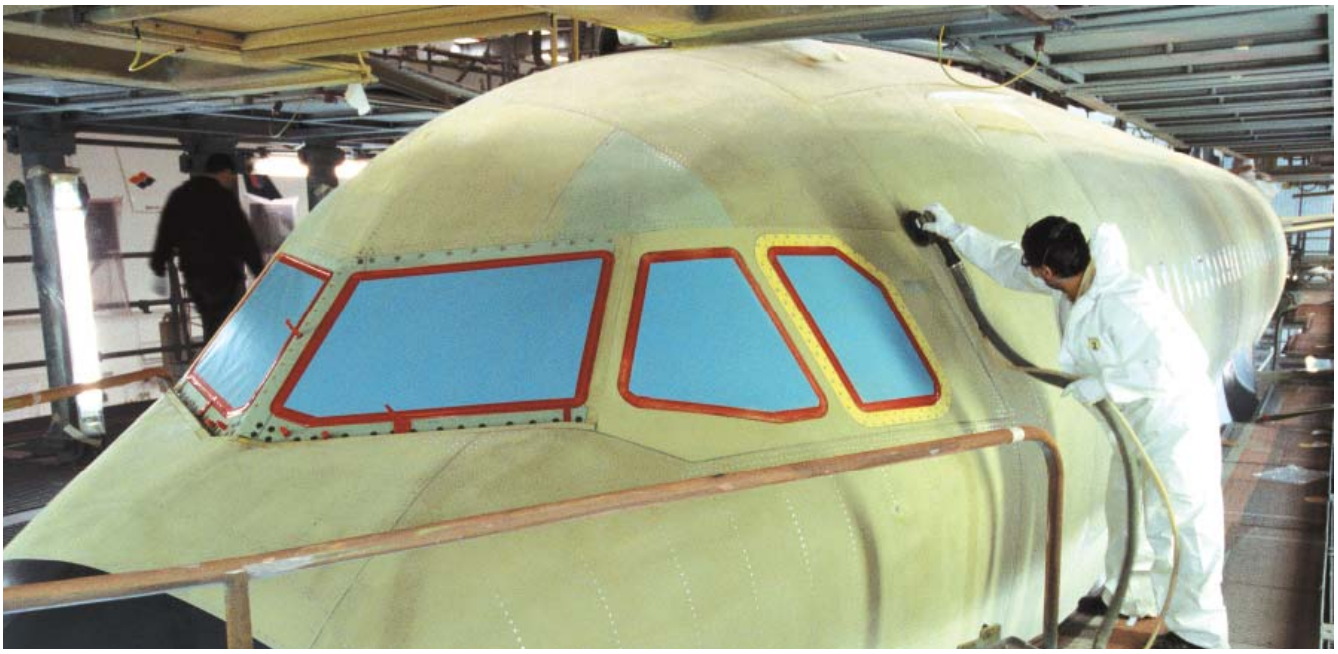
Aerospace and Composite



Fibreglass has many unique qualities and is used in an increasing number of industries such as automotive, marine, aviation and wind turbine. The increased use of fibreglass has resulted in problems for personnel as well as production itself.

Significant health risks

"Fibreglass dust makes you itch just by looking at it" – but the problem is greater than that. Fiberglass dust has a low weight and stays in the air for a long time. It penetrates into the trachea and lungs and stays there causing allergies, asthma and cancer. OSHA and the European Union mandate limits on how much airborne dust is permitted within the operators breathing zone. The World Health Organization has classified ceramic fibres and other special fibres as possible contributors to cancer.

Disturbances in electronics increase costs

In addition to the negative consequences of health, the fibreglass dust causes disturbances in computers and other production equipment. Visibility for the operators is decreased in many working situations and in most companies the cost for cleaning 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 extracts, filters and removes the dangerous particles. With source extraction, the dust is collected where it is created. The result is a cleaner working environment and in many cases increased product quality because of less contamination in production.

Right extraction system contributes to health and economy

- Improved health through less fibreglass dust and other particles in the air.
- Safer work and increased productivity since there is no dust decreasing the operator's visibility.
- Increased productivity due to less disturbances on other activities.
- Eliminates need for dedicated grinding room.
- Longer life time for tools and electronic equipment.
- Reduced time and costs for cleaning.
- Less disturbances due to dust in computers and electronics.

Nautor Swan, manufacture ocean sailing boats 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 and suction casings. 7 open outlets can be used simultaneously.

Dustcontrol's installation includes a RAF 2503, S 34000, F 20000 and a tipping container.

"We are satisfied, that's why we have 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 was installed 1988 is still in use."

Bengt Nyström, Nautor Swan

Airbus

Very strict environmental requirements combined with advanced technical solutions made the manufacturer of Airbus, choose solutions from Dustcontrol for the German installation in Mühlenberger Loch outside Hamburg.

The suction systems are designed for continuous operation. The deliveries covered complete installation of pneumatic, mechanical and control systems. Special emphasis was put upon EX protected installations. Three of the four installations have been purpose-built for dust explosion risks, complying with a k value of 180 bar m/sec.

In addition to offering a dustless environment for such tasks as drilling, milling and grinding, the suction systems are used for cleaning tasks and extraction of residue materials during riveting and gluing works. Also sealant materials and chrome residual products are involved. The materials which are extracted are aluminium, GLARE(GLAss-REinforced" Fibre Metal Laminate), carbon fibre, fibreglass, epoxy, polyester, aluminium alloys and titanium.

Dustcontrol was entrusted with supplying four stationary systems with on-tool extraction.