

CENTRALISED VACUUM CLEANING SYSTEM

Solution to clean factory floors and for the continuous extraction of waste products.



Centralised vacuum cleaning



Suction pipe network



NEUMATIC installation



Vacuum at workstation

A **Centralised Vacuum Cleaning System** is used to :

- clean floors, machines and production tools,
- declassify some ATEX zones,
- directly suck up dust from machining tools (sanders, grinders, etc.),
- limit the risks of fire and explosion in workshops,
- improve working conditions and productivity...

Improving working conditions

A **Centralised Vacuum Cleaning System** limits the risks of fire and explosion, prevents the presence of suspended dust during cleaning operations and reduces the time dedicated to these procedures.

Optimising performance and productivity

A **Centralised Vacuum Cleaning System** extracts automatically and continuously the waste generated by production tools (chips, particles, dust...).



CENTRALISED VACUUM CLEANING SYSTEM

DESCRIPTION

A **Centralised Vacuum Cleaning System** includes:

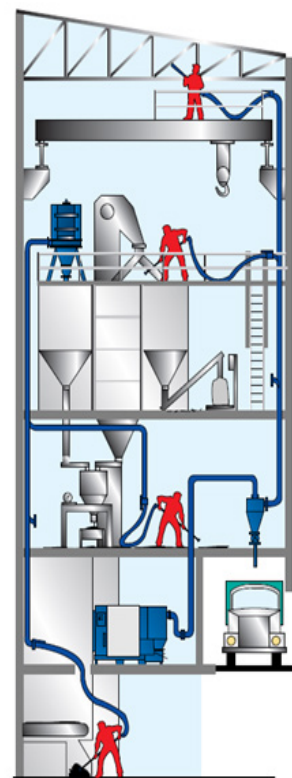
1. A circuit of small-diameter pipes, modular in order to adapt to changing requirements.
2. A number of suction points depending on their operation (simultaneous or not).
3. A compressed-air self-cleaning filter receptor to centralise and eliminate the dust or products sucked in.
4. A differential pressure device to suit the intended number of simultaneous vacuuming outlets and the length of pipe in the circuit.
5. A wide range of accessories providing great ergonomics.

NETWORK DESIGN SOFTWARE

Software specifically developed by NEU-JKF Wood Industry determines:

- the diameters and balancing of the circuits according to the number of simultaneous operators,
- the characteristics,
- the type of differential pressure device to be used.

A calculation note is attached to the quote.



EXAMPLE OF APPLICATIONS

Cleaning of a food production area

Metal chip extraction on 5-axis machines

Suction of limestone piles

Aluminium dust extraction on rotary sanders

Combustion ash suction

Swarf extraction on automatic drilling unit

Cleaning of ground coffee encapsulation lines



Extraction and filtration unit



Work area cleaning

WHAT ARE THE ADVANTAGES FOR THE MANUFACTURER?

- **Increased productivity:** no machine stoppage for cleaning
- **Quick cleaning:** a single hose to connect
- **Floor cleanliness** (no dust in suspension)
- **Product quality** (no cross contamination)
- **Better working conditions**
- **Elimination of the handling** necessary for the recovery and transport of dust and waste
- **Suction outlets** placed in difficult-to-access areas
- **Space savings** in the workshop by eliminating waste reception bins.
- **Reduction of maintenance costs** for production tools
- **Environment protection**