



MICRO AIR MX6000

Oil and Coolant Mist Collection

CLEAN AIR SOLUTION REPORT

Application: Oil / Coolant Mist—Machining

Location: Boise, ID

Products: MX6000 configured for Oil/Coolant Mist Collection

Project Scope:

Micro Air was called in by Finishing Consultants to help provide a solution for a customer who had previously spent \$500,000 on a Trion filtration install that failed miserably, due to using old electrostatic technology to filter the mist accumulating in their shop air. The mist and metal chips would quickly cause the ionizers to short out and render the units useless for filtering the air. The Trion units would capture the mist, but exhaust the mist back into the shop air and circulate it, rather than filter it.

Solution: Micro Air used a very custom approach, using MX6000 bag units, equipped with an oil mist capture configuration, equipped with oil drains and a combination of Mist-X Chevron style pre-filters and 95% efficient bag filters. Due to the heavy nature of the application, we also incorporated scrim after-filters. Micro Air incorporated a Kice cyclone as a metal chip dropout and a 20HP remote mount fan and exhaust silencer, powered by a variable frequency drive to control the motor speed.



Mist Laden Shop Air Before Micro Air Installation



Cyclone Room for Chip Drop-Out



MX6000 Filter Room



Mist-Free Shop Air after Micro Air Installation

Micro Air Advantage:

ACECO works 24/7, in most cases and has had the full system up for several months now, and is quite pleased with the performance and outcome of the Micro Air solution.

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