

Project Profile



Donsco, Inc.
Wrightsville, PA
Scope:
Plant Reconstruction/Dust
Collection System

Project Spotlight

Donsco, Inc.

Plant Reconstruction/Dust Collection System

Less than six months after suffering a massive fire in June of 2018, which shut down most of Donsco, Inc.'s Wrightsville, Pennsylvania foundry operations, they began to rebuild. New melting, molding, and conveyor systems were erected as the building was constructed around Donsco's foundry equipment. James CRAFT & Son was contracted to design and install the industrial dust collection system throughout the facility.

Massive 10-gauge galvanized metal round ductwork was specified, so a substantial structural support system had to be welded to the building structure, with some individual 10-foot sections weighing 1,300 pounds each. Ducting was also run inside the building to each piece of production equipment with some requiring a spiderweb of fittings to hit every connection point. Most connections to the equipment were bolted or welded directly to equipment hoods, each with a blast gate for air balancing. Flexible connections were not permitted so special angle fittings were used to allow equipment to move freely.

The completed project resulted in 5,026 linear feet—almost one mile—of heavy gauge duct with 570 fittings. 142,000 pounds of metal was used to fabricate the duct, which equates to nearly 24 Chevy Silverados or two M-1 tanks. With the steel melting chambers burning at 2,500 degrees Fahrenheit in the middle of summer, it created an extremely hot environment to install duct, especially at higher elevations. A job well done to Lee Slagle, Mason Mowrer, Jason Smith, and Jake Stough for withstanding all that came with this challenging project.

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