

DCH-1 – DRY & WET GRINDING DUST MACHINE-O-MATIC

lev-co

> CASE STUDY

THE LOCAL EXHAUST & VENTILATION COMPANY®



APPLICATION

Machine-O-Matic needed an exhaust solution for four (4) dry grinders and one (1) wet grinder for machining parts made from (two grinders work at the time):

- Zinc Permold ZA5 alloy
- Cast with brass or steel inserts
- Zinc die cast #3 alloy

SOLUTION

Source Capture: - The dust is captured at source by specially designed and very well oriented small local hoods.

Convey/Transport of dust: - Once captured the dust is transported flexible and rigid duct system at 3500 - 4000 FPM (NFPA Guideline). The duct is fully welded and sealed.

Exhaust: - The heart of this solution is the DCH-1 Cartridge Collector using washable & replaceable filter cartridges to filter the dust. The dust settles inside the "Hopper" and the cleaned air is re-circulated back into the facility saving heat and energy.

DESCRIPTION

- One (1) DCH-1 Cartridge Collector
- One (1) Duct system – Ø4" hose + STD. spiral 18 gauge duct - 2.0D radius elbows fittings and blast gates
- Four (4) Small local hoods mounted on the grinding wheel's shroud
- One (1) Modified grinding wheel shroud to serve as local hood for the dry grinder
- One (1) Installation and start-up by LEV-CO

INDUSTRY

Machine-O-Matic, a division of Beaver Machine Corporation, has been in the manufacturing business of producing high and low volume aluminum and zinc castings for over 40 years.

TESTIMONIAL

"We were looking for a simple and efficient solution to exhaust our wet and dry grinders. LEV-CO came up with a turn-key solution: - suction + contaminant transport + filtration. They designed and installed a solution that works seamlessly with our process, a good job overall!"

Detlef LANGE,
Tool Room Manager,
MACHINE-O-MATIC

