



STEEL BARS

PRODUCTS, DIMENSIONS

UNITS	PRODUCT	DIMENSIONS
Light section mill	round bars	16 – 80 mm
	square bars	15 – 55 mm
	hexagons	15 – 57 mm
	flat steel for parabolic springs	Thickness: 15 – 33 mm, Width: 50 – 90 mm
	peeled bars	∅ 17 – 78 mm, h9, h11
Medium section mill	round bars	40 – 90 mm
	square bars	40 – 65 mm
	hexagons	43, 48, 52, 57, 63 mm
	flat steel	50 – 150 × 5 – 50 mm
	peeled bars	∅ 38 – 88 mm, h9, h11
Heavy section (billet) mill	billets, blooms	70 – 320 mm
	round bars	70 – 300 mm (2 3/4" – 11 1/2")
	peeled bars	∅ 70 – 290 mm, h11

TYPES OF STEEL BRANDS PRODUCED

Structural steels	Bearing steels
Carbon steels	Steel for fasteners
Micro-alloy steels	Tool steels
Case-hardening steels	Steels according customer specifications
Free-cutting steels	Structural steels for automotive
Chain steels	Steels for cold forming
Spring steels	Steels for gear applications
Alloy steel for further treatment	

PRODUCTION FACILITIES

Continuous Light Section Mill

The mill is equipped with the ASC block enabling the precise rolling of the SBQ bars up to the diameter of 80 mm. The products move to the cooling beds from which they, in the length of 80 – 110 m, advance to the conditioning line. They are divided by the saws and bond at the binding line. The latest Garret coilers enable the coiling of wire rod into coils in course and the slow cooling of wire rod coils in insulated tunnels.

Substantial part of the production is then treated in the finalizing facilities of heat treatment such as annealing (+A, +AC, +FP, SR) and quenching and tempering (+QT) on the induction heat treatment lines. Other treatments – peeling, chamfering, or drawing – are also possible. The internal and surface defects, and material identity are checked on the final products.

Medium Rolling Mill

The product range consists of round, square and flat bars, spring steel, railway superstructure accessories and special profiles.

Billet Rolling Mill

The product portfolio consists of carbon, carbon manganese and alloyed structural steel, in smaller size corrosion-proof and tool steel also. The company produces round bars ∅ 70 – 300 mm, billets 70 – 165 mm and squares 170 – 300 mm. To ensure higher added value, considerable share of production undergoes heat treatment (heat treatment, annealing) or peeling.

There are two heat treatment and two annealing lines running. The main kinds of heat treatment are quenching, tempering, soft annealing, normalizing annealing, annealing for inner stress relief reducing and spheroidizing.

Finalizing is equipped with defects testing devices for surface and internal defects testing, mobile optical spectrometer for chemical material analyses, 2 peeling machines with the possibility of bar peeling up to diameter 290 mm, lengths from 3 up to 7 m with the dimension tolerance up to h11.

QUALITY

Quality management system

The production of steel bars as well as the portfolio of other long products are included into an integrated management system (IMS), which includes a certified quality management system (QMS), environmental management system (EMS), energy management system (EnMS), as well as occupational health and safety (OHS), major accident prevention (MAP) and sustainability.

Certificates

<https://www.trz.cz/en/products/steel-bars/>

CONTACT

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