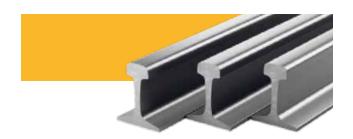


WAYLAND TECHNOLOGIES GROUP





Product catalog

Israel



Contents 2020 version

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	OR65 —	OR50	Rail type	Color code
,	New products are marked	- -		

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About EVRAZ

EVRAZ is a vertically-integrated steel and mining company with business operations in Russian Federation, the USA, Canada, the Czech Republic, Israel and Kazakhstan.

consumption of iron ore and coking coal is covered by its mining operations. The Group is listed on the London Stock Exchange and is a constituent of the FTSE 100 EVRAZ is among the top steel producers in the world. A significant portion of the Company's internal

EVRAZ is a leading player at the rail market of the Russian Federation and North America and one of the main manufacturers of railroad wheels, a leading manufacturer of rolled steel for infrastructure projects.

Certificates

High quality of EVRAZ products is proven by numerous certificates.

The complete list of the product and process conformity certificates, certificates of the management systems compliance may be found on the Company representative web-site.

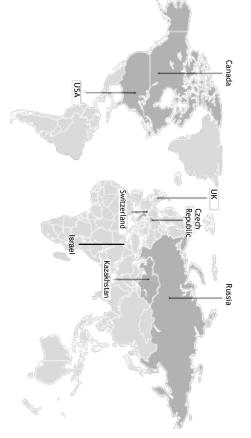
Marketing Ltd. Our Representative in Israel is Wayland Technology &



rail manufacturer in the Russian and North American markets

rolled steel and I-beam manufacturer in the Russian market

large diameter pipe manufacturer in the Russian and North American markets



Global steelmaking and mining company

- We are among the World's 30 top steel manufacturers
- Key assets in Russia and America
 A constituent of the FTSE-100 index
 Sales to more than 70 countries worldwide
- Minimum costs at all production stages
- Self-coverage in iron ore 70%, in coal 221%
 A leader among the coking coal makers in Russia and
- the World's top 5

Financial and operating highlights (as of 2020 Year-End)

Revenue US\$ million

EBITDA US\$ million

2,212

22.7

EBITDA margin

CAPEX¹ US\$ million 657

Steel

\$

13,630 kt

Iron ore products

Coking coal

Steel products²

Vanadium slag³

14,205 kt

20,653 kt

12,768 kt

19,533 mtV

Metalware

 Cold-worked rebar type V500S by EVRAZ ZSMK is a laureate of the "100 Best Products of Russia" competition.

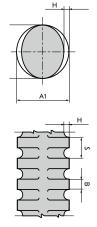
We come up with the best solutions for our clients



Metalware

Wire

The products are manufactured at EVRAZ ZSMK.



Wire for reinforcement of the reinforced concrete structures

Wire class VR-1 for reinforcement of the reinforced concrete structures

Material and shape specification

Wire for reinforcement of the reinforced concrete structures class VR-1; Ø 2-5; 2-6; 27; 2-8; 30; 32; 33; 35; 36; 3.7; 3.8; 4.0; 4.2; 4.5; 4.6; 4.7; 4.8; 5.0; 5.75	Diameter, tolerances, mm
Intended for reinforcement of the reinforced concrete structures	Application
Intended for reinforcement of the reinforced concrete TU 1213-290-05757676-2015	Chemistry and techspecs reference document
Is manufactured of low carbon steel grades Sitkp, tips, Si2kp, Si2ps, Si3kp and Si3ps as per GCST 380-2005	Steel grade
In coils 500 to 1,000 kg, loose	Supply conditions

Plain wire

Material and shape specification

Low carbon steel wire for electrode making: 0 1.2 to 6.0 Tolerances: 0 1.2 + 1.4-0.09; 0 15-0.02; 0 25-0.006; 0 3.5 to 6.0-0.08	Alloy steel welding wire: 0.08;10;12;14;15;16;20; 0.08;10;12;14;15;16;20; 0.25;30;40;50. Tolerances: 0.08;0.07; 0.10;15;0.09; 0.16;30;0.01; 0.06;0.01;	Cold-heading carbon steel wire 0 2.6 to 6.0 Tolerances: 0 2.6 + 3.0-0.06; 0 3.0 to 6.0-0.08	Low carbon steel wire for general application: 0.8(-2.0) 0.8(-2.0) 10lerances: O 0.8 + 1.0-0.05; 0.11 + 1.2-0.06; 0.13 + 2.0-0.0; 0.22 + 3.2-0.12; 0.35 + 6.0-0.6; 0.63 to 9.0-0.20	Diameter, tolerances, mm
Intended for electrode making	Intended for gasshielded welding	Intended for manufacturing of fasteners by cold heading and cold extrusion	Intended for manufacturing of nalls, meshes, fences, burding and other applications	Application
TU 24.3411.130 <i>-299-57676-2</i> 017	GOST 2246-70 TU 1227-267-05757676-2014	GOST 5663-79	GOST 3282-74	Chemistry and techspecs reference document
Manufactured of steel grades Sv-08A as per GOST 2246-70	Manufactured from stee grades Sv-08G2S as per GOST 2246-70	Manufactured of steel grade 10, 10kp, 15, 15kp, 20, 20kp as per GOST 1050-2013	Manufactured from low carbon grades \$11kp, \$12kp, \$12kp, \$13kp, and \$13ps as per GOST 380-2005	Steel grade
0.8 to 2.0 mm: in coils of up to 60 kg. 2.5 mm and more: in coils of up to 1,100 kg, packed in polymeric film.	0.8 to 2.0 mm: in coils of up to 60 kg (=2kg) packed in plastic film; 2.5 mm and over: in coils of up to 1,000 kg packed in polymeric film	As per GOST 5663-79 diameter 2.6 to 5.9 mm in coils up to 100 kg. Diameter 6.0 mm in 1,000-kg coils	Wire diameter up to 2.0 mm is produced in 40-kg coils and is produced in 40-kg coils and is produced in 10-coil bundles; wire dia 30-to-1,100 kg rectangular bundles; wire dia 2.5 to 6.0 mm in bundles of 150-65 kg, and is fled together in unit loads of 3 coils weighing 500 to 1,100 kg	Supply conditions

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Cold-worked rolled rebars

The products are manufactured at EVRAZ ZSMK.

Material and shape specification

Class V500S, Ø 5.0; 5.5; 6.0; 6.5; 7.0; 7.5; 8.0; 8.5; 9.0; 10.0	Dimensions (diameter), tolerances, mm
Class V5005, Are intended for reinforcement of O 5.0; 5.5; 6.0; 6.5; 7.0; concrete elements both as individual rods 7.5; 8.0; 8.5; 9.0; 10.0 and as parts of the reinforcement meshes	Application
GOST R 52544-2006 TU 14-1-5627-20122	Chemistry reference document
The products are manufactured of steel grades \$13Gps as per GOST 380-2005	Steel grade
In coils of up to 2,500 kg	Supply conditions

Nails

The products are manufactured at EVRAZ ZSMK.

Material and shape specification

Clout nails: 1.2 mm; Cone-headed nail: 18; 2.0; 2.5; 3.0; 3.5; 4.0; 5.0; 6.0 Tolerances on the nail length: within d, where d is the nail shank diameter	Dimensions (diameter), tolerances, mm
GOST 4028-43 GOST 283-75	Chemistry and techspecs reference document
Manufactured of low carbon nn-hardened wire group II. GOST 3282-74 and STO 899-77-20TO is steel grades. Stikp, Stipp, Sti	Chemistry reference document, steel grade
0 1,2-16; 20; 25; 0 1,8-32; 0 2,0-40; 0 2,5-50; 60; 0 3,0-70; 80; 0 3,5-90; 0 4,0-100; 120; 0 5,0-150; 0 6,0-200	Product length, mm
Corrugated cartons of 5 and 25 kg A package/unit load is made of cartons with nails stowed on a wooden pallet. The size of the unit load is 1,200-800×1,000 mm, weight 1.2 i. The packages are wrapped in stretch film	Supply conditions

Mesh

The products are manufactured at EVRAZ ZSMK.

Steel mesh grid is intended for enclosures, heat insulations, walling in mines and pits, screening of materials.

Material and shape specification

Mesh size 20 x 20: - wire diameter O 2.0: - coil width 1,000 (+500); - coil width 1,000 (-45); - coil width 1,000 (-45); - coil width 1,000 (-500); - coil width 1,500 (-50); - coil width 1,500 (-50); - coil width 1,500 (-50); - coil width 1,500 (-25); - coil width 1,500 (-3); - coil width 1,500 (-3); - coil width 1,500 (-3); - coil width 1,500 (-3);	Dimensions, tolerances, mm				
GOST 5336-80	Chemistry and techspecs reference document				
Manufactured of low carbon non-hardened wire group lass per control 3282-44 of steel grades. Sitep Spips, 37249, 5754, 5754, 5754, 5754, 5754, 5754, 5754, 5754, 5754, 5754, 5754, 5754, 5754, 5754, 5754, 5754, 5754, 5754					
Mesh size 20 × 20 mm: 15 m; 35 × 35,45 × 45; 60 × 60 mm: 10 m					
In coils of up to 36.6 kg. The unit load is formed of 15 coils to a pallet (mash size 20) or of 25 coils (mesh size 35; 45; 60)					

Single steel mesh grid with square mesh is made of wire dia. 2.0 and 2.5 mm.

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Annex. Production facilities

- EVRAZ ZSMK and EVRAZ NTMK go forward with the "Clean Air" national project.
- Upon the launch of blast furnace 6, the EVRAZ NTMK blast furnace complex has become the most advanced and environmentally friendly facility in Russia.



New technologies for a better future

EVRAZ NTMK



EVRAZ NTMK is located in the Middle Urals, in Nizhny Tagil, the second largest city in Sverdlovsk region in terms of population and industrial output.

steelmaker. The company operates as a full-scale integrated

is the plant's raw materials base. with the in-house blast furnace feedstock dressing factory The Russia's largest titanium-magnetite ore field along

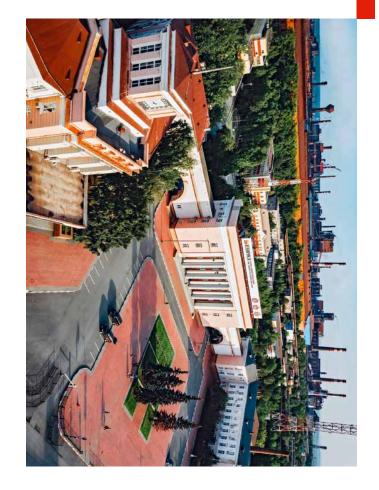
is equipped with the effective pulverized coal injection of putting out 2.55 million tpa of hot metal. The complex furnace complex in the Russian Federation includes two technology to save on natural gas and coke. effective blast furnaces (BF No. 6 and 7) each capable The most advanced and environmentally friendly blast

> Liquid steel is produced at the Basic Oxygen Plant which can make 4,480 K tpa. Steel is produced from vanadium hot metal by a two-phase method where sellable V slag is produced at the first step.

manufacture a wide mix of finished products: Rolling operations include seven hot rolling mills which

- a rail and structural steel mill with a heat treatment channels), pipe blanks, round bars, square bars, axle sections, railcar sections (Z-beam, railcar post, special undeground railways channels, track shoes (grousers) plant: railway rails, crane rails, conductor rails for
- a heavy section mill: channels, angles, railcar post, mine working supports (pit props), R33 rails, R65 fish plate bars, square bars; blank, counter-rail angle type SP850, pipe blanks, round

- a universal beam mill: general purpose I-beams,
 H-beams, UC beams, sheet piles, square and rectangular bars, pipe blanks;
 a wheel rolling mill: locomotive and railcar wheels,
- locomotive wheel centers, wheel blanks;
- a tire mill: railcar wheel tires, machine building rings;
- ball mills SPSh-40-80, SPSh-80-120, SPSh-60-120: grinding balls, diameters 40 to 120 mm.



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%

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EVRAZ ZSMK



steelmaker in Siberia. EVRAZ ZSMK is located in Novokuznetsk and is the largest

company operates as a full-scale integrated steelmaker. mining and dressing companies of the Kemerovo region, company. In 2018, Evrazruda, which consolidated several the rail facility which represent the integrated steelmaking EVRAZ ZSMK includes the construction steel facility and EVRAZ — Consolidated West Siberian Metallurgical Plant. Since July 1, 2011 ZSMK and NKMK have merged into has become the mining unit of EVRAZ ZSMK. The

is equipped with four stoves. 3,000 m³, blast furnace № 2: 2,000 m³. Each blast furnace total usable volume of 8,000 m³. Blast furnaces No1 and 3: Hot metal is manufactured in three blast furnaces of the

strand casters and an ingot teeming plant. comprise two oxygen melt plants, five converters (three Steelmaking operations of the construction steel facility 160-t converters and two 350-t converters), bar and slab

%

The rolling plant of the construction steel plant comprises:

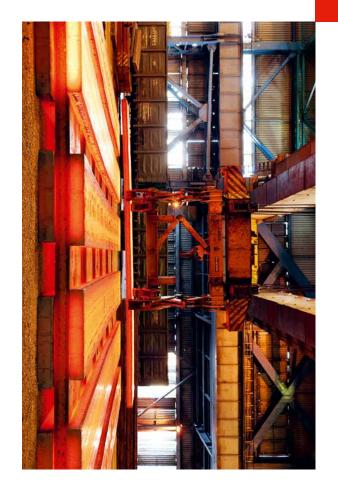
- a breakdown mill 1,250 (square bars, slabs);
- a continuous bar mill (square bars);
- a wire mill 250-1 (wire rod, rebars, round bars);
- two light section mills: 250-1 (rebars, round bars, angles),
- a medium section mill 450 (special interchangeable section type SVP, I-beam, channel, monorail beam, 250-2 (rebars, round bars)
- angle, round bar, square bar 60 \times 60, rebar); a steel rolling mill (SPrP): wire, nails and mesh.

EVRAZ ZSMK Rail Mill is the leading manufacturer in various diameter. 2 located on the same premises produce grinding balls of railway rails, rails for turnouts. Furthermore, ball mills 1 and beam mill produces railway, tram line and underground terms of rail range in Russia and worldwide. The rail and

> brand new production facility was launched equipped with cutting-edge machinery: a universal rolling mill by SMS MEER, a SES rail head-hardening plant, a KOCH by GEISMAR. drilling and cutting machines by MFL, hydraulic presses non-destructive test line with several rail test phases, cooling bed, a BRONKS roller straightening plant, a revamping project of the rail and beam plant. In fact, a In April 2013 EVRAZ has completed a large-scale

innovative head-hardening process. manufacturing of rails up to 100 meters long using the steelmaker was the first in Russia and the CIS to master world's most modern rail manufacturers. The integrated After revamping EVRAZ ZSMK has become one of the

> rated capacity of 100 tons; secondary metallurgy: ladle metallurgy furnaces and a VD degasser. is produced in an electric steelmaking furnace of the The design capacity of the steelmaking operations of the rail facility is 950 K tpa of liquid steel. Liquid steel



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EVRAZ Caspian Steel



EVRAZ Caspian Steel is a manufacturer of light sections. Located in Kostanay, the Republic of Kazakhstan. The investment project was implemented by "Evraz Caspian Steel" LLC, where 65% of the shares belong to EVRAZ, 35% — to JSC "Caspian Group".

The plant was commissioned in December 2013. Its construction took two and a half years. The investments totaled 131 million US dollars.

The design capacity of the rolling mill: 450 K tpa of rebars, steel billets are sourced from EVRAZ ZSMK. The products of the plant are marketed in Kazakhstan and exported to Ukraine, Tajikistan, Kyrgyzstan, etc.).

The plant is based on modern engineering where advanced technologies are used. Siemens SPA, Italy, was the general supplier of equipment for the company. During the project implementation the environmental issues were a special focus. Indeed, there is a zero environmental impact on water bodies.

8

Product mix of EVRAZ Caspian Steel:

- hot-rolled round steel;
- hot-rolled deformed rebar sections for reinforcement of
- reinforced concrete structures;
- ebars for reinforced concrete structures.

 Pehars are manufactured in compliance with the period of th

standards. Product quality is ensured by the latest technological equipment and quality inspection in the testing laboratory of the plant. All products are certified to comply with regulatory documents in the Kostanay branch of ISC "National Center for Expertise and Certification". The company has passed the certification procedure for quality management system ST RK ISO 9001-2009 (ISO 9001: 2008).

The 6S system is in place, which offers the principles of lean production, streamlined procedures, production standards as well as safe work practices.

In 2014 the company was awarded the "Golden Hephaestus" in the category "Project of the Year" of the industry contest of the Republic of Kazakhstan.

In 2016, EVRAZ Caspian Steel was awarded the special "Isker", established by the National Chamber of Entrepreneurs of Kazakhstan. If was awarded to 10 companies of the country, the plant was awarded for the production of steel products.

In 2017, EVRAZ Caspian Steel has won the regional exhibition and contest "The Best Product of Kazakhstan" and took 2nd place in the Kostanay region.

The participants of the republican "The Best Product of Kazakhstan" exhibition and contest became the laureates of the award. In the fall of 2016, EVRAZ Caspian Steel has won the regional stage for a second year in a row.



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