

SULZER

Maitland service centre

Staffed with highly experienced engineers, project managers and technicians, Sulzer Maitland service centre in New South Wales has 2,300 sqm of shop space that offers complete mechanical, machining and welding capabilities. The service centre is fully equipped to maintain and repair a wide range of steam turbines, pumps, gas turbines, compressors, electro-mechanical and heavy equipment for customers in power generation, oil & gas, petrochemical, mining, water, sugar, pulp & paper, defence and other heavy industries.



About Sulzer Maitland

This full-fledged service facility is steeped in history, with operations first starting back in 1991 under Alstom and subsequently General Electric. In 2021, Sulzer acquired the facility along with the full transfer of the experienced service team. Under the new stewardship of Sulzer, along with its rich OEM engineering heritage for pumps manufacturing, the service centre has expanded its service capabilities to centrifugal pumps, offering comprehensive aftermarket services from spare parts, maintenance to reverse engineering and retrofits. With the wealth of experience and expertise within its ranks, Sulzer Maitland has serviced few hundreds of steam and gas turbines, pumps and compressors to date.

Key industries we serve



Power generation



Downstream oil and gas



Water



Mining and metals



Pulp and paper



Sugar production

Resource & capability

Power generation equipment from all states of Australia along with the largest installed in New South Wales (NSW), are processed through the Maitland Service Centre which comprises of a main and an auxiliary bay. The main bay is predominantly used to process steam & gas turbines and turbogenerators, equipped with in line overhead cranes, lathe, clean conditions, boring, milling machines and more.

On the other hand, the Auxiliary Bay is used to process all other industrial equipment and components such as rotors, casings, valves and fabricated components etc. It is equipped with smaller cranes, lathes, clean conditions, boring, milling and balancing machines, just to name a few. The technical team has demonstrated capability to repair and refurbish process pumps, hydro shafts, impellers, casings, compressors, ID fans, single & multistage petrochemical rotors, fans, valves just to name a few.

Authorized service provider/distributor for: Siemens, ABB, Cummins, Marelli Motori, Nidec Industrial Automation, Taiyo Electric, WEG, Suzlon Energy, TD Power systems

Service overview

Pump services

Inspections and overhauls
 Root cause analysis
 Dynamic balancing
 Upgrades and retrofits
 Pump replacement
 Online Performance Monitoring with BLUEBOX
 On-site Field Services
 Long-Term Service Agreements
 OEM-X expertise

Turbomachinery services

Rotor inspection and repair
 Re-blading and re-stacking
 Dynamic balancing
 Overhaul of compressors and blowers
 Overhaul of turbines and expanders
 Overhaul of gearboxes
 Overhaul of fans
 Casing repair and machining

Electromechanical services

Motor repairs
 Generator services
 HV coil manufacturing
 Motor and generator rewind services
 Machining
 Bearing services
 Control systems evaluation
 Unit reconditioning
 Electrical BOP and ancillaries
 Large rolling elements

Retrofits
 Aftermarket spare-parts

Reverse engineering
 Maintenance, overhaul and field services
 Long term service agreements
 Inspection and analysis





Equipping & specifications

Specifications / Equipment	Model/ Type	Capacity
Floor area		2300 sqm
Crane	Overhead gantry	2 x 60 tons 2 x 12.5 tons
Aux winches		10 & 15 tons
Large machine tools and balancing machine		
Portable dynamic balancing machine	IRD B140	90 Tons, adjustable
	IRD B200	8 Tons, adjustable
Rigid Bearing Dynamic Balancing Machine	Schenck	12.5 Tons
	Froriep	100T x 4.2m swing x 15m bed
	VDF	8T X 0.8m swing X 1m height
	Hafco CK80	3T x 0.6m swing x 3m bed
Fixed lathe	Chinghung	
	Richards	12T x 2.6m swing x 2m height
	Schiess	5T x 1.3m swing x 2m height
Vertical borer	Webster & Bennett	2T x 0.8m swing x 1m height
	Union WMW	100T x 3m height x 7m bed
Horizontal borer		
Bed Mill	Mecof	10T x 6m bed
	Alstom	20m x 7m
Clean conditions	Recoil	6m x 4m

Other major equipment/facility: Large blast and paint chamber • Large vacuum clean room • NDT equipment • 3D scanners • Complete field servicing equipment • Fully equipped machine shop • Complete engineering and CAD tools • Containers for on-site work

Certifications

- ISO 9001, 14001, 18001
- AS/NZS 3800
- MLA086957



Drills



Lathes



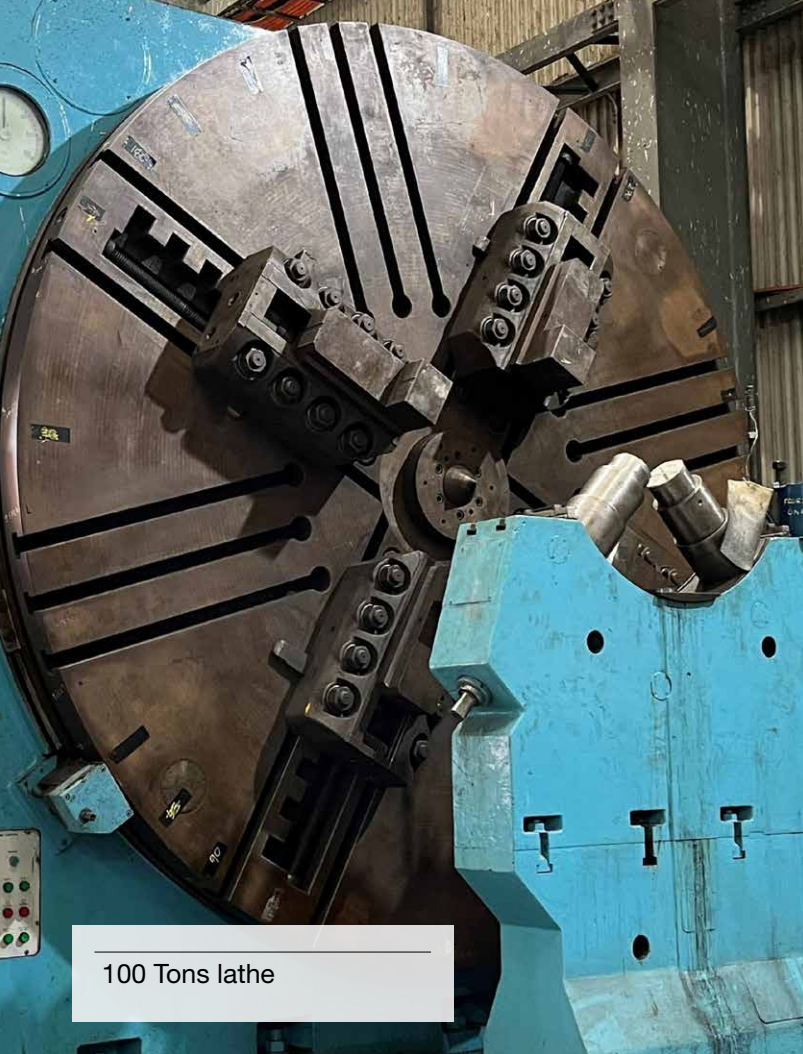
Vertical borers



12.5 Tons Rigid Bearing Dynamic Balancing machine



90 Tons Portable adjustable balancing machine



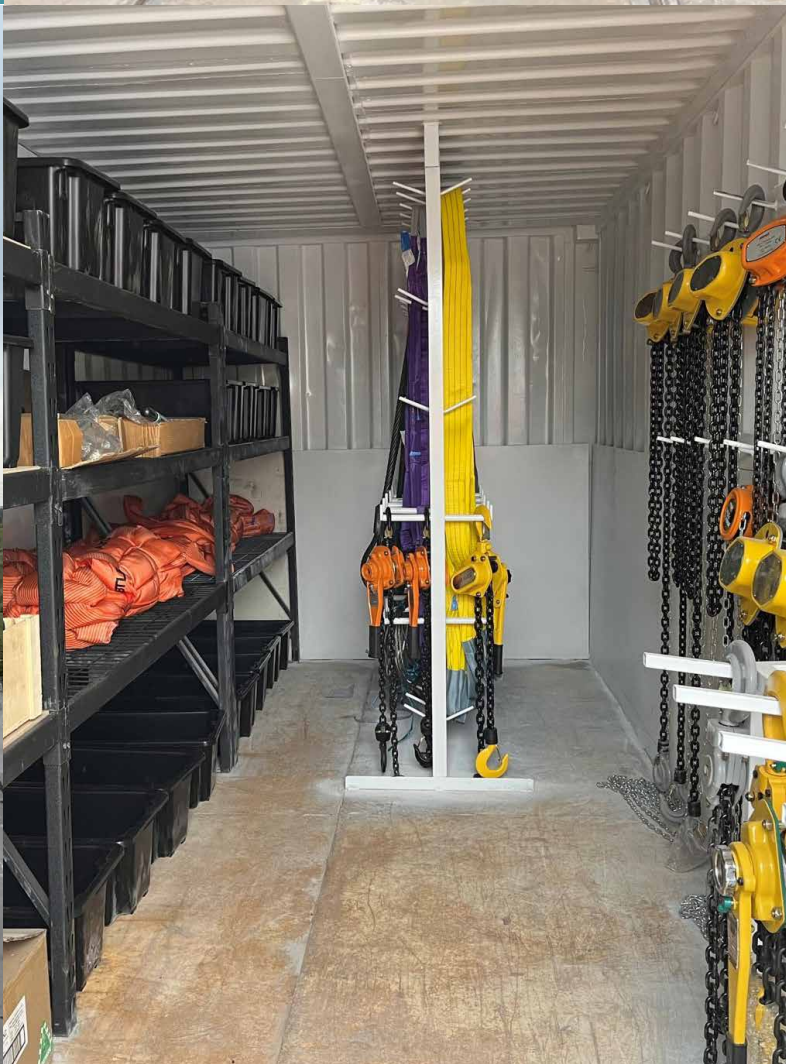
100 Tons lathe



Blast cleaning facility



Containers for on-site work



Case study: Turnkey overhaul for OEM-X centrifugal pumps

Customer: Top 3 power utility player in Australia

Location: New South Wales

Industry: Thermal Power generation

Key services: Maintenance & Repair, field services, inspection & analysis, retrofit



Challenge

The 2640MW power plant commissioned in 1986 started to show its age, with its various pumps declining in efficiency, performance and reliability. Sudden failures put stress on the overall plant's production reliability and called for quick response. In addition, cooling water pumps, with their sheer size and capacity require unique expertise and facility for servicing. The plant's pump installed base includes various OEMs' pumps, the plant was seeking for an expert service provider who could deal with various brands to minimize hassle and associated costs.

Solution

Sulzer's deep engineering expertise and heritage as a pump OEM was a clear choice for the power plant. Maitland service centre dealt with 3 different OEMs' pumps with the following scope:

- Strip, inspect, repair and rebuild Worthington cooling water pumps in a few days after catastrophic failure and loss of site capacity.
- Overhaul of cartridge and spare rotating element for Ebara boiler feed pump, with engineering and manufacturing of new shaft by Sulzer.
- Overhaul of Flowserve main cooling water pumps and auxiliary water pumps, applying ceramic coating to reduce future erosion and improve efficiency.

Impact

Immense benefits derived by dealing with one service provider through Sulzer and its state-of-the-art service centre in Maitland, with excellent track-record and expertise in dealing with pumps of all brands and makes. Associated manhour and logistics costs were greatly reduced due to local support through Maitland. With pumps getting their well-needed servicing and retrofit modifications, it ensured power production reliability as well.

Case study: Rotors replacement for Generators

Customer: Refinery

Location: Queensland

Industry: Mining and metals

Key services: Rotor repair, electrical controls, Generator services, Installation & commissioning



Challenge

2 X 13 MW Generator rotors have failed in service due to electrical faults in the shaft bore. Shaft damaged areas cannot be salvaged. Conventional approach would mean procuring a new replacement which has a long lead time, equating to substantial financial losses due to non-operation. To top things off, the capital expenditure can be hefty and escalate costs.

Solution

Leveraging on Sulzer's wider network of service centres and technical expertise, the Indonesia team was engaged to support on this project by modelling the potential replacement of shaft ends by welding new stub shafts to existing.

Impact

Sulzer's in-house capabilities equates shorter lead-time, more cost effective on a maintenance perspective and enabled the generator to restart operations much faster than expected compared to a new replacement



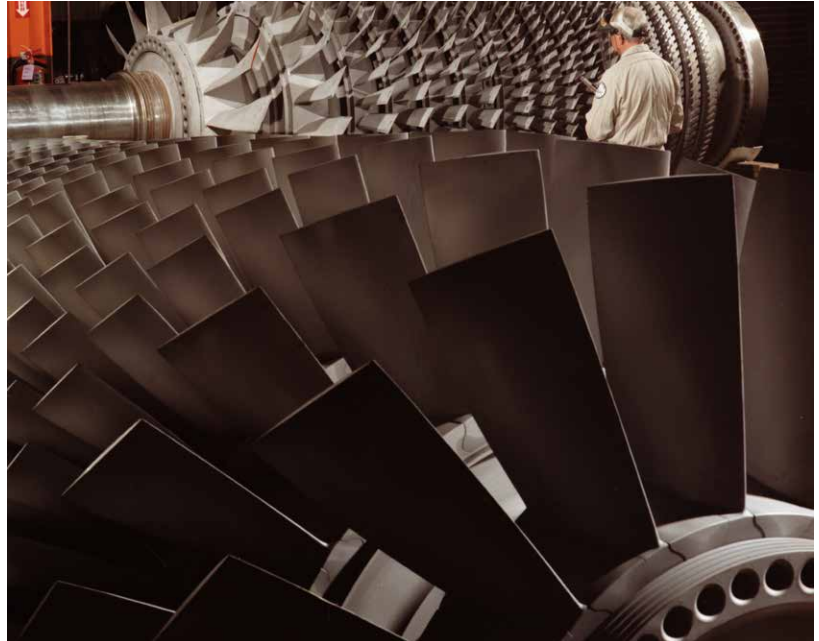
Case study: Restoration for forced outage legacy gas turbine

Customer: Gas Power station

Location: South Australia

Industry: Power Generation

Key services: Rotor repair, electrical controls, Generator services, Installation & commissioning



Challenge

Cracked compressor diaphragms, damaged 1st & 2nd stage blades and vanes due to internal object damage leading to failure of the unit and production outage

Solution

Comprehensive restoration service for 13 sets of components:

- Blades, Vanes and Combustion components Repair.
- Rotor inspections, turbine blades de-blade and re-blade.
- Diaphragms weld repair and apply anti corrosion coating.
- TFA supply for rotor disassembly work on-site.

Impact

Turnkey expertise and capacity to handle such extensive restoration work where customer is able to receive full suite of services without engaging multiple or even external vendors for such large capacity rotor at >50ton.

Furthermore, costs were minimized without sending equipment out of country. Sulzer's global in-depth experience and technical know-how for legacy gas turbines ensured an effective restoration.

Contact details

Sulzer Maitland Service Centre

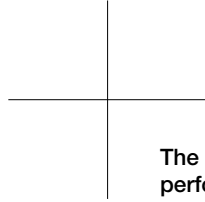
54 Junction Street, Telarah

2320 Maitland, New South Wales

Australia

Phone: + 61(2) 4932 4411





The Sulzer Services division is your partner for uptime and enhanced performance for your rotating equipment and more. Our dedicated people provide unrivalled service and expertise to meet your operational needs – anytime, anywhere.

Through a network of over 100 service sites around the world, Sulzer provides cutting-edge parts as well as maintenance and repair solutions for pumps, turbines, compressors, motors and generators. We service our own original equipment, but also all associated third-party rotating equipment run by our customers, maximizing its sustainability and life cycle cost-effectiveness. Our technology-based solutions, fast execution and expertise in complex maintenance projects are available at our customers' doorsteps.

E10760 en 5.2023, Copyright © Sulzer Ltd 2023

This brochure is a general presentation. It does not provide any warranty or guarantee of any kind. Please, contact us for a description of the warranties and guarantees offered with our products. Directions for use and safety will be given separately. All information herein is subject to change without notice.

