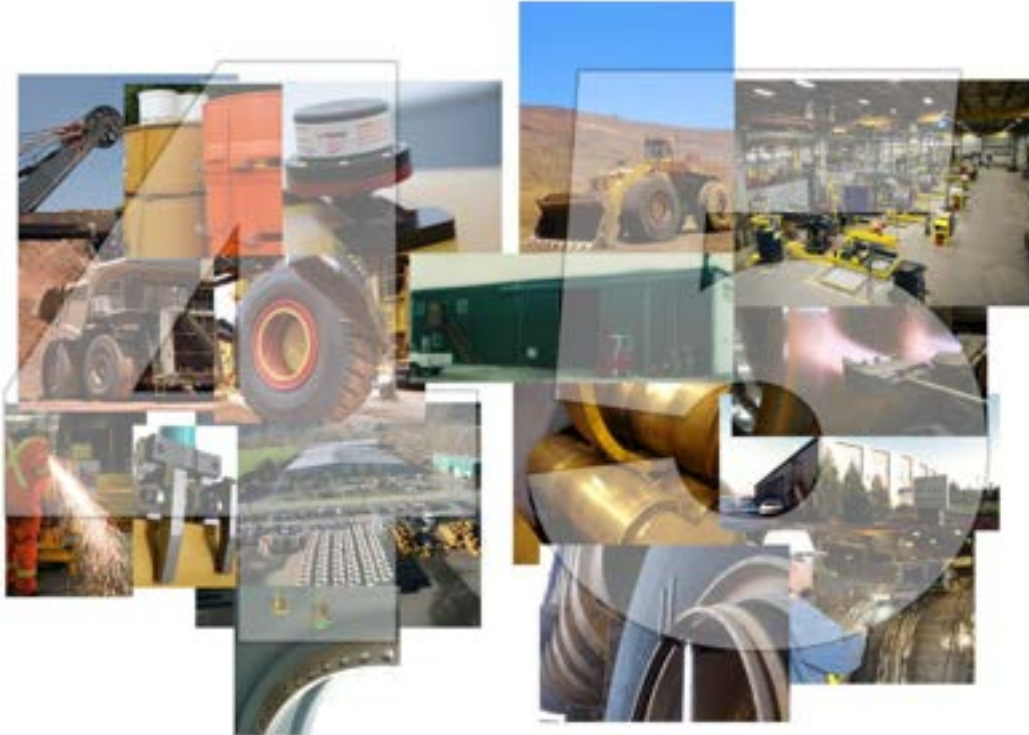


# RIMEX



## Capability Statement



# Table of Contents

The RIMEX Story	4
RIMEX Rolls Round the World:	5
Product Overview	6
Manufacturing	8
Inspection and Repair	10
TyreSense	12
Complimentary Products	14

## The RIMEX Story

RIMEX is a world leader in the custom manufacture of off-road wheel and rim assemblies, with primary markets in mining, forestry, agriculture and industrial equipment.

In 2021, RIMEX celebrated 45 years of dedication and innovation. By focusing on the requirements and requests of its customers, RIMEX has become the globally preferred choice for industrial wheels and rims. To guarantee performance for tomorrow, RIMEX is collaborating with perfecting future wheel and rim designs for the next generation.

But RIMEX is much more than just a wheels-and-rims enterprise. In addition to a growing range of tyre accessories, tooling and equipment, a key area the company now dominates is tyre pressure and temperature monitoring, with TyreSense, the best-of-class technology that protects and preserves a safe, stable internal wheel environment. But the TyreSense system provides more than just monitoring; it optimises the extensive information and data it generates to provide clients with the potential for advanced asset management.

As a long-time supplier to OEM's, RIMEX has a heavy emphasis on compliance and quality and is committed to providing products and services that meet or exceed all customer requirements and relevant standards.

Today, RIMEX flourishes with a truly global footprint and a family of over 450 employees. Looking ahead, the road is wide open for more innovation and achievement as RIMEX roars into the future.



RIMEX rolls round the world:



“

**RIMEX strives to design, build and supply industry-leading products and services that meet the demands of our customers operating environments.**

”

# Product Overview

## WHEELS and RIMS

RIMEX rims are machined for true roundness and have 100% more steel in critical areas.

### MES series:

The Machined Extreme Service (MES) Series were the first wheels produced with fully machined sections to withstand the high pressures transferred to rims from radial tyres and designed to be compatible with other standard product on the market.



### TSRseries:

The Taper Secure Radial (TSR) Series uses a unique taper design to secure all components in place and eliminate indexing, offering absolute stability of the tyre, stopping wear, fatigue, and air loss, and extending component life.



### DGS and IGLRseries:

RIMEX introduced the Double Gutter Service (DGS) Series and Integral Gutter Lock Ring (IGLR) Series to reduce technician labour and decrease vehicle downtime. On haul trucks, DGS wheels are fit to the outer dual positions and IGLR wheels take the front and inside dual positions. This allows the tyres to guide over the wheel bases without removing the outer wheel, enabling safe tyre changes in a fraction of the usual time.



### MST wheels:

RIMEX produces a 'wedge' style rim designed to be compatible with standard OEM 57 and 63" rims.

**Industrial wheels:**

RIMEX manufactures wheel assemblies for industrial applications such as material handling equipment, aerial lifts, and construction equipment.

**Underground mining wheels:**

Underground mining equipment use specialised wheels. RIMEX builds customised wheels specifically for this application.

**Aluminium wheels:**

RIMEX offers a full line of lightweight, high quality, one-piece forged aluminium wheels for on-road industrial equipment and trucks.



# Manufacturing

## Custom Fabrication

RIMEX has developed a unique manufacturing process called “forming through machining”, which allows for total flexibility in creating custom products for all major trucks on the market. RIMEX is the only manufacturer with advanced wheel/rim technology that complements modern radial tyre designs.

## Precision Production

### Burning:

High quality steel plate is burned into custom widths, forming the sturdy core of backs, gutters, centre-bands, and bead- seat bands. Each plate is prepped for welding prior to being burned/cut to size, which helps minimise waste.



### Rolling:

The burned strips are cold-rolled to specific wheel dimensions before forming. RIMEX can cold-roll up to 5” thick plates. The strips are then tack-welded in preparation for final welding.



### Fitting:

Specialised assembly machines align all components seamlessly, meeting or exceeding quality assurance regulations.

### Submerged-arc welding:

Using advanced techniques, wheels are submerged-arc welded in RIMEX custom-made machinery, guaranteeing 100% weld penetration, and ensuring there are no built-in weaknesses. Welding prior to forming eliminates possible high or low spots, which can occur on other manufacturers’ products.





**Machining:**

Using state-of-the-art Computer Numerical Control (CNC) machines, RIMEX machinists sculpt the rolled strips into formed sections. This critical process creates total roundness with tight tolerances on all wheel parts. The CNC machines guarantee that rims and wheels match specific customer needs and meet original equipment manufacturer (OEM) specifications. Precision drilling of all stud and valve holes guarantees correct tolerances and proper fitting. (RIMEX De-Fuzer Valve holes are drilled on request.)



**Painting:**

Superior painting techniques include sandblasting rims for a perfect base coat, applying a flawless top coat, and attaining OEM specifications or better.



**Inspecting:**

Quality control and third-party testing allow us to stand behind our products and guarantee complete customer satisfaction!

By the end of this rigorous production process, RIMEX’s goals have been achieved: perfectly round, robust, and long-lasting wheels.

## Inspection and Repair



Regular inspection and repair are critical to carrying on earthmoving work without unexpected breakdowns or unscheduled interruptions. RIMEX's comprehensive testing, tracking and repair program provides workflow continuity, cost accountability and personnel safety. And with forty five years' experience in designing, manufacturing and servicing earthmoving wheels, RIMEX offers its customers inspection and repair practices that meet the highest industry standards.

Australia is the world leader in legislating and enforcing wheel inspection and repair protocols. The Australian Standard (AS4457.1) stipulates rigorous and consistent controls for the inspection, maintenance and repair of wheel and rim assemblies on earthmoving machinery. RIMEX has actively contributed to the Australian initiative, and meets or exceeds the Standard with thorough inspection and repair/refurbishment procedures.

### **Meticulous inspection and refurbishment includes:**

- Visual inspection for mechanical and/or wear damage
- Blast and Non-Destructive Testing (NDT) to Australian Standards.
- Repair of all damage or deterioration, to OEM specifications or better, as authorised by the customer. This includes welding of replacement sections to AS1554.5
- Certification with RIMEX's Certificate of Conformance.

With rigorous and reliable inspection and repair procedures, RIMEX enables customers to carry on their work cycles and conduct business without unexpected interruptions or unplanned downtime. The procedures are preventive, cost-effective, and indispensable for ongoing success. That's why RIMEX wheels and rims continue to perform at the top of their class.

- Certification of returned components with RIMEX's Certificate of Conformance.



# TyreSense

In mining and industrial operations, tyres are a critical component and major investment. Accurate information is key to achieving optimum tyre performance and ensuring maximum tyre life. TyreSense is a tyre pressure monitoring system (TPMS) employing innovative technology to electronically monitor and display running tyre pressures and temperatures. A sensor located inside the tyre chamber reads tyre pressures and temperatures and the data is transmitted in real time to a server where it is time-stamped and stored for future analysis. TyreSense also conveys real-time event notifications to tablets, handheld devices and in-cab displays.

## TyreSense Mining

This system offers everything required to monitor a mine fleet, regardless of size:

### Dispatch/fleet management:

Integrates with third-party fleet management systems.

### Bluetooth compatibility:

Connects to TyreSense tablets or handhelds within 100 meters.

### Cellular and ethernet networking:

24/7 network connection for real-time vehicle monitoring.

### TyreSense server:

Continuously collects and archives data for all vehicles within range.

### GPS tracking:

Tracks distances and speeds for every vehicle and pinpoints event locations.

### Wheel sensors:

Withstand extreme conditions and provide accuracy within 2 psi.

### In-cab receiver unit:

Receives event notifications and configures system parameters.

### Handheld & tablet:

Receive snapshots and alerts and enable remote vehicle configurations.

## TyreSense Industrial

TyreSense Industrial is a streamlined TPMS for industrial operations such as quarries, docks and rail yards, utilising the same proven components as the mining TPMS.



## Complimentary Products

RIMEX offers a full range of innovative products to make your work with wheels and rims safer, easier and more cost-efficient. Engineered to the same high standards as our wheels, each product is designed to meet specific industry needs and trends.

### Tyre Fitting and Handling



Everything rides on your tyres, so RIMEX supplies a complete line of tyre fitting and handling products for every service and maintenance requirement of your hard-working rubber.

### Valve and Valve Accessories



RIMEX offers a wide array of valves and valve accessories, manufactured with the most advanced technology and designed with your safety and smooth operations in mind.

### Air Tools and Inflation



RIMEX has a full range of inflation tools and accessories to ensure efficiency, reliability and safety when it comes to the all-important aspect of air in your tyres.

**RIM Rust Inhibitors and Tyre Lubricants**



Our solutions for tyre service and maintenance range from rim soap and wheel sealant, to bead gel, mounting compound and our specially formulated suspension – RIMEXCEL – which prevents rust build-up and prevents air loss.

**Engineered Solutions**



Our product catalogue carries a wide variety of purpose-built auxiliary equipment to improve productivity and safety, including stands, racks, guards, spreaders, cages, and even workstations.

