CLEAN AIR WORKING ENVIRONMENTS FOR THE AEROSPACE INDUSTRY




A range of specialist equipment designed to offer clean air working environments that protect engineers and fitters working in the aerospace and allied industries is now available from Hosokawa Micron Ltd.

Developed in conjunction with leaders in the aerospace industry the Hosokawa Micron equipment is designed to reduce operator exposure to potentially harmful or toxic airborne dust and contaminants generated during everyday metalworking and precision engineering operations. The specialist equipment allows individuals and teams to work without the need for restrictive breathing apparatus and is tailored to meet specific industry requirements.

Mobile & Static Fettling Booths

Hosokawa Micron's Mobile Fettling Trollies and Static Fettling Benches are designed to reduce operator exposure to potentially harmful fettling dust, polishing dust and swarf created in the production of painted and non-painted metal parts or panels, the booths create a safe working environment for operators undertaking polishing, drilling or filing activities where airborne particles, including chromate (paint) dust are generated.

Mobile Fettling Trolley

A transportable solution, this back-draft extract booth provides a horizontal air flow to extract particles away from the operators breathing zone. It incorporates a two stage filtration system comprising of a replaceable panel filter and H13 HEPA filter. HEPA filtered air is discharged into the factory working area. The unit is constantly monitored by differential alarm pressure gauges across the filter to provide the operator with visual indication when a filter is laden with dust and in need of changing/cleaning. A reliable air flow through the booth is still maintained even when filter cells are dirty.
Mobile Fettling Trollies are available in a range of sizes and materials of construction.

- Easily transportable around the workshop
- Plug and play
- Constantly monitored system
- Integrated lighting
- Integrated Type H vacuum cleaner, for the safe removal of swarf or larger filings
- ATEX compliant options available

Static Fettling Bench

A fixed bench with integral overhead lighting suitable for small or large parts fettling.

Dust is ducted away from the workspace to a remotely located reverse jet or shaker filter and collected in a sealed unit for easy disposal. Air from the booth is extracted through an H13 HEPA filer before discharge into the atmosphere. The unit can incorporate localised on-tool extraction and a bench area cleaning vacuum and electrical sockets if required. Static Fettling Benches are available in a range of sizes and materials of construction.

- Fixed point mounting
- Sealed bin dust disposal
- Explosion relief options available
- ATEX compliant options available

Downflow Booths

Offering high levels of operator protection and product containment when generating dust during fettling, drilling and deburring of larger parts not suited to a fixed fettling booth. Downflow booths are designed to incorporate equipment such as a fettling jig to give full workable access to the part or panel to be fettled during production or assembly.

A uniform, non-turbulent, horizontal laminar airflow is generated behind the operator and flows across the working area taking the airborne dust particles away from the operators breathing zone. The exhaust air is HEPA filtered before return into the booth. With integral lighting the downflow booths offer a working environment that is popular with operators.

OELs to airborne particles including chromate dust have been shown to be well below UK legal limits in extensive testing in aerospace industry applications.

With a range of standard and non-standard equipment options, Hosokawa Micron Ltd work closely with customers in the engineering, aerospace and metal working industries to develop the most appropriate clean air technology solutions that extract airborne particles away from the operators breathing zone and reduce the risk to operators.

Hosokawa Micron engineers worked closely with our team refining and modifying the system specifications to ensure we achieved the optimum solution, these discussions became the catalyst for improvement in our operations which resulted in a very successful installation, which is of interest throughout other areas of the Airbus business.

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