



RAILS & WHEELS AROUND THE WORLD

RELATIONSHIPS & RESOURCES

As one of the world's largest and most advanced manufacturers of railway products, we've been helping clients build communities and shape lives for over a century. Connecting you to new places and new opportunities around the world with our deep expertise.

We're technical experts. Staffed with highly skilled engineers who understand your product needs at every level, from terrain to maintenance and beyond.

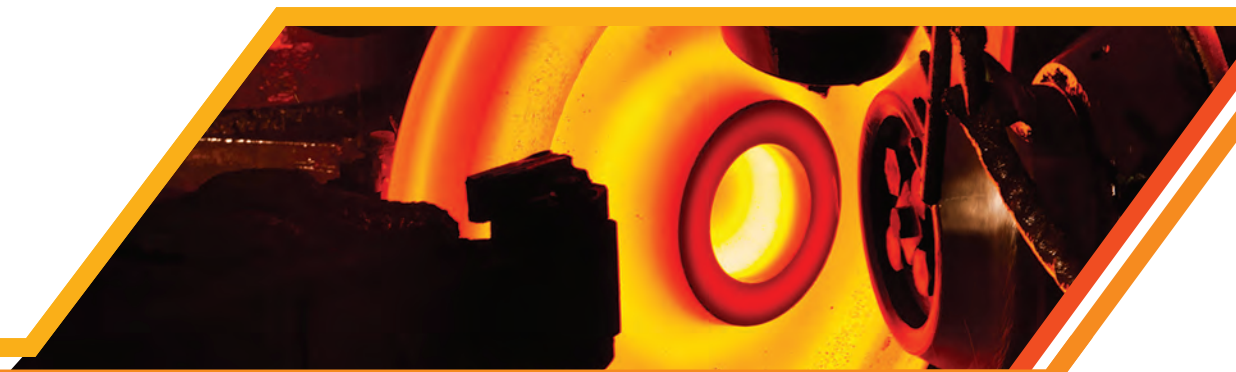
We're industry experts. With firmly established relationships and a talent for logistics. Vertically and globally integrated, we provide a more streamlined experience across products and cultures.

We're always ready to roll. With multiple high-capacity mills on two continents, a robust portfolio of products and a team of global experts committed to connecting with you at every turn.

At EVRAZ, we bring relationships and resources together and that's what sets us apart.



We mine our own iron ore and use recycled scrap metal to produce more than
16 million tonnes of steel
every year. Over 2 million tonnes go into the products
we manufacture for our rail division.



We're the
largest
producer
of rails in
the world

We're the **5th** largest
producer of wheels in
the world.

We have almost **100%**
of the rail market share
in Russia and **35%** of
the wheel market
in Russia.

We have more than **40%** of the rail market share
in North America.

We have long-standing client relationships
with all of the major Class I railroads in North
America as well as Russian Railways.

Our Colorado, USA rail facility supplies every major
North American railroad.

Our facility in Novokuznetsk, Russia is one of the
newest rail mills in the world.

In addition to rails and wheels, EVRAZ produces
tyres, rings and axle blanks as well as all types of
steel plate for the manufacture of railcars.

PAST & FUTURE

We provide our clients with over 130 years of industry experience, connecting you to a deeper level of knowledge and a higher level of performance with our rich heritage.

We've been doing business since 1881. Our US mill made the rail that built America's western railway system and our Russian mill has been rolling out products since 1935. In total, 1.5 million kilometers of EVRAZ rail has been put in track around the world.

We're up-to-date and up-to-speed. Our facilities have been modernized. Our equipment has been upgraded. We've built a brand new technology center for research and development, added wheels to our global product portfolio and developed our next generation rail.

We're looking forward to the future. And we're focused on performance. From the way we engineer our products to the level of service we provide, the road ahead is filled with exciting advancements.

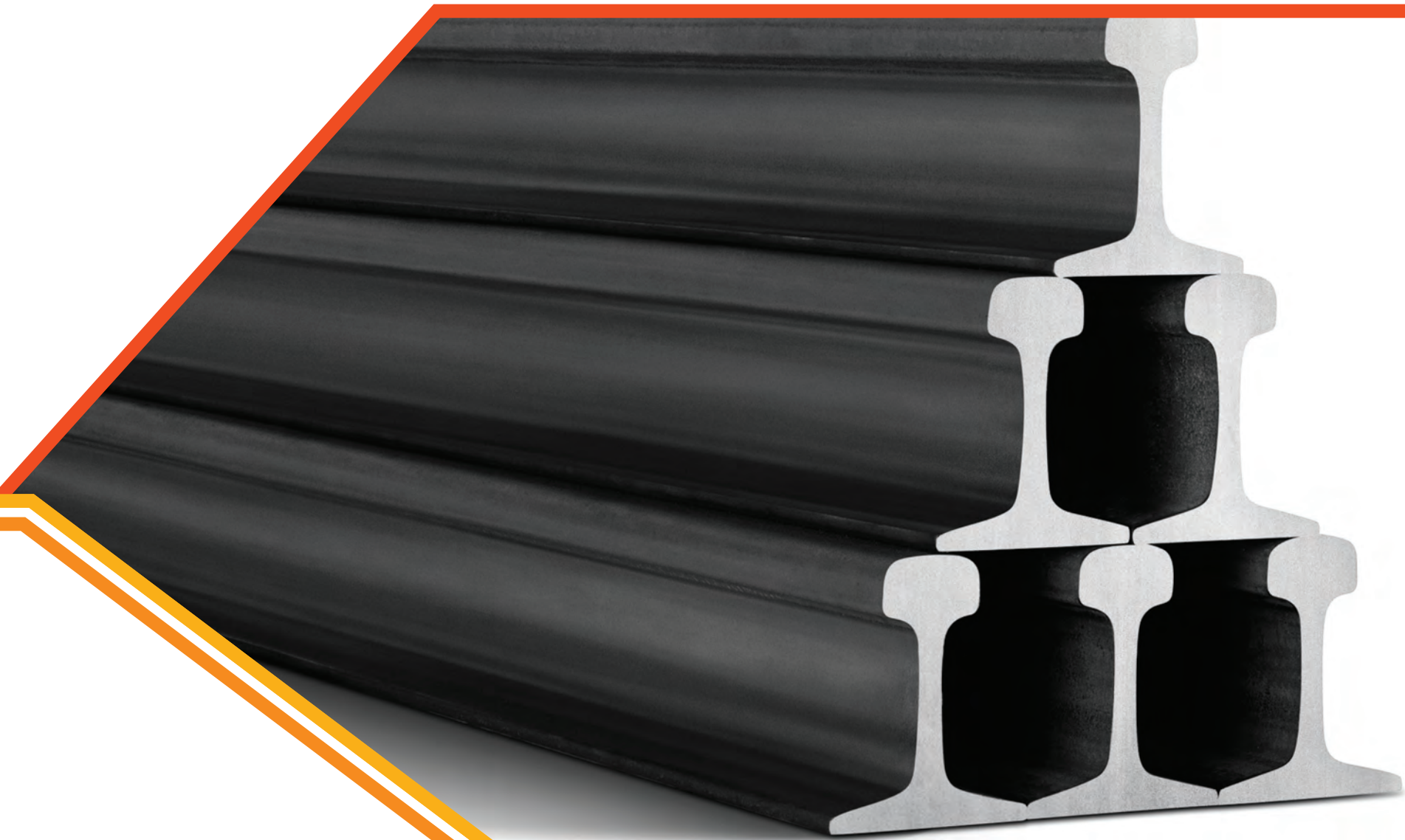
At EVRAZ, we bring the past together with the future—to drive your business forward today.

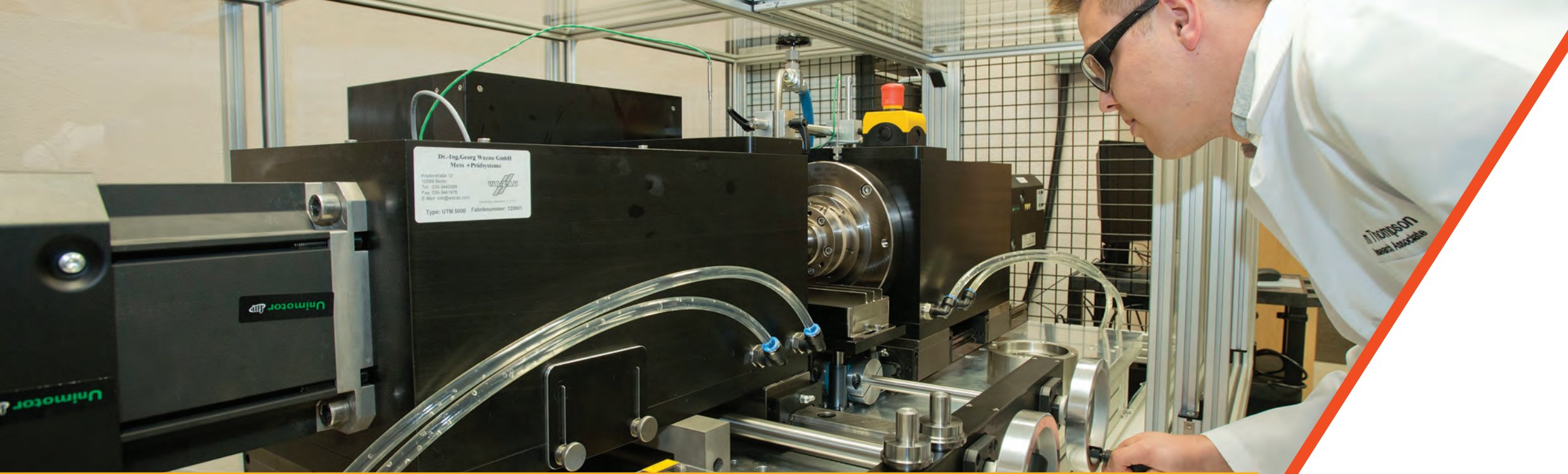


INTRODUCING NEXT GENERATION RAIL

Engineered to increase performance and reduce lifecycle costs with:

- Superior ductility and ultra high strength
- Superior surface hardness and improved hardness at depth
- Improved fracture toughness
- Reduced rolling contact fatigue
- Superior weldability
- Improved wear performance





INSIGHT & ONSITE

As industry experts with specialized knowledge in metallurgy and engineering, we offer clients outstanding technical support and services, in the mill and on track. Connecting our team with your team whenever additional insight and expertise is needed.

At our mills. We've invested over \$900 million in our facilities over the last five years. In addition to building new facilities and upgrading our equipment, we've grown our staff, expanded our testing capabilities and deepened our focus on research and development.

At your site. From mechanical analysis to maintenance and repair, our technical service teams are ready to consult with your engineers on every aspect of the project. We'll even help troubleshoot other companies' products.

For the life of the product. Our commitment to quality and service doesn't stop when your shipment leaves our mill. We stand behind the relationships we create for a lifetime.

At EVRAZ, we bring our insight to every site—anywhere in the world.



OUR FACILITIES

Our facilities recently have been upgraded, rebuilt and expanded —giving us some of the best production capabilities in the world.

Technology Center
Pueblo, USA

With the latest in equipment and technologies, we have the full spectrum of product development and testing capabilities. Our experienced engineers and metallurgists offer clients outstanding technical support, in the mill and on the track.

- Advanced laboratory capabilities include:
- Head-hardening simulation unit
 - Fracture toughness and fatigue crack growth rate testing
 - Disc-on-disc wear and rolling contact fatigue testing

Rail Rolling Mills
Novokuznetsk, Russia

Recently rebuilt and renovated from the ground up—making it one of the newest universal rolling mills in the world.

- Delivering heavy haul, low temperature and high-speed rail in continuously rolled lengths up to 100 meters
- EN and AREMA profiles
- Automated NDT equipment
- Head-hardening and finishing capabilities
- Electric Arc furnaces and continuous casting
- Annual capacity of 950,000 tonnes

Pueblo, USA

- Head-hardened rail that exceeds AREMA standards
- Upgrades to in line head hardening technology in 2013
- Qualified supplier to all North American Class I railroads
- Exporter to Latin America
- Laser profile and optical surface defect detection systems
- NDT suite with real-time ultrasonic testing
- Electric Arc furnaces and continuous casting
- Annual capacity of 600,000 tonnes

Nizhny Tagil, Russia

- Annual capacity of 550,000 tonnes
- Meets all national and a variety of global standards
- Certification of continuous casting slabs by international corporation Lloyd’s Register, Great Britain



Wheel Mill
Nizhny Tagil, Russia

Located in the cradle of Ural Mountain metallurgy, our wheels workshop in Nizhny Tagil offers unrivaled quality, service and product customization. One of the newest mills in the world, this is where every EVRAZ wheel is produced.

- Fully upgraded facility
- State-of-the-art equipment
- Automated wheel production
- NDT suite
- Conditional approval from Association of American Railroads (AAR)
- EN Certified wheels



RAILS & WHEELS

As a producer of rails and wheels, we work hard to help our clients keep commerce running smoothly and efficiently. Connecting you to more products and more possibilities with our ongoing commitment to customer relationships.

We invest in our products. We start with extensive product development and steel making expertise and strict quality control measures throughout the manufacturing process.

We respond to your needs: Because we're global, we understand our clients' requirements around the world, and our product portfolio reflects this.

We're always willing to do more. Whether you need rails, wheels, railcar components or all of the above, we'll work with you to develop products that meet your standards and your needs.

At EVRAZ, we've brought rails and wheels together—to help you keep things moving.



OUR RAILS

EVRAZ offers an extensive selection of premium, intermediate and standard rail. For complete information, please refer to our product catalogue.

Mixed Traffic

A variety of passenger train and high axle weight freight services for a range of topographies and climates.

Heavy Haul Freight

Premium and standard rail for unrivaled endurance under heavy loads and extreme wear conditions, including rail for trains with axle loads of up to 36 tonnes.

Public & Urban Transport

Customized products for subways, metros, trams and light rail trains, including rails and wheels for sharp curves, steep gradients and short braking and acceleration distances.

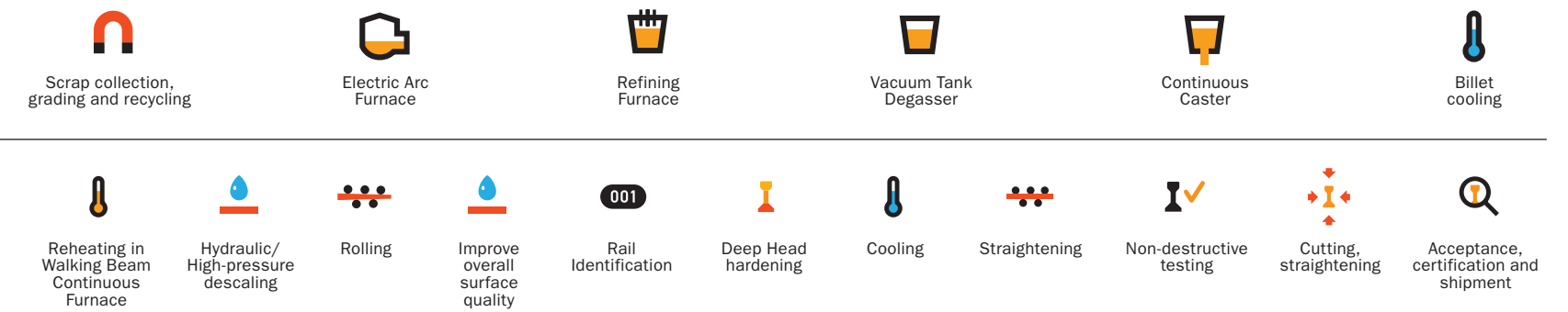
High Speed Rail

Geometrical precision, strict flatness tolerance and matchless quality for high speed lines, worldwide.



Rails shown are a representative sampling of our product range.

Premium Rail Production Process



OUR WHEELS

At our dedicated wheels facility in Nizhny Tagil, we can produce more wheels—better and faster than ever—with our new continuous billet, made from high quality EVRAZ steel.

1.

The billet is heated in an automated LOI rotary furnace, which allows for superior temperature control on every billet.
2.

The billet is then processed in the forging and rolling mill - while the black wheel goes through an integrated heat treatment facility supplied by ANDRITZ MAERTZ.
3.

After our wheels are machined on state-of the-art CNC lathes supplied by NSH the wheels go through our NDT-equipped inspection line to ensure they meet the toughest global wheel production standards.



H36



BA 004



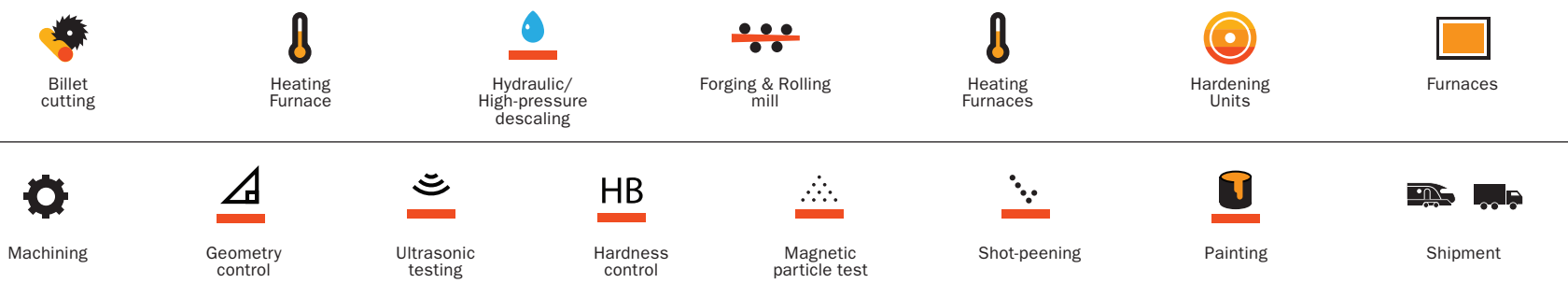
BA 318, BA 319



Locomotive wheel,
diameter 1050

Wheels shown a representative sampling of our product range.

Wheel Production Process



STANDARDS & CERTIFICATIONS

Rail Standards

EVRAZ meets all global rail standards including:

EN 13674-1:2011
60E1, 60E2, 54E1, 54E2, 54E4, 49E1
all profiles available in grade R260 and R350HT

AREMA
TR57/115RE, TR68/136RE, 132RE, 133RE, 141RE

Wheel Standards

EVRAZ meets all global wheel standards including:

M107/M208
H-36

EN 13262:2004+A2:2011
BA 318, BA 319, BA 004

BN 918277
BA 318, BA 319



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