MOLYCOP
A tega company

Solutions

Engineered

Milling

Flotation

Leaching

Process Optimisation

Consulting & training

Engineered

Progress Together

At Molycop, we partner with our customers to drive efficiency, profitability and sustainability across the mining, mineral processing and rail sectors.

Our comprehensive range of solutions empowers mining operators to unlock performance gains across their entire operations. From high-performance grinding media and advanced milling circuit solutions that optimise comminution operations, to expert flotation and leaching services that maximise mineral recovery, we deliver results that make a tangible difference.

We are committed to continuous improvement – and to improving the performance of every operation we support. Our process optimisation services combine smart control systems and cutting-edge AI visualisation and analytics to give our customers the tools and insights they need to achieve their goals.

Beyond mineral processing, our precision engineered solutions, including robust rail and industrial products, address the needs of critical rail and infrastructure projects.

With our leading technology, reliable global and regional supply chains, and solutions-oriented approach, we partner with our customers to drive operational excellence and sustainable performance — delivering better for all.

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Molycop Solutions: Engineered

Solutions

Molycop provides a range of innovative solutions that enhance mineral processing performance, improve operational efficiency and support safer, more sustainable mining operations.

Milling

Molycop's milling solutions maximise efficiency and minimise downtime so customers achieve peak operating performance immediately and over sustained periods. Our range of mining consumables is supported by measurement and control, analytics, and consulting and training services so operations can fully leverage the Molycop solutions available to them.

Flotation

By combining high-performance collector, frother and modifier chemicals with smart instrumentation, OreVia Process Characterisation and Smart Process Control, Molycop's flotation solutions enable mining operators to optimise mineral recovery, driving measurable improvements in flotation circuit efficiency and profitability.

Leaching

Customers achieve superior leaching performance with Molycop's range of leaching instrumentation and expert-led solutions. By integrating smart instrumentation, Smart Process Control, data analytics and consulting services, Molycop gives customers the tools and expertise they need to optimise performance and improve mineral recovery.

Process Optimisation

Molycop's process optimisation solutions combine consumables, smart instrumentation and the StarCS suite – including MillStar, FloatStar and LeachStar – with advanced analytics, data visualisation and expert consulting services. Together, these capabilities give mineral processing operations the opportunity to achieve long-term improvements in recovery and profitability.

Consulting and Training

With years of collective experience as a foundation, Molycop's industry-leading experts deliver consulting services and training courses, both onsite and on-demand, to improve the performance of customers' operations and upskill their staff.

Engineered

Backed by over a century of expertise, Molycop's engineered solutions keep Australia's rail and industrial sectors moving. From heavy-haul and passenger rail wheels to axles, track wheels, gear blanks and anode pins, our rail and niche engineered solutions are designed to optimise performance, minimise maintenance and maximise operational reliability.

High-performance solutions for modern rail and industry

Molycop's engineered solutions provide a foundation for safe, efficient and reliable performance across demanding transport, industrial and manufacturing sectors.

Molycop's reputation for excellence has long been founded in the precision engineered products it manufactures for rail and industry. Leveraging deep expertise in metallurgy, heat treatment and advanced manufacturing, Molycop provides high-performance engineered products that keep critical industries moving. From the heavy-haul tracks of major freight lines to the intricate demands of specialised industrial machinery, Molycop delivers solutions where failure is not an option.

Advanced solutions for rail

Molycop is a trusted designer and manufacturer of high-performance rail wheels and axles, engineered to withstand the extreme stresses of modern transport.

Molycop's heavy-haul rail wheels are designed to thrive in the world's most punishing operating environments. Built for high-load capacity and exceptional durability, these wheels incorporate advanced metallurgical properties that resist thermal damage and fatigue, ensuring maximum service life for freight operators to keep supply chains flowing.

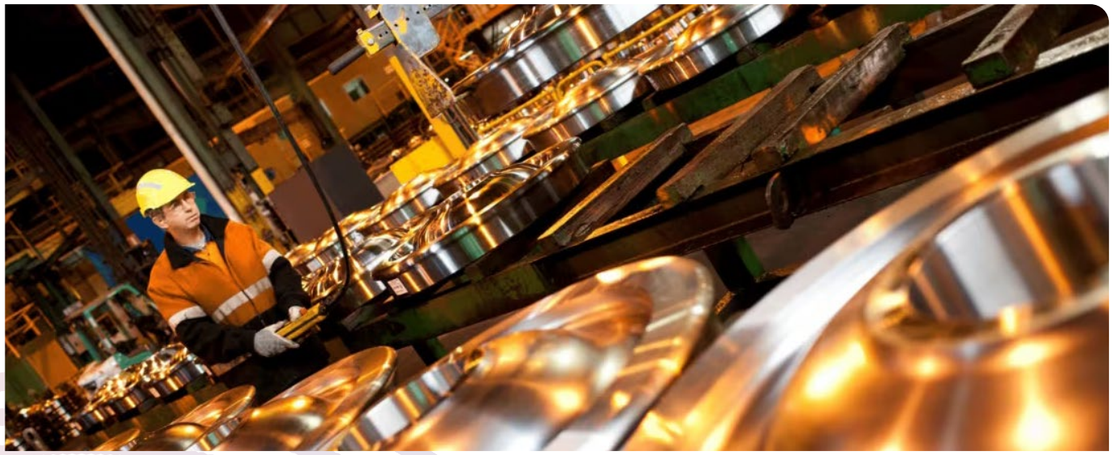
Molycop applies the same rigorous engineering standards to the passenger rail sector. Recognising that passenger networks demand high reliability and operational stability, Molycop manufactures passenger wheels that meet strict regulatory and quality requirements. By focusing on precision geometry and wear-resistant steel chemistry, Molycop enables operators to maintain the highest standards of safety and passenger comfort.

Complementing Molycop's wheel range is a comprehensive range of axles. Engineered as a complete system alongside rail wheels, Molycop's axles are manufactured using cutting-edge forging and machining processes. This integration ensures a perfect fit, reduced vibration and superior performance under the dynamic loading conditions found in both freight and passenger services.

Niche steel products

Molycop provides a range of specialised solutions – including track wheels and gear blanks – designed for heavy-duty industrial applications. These components are subjected to proprietary heat-treatment processes that enhance their hardness and wear resistance, ensuring they maintain their shape and function even under constant operational strain.

Molycop also serves the aluminium smelting sector with precision-manufactured anode pins. These components are critical for maintaining electrical conductivity and structural stability within the smelting process. Molycop anode pins are designed for durability and longevity in harsh operating environments, contributing to the overall efficiency and cost-effectiveness of customers' industrial operations.



Partnerships built on trust

At the core of Molycop's engineered solutions is a commitment to quality management and continuous improvement. By collaborating closely with its rail and industrial customers, Molycop analyses their specific operating environments – whether it be extreme cold, abrasive conditions, or high-cycle demands – and tailors its product specifications accordingly.

By partnering with Molycop, customers gain access to a global manufacturing footprint that combines local support with world-class engineering capability. Whether for long-haul freight operations or specialised industrial applications, Molycop remains committed to providing efficient, reliable and safe components to keep critical infrastructure moving.

Molycop Solutions

Increase throughput by using durable gear blanks for consistent industrial operations.

Reduce wear with the superior metallurgy of Molycop wheels, axles and components.

Improve energy efficiency by reducing wheel-track friction and structural resistance.

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Engineered products for demanding rail and industrial applications

Molycop manufactures high-quality products for rail and industry that combine rigorous quality assurance with decades of research and development.

Rail Wheels

Molycop manufactures the Comsteel range of forged and rolled rail wheels to International Standards for all classes of rolling stock:

- **Heavy Haul Rail Wheels:** Molycop's wheel solutions are capable of achieving axle loads exceeding 40 tonnes. The company's Micro Alloy wheels combine clean steel technologies with tailored heat treatment, delivering high hardness and improved fracture toughness for safe and reliable heavy haul operations.
- **Passenger Rail Wheels:** Molycop specialises in customised solutions for complex passenger car wheel applications. With flexibility in local manufacture, Molycop supplies customers directly and in batch sizes to suit specific requirements. Using advanced in-house manufacturing capabilities, Molycop produces wheels in sizes ranging from 650mm to 1250mm in diameter, with a modern CAD/CAM QForm system linking design flexibility to forging, rolling and CNC machining programs.

Axles

Molycop supplies **railway axles** for all classes of rolling stock, with heat treatment processes ensuring exceptional product performance under high axle loads. The range spans lightweight narrow gauge through to broad gauge and large-diameter axles for locomotive and heavy haul applications. Molycop's in-house steelmaking expertise enables the production of high alloy axles and axles with superior mechanical properties, tailored to meet specific customer requirements.

Track Wheels

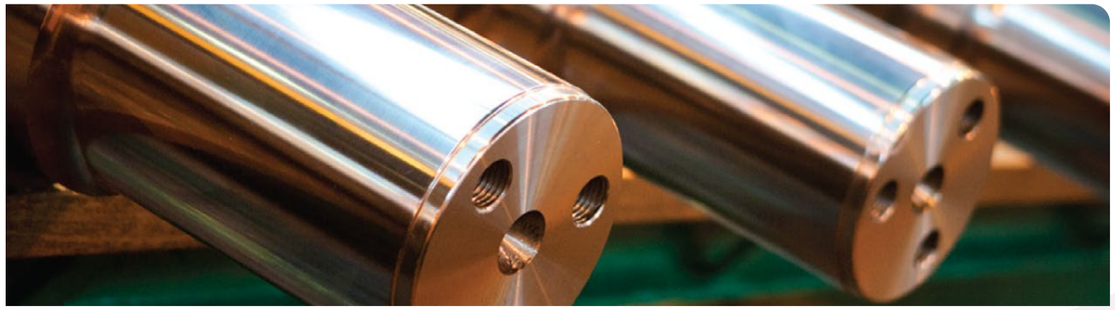
Molycop produces forged and rolled **track wheels** for use in industrial applications. Specialising in high-hardness and wear-resistant products for high mechanical loading, Molycop's track wheels provide smooth and reliable movement for tracked equipment across industrial settings, including cranes, balance machines and fixed plant applications.

Gear Blanks

Gear blanks manufactured by Molycop are precision-engineered for use in power transmission systems. A dedicated research and development team is focused on making continual advances in product quality and performance. Sophisticated inspection techniques and accredited quality assurance systems ensure consistent, dependable output across every order.

Anode Pins

Molycop produces precisely engineered and durable **anode pins** for use as cathodes and in anode stub applications in several Australian and New Zealand smelters. The anode pin range has been specifically designed to deliver optimum performance in terms of resistivity, chemical composition, grain structure, tolerance control and surface finish. Cut-to-size and readily welded by conventional metal arc techniques, Molycop anode pins are built for durability in the harshest operating environments.



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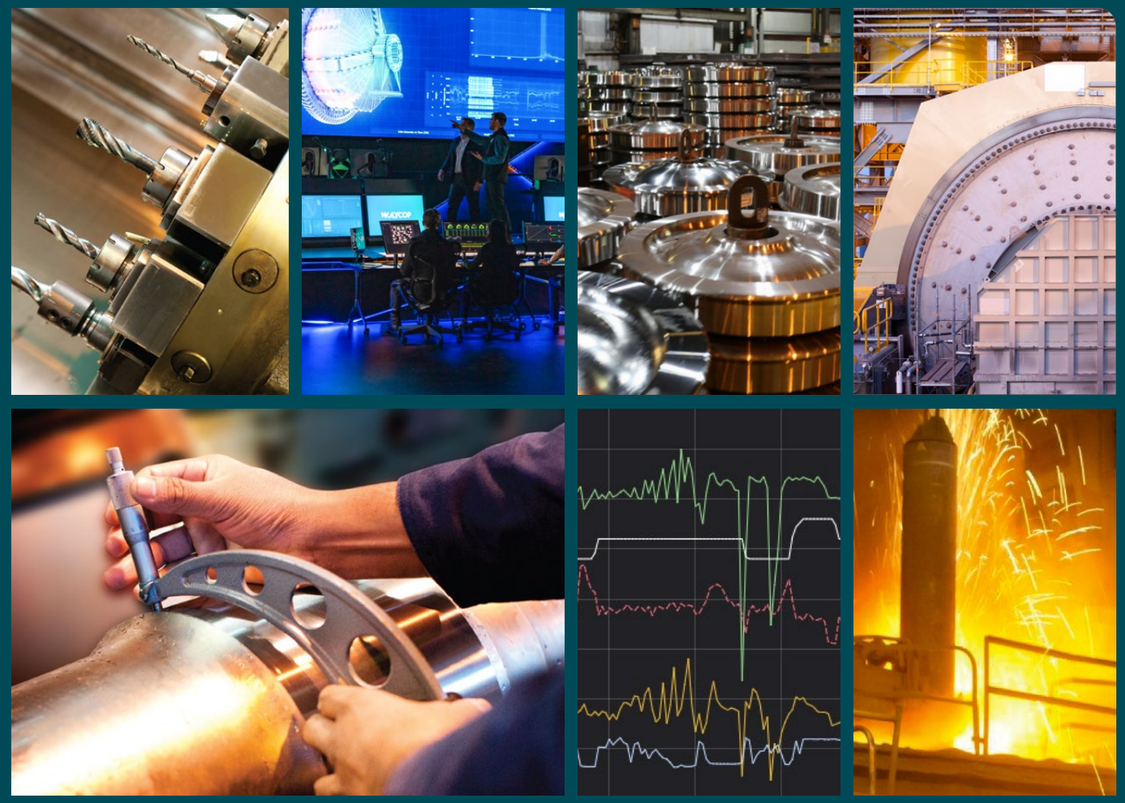
Molycop Solutions: Engineered



Molycop's full range of Products and Services:

Milling	Flotation	Leaching	Process Optimisation	Consulting and Training	Engineered
Grinding Media	Chemicals	Smart Instrumentation	Smart Process Control	Consulting	Rail Wheels
Bolts	Smart Instrumentation	Smart Process Control	Consulting and Training	Training	Axles
Smart Instrumentation	Process Characterisation	Consulting and Training			Track Wheels and Gear Blanks
Process Characterisation	Smart Process Control				Anode Pins
Smart Process Control	Consulting and Training				
Consulting and Training					

For Molycop's Solutions in detail, visit us online:

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Visit Molycop's website or contact the sales team for more information.

molycop.com

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