

# SULZER

## Mining Services for Australia

The mining industry remains the bedrock of the Australian economy, contributing close to 15% of the country's GDP. The reliability and performance of machinery which drives the extraction and production of minerals is paramount where downtime could equate to hefty monetary impact. Sulzer's established service network and depth of expertise for electromechanical equipment servicing positions us as one of the leading partners for the mining sector.



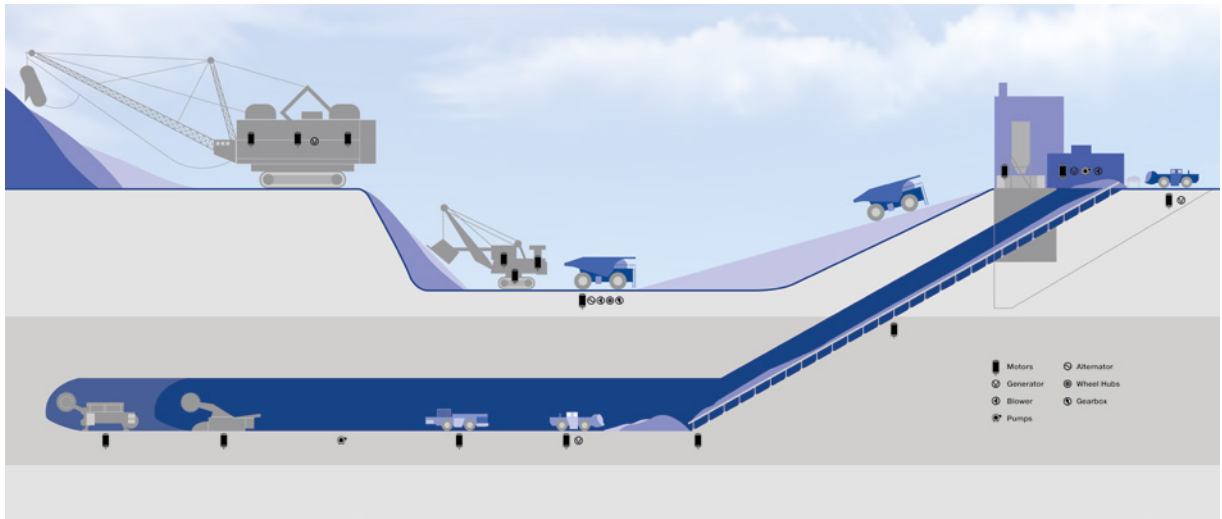
# Service overview

The mining industry is one of the most demanding. Therefore, Sulzer's Australia's network of 7 service centres in Brisbane (2), Newcastle, Maitland, Sydney, Melbourne and Perth offer a wide range of in-house and on-site electromechanical services for all industries. Our service locations for Brisbane, Maitland and Perth are equipped with supplies and expertise, dedicated to serve the mining sector. Our solutions ensure that equipment operates reliably in coal, hard rock, copper, gold, and any other mining applications.

We provide a fast and efficient service with the objective of maximizing plant efficiency and reliability whilst minimizing costs and machine downtime. Our experienced teams of multi-skilled electro-mechanical engineers can repair our equipment on site or in one of our global service centers. Many of our service centers operate a 24-hour call out, 365 days of the year to ensure we are always available when you need us.

## Authorized service provider/distributor for

Siemens, ABB, Cummins, Marelli Motori, Nidec Industrial Automation, Taiyo Electric, WEG, Suzlon Energy, TD Power systems



	AC/DC motors	DC generators	Alternators	Grid blowers	Intake fans	Gearboxes
Haul trucks	●	●	●	●		●
Draglines	●	●	●		●	●
Wheel loaders	●	●	●			●
Rope shovels	●	●	●		●	●
Shearers, shuttle cars, miners etc.	●	●				●
Coal preparation plants	●	●			●	●
Ball and SAG mills	●				●	●

# Reconditioned Exchange Programme (REP)

Mining companies invest huge sums into their equipment, which needs to deliver high output round the clock. Planned maintenance plays an important role in sustained reliability and many companies rely on it to deliver continued productivity.

Sulzer Australia is pleased to now offer AC wheel motors, Alternators and Grid Blowers to suit a range of haul trucks in our Recondition Exchange Program (REP) which minimize both downtime and investment for the customer. The wheel motors offered under Sulzer's REP are complete with brakes fitted and the utilisation charge includes the basic overhaul.

Our expertise means we offer a complete electromechanical service for heavy haul trucks. We carry out full repairs of wheel sets – servicing both electric motors and epicyclic gear reductions. A complete in-house approach ensures a reduced lead time for all repairs and a single point of contact.

Current components offered in Sulzer Australia's REP include:

- GE 5GEB25C Wheel Motors to suit Komatsu 830E-AC Haul Trucks
- GE 5GEB25A Wheel Motors to suit Terex MT4400-AC Haul Trucks
- GE 5GTA41 B and C (with upgrades to improve MTBF and reduce TCO) to suit :
  - Komatsu 830E-AC Haul Trucks
  - Terex MT4400-AC Haul Trucks
  - Komatsu 930E-AC Haul Trucks
- GE 5GEB23 Wheel Motors to suit Terex MT3300-AC Haul Trucks
- GE 5GTA22 Alternators to suit Terex MT3300-AC Haul Trucks
- GE GY19L Grid Blowers (single and dual fan units) to suit most GE, AC and DC drive Haul Trucks

Wheel motor testing



Reconditioned wheel motor exchange ready to be shipped





# Mobile equipment support

## Electric drive haul truck

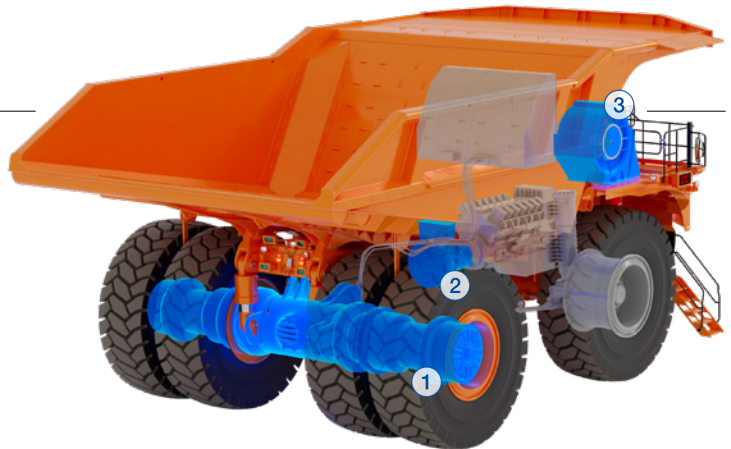
### 1 Wheel motors



- Rebuild and return of customer's cores
- Flexibility and Capabilities of modifications to suit Customer's needs.

#### Machines & components

- Komatsu 830E-AC
- Komatsu 930E-AC
- Komatsu 830E-DC
- Komatsu 730E-DC
- Terex MT6300-AC
- Terex MT4400-AC
- Terex MT3300-AC
- Terex MT3700-AC
- Liebherr T282C
- Hitachi EH3500
- Hitachi EH4000
- Hitachi EH4500



### 2 Alternator



- Upgraded with improvements to increase MTBF and reduce TCO
- Dedicated core programs tailored to suit customer's requirements
- Supported in NSW, QLD and WA

#### Machines compatible

- Komatsu 830E-AC
- Komatsu 930E-AC
- Terex MT4400-AC
- Terex MT3700-AC

### 3 Grid Blower



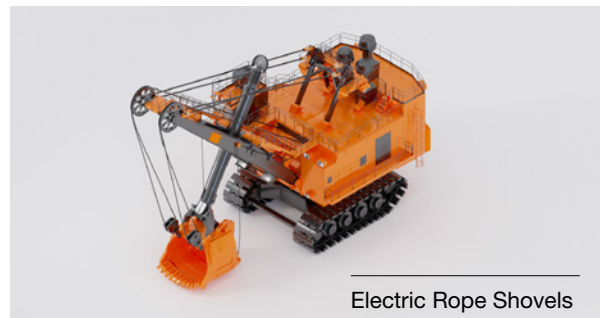
- Upgraded with improvements to increase MTBF and reduce TCO
- Dedicated core programs tailored to suit customer's requirements
- Supported in NSW, QLD and WA

#### Suit most GE, AC and DC drive Haul truck

- Komatsu 830E-AC
- Komatsu 930E-AC
- Terex MT4400-AC
- Terex MT3700-AC

## Current models serviced

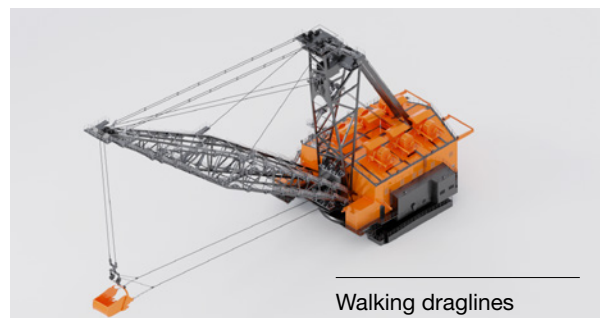
- P&H MinePro 2800XP
- P&H MinePro 4100A
- P&H MinePro 4100XPB
- P&H MinePro 4100XPC-DC
- P&H MinePro 4100XPC-AC
- Caterpillar 7495
- Bucyrus 495HD



Electric Rope Shovels

## Current components serviced

- Main Motion Motors (AC and DC)
- Generator Sets
- Brakes
- House fan Units
- Blower units
- Transmissions
- Onsite Commutator Profiling and Machining
- Onsite Motor Testing



Walking draglines

# Motor Services

- HV & LV-DC and AC motors.
- Complete repair, overhaul and rewind services for a range of motors regardless of the original equipment manufacturer.
- In-house coil manufacturing ensures a seamless service experience.
- Benefit from a global network of Ex certified service facilities with repairs for the full range of hazardous area motors.
- Life-extension of legacy equipment through rebuilds, bringing a second life to your motors with better performance.
- Saves costs on CAPEX while delivering a lower carbon footprint through optimising current equipment versus buying new equipment which incurs a much higher overall carbon footprint on supply chains.





# Robust supply of key components through our in-house production facilities and capabilities

## Coil Manufacturing

Our in-house, highly sophisticated copper rolling mill offers best-in-class inline facilities. Therefore we offer around-the-clock coil manufacturing capabilities with short lead times on copper strip. You benefit from our large stocks of continuously cast soft copper rod, which ensures that we meet your demands quickly.



Pre-production support includes computer aided design and a large database of coil winding information. This enables us to check existing designs, re-design for improved performance and to produce production drawings and process instruction sheets automatically.



## Diamond coils:

- Coils up to 6.5m
- Voltage range: LV to 16kV
- Resin Rich, global VPI and Hybrid coils for a variety of resins
- Fully designed winding kits



## Stator bars:

- Roebel transposition (180°, 360° & 540°)
- Hydro and Turbo bars available
- 7m pressing capability

## Rotor bars:

- Voltage up to 5kV
- Armature and rotor bars and coils
- Traction bars
- In house glass/Kapton covering

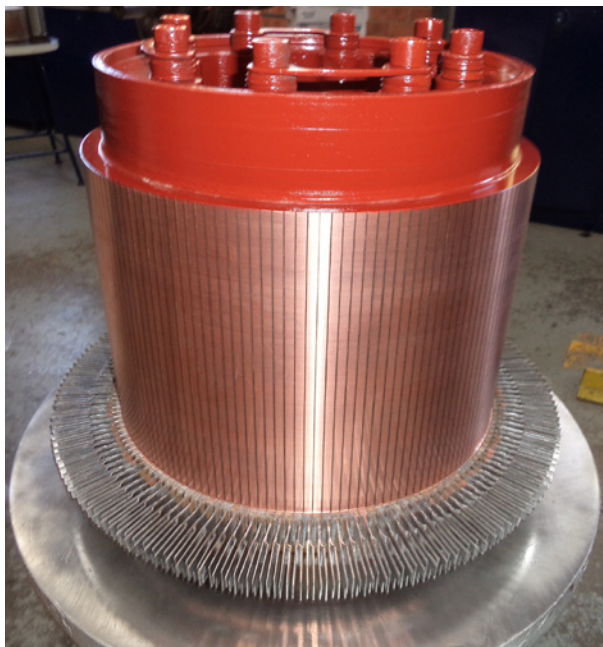
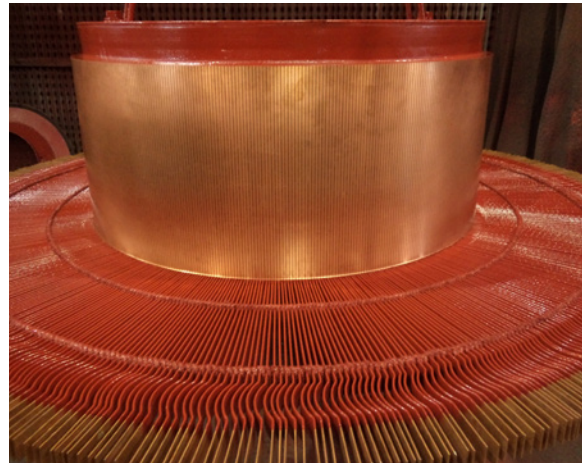


# Robust supply of key components through our in-house production facilities and capabilities

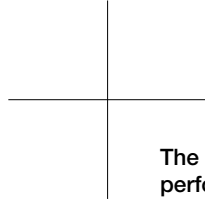
## Commutator and Slip Ring Manufacturing

Our service centre in Sydney has specialised facility and equipping to repair, design and manufacture commutators, sliprings and associated mica products, with more than 40 years of experience.

- Using our custom-built software, we are able to perform stress calculations to determine the condemning diameter of new commutators before they go into service.
- Complete design with latest CAD software to identify problematic commutators
- Commutators and sliprings thoroughly tested at all stages throughout repair or manufacture, with test certificates. All commutators undergo full static seasoning cycles, rotary seasoning facilities available if required







**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.**

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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.

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