



# Western Canada Service Center

Elliott's 40,000 square-foot service center in Edmonton, Alberta provides comprehensive turbomachinery service for the energy, petroleum, refining, (oil sands) mining, and oil & gas industries throughout western Canada.

The facility is staffed with certified personnel experienced in repair techniques and procedures for any type of rotating equipment. The Western Canada service center also offers a specialty machining shop and climate-controlled, vertical rotor storage. The rotor storage center gives customers rapid access to their spare rotors to minimize downtime during scheduled or unscheduled maintenance or repair.

Elliott offers comprehensive service and support for all types of turbomachinery regardless of the original equipment manufacturer (OEM). The Edmonton service center provides the full array of turbomachinery services including:

- ◆ Single- and multi-stage steam turbine repairs
- ◆ Centrifugal compressor repairs
- ◆ Inspections and overhauls
- ◆ Dynamic rotor balancing and vibration analysis
- ◆ Full nondestructive testing by Level II technicians
- ◆ Bucket, blade, and impeller repair and replacement
- ◆ Diaphragm and casing restoration
- ◆ Equipment upgrades and rerates
- ◆ Re-engineering modifications
- ◆ Mixer, centrifuge, extruder, and fan blower repairs
- ◆ Complete turbocharger overhauls and repair
- ◆ Blower repair
- ◆ Centrifugal pump repair

Elliott service centers are registered to ISO 9001 or have structured quality management systems. The Edmonton location provides installation, maintenance, repair, overhauls, parts, rerates, modifications, and training. Our service teams have the experience and expertise to keep equipment performance high and maintenance costs low.



*Balancing a multi-stage steam turbine.*



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



*Loading a disc to be machined to a thickness with a tolerance of (+/-) 0.001 inch.*

## Facility

- ♦ 30-ton maximum lifting capacity, 23 feet under hook
- ♦ 6,400-square-foot climate-controlled rotor storage area

## Boring Mills

- ♦ Vertical boring mill: maximum 139-inch swing, 108-inch table diameter, 57-inch maximum height
- ♦ Horizontal boring mill: maximum 8-foot x 8-foot table, 5-inch spindle

## Lathes

- ♦ Maximum 98.5-inch swing, 42 feet between centers

## Dynamic Balancing

- ♦ Maximum 94-inch swing, 40,000 pounds, 8- to 15.75-inch journal range

## Other Capabilities

- ♦ Blast cleaning room: 4,140 cubic feet
- ♦ Surface grinder: 40-inch x 16-inch, 14-inch wheel diameter
- ♦ Nondestructive testing capabilities: magnetic particle, liquid penetrant, and ultrasonic



*Bird's eye view of Western Canada shop.*



*Rotor storage hanging capacity 10-ton x 18-feet long.*



*Machining a shaft, journal areas concentric 0.0002..*

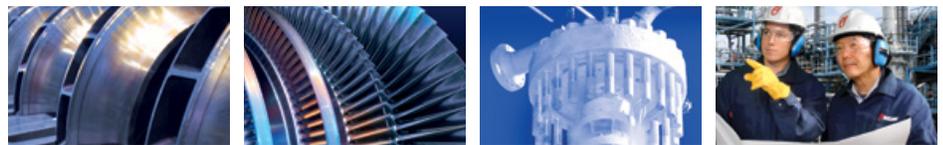


2024 - 87th Avenue  
Edmonton AB T6P 1L4  
Phone: 780-449-3080  
Fax: 780-449-3081  
Email: [info@elliott-turbo.com](mailto:info@elliott-turbo.com)

[www.elliott-turbo.com](http://www.elliott-turbo.com)

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