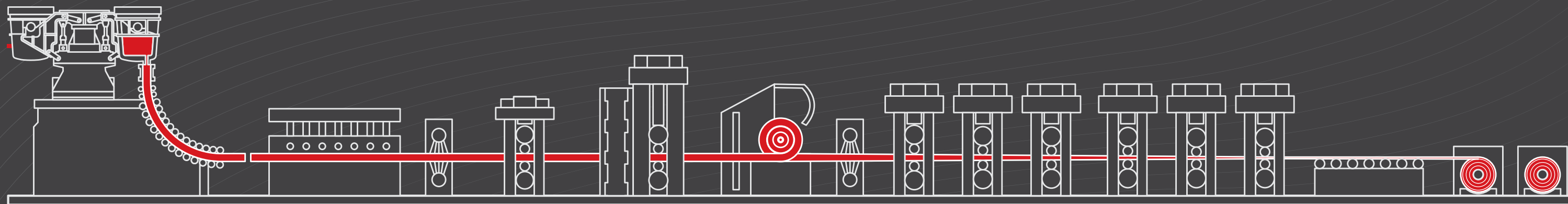
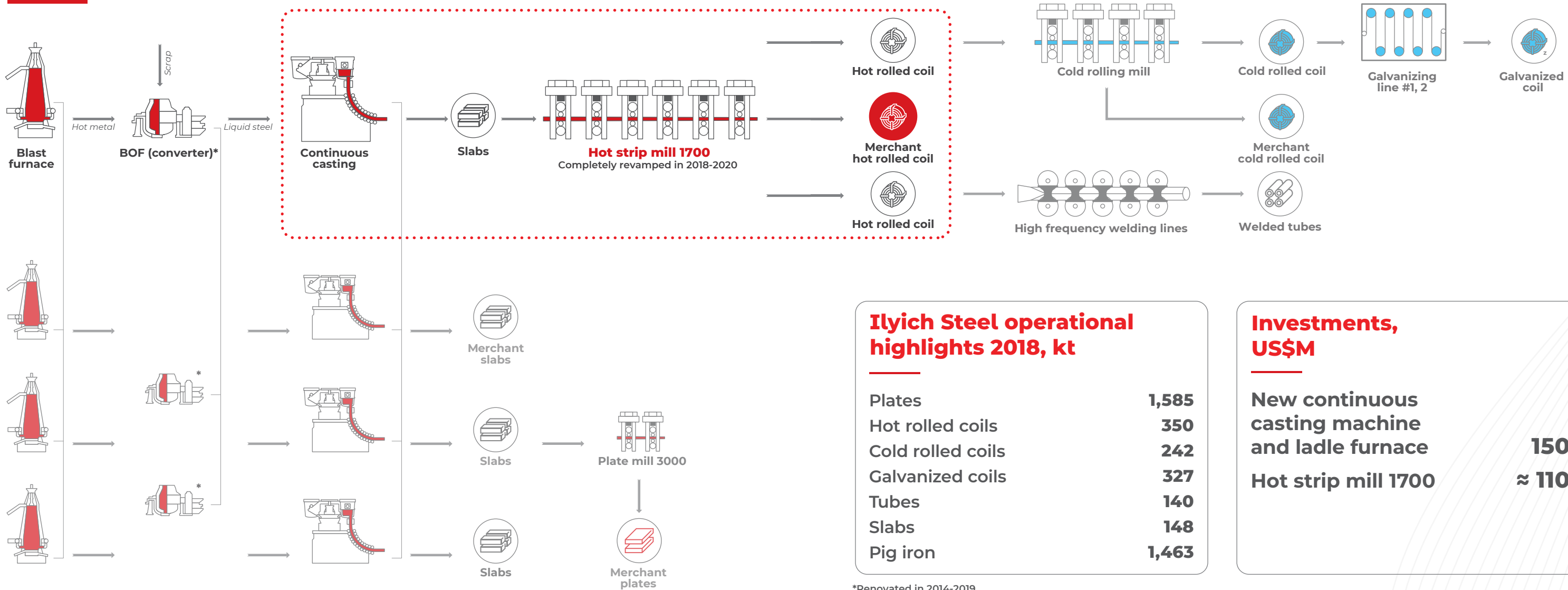


Ilyich Steel Hot Strip Mill reconstruction



Ilyich Steel production flow



Ilyich Steel operational highlights 2018, kt

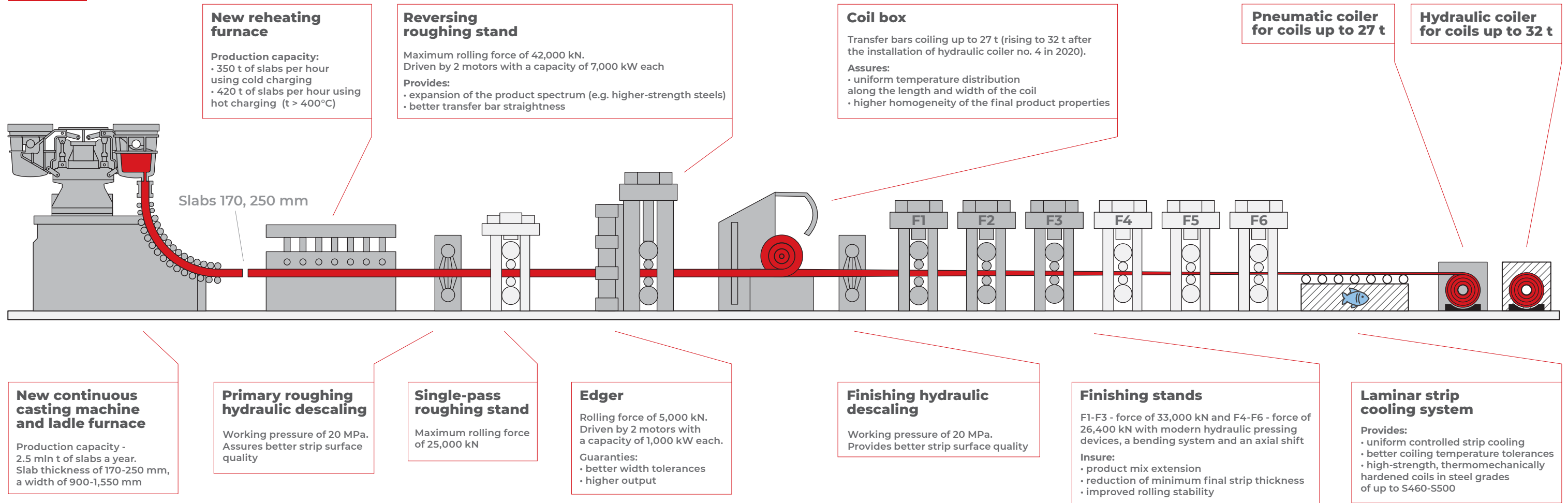
Plates	1,585
Hot rolled coils	350
Cold rolled coils	242
Galvanized coils	327
Tubes	140
Slabs	148
Pig iron	1,463

*Renovated in 2014-2019

Investments, US\$M

New continuous casting machine and ladle furnace	150
Hot strip mill 1700	≈ 110

A qualitatively new mill with modern equipment



■ New equipment installed in 2017-2019

▨ Equipment to be installed / upgraded in 2020

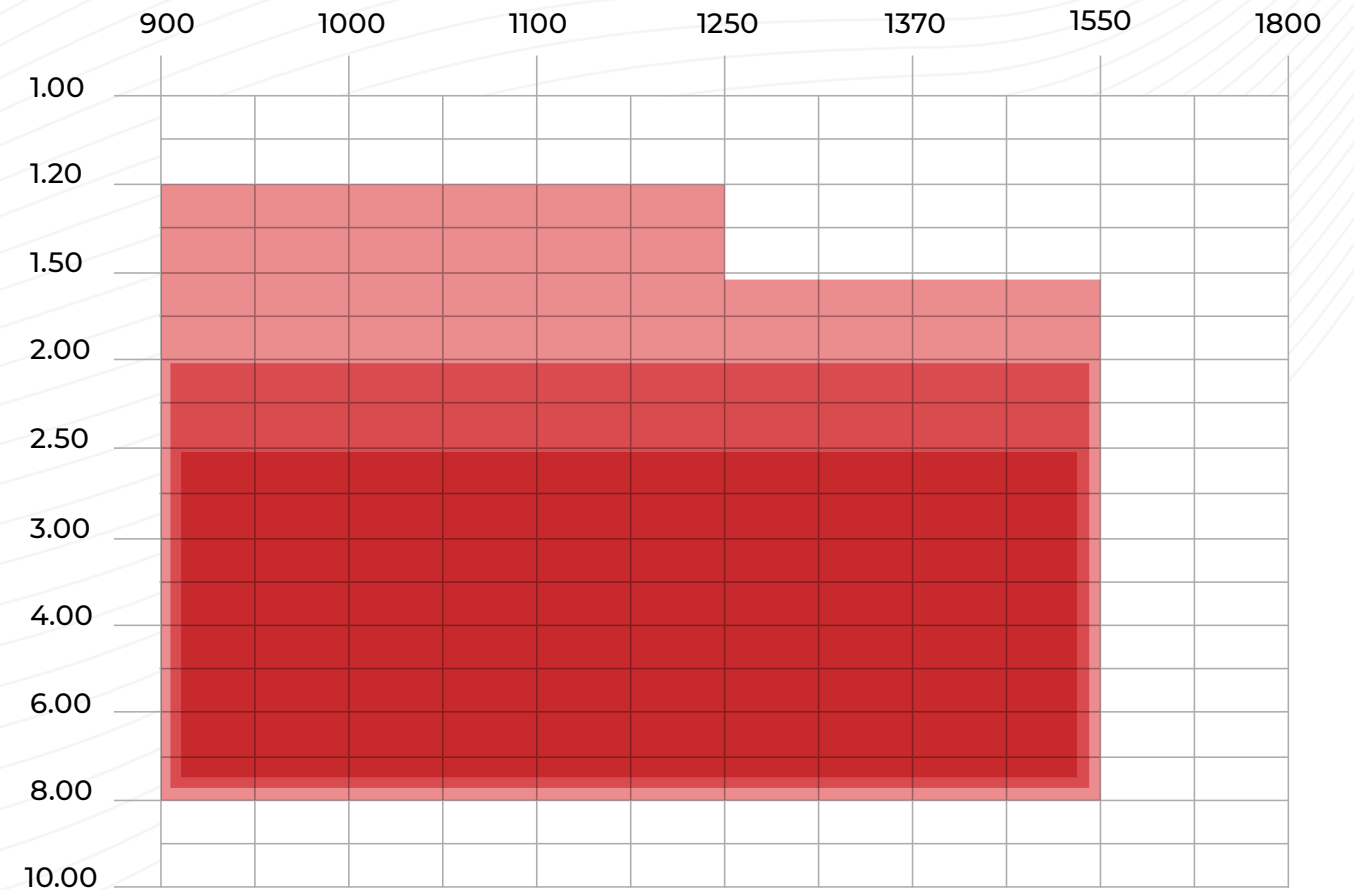
□ Existing upgraded equipment

Product parameters

Product mix and tolerances	Thickness, mm	1.2 - 8 (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	17 (20*)
	Width 1,250 mm	21 (27*)
	Width 1,550 mm	26 (32*)
Grade mix	DD11-DD14, 1006-1010, S185-S355, S315MC-S500MC, X52-X70	
Production capacities for the merchant HRC, mln t	1.7	
Share of thin coils (<2mm) in production, %	~45%	

* After construction of the hydraulic coiler

Available dimensions



Tensile strength ■ 235 N/mm² ■ 355 N/mm² ■ 460 N/mm²

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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