
RIMEX
Building better wheels
RIMEX WUXI WHEEL LTD.
Head Quarter : RIMEX SUPPLY LTD.
RIMEX
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Company Overview

- Company name: RIMEX WUXI WHEEL LTD
- Legal representative： Derek Weston
- Date of Establishment: 2005-08-19
- Registered address: No.16, Wanshou Road, Qianzhou Industrial Park, Huishan District, Wuxi, Jiangsu
- Investment: USD 8.84 million
- Annual sales: 250 million RMB
- Number of employees: 160
- Factory area: 22,000㎡ for Plant 1 & 5,000㎡ for Plant 2
- Nature of enterprise: Limited liability company (wholly foreign-owned)
- Business content: Manufacturing and processing of wheels and components for mining and construction vehicles, Self-supporting and acting as an agent for the import and export of all kinds of commodities and technologies.

Overview of the parent company

- Parent company: RIMEX SUPPLY LTD., founded by Chris Weston in 1976, has been specialising in the development and manufacture of mine rims and related products for over 50 years.

- Head office and manufacturing facility is located in Langley, BC, Canada with 21 branches in Canada, United States, Singapore, Indonesia, Australia, Chile, South Africa etc.

- The APAC centre is Singapore-based.

- China business office and manufacturing Factories are located in Wuxi, Jiangsu.

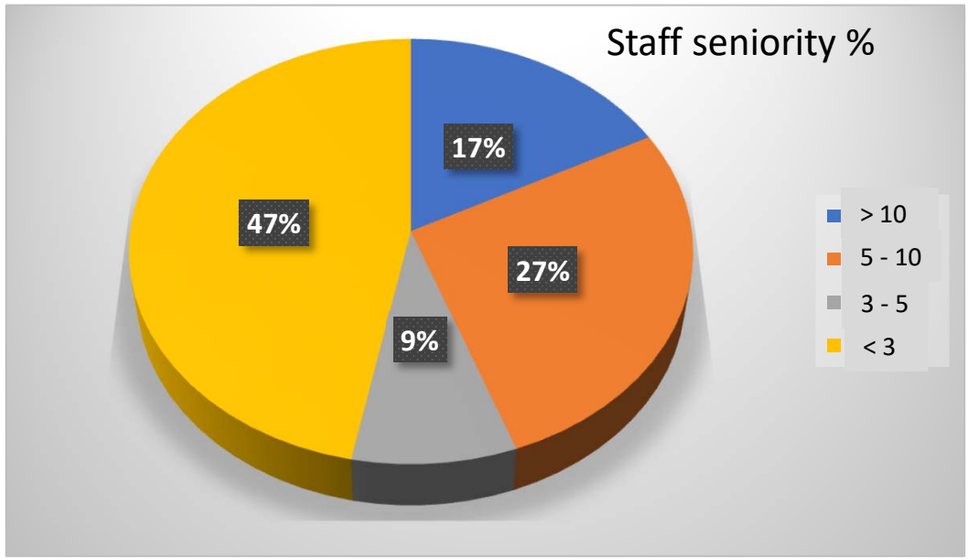


Company Overview

Wuxi Team

Employee	No.	Pct.
> 10 years	28	17%
5-10 years	44	27%
3- 5 years	14	9%
< 3 years	76	47%
Total	162	

Employees with more than three years of experience account for 53% of the total number of employees. Human resource is the most important asset of our company, we will carry out the craftsmanship to the end to provide customers with the best quality products



Wuxi Location

The company chose to locate in Qianzhou Industrial Park, Huishan District, Wuxi City, besides the overall factors of production technology talents, environment, logistics, material supply and other considerations of heavy industrial processing, also focuses on the fact that there is a complete wheel supporting facilities here, such as hot forging, large-scale machine tool processing, etc., with complete supporting facilities, which is an unparalleled advantage compared with other regions.



Facility appearance and production capacity

Plant 1



Plant 2



- Rimex Wuxi Plant 1, established in 2005, mainly produces the wheel components, including side ring, bead band, gutter, center band, back section and disc etc. for the wheel assembly in the Wuxi and Canada plants.
- **Plant 1 has an annual production capacity of 8,000 sets of wheels.**
- Rimex Plant 2 was established in 2023 to produce large wheels and lock rings.
- **Plant 2 has a capacity of 4,000 sets of wheels per year.**
- **The annual production capacity of large and small wheels in both plants in Wuxi is 12,000 sets.**

Business philosophy and current status

- Our company is people-oriented, carefully creating an excellent corporate culture and a good employment environment, and actively develop the market, with the unremitting efforts of all staff, continuous innovation, has become the world's leading manufacturer of wheel components.

- We have a high-quality management, technology, inspection, production team, including professional and technical personnel accounted for more than 20%, strong technical force, complete product support.

- With the principle of serving customers with high quality, the company provides high quality services for major mining companies and machinery manufacturers with sincere attitude and excellent quality, thus establishing a long and stable win-win relationship, and the products are exported to Canada, the United States, Chile, Australia, Singapore, South Africa and other countries.



Product overview



MES WHEELS

RllMEX introduced the Machined Extreme Service (MES) Series of wheels and rims to address the serious impact radial tires had on rim performance. The increased flexibility in radial tire sidewalls caused movement in the bead seat area. Recognizing the problem, RlMEX pioneered the first wheel produced using fully machined sections - the MES. Since their introduction in 1988 MES wheels remain a popular choice, and, in addition to the standard 5 piece assembly, they are available with DGS or IGLR components for faster tire changes without removing the outer rim.



TSR WHEELS

The unique design of the Taper Secure Radial (TSR) Series uses a taper concept to secure all components in place. Absolute stability of components and the tire is achieved as movement between parts is eliminated. When the tire is inflated, the rim parts lock into their tapered landing areas.

The key benefit of the TSR design is absolute tire support. The wheel flanges DO NOT MOVE on the wheel base. The tire is anchored with complete stability and no air pressure is lost. As well as extending tire life, the life of rim components is increased as there is no wearing or fatiguing of the parts from component movement.

Product overview



DGS WHEELS

The revolutionary Double Gutter Service (DGs) Series is a RIMEX TSR wheel/rim assembly with two bead bands, two side rings, one two-piece lock ring and one standard lock ring. The DGS was developed as a position-sensitive outer dual so the inside tire could be easily mounted/demounted without removing the outer wheel/rim base. It is designed with safety and time savings in mind - tire changes are completed in a fraction of the time.
RIMEX DGS wheels can be installed to haul truck outer dual positions without upgrading the inner dual wheels. Now the inner dual tires can be changed without removing the outer dual



IGLR WHEELS

IGLR wheels are designed for the front steer and inner dual positions.

When lGLR wheels are installed on all four loader wheel positions, tire changes become quick and easy, allowing stubborn tire beads to be dealt with when time permits.

IGLR components can be pre-mounted, using the RlMEX Pre-mounting Stand, which significantly reduces tire servicing downtime.

Product matching end user's model and usage hours

Mainly supporting OEMs and models：

- Caterpillar： 777, 785, 789, 793, 797
- Komatsu： 830E, 830E-5, 930E-3/4/5
- Hitachi： EH5000
- Liebherr
- Konecranes
- Kress
- Hyster
- XCMG: XDE 260



Major mining clients, years of co-operation：

- BHP & BMA More than 25 years
- Rio Tinto / Pilbura Iron Company More than 25 years
- Anglo Coal More than 20 years
- Glencore More than 20 years

Duration of usage: **Generally averages 80,000 hours**, with a small number of particularly harsh environments averaging 60,000 hours.

Management model and Quality management system

● Management mode	Bring in process management and various talents and vigorously implement process management
● Management tools	Visual management, PDCA cycle management, 6S management, IE management, QC seven tools, KPI management
● Certifications	ISO : 9001 : 2015 (BSI accredited in 2017)
● Quality & Environment	



Quality

1. Improve the source
2. Caring for the process
3. Strive for excellence
4. Promote information disclosure
5. Promote staff-wide activities

Environment

1. Green manufacturing
2. Pollution prevention
3. Energy saving and consumption reduction
4. Continuous improvement

We value and implement all types of training



Total production maintenance training



5S Red card battle



Welding skills training



Rolling skills training

Rimex Features and Strengths

Customer Driven

At RIMEX we listen to the needs of our customers and respond with products that deliver on their requirements.

Evolving Innovation

RIMEX's continual innovations are propelling wheel/rim technology into the future.



Proven Performance

RIMEX products have been rigorously tested and proven in the most demanding applications at industrial sites situated in extreme environments across the globe.

Superior Manufacturing

RIMEX manufacturing processes achieve stronger wheels and rims that are 100% round and feature uniform tire bead seals, superior flanges, bead seat bands and lock ring fitments.

Our attitude is like our corporate culture:

Sense of responsibility, Creating safety, Valuing Quality, and Delivering Value!

RIMEX

products & services















www.RIMEX.com



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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 2016, RIMEX celebrates 40 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 leading tire manufacturers in testing and 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 tire accessories, tooling and equipment, a key area the company now dominates is tire 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 optimizes the extensive information and data it generates to provide clients with the potential for advanced asset management.

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.”

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.



Key Features:

- Fully machined and truly round in critical areas.
- Knurless back section and bead seat bands have 75% more contact area than comparable rim products.
- Increased component thickness.

TSR SERIES:

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.



Key Features:

- Unique taper design secures ALL components in place.
- Tyre beads are secure and stable.
- Extended product life.
- TSR lock rings are **RED**.

DGS AND IGLR SERIES:



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, the Machined Special Taper (MST), 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 specialized wheels. RIMEX builds customized wheels specifically for this application.

ALUMINUM WHEELS:

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











Manufacturing

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.



BURNING: High quality steel plate is burned into custom widths, forming the sturdy core of backs, gutters, center-bands and bead seat bands. Each plate is prepped for welding prior to being burned / cut to size, which helps minimize 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: components are aligned 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.

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



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.

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 is 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 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 repair and refurbishment includes:

- Visual inspection for mechanical and/or wear damage.

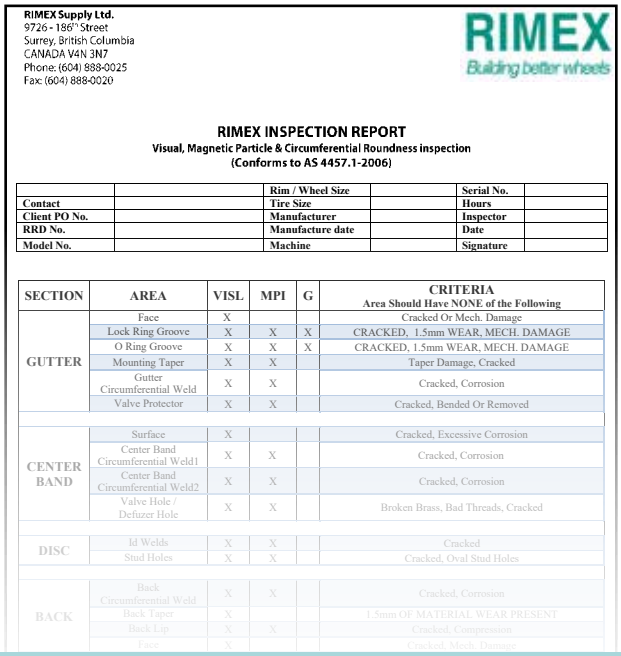


- Sandblasting and NDT to Australian Standards.

- Replacement of the section with damage or deterioration, to OEM specifications or better, as authorized by the customer..



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



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RIMEX INSPECTION REPORT
Visual, Magnetic Particle & Circumferential Roundness inspection
(Conforms to AS 4457.1-2006)

		Rim / Wheel Size		Serial No.	
Contact		Tire Size		Hours	
Client PO No.		Manufacturer		Inspector	
RRD No.		Manufacture date		Date	
Model No.		Machine		Signature	

SECTION	AREA	VISL	MPI	G	CRITERIA Area Should Have NONE of the Following
GUTTER	Face	X			Cracked Or Mech. Damage
	Lock Ring Groove	X	X	X	CRACKED, 1.5mm WEAR, MECH. DAMAGE
	O Ring Groove	X	X	X	CRACKED, 1.5mm WEAR, MECH. DAMAGE
	Mounting Taper	X	X		Taper Damage, Cracked
	Gutter Circumferential Weld	X	X		Cracked, Corrosion
	Valve Protector	X	X		Cracked, Bended Or Removed
CENTER BAND	Surface	X			Cracked, Excessive Corrosion
	Center Band Circumferential Weld1	X	X		Cracked, Corrosion
	Center Band Circumferential Weld2	X	X		Cracked, Corrosion
	Valve Hole / Defuzer Hole	X	X		Broken Brass, Bad Threads, Cracked
DISC	Id Welds	X	X		Cracked
	Stud Holes	X	X		Cracked, Oval Stud Holes
BACK	Back Circumferential Weld	X	X		Cracked, Corrosion
	Back Taper	X			1.5mm OF MATERIAL WEAR PRESENT
	Back Lip	X	X		Cracked, Compression
	Face	X			Cracked, Mech. Damage

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 down time. 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.

TyreSense

In mining and industrial operations, tires are a critical component and major investment. Accurate information is key to achieving optimum tire performance and ensuring maximum tire life. TyreSense is a tire pressure monitoring system (TPMS) employing innovative technology to electronically monitor and display running tire pressures and temperatures. A sensor located inside the tire chamber reads tire 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:
- Bluetooth compatibility:
- Cellular and ethernet networking:
- TyreSense server:
- GPS tracking:
- Wheel sensors:
- In-cab receiver unit:
- Handheld and tablet:

TYRESENSE INDUSTRIAL

TyreSense Industrial is a streamlined TPMS for industrial operations such as quarries, docks and rail yards, utilizing 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.

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.



RIMEX builds custom solutions and specialized products that range from the most advanced wheels and rims on the market to the TyreSense TPMS and peripheral technology that sets new standards for tire monitoring and asset management. With sales and inspection/repair centers around the world, and a track record second to none, RIMEX continues to strive for shared success with its customers as it explores and embraces the future.

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