the pollutants as close as



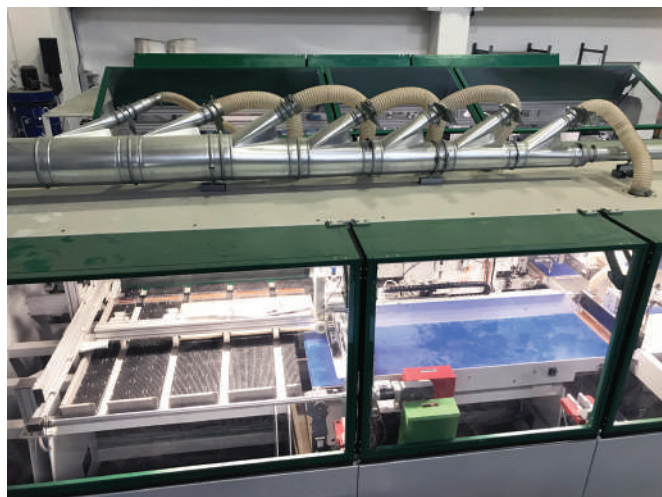
possible to their point of production (source) and to abate them before they are released into the atmosphere to reduce concentrations to values compatible with environmental protection.

The correct design of extraction systems is, of course, the one that achieves the **best control of the atmosphere with the lowest air and energy consumption.**

| Case Study

Project realized for a leading company in the sector of woodworking.

We supplied a **complete system for extraction and filtration of dust and wood chips from chipboard processing**. It is a “combined” machine that performs several operations on the same panel: *cutting into small pieces and sanding*. It is very important to **keep it clean by means of good suction, so as not to damage the finished pieces and to minimize maintenance** (machine downtime).



Other RGS solutions



VACUUM CLEANERS

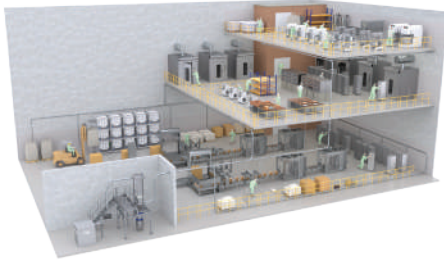
RGS Vacuum Systems offers a wide range of **industrial vacuum cleaners of various powers and capacities**: single-phase, three-phase and compressed air.

Specific models are also available for oil and shaving extraction, for food and pharmaceutical industry as well as **special machines** made to meet customer requirements.

PNEUMATIC CONVEYORS

Pneumatic conveying systems for powders and granules for all industrial sectors with **customization options**.

Thanks to many years of experience in the sector, it is possible to realize and design the most suitable and economical conveying system to solve customer's problems, depending on the type of product and the needs of the sector.



CENTRALIZED VACUUM SYSTEMS

RGS offers a wide range of components for the realization of **centralized vacuum systems** (such as suction units, collection silos, pre-separators, components for the piping, and control systems) and **pneumatic conveying systems** for material handling.

All products can be made of painted steel, stainless steel and in **ATEX version** according to customer needs and application area.

RGS services



**TECHNICAL INSPECTIONS
OF CUSTOMERS' SYSTEMS
AND PRODUCTION FACILITIES**



**ENGINEERING DESIGN
OF COMPLETELY
CUSTOMIZED PRODUCTS**



MAINTENANCE



**TECHNICAL-ECONOMIC FEASIBILITY
ANALYSIS AND CHOICE OF
THE BEST SOLUTION**



**INSTALLATION AND TESTING
OF RGS MACHINERY
AND EQUIPMENT**



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RGS CHINA
 www.rgschina.com.cn

RGS VACUUM SYSTEMS SRL

Via Mavore 1640/C - 41059 Zocca (MO) Italy - Tel. +39.059.986833

info@rgsimpianti.com - www.rgsvacuumsystems.com

