

Pharmaceutical industry



In the pharmaceutical industry, as in electronics manufacturing, it is necessary to protect products from what is commonly called particle contamination. Within the pharmaceutical industry this is important for several reasons. Even particulate that is invisible to the naked eye can carry bacteria. This can impair the transparency of liquids or block capillaries. The solution is to allow the sensitive parts of manufacturing to take place in special environments cleaned of airborne particulate. These clean rooms are graded into different cleanliness classes, depending on the manufacturing requirements.

Time for Dustcontrol

The clean room needs an efficient and reliable system for collecting and removing dust and other particulate. Just the presence of a human being in a clean room is enough to free microscopic particulate. Dustcontrol has many years of experience in manufacturing systems built to the high standards required in these clean room environments. The systems are based on proven techniques including source extraction and can be entirely customized according to the client's specifications.



Airborne particles

Airborne particulate can be microscopic and still carry bacteria. Working in a clean room necessitates special equipment, which has to be antistatic and must not release dust particles.

Complete accessory range

Dustcontrol offers a complete range of different cleaning equipment, hoses, connections, and nozzles, which can easily be connected to the system, both in the clean room and other locations.



Orion-Pharma

Orion Pharma, a publicly listed company, develops, manufactures and markets pharmaceuticals, active pharmaceutical ingredients and provides diagnostic testing for global customers.

Orion's clientele consists of healthcare service providers and professionals, such as doctors, pharmacies, hospitals, healthcare centers, clinics and laboratories. In the pharmaceutical industry there is a high level of cleanliness required on both surfaces and in the air.

"We need effective extraction systems to ensure quality and capacity in production as well as protecting our employee's health. We use Dustcontrol's system mainly due to their excellent characteristics. The solutions from Dustcontrol are effective, dependable and long-lasting, which provides a superior total economic solution. The Customer Service at Dustcontrol is also something we as customers, have appreciated" says Ari Urpinen, operation technician.



*Ari Urpinen, operation technician:
"We need to ensure the worker's health"*



Aerospace and Composite



Composites have many unique qualities and are used in an increasing number of industries including automotive, marine, aviation and wind turbine. This increased use of composites and exotic materials has resulted in problems for personnel as well as production itself.

Significant health risks

“Composite dust makes you itch just by looking at it” – but the problem is greater than that. Composite dust is a very low density and stays in the air for a long time. It penetrates into the trachea and lungs and promotes allergies, asthma and respiratory ailments. OSHA and the EU mandate limits on how much airborne dust is permitted within the operator’s breathing zone. The World Health Organization has classified glass fiber and other special fibers as possible carcinogens.

Disturbances in electronics increase costs

In addition to the negative consequences for health, composite dust accumulates and causes disturbances in computers and other production equipment. Visibility for the operators decreases in many working situations and in most companies the cost for cleaning composite dust has increased.

Fortunately there are efficient solutions to the problem

With 35 years of experience, Dustcontrol offers a unique know-how about source extraction that collects, filters and removes the offending particulate. With source extraction, the dust is captured where it is created. The result is a cleaner working environment and in many cases, increased product quality because of lower contamination in production.

The right extraction system contributes to health and efficiency

- Improved health through lower composite dust levels in the plant air.
- Safer working conditions and increased productivity by improving the operator’s visibility.
- Increased productivity, fewer disturbances of adjacent activities.
- Greater flexibility, eliminates the need for dedicated grinding rooms.
- Longer life for tools and electronic equipment.
- Reduced time and costs for cleaning.
- Fewer disturbances due to dust in computers and CNC machines.



Nautor Swan, Manufacturer of ocean yachts in Pietarsaari, Finland

Five fixed systems from Dustcontrol are installed in Nautor Swan's factory. Dustcontrol's products are used mainly for cleaning but also for grinding with hand held power tools with suction casings. Seven outlets can be used simultaneously on each system. The Dustcontrol installation includes a RAF 2503, S 34000, F 20000 and a tipping container.



"We are very satisfied, that's why we've ordered products from Dustcontrol ever since 1988. The best thing about Dustcontrol is the reliability. The systems haven't had any problems and the first stationary system that we installed in 1988 is still in use."

Bengt Nyström, Nautor Swan



Airbus Industries

Very strict environmental requirements prompted Airbus to choose the advanced technical solutions from Dustcontrol for their German production facility outside Hamburg.

The vacuum systems are designed for continuous operation. The systems included complete installation of pneumatic, mechanical and control systems. Special emphasis was put on explosion relief equipped systems. Three of the four installations incorporate explosion relief and have been designed for use with dusts having a Kst value of <math><180</math>.

In addition to offering a dustless environment for such tasks as drilling, sanding and grinding, the extraction systems are used for cleaning tasks and extraction of residue materials during riveting and gluing. Also sealant materials and chromium residual products are captured. The materials that are extracted are aluminum, GLARE (glass reinforced fiber metal laminate), carbon fiber, fiberglass, epoxy, polyester, aluminum alloys and titanium.

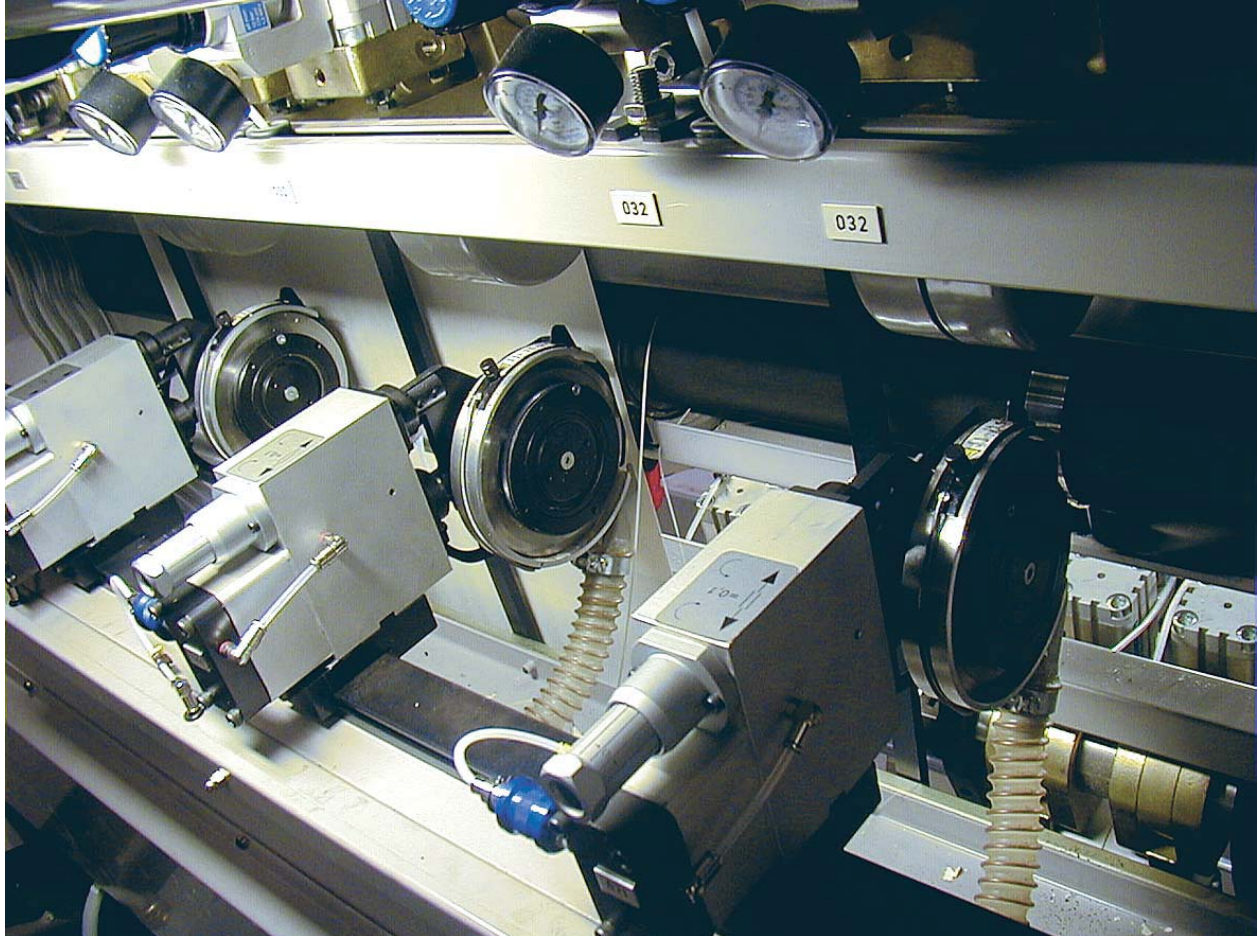


Dustcontrol was entrusted with supplying four stationary systems with suction casings. This German order was valued at over \$1 million.





Printing



A real problem in the working environment of printing presses is the paper dust and strips of paper scrap created during the printing process. The whirling dust is both unhealthy for the personnel and problematic for the process and process equipment. By equipping the presses with extraction points consisting of a number of suction casings specially designed for the machines, the dust problem can be eliminated. A number of cleaning points can also be connected to the source extraction system.

The Dustcontrol system can also be used as a separate “blowing system” to make the paper “flow” over the turning rolls.

Dust: Small but devastating

Dust and fibres adversely affect the quality and profitability of the newspaper. Dustcontrol solutions improve the production process with source extraction for slitters, folders and cleaning operations.

It's only physics

Dustcontrol has provided solutions to countries worldwide and met the high standards required by the printing press market. The solutions are relatively simple as we follow the laws of physics to guide our design. Experience and skill enable Dustcontrol to customize the system to meet the specifications and requirements for each installation.