

Taiwan Service Center

Elliott Group's 2,450-square-meter repair facility in Taichung, Taiwan provides comprehensive turbomachinery services for customers in the oil & gas, refining, and petrochemical industries across the Asia Pacific region.

Elliott Taiwan is fully staffed by qualified personnel with diverse expertise in the repair of Elliott and non-Elliott equipment. Elliott's service capabilities include the replacement of impellers, buckets, and seals, complex weld repairs, and comprehensive equipment overhauls. Elliott Taiwan specializes in the following areas of rotating equipment repair:

- ♦ Single- and multi-stage steam turbine repairs
- ♦ Centrifugal compressor repairs
- ♦ Screw compressor repairs
- ♦ Boiler feed water pump and blower repairs
- ♦ Expander repairs
- ♦ Mixer and centrifuge repairs
- ♦ Gear case repairs
- ♦ Field service and overhauls
- ♦ Inspections and measurements
- ♦ Innovative weld repair technology
- ♦ Dynamic rotor balancing and vibration analysis
- ♦ Full nondestructive testing by Level II technicians
- ♦ Impeller manufacture and repair
- ♦ Bucket and blade repair and replacement
- ♦ Diaphragm and casing restoration
- ♦ Custom parts manufacturing
- ♦ Specialty shop machining
- ♦ Stress relieving and shaft straightening
- ♦ Equipment upgrades and rerates
- ♦ Re-engineered modifications
- ♦ Metallizing and spray coating
- ♦ Bearing manufacture and repair
- ♦ 3D measurement



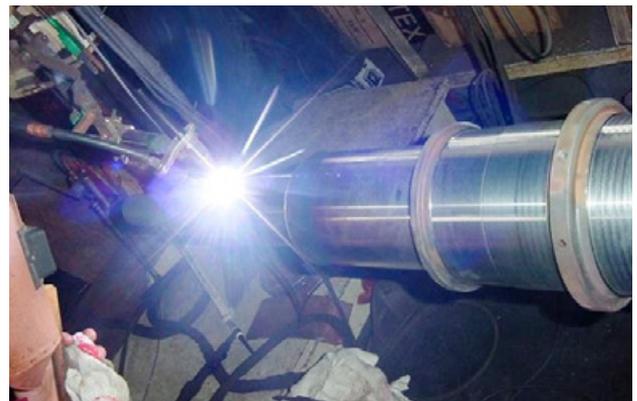
Elliott Taiwan's 2,450-square-meter repair facility features a specialty machine shop



Balancing a 20.5-ton turbine rotor at Elliott Taiwan.



Preparing to balance an Elliott 25M impeller in a spin pit.



An Elliott technician TIG welding a turbine rotor.

Facility

- ♦ 25-ton maximum lifting capacity, 8 meters under hook

Boring Mills

- ♦ Vertical boring mill: maximum 2,000-millimeter swing, 2,400-millimeter table diameter, 800-millimeter maximum height
- ♦ Horizontal boring mill: maximum 2,000-millimeter x 1,800-millimeter table, 125-millimeter spindle

Lathes

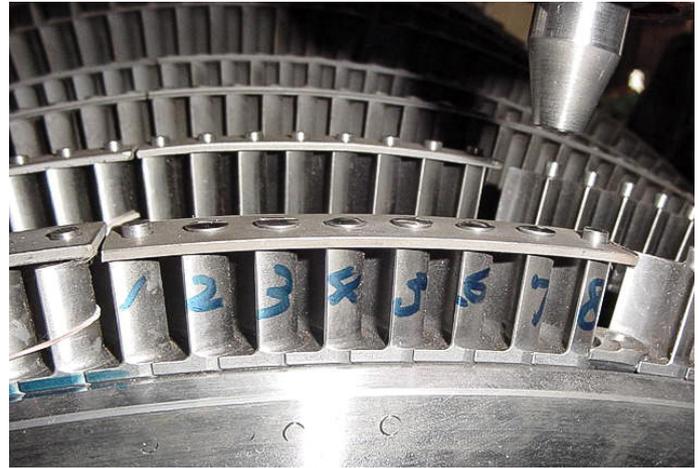
- ♦ Maximum 2,000-millimeter swing, 8,000 millimeters between centers
- ♦ Maximum 2,150-millimeter swing, 1,600 millimeter vertically, with 10-ton load capacity

Dynamic Balancing

- ♦ Maximum 3,250-millimeter swing, 22,000 kilograms, 75- to 610-millimeter journal range

Other Equipment

- ♦ Welding: TIG, MIG, SAW, SMAW, and Oxy-acetylene
- ♦ Nondestructive testing capabilities: ultrasonic testing, magnetic particle, and liquid penetrant
- ♦ Blast cleaning booth: 6,250-millimeter x 4,000-millimeter
- ♦ Over-speed spin pit: 30,000 RPM, 1,500-millimeter diameter, and 650-kilograms
- ♦ Positive metal identification (PMI)
- ♦ Portable, digital, coordinate measuring machines (CMM)



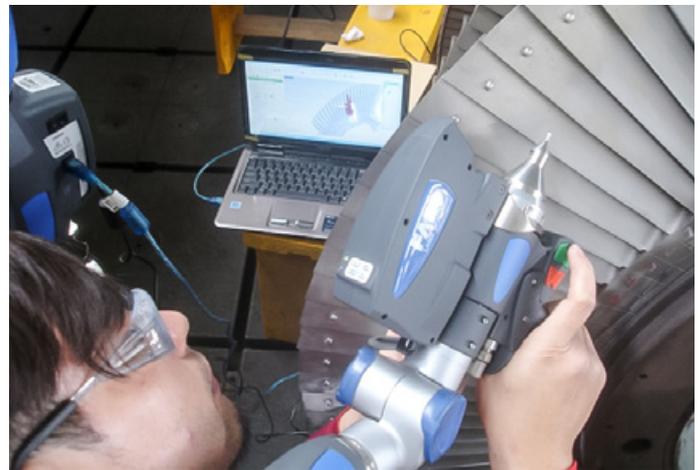
Peening a steam turbine rotor at Elliott Taiwan.



Disc buildup of a steam turbine rotor using submerged arc welding.



An Elliott field service crew removing an upper compressor casing.



An Elliott technician measuring turbine blades using a FARO arm.



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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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