

**The flexible solution to
Oil Mist and EDM Fume**

FILTERMIST CASE STUDY

DONCASTERS PRECISION MACHINING

High precision machined components

United Kingdom

Doncasters Precision Machining has had success in eliminating oil mist and fumes from its grinding and electro discharge machining operation in Shrewsbury by specifying a very flexible, high performance solution from Filtermist.

A specialist in machining cast and forged nozzle guide vanes and turbine blades for gas turbine engines, Doncasters Precision Machining undertakes a wide range of grinding and eroding operations.

“Filtermist are able to supply a proven stand-alone system that is extremely easy to move around the factory as the need arises.”

Bob Comley, the manufacturing engineer responsible for space and equipment planning at the Shrewsbury facility, comments:

“We require an extraction system that can meet a wide range of demanding criteria. Highly efficient removal of oil mist and smoke together with performance powerful enough to cope with open machining operations are prerequisites. Our lean manufacturing policy also demands high flexibility and Filtermist are able to supply a proven stand-alone system that is extremely easy to move around the factory as the need arises.”

The flexibility of the FiltermistXcel2 filters includes stand-mounted versions that are supplied vertically mounted to suit each application. In addition, Loc-Line Vacuum Hose is used to accurately position collection hoods whilst maintaining the freedom to position the FiltermistXcel2 in the most convenient location adjacent to the machine. Offering 360° flexibility, this extremely resilient modular hose system does not creep out of position and can be simply pushed to one side when the operator requires access to the machine.

Filtermist were chosen to provide a large part of the fume and mist removal during the company’s move from Crewe to Shrewsbury, and now provide a full service and maintenance package for all their extraction units across the site. The stand-alone filter stays with the machine to which it is allocated, allowing Doncasters to plan re-commissioning without any concern about the availability of an effective extraction system at the new site.



PROJECT SUMMARY

Application

Grinding and eroding operations were generating large amounts of oil mist and fume that needed to be removed from open machines. Collector units needed to combine extremely high performance with the flexibility of being stand alone systems that could be easily moved around the factory.

Solution

FiltermistXcel2 oil mist collector units provide the proven, high performance required for the open machining operations. Loc-Line Vacuum hose is used to accurately position collection hoods over the grinding and eroding equipment, maintaining the freedom to position FiltermistXcel2 in the most convenient location adjacent to the machine.