



Heavy Assembly & Test

Elliott turbomachinery is engineered, manufactured, assembled and tested at our Jeannette facility. We provide customers worldwide with API and ASME compliant testing for centrifugal and axial compressors, steam turbines and gas expanders. Testing ranges from basic no-load mechanical operation to full-load testing of large compressors for LNG service. Aerodynamic performance ranges from single stage units to large, multiple sidestream refrigeration compressors.

General Capabilities:

- ◆ Steam system: 120,000 lbs./hr.
- ◆ Electrical service: up to 32,000 hp for motor with VFD
- ◆ Natural gas supply for gas turbines up to 125,000 hp
- ◆ Dedicated cooling tower
- ◆ Centralized 650 gpm lube oil system
- ◆ Three dual-hook overhead cranes: 150-ton tandem lift capacity
- ◆ Two 75-ton capacity cranes
- ◆ One 30-ton capacity crane
- ◆ Steam turbine, VFD and VSD drivers with multiple drive gears
- ◆ A range of test gas coolers up to 200,000 hp
- ◆ Dry gas seal systems for control and performance monitoring
- ◆ Hydrostatic pressure test system
- ◆ High-capacity vacuum system for evacuated mechanical testing
- ◆ Test stand pits from 13 to 30 ft. deep

VFD Motor Test Stands:

- ◆ One 16,000 hp constant torque VFD motor
- ◆ Two 3,000 hp constant torque VFD motors
- ◆ Permanent gas cooler and test loop piping
- ◆ Interchangeable flow measuring sections and control valves
- ◆ Easily adaptable structural support system
- ◆ Centralized pre-piped dry gas seal systems
- ◆ Independent lube oil delivery control systems
- ◆ Multiple gears for compressor speeds to 16,000 rpm
- ◆ Pre-connected auxiliary systems (gas supply, cooling water, vacuum)
- ◆ Accommodates up or down nozzle configurations

Small & Medium Frame Assembly Area:

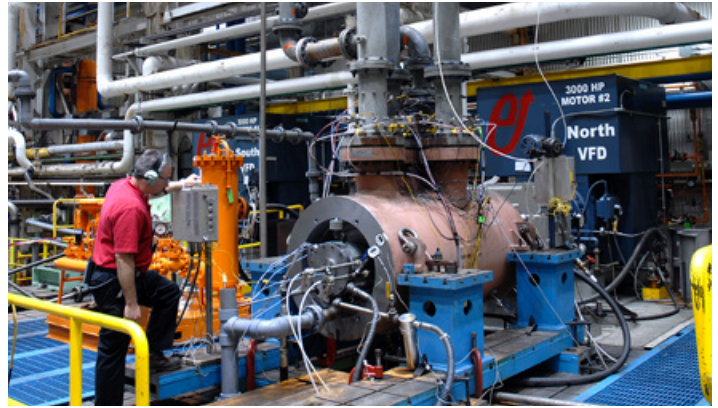
- ◆ Dedicated assembly area for small and medium frame compressors and steam turbines
- ◆ Systematic parts staging
- ◆ Adjacent to test area
- ◆ 40-ton main crane, multiple sub-assembly cranes
- ◆ Quick set-up for hydrostatic pressure testing



Multiple projects on test floor in Jeannette

Test Data Monitoring and Acquisition:

- ◆ Data acquisition systems for collection of mechanical and performance data
 - Bently Nevada 3500 monitoring systems
 - Bently Nevada 408 ADRE system for vibration analysis
- ◆ Precision pressure, temperature, speed, and gas analysis measurements
- ◆ Aerodynamic performance calculations with graphical illustration of results
- ◆ Machinery diagrams for visual association
- ◆ Preset alarms or trip conditions for critical variables



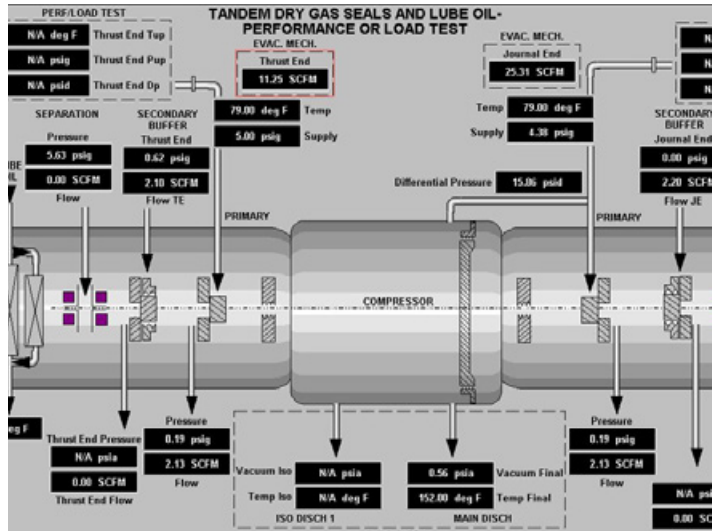
VFD motor test stand



Monitoring station records real-time data



Assembly area for small and medium compressors and turbines

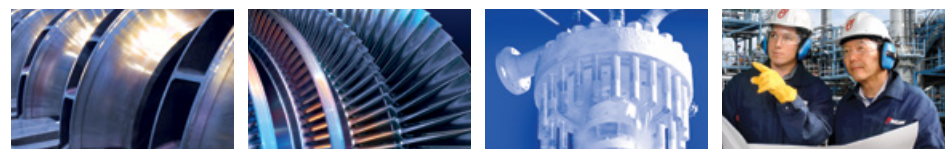


Advanced technology for data acquisition



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T H E W O R L D T U R N S T O E L L I O T T



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