

BERENDSEN CYLINDER SUPACENTRE

STREAMLINED
CYLINDER
REPAIRS
AT SCALE

32 Axis Parade
Neerabup WA



BRINGING PRODUCTION LINE EFFICIENCY TO HYDRAULIC CYLINDER REPAIRS.

Officially opened in September 2025, Berendsen's Cylinder SupaCentre is a brand new, state-of-the-art facility purpose-built exclusively for hydraulic cylinder repairs. It is engineered from the ground up to deliver the fastest turnaround times in the industry, with the needs of Western Australia's mining sector in mind.

This colossal 6,900 m² facility is built around a high-speed production-line model designed to streamline the repair process, eliminate lag, and maximise efficiency. Every element - from layout and equipment design to digital workflow integration - works together to keep cylinders moving and downtime to an absolute minimum.

It's more than a faster repair - it's a new standard in hydraulic cylinder service.



HOW THE SUPACENTRE REDUCES REPAIR TIME IN EVERY POSSIBLE WAY

1 **Cylinder Service Exchange Program - Wide Range Ready When You Are**

The SupaCentre maintains a large on-hand inventory of fully refurbished mining cylinders, ready for immediate swap. When a matching unit is available, customers can exchange their worn cylinder and get back to work the same day.

2 **Production-Line Repair Process - Streamlining Efficiency**

Cylinders move through dedicated zones for each stage of repair in a streamlined system that minimises handling time and enables multiple cylinders to be processed simultaneously.

3 **Comprehensive In-House Capabilities - More Control Without Delays**

With all processes handled in-house including machining and hard chrome plating, repairs move seamlessly through the production line without delays or external dependencies.

4 **Customised Equipment - Improving Handling Speed & Safety**

Every workstation features custom-designed benches, handling systems, and equipment that minimise downtime, optimise safety, and ensure precision at every step.

5 **Rolling Stock of Components - Eliminating Time Lost in Procurement**

Extensive inventory of seals, glands, piston rods and other components are kept on site - in a rolling stock inventory, ready for immediate use.

6 **Digital Workflow Management System - 100% Adherence to Repair Procedures**

Technicians use a tablet-based workflow system that tracks every job and records data at every step to streamline the process, ensure accuracy and provide 100% job history reporting.

MRC 750KG

MRC 20t

MRC 750KG

4/M5
76-2
/25

Reg No. WA

AND CRANES

6900m² STATE-OF-THE-ART REPAIR PRODUCTION LINE

DISSASSEMBLY



Cylinders are sandblasted to remove paint and contaminants. Disassembly takes place using custom-engineered stripping benches, 300-ton presses, straightness rollers, and block-and-tackle systems.

INSPECTION



Full dimensional inspections using micrometers, verniers, and specialised equipment. Detailed photographs and data are logged in the Frontrunner digital workflow system.

MACHINING



Machining and hard chrome plating are carried out at Berendsen's specialised in-house facilities, purpose-built for the most technical and high-precision cylinder work.

HARD CHROME PLATING



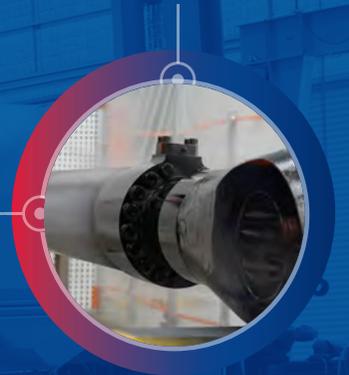
Our state-of-the-art hard chrome plating operation virtually eliminates the lag caused by the most time-consuming part of the process.

REASSEMBLY & TESTING



Custom-engineered equipment makes reassembly safer and faster - including front suspension benches that rotate cylinders upright for easier handling.

PAINTING & WRAPPING



Cylinders are returned to factory freshness in a concertina-style spray booth to allow easy access. Cylinders are shrink-wrapped to protect against the elements and loaded into custom-designed frames for secure transportation.

DETAILED FACILITY SPECIFICATIONS

- **Fully stocked inventory** of OEM cylinder components — end caps, pistons, seal kits, valves, and bolts.
- **2 × 20-ton overhead gantry cranes and 4 × 750 kg local pedestal cranes** for fast, safe movement of heavy components.
- **Stripping and assembly benches** for cylinders up to 20 m in length × 1 m diameter.
- **Front suspension benches** capable of rotating cylinders vertically for rod and piston installation.
- **“Nutcracker” torque bench** delivering up to 140,000 Nm of controlled torque.
- **300-ton and 200-ton hydraulic presses** for fitting bearings and bushes.
- **Manual turning** up to 8 m × 1.5 m diameter.
- **CNC turning** up to 4 m × 750 mm diameter.
- **Boring / milling** up to 2 m × 2 m × 800 mm, with 10,000 kg table capacity.
- **Cylindrical grinding** up to 5 m × 1 m diameter.
- **Sub-arc welding** up to 7 m × 750 mm diameter.
- **ID welding** up to 400 mm diameter × 400 mm deep.
- **Hard chrome plating** up to 12 m × 750 mm diameter using an advanced horizontal rotation process (up to 200 µm deposit).
- **Honing** up to 8 m × 500 mm diameter.
- **Sandblasting and painting** up to 12 m × 2.5 m × 2.5 m, using self-contained and retractable spray booth setups.
- **Computerised hydraulic testing** up to 630 bar.





THE SUPACENTRE IS SUPPORTED BY AUSTRALIA'S MOST ADVANCED HARD CHROME PLATING OPERATION.

One of the greatest advantages of the Cylinder SupaCentre is its direct connection to Berendsen's dedicated hard chrome plating facility - the largest and most advanced in Australia. Our state-of-the-art electroplating system is purpose-built for oversized hydraulic cylinders used in heavy mobile equipment and mining machinery, enabling us to handle even the longest and most demanding rods with precision and efficiency.

- › Custom-built 360° horizontal rotation plating tanks for uniform chrome coverage
- › Innovative dual-anode electroplating system for superior adhesion and consistency
- › Capability to plate rods up to 12 metres in length
- › Up to four times greater chrome deposit depth for enhanced surface durability and service life

Continually replenished stock of components including cylinder rods, seals, glands & bearings



20tn gantry cranes for heavy lifts & 750kg local pedestal cranes



Independently powered repair benches for swift disassembly and reassembly



Retracting concertina paint booth speeds up handling





SPECIALISED FRONT SUSPENSION BENCHES

The Cylinder SupaCentre's custom-built suspension benches are engineered to handle the largest and heaviest mining cylinders with precision and ease.

Designed in-house, these benches allow technicians to rotate cylinders vertically during rod and piston installation, reducing manual handling and improving access for assembly.

This vertical orientation also greatly reduces the risk of damaging seals during reassembly ensuring a smoother, safer fit every time.

By keeping even the most cumbersome components stable and perfectly aligned, the benches dramatically improve both speed and safety, allowing faster turnarounds without compromising quality or operator wellbeing.

FULLY DIGITAL REPAIR WORKFLOW: IMPROVED EFFICIENCY & QUALITY CONTROL

The entire repair process is governed by Frontrunner – Berendsen’s custom-built digital repair workflow system that records every step of the repair process in real time. Using a tablet-based system, each cylinder is photographed and documented at every stage - before disassembly, during inspection, throughout the machining and assembly process, and again during testing and dispatch. Ensuring every cylinder leaves the SupaCentre with a verifiable history and a test report to match.



EXTENSIVE CYLINDER EXCHANGE RANGE

The Cylinder SupaCentre maintains an extensive Cylinder Exchange Range – a ready-to-go inventory of high-demand mining and industrial cylinders. Each unit in the range is fully rebuilt to OEM specifications and tested to the same standards as a new cylinder, complete with full documentation and warranty.

When a customer's cylinder needs repair, a replacement from the exchange fleet can be installed immediately, allowing production to continue without delay. The original cylinder is then returned to the SupaCentre for rebuild and re-entry into the exchange cycle.

This rolling exchange system ensures equipment stays operational, repairs happen in the background, and mine operators keep their fleets moving – because at Berendsen, every second counts.



A circular porthole view of a person in a green uniform and safety glasses working on a large industrial cylinder. The person is looking down at a component of the cylinder. The background is a blue gradient with a red diagonal line.

OPTIONAL SERVICES: ENGINEERING CYLINDER UPGRADES.

If your cylinders aren't meeting expected running hours, Berendsen's in-house engineering team can help identify the cause and recommend design improvements.

By analysing wear patterns and operating conditions, our engineers can redesign or modify components to meet new performance or durability requirements. Whether it's adjusting materials, tolerances, or design features, each upgrade is developed to extend reliability and align with your site's operating demands. Our in-house manufacturing division then produces these upgraded components to precise engineering specifications, ensuring a seamless, quality-controlled process from design through to final assembly.

A large industrial workshop with blue machinery and a worker in the background. The scene is dominated by blue metal structures and equipment. A worker in an orange shirt and safety gear is visible in the background, working on a piece of machinery. The foreground shows a long, blue metal table or workbench. The overall atmosphere is industrial and professional.

CYLINDER REPAIRS JUST GOT A SERIOUS OVERHAUL

The Cylinder SupaCentre has been purpose-built to meet the growing demands of Western Australia's mining industry - where downtime costs millions and every second counts.

This is a new benchmark for the industry. By combining advanced engineering, purpose-designed equipment, and fully integrated processes, Berendsen has created a facility that delivers unmatched speed, safety, and precision in hydraulic cylinder repair.

To learn more or to book your next cylinder repair, contact the Berendsen Cylinder SupaCentre today and experience the future of hydraulic service.

BERENDSEN CYLINDER SUPACENTRE

1800 874 915
32 Axis Parade
Neerabup WA 6031

