KOGI Environmental Solutions

Case Study

Optimizing Dust Control for CNC & Sandblasting Operations

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Optimizing Dust Control for CNC & Sandblasting Operations

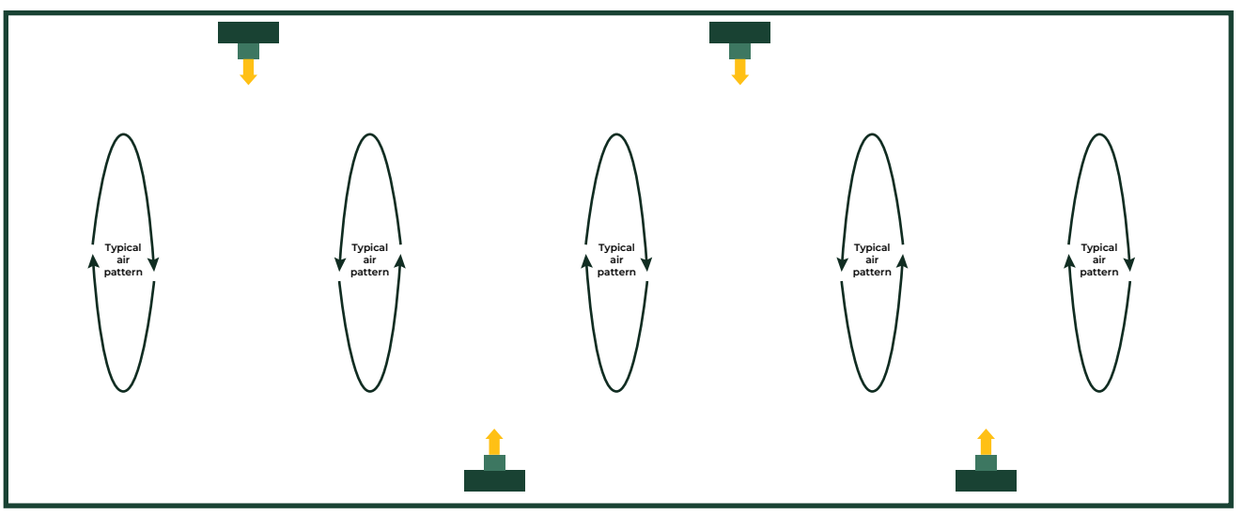
The Challenge

A leading metal manufacturing facility faced a significant issue: their CNC machining and metal finishing (sandblasting & grinding) departments operated in close proximity, causing dust migration from the sandblasting area to the CNC machines. This airborne dust posed a serious risk of excessive wear on CNC moving parts, potentially increasing maintenance costs and reducing operational efficiency.

The Solution

To tackle this challenge, the company partnered with Kogi Environmental Solutions to design a customized dust control system that included:

- A dedicated dust collection system to efficiently capture airborne particles.
- A high-quality curtain enclosure to contain sandblasting dust and prevent cross-contamination.
- Hanging dust collectors to maximize space efficiency while effectively extracting dust within the enclosed area.
- The hanging air cleaners were installed in the space to create a rotating air flow where each unit pushes air to the next, which in turn pulls the contaminated air in, filters it, and then pushes it out to the next air cleaner, maximizing the cleaning effect



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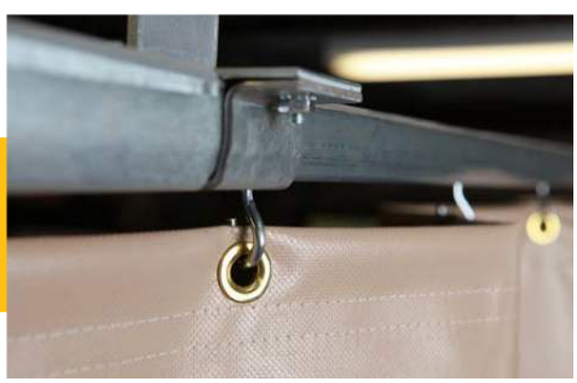
Pick flexible curtain walls over permanent construction

Constructing walls in a facility is expensive and time consuming, leaving you with a permanent structure that can't adapt to changing processes.

Curtain Walls have been increasing efficiency of spaces, allowing walls to move where current tasks need them.



Mounting hardware is also available for increased flexibility & efficiency

Curtain Walls come delivered with track & hardware to fit your dimensions & layout, with the ability to be reconfigured as needed, providing smooth, easy movement of all curtain systems for years to come.

The Result

The customer was extremely satisfied with the outcome, as the tailored dust control solution enhanced workplace safety, equipment longevity, and overall operational efficiency.

- Nuisance dust was eliminated, preventing it from migrating into the CNC area.
- Reduced wear and tear on CNC machinery, lowering maintenance costs.
- Improved air quality and worker safety, ensuring compliance with industry regulations.
- Increased efficiency and productivity, allowing both departments to operate seamlessly.

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Looking for more details?
Let us guide you!

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