



# Pittsburgh Service Center

The Elliott service center in Donora, Pennsylvania, 25 miles south of Pittsburgh, focuses on the chemical, petrochemical, oil & gas processing, and steel industries of the northeastern United States. The 100,000-square-foot facility is fully equipped and staffed to service all makes, models, and types of rotating equipment. It is easily accessible by Interstate 70, railway, and river barge.

The shop's award-winning bearing cell team produces Elliott tilting-key bearings, spherically seated bearings, and thrust bearings from inventory components for rapid response. The facility also specializes in the following areas of rotating equipment service:

- ◆ Single- and multi-stage steam turbine repairs
- ◆ Centrifugal compressor repairs
- ◆ Expander repairs and overhauls
- ◆ Gearbox repairs
- ◆ Impeller manufacture and repairs
- ◆ Bucket and blade repairs and/or replacements
- ◆ Diaphragm and casing restoration
- ◆ Innovative weld repair technology
- ◆ Dynamic rotor balancing and vibration analysis
- ◆ Full nondestructive testing by Level II technicians
- ◆ Custom parts manufacturing
- ◆ Specialty shop machining
- ◆ Stress relieving, metallizing, and spray coating
- ◆ Equipment upgrades and rerates
- ◆ Re-engineered modifications
- ◆ Inspections and overhauls

When a critical piece of turbomachinery fails, Elliott Pittsburgh is equipped to respond quickly. Customers turn to our experienced, dedicated engineers, technicians, welders, and machinists who have the engineering expertise and industry knowledge to keep your equipment operating at peak performance with low maintenance costs.

Elliott service centers are registered to ISO 9001 or have structured quality management systems. Elliott can provide you with a single, comprehensive source for all your turbomachinery service needs, regardless of the original equipment manufacturer (OEM).



*Positioning a large multi-stage steam turbine rotor in inspection area.*



*High bay area for heavy machining and assembly.*



*Preparing a large, single- and double-flow, low-pressure rotor for a sling check.*

## Facility

- ♦ 100-ton maximum lifting capacity, 28 feet under hook

## Boring Mills

- ♦ Vertical boring mill: maximum 18-foot swing, 110-inch table diameter, 96-inch maximum height
- ♦ Horizontal boring mill: maximum 92-inch x 55-inch table, 5-inch spindle

## Lathes

- ♦ Maximum 130-inch swing, 35 feet between centers

## CNC

- ♦ 2-axis plus C-axis lathe with 12-position turret and live tooling in all positions, 36-inch swing and 79-inch machining limit
- ♦ Twin-spindle, 5-axis, integrated mill (ITG)
- ♦ Vertical turning lathe
- ♦ Vertical milling center

## Dynamic Balancing

- ♦ Maximum 128-inch swing, 75,000 pounds, 2- to 20-inch journal range

## Other Capabilities

- ♦ Welding: TIG, Stick, MIG, Pulse TIG, Sub-Arc
- ♦ Cylindrical grinder: maximum 24-inch swing, 16-inch side-to-side travel, and 10 feet between centers
- ♦ Nondestructive testing capabilities: magnetic particle, liquid penetrant, and ultrasonic
- ♦ Babitting equipment
- ♦ Portable, digital, coordinate measuring machines (CMM)



*Machining various sizes of bearing components.*



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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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