



## INDUSTRIAL STACK SYSTEMS

VG Engineering designs and supplies industrial exhaust stack systems in accordance with U.S. and Canadian codes, regulations and standards together with the customer specifications for optimal performance and easy site installation and maintenance activities.

Our experienced engineers fully validate designs using in-house data together with CFD, FEA and dispersion modelling based on; exhaust gas chemical composition, flow, thermal and structural requirements.

Free standing stacks include seismic calculations and analysis of vortex induced loads to determine the optimum configuration.

Stack systems are provided for new, retrofit, replacement and upgrade for boiler systems

### Industrial stack systems are configured for a range of requirements:

- Low pressure loss - high performance - maximum efficiency
- Modular designs for easy site assembly
- Cylindrical and square stack designs
- Single and double wall stacks
- High Temperature Insulated and refractory linings
- Minimal foot-print to optimize use of available real estate.
- Monitoring ports
- Access for maintenance—walkways, ladders
- Supporting structures



## INDUSTRIAL STACK SYSTEMS

Stack systems are custom designed and constructed at VG Engineering Inc. dedicated facilities for each application to ensure compliance with statutory and customer requirements.

### Duct and Stack Features Include:

- All welded, heavy duty construction.
- Factory applied protective finish for long life
- Various protective finishes
- Aerodynamically optimized shape and assembly techniques
- Structurally designed for long life in high temperature cyclic conditions
- Carbon steel, stainless steel, COR-TEN® steel and other alloys to suit requirement
- Access hatches and drains (as required)

### Options:

- Test and Measuring Points
- Support structures
- Expansion Joints
- Access Points, Walkways and Ladders
- Filter Units
- Integrated acoustic components
- Integrated acoustic components
- Weather Hoods



**APPLICATIONS INCLUDE:** POWER GENERATION & UTILITIES | REFINERIES AND PETROCHEMICAL PROCESSING FACILITIES | UTILITIES | INDUSTRIAL PROCESS PLANT | HOSPITALS | INCINERATION AND RECYCLING PLANT | OVENS & FURNACES | FOOD PROCESSING FACILITIES