

Centralized Vacuum Systems

Modular, silent, green. Simply Smart.



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Introducing the new Nilfisk Centralized Vacuum Systems

Centralized vacuum systems are the perfect tool to efficiently clean wide areas, with a lot of floor space, large amounts of waste to collect and even when interconnected to process machines to provide vacuum where needed.

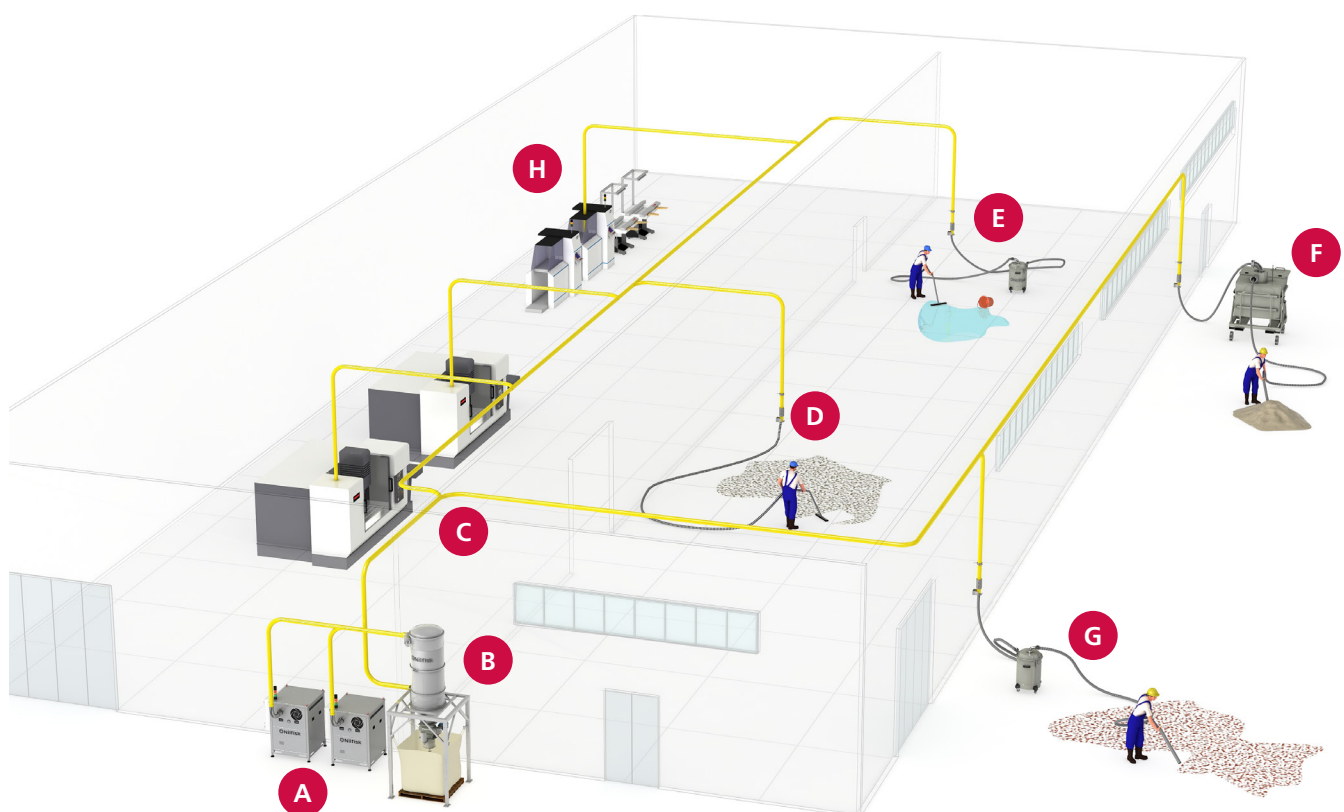
Many the advantages:

- It allows to collect materials from many inlets simultaneously;
- it can work continuously, allowing an immediate saving on resources;

· vacuumed materials are collected in one single container, placed either inside or outside the factory, making it easier for the operators to provide for their disposal or recycling.

Centralized vacuum systems consist essentially of a suction unit, a control panel, a filtration system, a discharge system and a series of pipes with inlets in the requested positions.

The new range has been designed in order to be modular, silent, green. Simply smart.



A Suction Unit	D Inlet for the tools quick connections	G Hot material pre-separator
B Silo/Filter Chamber	E Liquid pre-separator	H Process machines interconnection
C Pipeline	F Heavy Duty Pre-Separator	

Why choosing a Centralized Vacuum System?

When it's time to choose the best vacuum solution for your company, there are different points to consider.

What

- to recover dry powder or waste material of different grain size
- to recover small amounts of hazardous material in the safest way
- to quickly collect high amounts of materials in order to avoid downtime in the production process

How

- to safely collect materials reducing risk for operators
- to recycle waste material in the production process
- to centralize the collection of the materials in one single place (even outside of the facility)
- complete integration in the production process

Where

- medium/large areas to be cleaned quickly and effectively
- plants disposed on more floors
- manufacturing sites with limited space

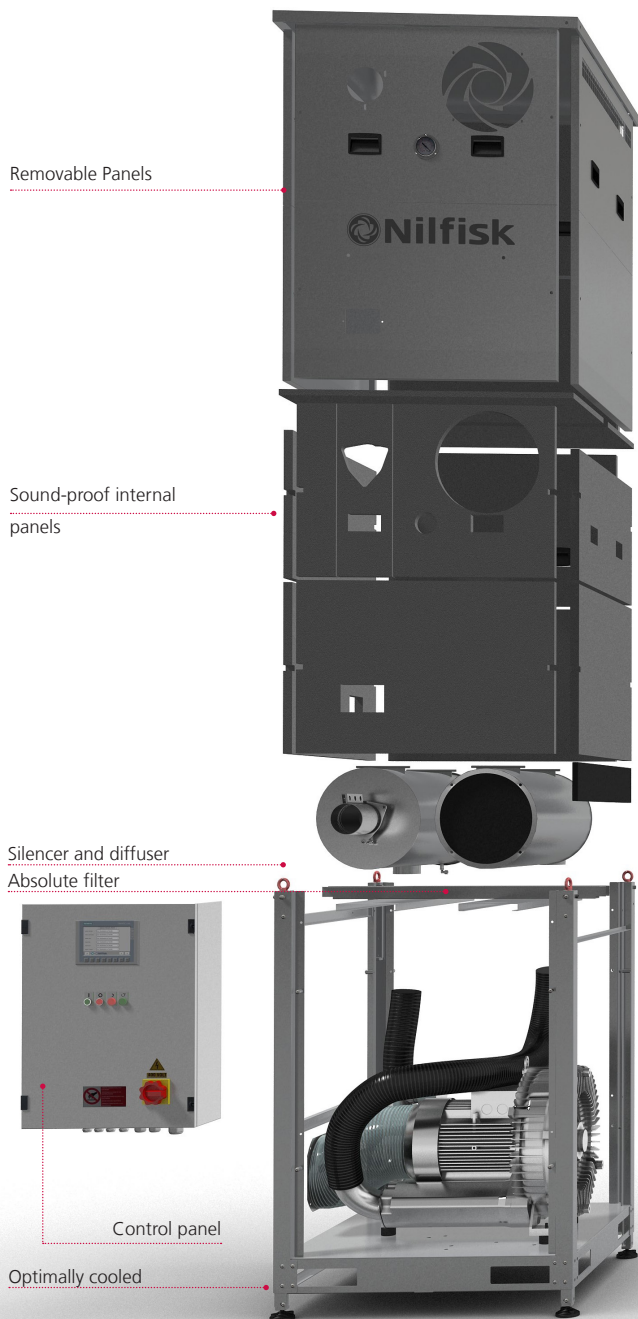
When

- you need equipment always ready to be used everywhere in the plant
- you need to perform the cleaning operations as fast as possible
- the cleaning process is part of the production process



The range

FSU (Fixed Suction Unit) range - Cabinets



The new Nilfisk cabinets come out in 3 different sizes, small, medium and large, in order to fit all the blowers, which go from 5.5 to 23 kW power, and are available in different versions: standard, ATEX Z22, high efficiency and with inverter. The cabinets are available painted or in stainless steel.

KEY FEATURES:

Modular:

- Cabinets are stackable thanks to the telescopic legs
- The control panel and the removable panels can be moved according to the needs
- They can be placed both indoor and outdoor.

Silent:

- The silencer and the sound-proof panels ensure a very low noise level

Green:

- Dynamic power set by number of users (inverter version)

Safe:

- The motor is cooled and filtered, ensuring a cleaner working environment.
- Absolute filtration HEPA H14 available.
- Suitable for ATEX zones

The range

Silo

A silo is composed by a filter chamber, a collecting cone and the discharge system. Nilfisk range of silos comes out in three different diameters: 560, 780 and 1200 mm, featuring different filtering area and capacity.

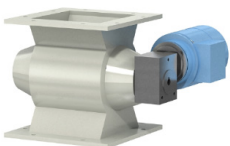
The right combination between filter and discharge systems allows to satisfy various needs of cleaning or collecting.

Silos can be mounted on different frames according to the size and discharge point.

Additional separators are available to increase the capacity and provide different disposal solutions.



Components: some examples



Rotary valve



Double butterfly valve: continuous discharge



Long durability valve



Interconnection for venting disk



Heavy industry separator



Stainless steel container



Special chamber with flange for Venting Disk



Telescopic frame

Control panels

The new Nilfisk control panels have been designed in order to meet the different requirements in the different segments and are user-friendly and interactive.

The range is composed by three different panels, according to the integration level.

- **VISUAL** panels are really easy to use and have been designed for standard applications.
- **DISPLAY** panels combine an excellent level of functionalities with an optimal price level.

- **TOUCH** panels are the top of the category and ensure the maximum level of interaction and control of the system.

They are multi-language and feature a HMI Touch screen which allows the operator to real-time monitor and control several parameters of the system.

The DISPLAY and TOUCH variants can manage the different type of blowers, both the standard and the inverter.



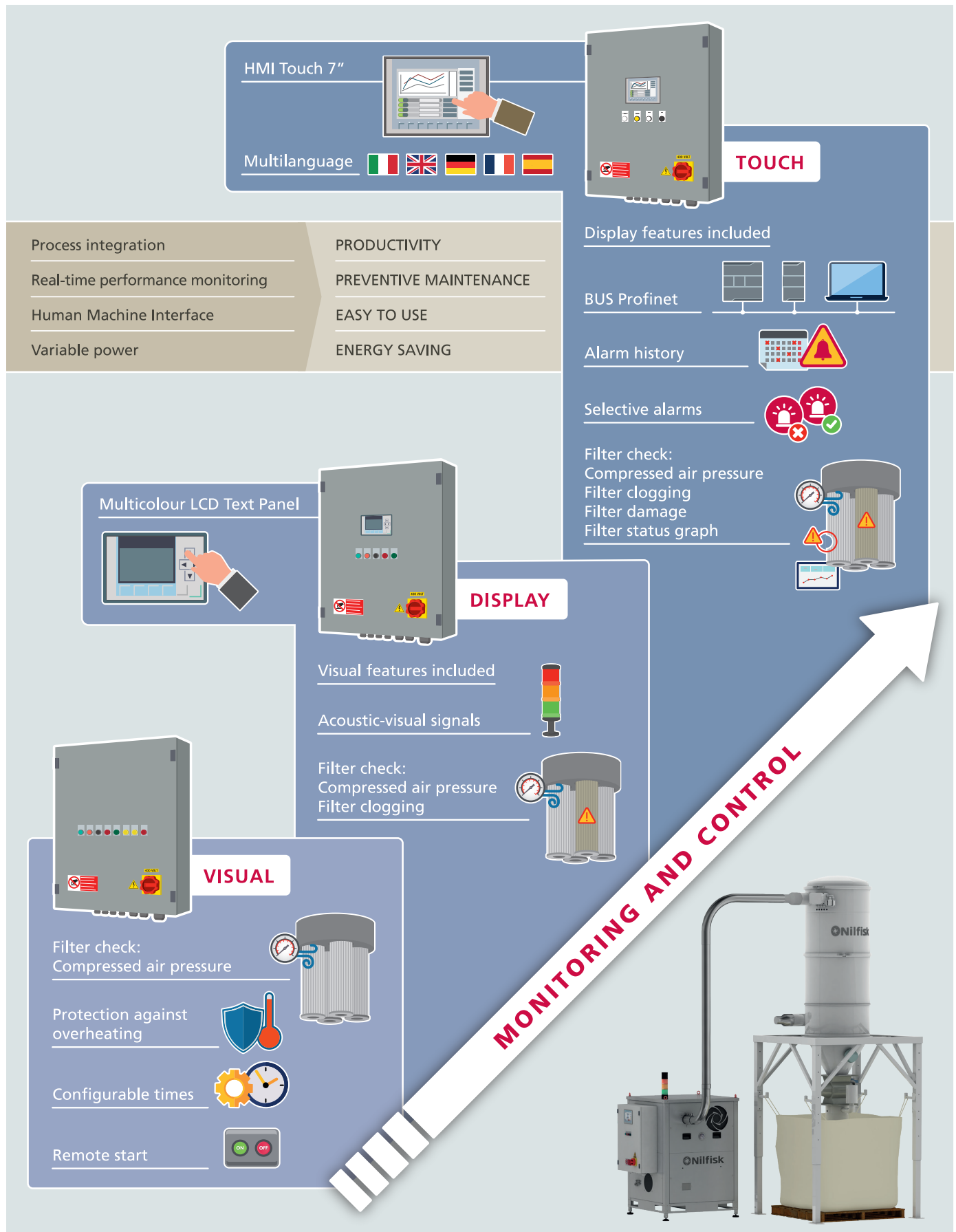
HMI Touch main features:

- Runtime graphs
- Multi-language
- Adjustable timer
- Data logger
- Remote access via web (Web server)

**Control panels, the different functionalities:
choose the most suitable for your needs!**

Functionalities	VISUAL	DISPLAY	TOUCH
LCD Text Panel Multicolor		✓	
HMI Touch 7"			✓
Multi-language			✓
BUS Profinet			✓
Data Logger - Alarm history			✓
Selective alarms			✓
Industry 4.0		✓	✓
Acoustic-visual signals		✓	✓
Advanced signals		✓	✓
Web server		✓	✓
Filter check: filter status graph			✓
Filter check: filter damage			✓
Filter check: filter clogging		✓	✓
Filter check: compressed air pressure	✓	✓	✓
Inverter variant		✓	✓
Automatic Timed Stop	✓	✓	✓
Configurable times	✓	✓	✓
Remote start	✓	✓	✓
Protection against overheating	✓	✓	✓

Control panels



Typical applications

Centralized vacuum systems are used to support production processes.

Thanks to their high potential, fixed cleaning systems range among the most flexible tools of a manufacturing unit and they are integrated into production processes. They work side by side with manufacturing machines, where they generate vacuum with non-stop product recovery, keeping production lines clean and efficient and maintaining

products aligned during the packaging process (i.e. toasted bread, sandwiches, etc...).

Fixed cleaning installations are present in all industrial sectors such as pharmaceutical, chemical, metal, food and cereals, wood, ceramic, tobacco etc...

Nilfisk centralized vacuum systems are also available in ATEX certified versions.

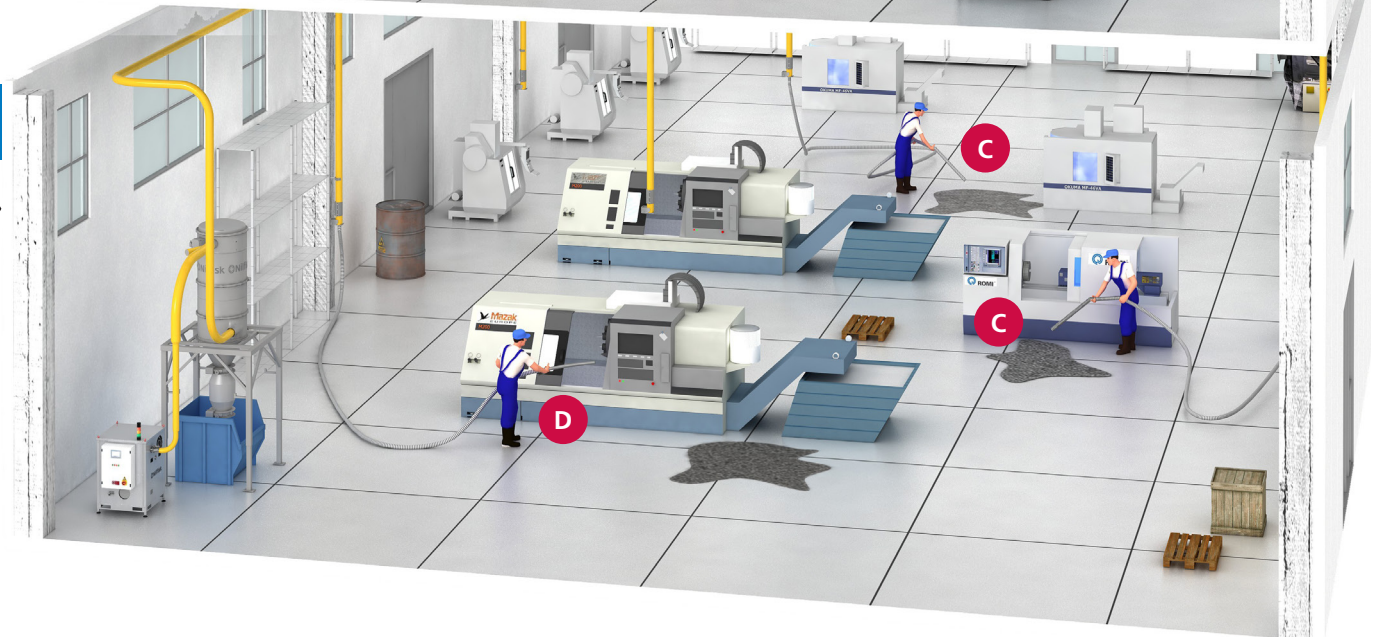
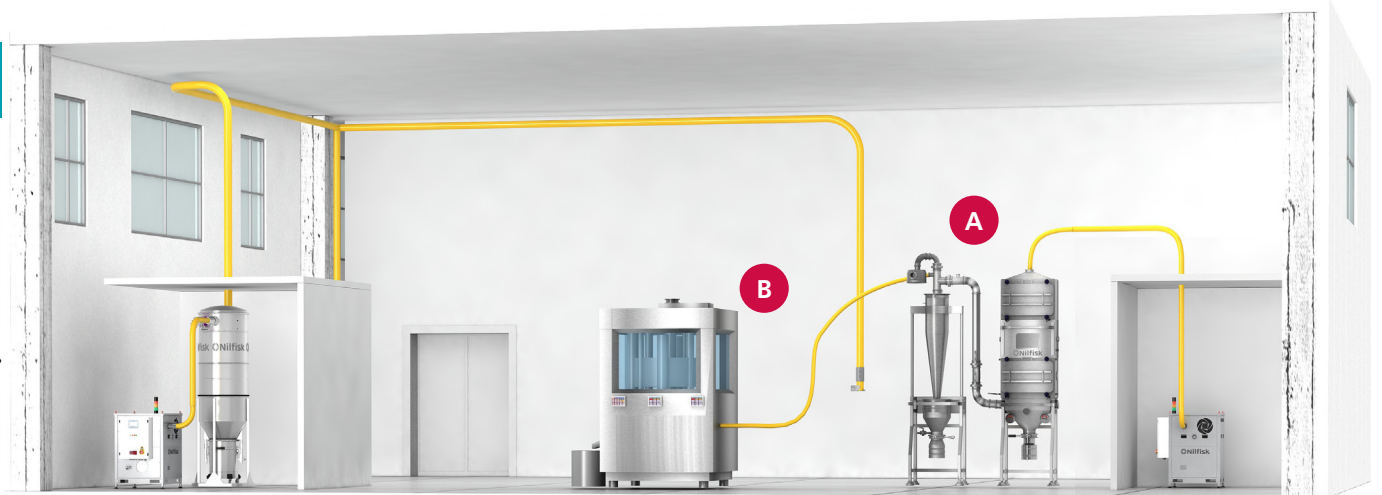
THE APPLICATIONS

- A DUST CONTAINMENT:**
- provide power to systems composed by several containment units.
 - waste is discharged in one single place (even outside)
 - noiseless
-

- B INTEGRATION TO PROCESS MACHINES:**
- continuously recover the waste produced during the production process
 - a unique system able to serve several process machines,
 - waste is discharged in one single place (even outside)
 - noiseless
-

- C GENERAL CLEANING:**
- clean quickly and effectively the manufacturing areas
 - waste is discharged in one single place (even outside)
 - noiseless
-

- D CLEANING OF THE EQUIPMENT**
- recover large quantities of waste very fast
 - waste is discharged in one single place (even outside)
 - noiseless
-



Certifications

Nilfisk has a strict approach to the certification process: even in case the auto-certification is enough, Nilfisk relies on third notified bodies which carry on tests and then release the certification after having passed all conformity assessment procedures.

Here below some of the certifications:

COMPANY CERTIFICATIONS

- ISO 9001 (Quality Management System)
- ISO 14001 (Environmental Management System)
- Atex Ineris (Product Quality system complying with the ATEX Directive)

PRODUCT CERTIFICATIONS

- ATEX (products compliance to the EU Directive for the explosive atmospheres)
- CE (product compliance to the EU safety, health and environmental protection requirements)
- EAC (product compliance to all technical regulations of the Eurasian Customs Union).
- IECEx (products compliance to the Australia/New Zealand Directive for the explosive atmospheres)
- ETL (product compliance to North American safety standards)
- CSA (product compliance to Canadian product safety standards)

ATEX



Nilfisk is directly present in 45 countries and has partners in more than 70 countries. This means that you have a direct contact with the local Nilfisk team of experts and support from the Italian headquarter.

This «service excellence» allows Nilfisk to be a partner to the biggest pharmaceutical manufacturers and OEMs worldwide.

