

Ilyich Steel Hot Streep Mill reconstruction





Today, Metinvest is much more than a company that sells iron ore and steel products. A unique formula made up of various ingredients helps Metinvest to be a reliable strategic partner.

The Group's geographical location and vertical integration mean that it is not dependent on raw material market fluctuations and help it to rapidly ship products worldwide.

We sell our products from Ukraine and EU countries. This gives us the opportunity to take an individual approach to each customer's needs in terms of product mix, batch size and delivery time.

The bespoke solutions that we offer differentiate us as a partner who helps to develop our customers' businesses.

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Metinvest at a glance^{*}



80,000 employees



12.1 MT steel products sold



1,000+
steel products



100 countries



43.3 MT iron ore concentrate produced



45 sales offices



22 production assets



6,700 customers



steel distribution centers



Operational highligts 2020, kt*



7,899

Flat products



819

Long products



sections

151 **Tubes & hollow**



79 Railway

products



2,225 Slabs



2,182

Pig iron



43,299

Iron ore concentrate



2,883

concentrate

Coal

Mining operations | Iron ore

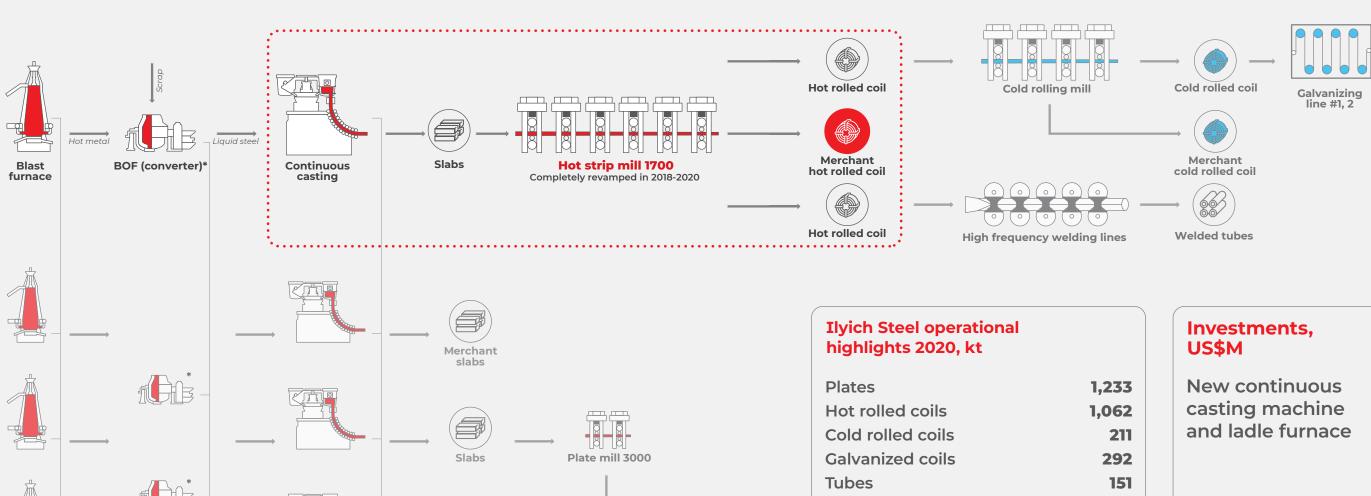
Steelmaking operations

Mining operations | Coking coal

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Metallurgical Coke Operations

Ilyich Steel production flow



Merchant plates

Investments, US\$M	
New continuous casting machine and ladle furnace	150
Hot strip mill 1700	≈ 113

630

975

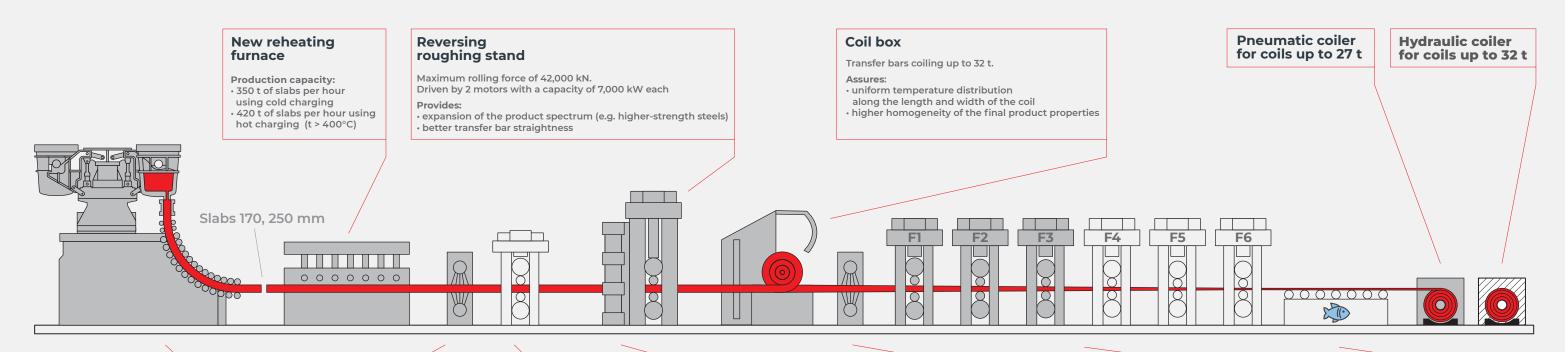
Galvanized

*Renovated in 2014-2019

Slabs

Pig iron

A qualitatively new mill with modern equipment



New continuous casting machine and ladle furnace

Production capacity -2.5 mln t of slabs a year. Slab thickness of 170-250 mm,

a width of 900-1,550 mm

Primary roughing hydraulic descaling

Working pressure of 20 MPa. Assures better strip surface quality

Single-pass roughing stand

Maximum rolling force of 25,000 kN

Edger

Rolling force of 5,000 kN. Driven by 2 motors with a capacity of 1,000 kW each.

Guaranties:

- better width tolerances
- · higher output

Finishing hydraulic descaling

Working pressure of 20 MPa.
Provides better strip surface quality

Finishing stands

F1-F3 - force of 33,000 kN and F4-F6 - force of 26,400 kN with modern hydraulic pressing devices, a bending system and an axial shift

Insure

- product mix extension
- · reduction of minimum final strip thickness
- · improved rolling stability

Laminar strip cooling system

Provides:

- uniform controlled strip cooling
- better coiling temperature tolerances
- high-strength, thermomechanically hardened coils in steel grades of up to \$460-\$500

New equipment installed in 2017-2019

New equipment installed in 2020

Existing upgraded equipment

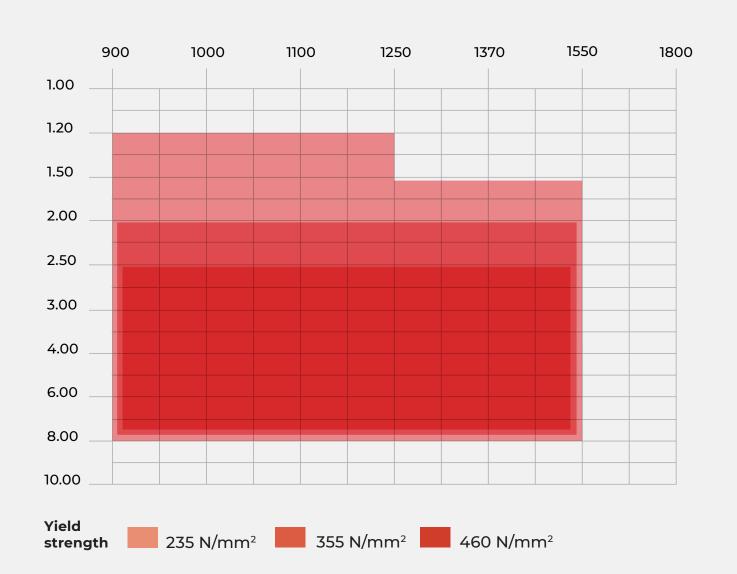
Supplier of the key equipment



Product parameters

Product mix and tolerances	Thickness, mm	1.2 - 10.0 (16*)
	Width, mm	900 - 1,550
	Tolerances on thickness	½ as per EN 10051 (¼ - on demand)
Max. coil weight, t	Width 1,000 mm	up to 20
	Width 1,250 mm	up to 27
	Width 1,550 mm	up to 32
Grade mix		DD11-DD14, 1006-1010, S185-S355, S315MC-S500MC, X42-X65
Production capacities for the merchant HRC, mln t		2.5
Share of thin coils (≤2mm) in production, %		~45%

Available dimensions



^{*} Should be agreed during the conclusion of contracts

Applications



Tubes, profiles, hollow sections and general purposes

> S235-S355 (JR/J0/J2), S355N, S355-S460 M/ML and analogues

Hot rolled. after normalizing rolling, after thermomechanical rolling



Re-rolling

1006-1012 in accordance with ASTM A568, SAE 1006 - SAE 1012 in accordance with SAE J 403, A36, S235, S275, S355 (JR/J0/J2) and analogues

> Hot rolled, after normalizing rolling (incl. pickled, pickled and oiled)



Machinery

S235-S355 (JR/J0/J2), S355-S460 M/ML, DD11-DD14, S315MC-S550MC, 30MnB5 and other.

Hot rolled, after normalizing rolling, after thermomechanical rolling (incl. pickled, pickled and oiled)



Steel service centers

S235-S355 (JR/J0/J2), S355-S460 M/ML, DD11-DD14, S315MC-S960MC, P275-P355 and other.

Hot rolled, after normalizing rolling, after thermomechanical rolling (incl. pickled, pickled and oiled)

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