

## Project Details

Client: **Dana Corporation**

Design Professional: **Smith-Boughan Mechanical Services**

Services Provided: **Engineering, Fabrication & Construction – Sheet Metal**

Market: **Industrial Manufacturing**

Location: **777 Bible Road Lima, Ohio**

## Project Summary

Smith-Boughan was approached by Dana Corporation to replace an existing dust collection system that was serving one of their bead blasting operations that was a safety hazard because it would occasionally catch fire due to dust and insufficient velocity through the duct.



- Field survey
- Generated 3D CAD model
- Prefabricated large, manageable duct sections for efficient installation.
- Installed a wet dust collection system to eliminate dust and consequently eliminate the risk of fire.
- Designed a duct system that included blast gates and an air bleed damper to maintain adequate velocity.
- This new design would keep particulate matter airborne thus reducing the chances of clogging the system.

Due to Smith-Boughan's ability to visualize the project beforehand, it was completed in a timely manner, minimally affecting production.

*[Dana is a leading supplier of axles, driveshafts, structural, sealing and thermal management products for global vehicle manufacturers. Our people design and manufacture products for every major vehicle producer in the world.]*