

## Duct Design: High Velocity P-171

Design of large ducting with high velocity for

- Power Plants
- Waste Incineration Plants
- Sludge Incineration Plant
- Steel Mills
- Buildings (Special cases)

Design of high velocity ducting system for e.g., air and flue gas for flow optimization and removal of flow induces turbulences.

- Bend/Elbows with guide vanes
- General Flow distribution optimization with guide vane.
- Instable Vortex Flows removal
- Back Pressure reducing design.

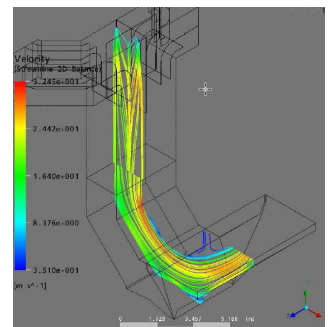
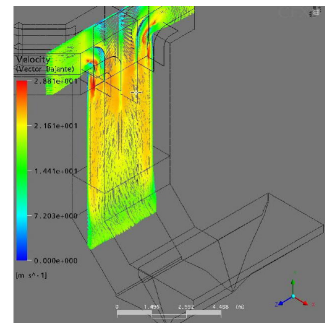
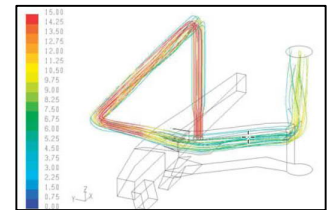
The design work covers from basic to detailed design. Detailed design includes e.g.:

- General Duct Drawings for Manufacturing
- Sound Attenuators (Absorption, Quarter wave)
- Hatches, Measuring Nozzles, Internal Safety Measures
- Reinforcement Sizing and Buck stay Corners
- Support Structure Design
- Flexible Joint Design,
- High Dust content Design

P-Engineering uses e.g. [AVEVA PDMS](#) Software for 3D design with own detailing applications for ducting.

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Top Picture: Power Plant at [Presbyterian Hospital New York \(NYC\)](#); Second Picture: Biomass Fired Power Plant [Fynsværket \(DK\)](#); Bottom Pictures: Coal and Biomass fired Power Plant [Amagerværket, Vattenfall now HOFOR \(DK\)](#)