KOGI Environmental Solutions

Case Study

Robotic Welding Fume Extraction

Explore our industrial air quality services in USA and Canada

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KOGI Environmental Solutions

Robotic Welding Fume Extraction
Modular capture & filtration for a robotic welding cell

Project Overview

Kogi Environmental Solutions designed and installed a weld fume extraction system and fume capture hood for a customer doing robotic welding.

The system needed to be capable of handling fumes from robotic welding, but also modular and compact. KES designed a system to capture fumes while keeping out of the work envelope of the robots.

The hood had to be sized to capture fumes over a large area, so curtains were added to assist in the fume capture. A spark trap and fire suppression system were included in the design for safety and the entire system will be connected to the robot controls so that it can operate on demand.

System Highlights

Application
Robotic welding fume extraction

Fume containment
Curtains added to the hood perimeter to improve capture efficiency

Controls
Tied into the robot controls to operate on demand, filtration runs only when needed

Hood design
Modular, compact hood sized to capture fumes over a large area while staying clear of the robots' work envelope

Safety
Integrated spark trap and fire suppression system

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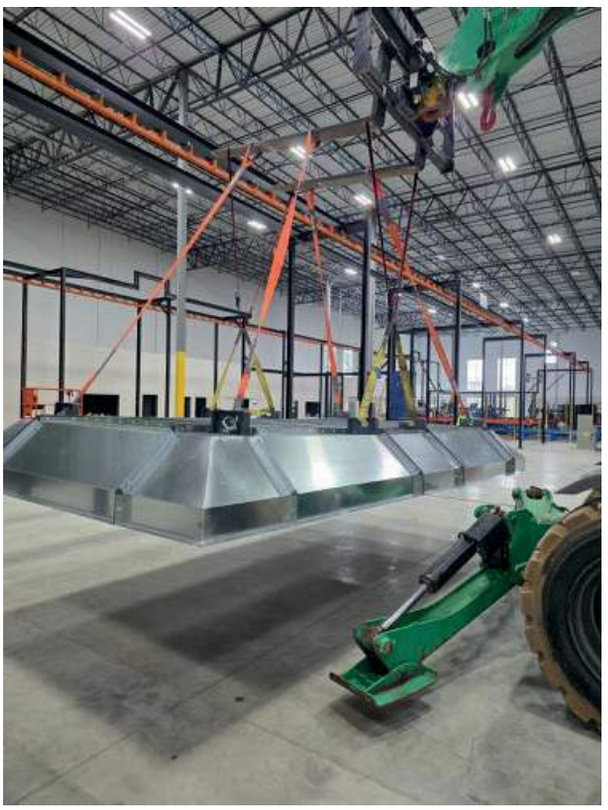
From Delivery to Installation

A look at the system coming together on site, from equipment arrival through final installation above the robotic welding cell.

Clean Air Industries / AMTECH dust collector on delivery



Capture hood sections rigged and ready for installation

Have a weld fume extraction challenge?

Kogi Environmental Solutions designs modular, application-specific capture and filtration systems for robotic welding, manual welding, plasma cutting, and grinding. Reach out to start a conversation about your process.

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Looking for more details?
Let us guide you!

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