



Railway Wheels





OMK's Company Structure

United Metallurgical Company (OMK) is a major Russian manufacturer of tubular goods, railway wheels, rolled steel, pipeline valves, and other metal products for energy transport and industrial companies.

OMK Group includes five large metallurgical companies: Vyksa Steel Works (Nizhny Novgorod Region), Almetьевsk Pipe Plant (Republic of Tatarstan), Trubodetal (Chelyabinsk Region), Blagoveshchensk Valve Plant (Republic of Bashkortostan) and Chusovoy Metallurgical Works (Perm Territory).

The total number of employees stands at over 23 thousand.



VYKSA
STEEL WORKS



CHUSOVY
METALLURGICAL
PLANT



BLAGOVESHCHENSK
VALVES PLANT



ALMETЬEVSK
PIPE PLANT



TRUBODETAL

OMK's Railway Wheel Rolling Mill

OMK is the leading railway wheel manufacturer in Russia and CIS countries.

Vyksa Steel Works (a part of OMK Group) includes the Europe's largest production line for solid-rolled railway wheels and wheel bodies with a diameter from 790 to 1000 mm for freight and passenger railcars, locomotives, and subway electrical multiple units, with annual production capacity exceeding 850 thousand wheels. The same company has the Russia's only Integrated Production Facility producing wheels for high-speed trains.

Vyksa Steel Works (VSW) is the major supplier of Russian Railways, railcar manufacturing and repair companies, and independent businesses, with a share in the Russian railway wheel market exceeding 50%. VSW's wheel production is governed by international standards and custom technical requirements.

VSW is the lead partner in developing brand new innovative wheel designs. By implementing such designs, VSW contributes to improvement of transportation efficiency and to development of heavy-freight and high-speed passenger train service.

The Wheel Rolling Shop staff count is over 1000 people.

VSW supplies its railway wheels to more than 30 countries, including, but not limited to, USA, Canada, Slovakia, Czech Republic, India, Chile, Poland, Romania, Bulgaria, Serbia, South Korea, Baltic countries, CIS.



Certification

OMK's railway products are being made based on international standards, including GOST, AAR M107/M208, EN13262, IRS R19-93, as well as according to specifically developed technical requirements. OMK's highest wheel quality is verified by certificates issued by the Russian Register of Certification on the Federal Railway Transport, ISO, and European and American Railways.

The plant's quality management and production system is certified according to IRIS, ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007, as well as according to Russian national railway standard.

VSW's Research Laboratory is capable to conduct tests in accordance with rules and standards of Russian, European, North American, Indian, and Korean Railways.

The Company introduces and certifies new wheel types every year for domestic market and export.



Products

VSW's high-end equipment allows producing hardened solid-rolled wheels with increased axle load for safe use under various environmental conditions.

The integrated wheel rolling facility makes a wide range of wheels with precise geometry and improved mechanical properties. It is capable to supply wheels with machining of all surfaces.

Wheels for Freight and Passenger Railcars

Name	Technical Requirements
Solid-rolled railroad wheels Ø957 mm for freight and passenger railcars with axle load of 23.5 tf, 25-30 tf Steel grades: 2, T	GOST 10791-2011
Solid-rolled railroad wheels Ø957 mm, low-stress design with increased performance: - made of steel grade T for freight railcars with axle load from 23.5 to 27 tf; - made of steel grade 2 for freight railcars with axle load of 23.5 tf; - made of steel grade A for passenger rolling stock	GOST 10791-2011
Wheels for subway trains Ø790 mm and Ø865 mm; wheels Ø865 mm for railbuses Steel grades: 2, A	GOST 10791-2011
Solid-rolled wheels Ø914-960 mm for North American freight transport Steel grades: class C, D	AAR M-107/M-208
Solid-rolled wheels Ø840-960 mm for freight and passenger railcars in Europe Steel grades: ER7, ER8, ER9	EN 13262:2004 + A2:2011
Solid-rolled wheels Ø840-1000 mm for passenger railcars and locomotives in Asia Steel grades: ER7, ER8, ER9, RSW2, class B, class C	IRS R 19-93 pt. II, AAR M-107/M-208, EN 13262:2004 + A2:2011, KS R 9221



Products

Wheels for High-Speed Trains

Name	Technical Requirements
Solid-rolled wheels Ø920-957 mm for passenger trains in Russia Steel grades: A, ER9	GOST 10791-2011 / EN 13262:2004 + A2:2004
Solid-rolled wheels Ø800-960 mm for passenger trains in Europe Steel grades: ER7, ER8, ER9	GOST 10791-2011 / EN 13262:2004 + A2:2011
Solid-rolled wheels Ø840-920 mm for passenger trains in Asia ER7, ER8, ER9, RSW2	EN 13262:2004 + A2:2011, KS R 9221





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