



LIBERTY

Liberty Ostrava a.s.

LONG PRODUCTS

Heavy-Section Rolling Mill produces medium and heavy section steel from round bars through shaped profiles to profiles of special cross sections. Furthermore, the mill produces mine supports, equal and unequal angels and also flat bars from 120 up to 200 mm width. **Continuous Wire-Rod Mill** produces hot-rolled steel wire rod of diameters from 5,5 up to 14 mm, and moreover, reinforcing bars in coils of small diameters. **Medium-Section Rolling Mill** is an up-to-date rolling mill, which produces a wide assortment of rolled steel: fine and medium sections of basic shapes, ribbed reinforcing steel, merchant bars and also some special sections.

Hot rolled sections and merchant bars

Basic offer of steel grades for hot rolled sections and merchant bars

Structural steels	EN 10025-2:2004	S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S355K2*, S235JR/S275JR (doublegrade)**
	EN 10025-4:2004	S355M*, S420M*
	Lloyd's register requirements	Grade A, Grade B, Grade D
	DNV-GL rules	VL A, VL B, VL D
Engineering steels	EN 10025-2:2004	E295, E335, E360*
Atmospheric corrosion resistant structural steel	EN 10025-5:2004	S355J0W*, S355J2W* and S355K2W*
Carbon steels	EN 10083-2:2006	C35*, C35E*, C35R*, C45*, C45E*, C45R*, C55*, C55E*, C55R*, C60*, C60E*, C60R*
Case hardening steels	EN 10084:2008	C10E*, C15E*
Structure steel with specific elevated temperature properties	EN 10028-2:2009, EN 10273:2007	16Mo3+AR*

* These grades are not offered on the standard basis, only upon consultation with the manufacturer.

** No CE-marking

Grades according to EN 10025-2:2004 are delivered in the condition +M (+AR upon customer's request).

Round bars

Size	Standard	Supplied length
Ø 10 – 110 mm	EN 10060:2003, DIN 1013-1:1976, ČSN 42 5510-1:1994	6 – 16 m in Ø from 10 to 65 mm (0;+100 mm) ¹
		6 – 12 m in Ø from 70 to 105 mm (0;+100 mm) ¹
		6 – 10 m in Ø 110 mm (0;+100 mm) ¹

Flat bars and wide flats

Size	Standard	Supplied length
Width 18 – 200 mm Thickness 4 – 60 mm	EN 10058:2018, DIN 1017-1:1967, ČSN 42 5522-1:1994	6 – 16* m in width from 18 to 125 mm (0;+100 mm) ¹
		6 – 12 m in width from 120 to 200 mm (0;+100 mm) ¹

* Bars length of 16 m is not offered on the standard basis, only upon consultation with the manufacturer.

¹ Other available lengths and tolerances only upon consultation with the manufacturer.

Equal angles

Size	Standard	Supplied length
Legs from 35 × 35 to 150 × 150 mm Thickness from 3 to 18 mm	EN 10056-1:2017, DIN 1028:1994, ČSN 42 5541:1974 EN 10056-2:1993	6 – 15 m (0;+100 mm) ¹

Unequal angles

Size	Standard	Supplied length
Legs from 100 × 65 to 140 × 90 mm Thickness from 7 to 14 mm	EN 10056-1:2017, DIN 1029:1994, ČSN 42 5545:1977 EN 10056-2:1993	6 – 15 m (0;+100 mm) ¹

IPN and IPE beams

Size	Standard	Supplied length
Depth 160 – 220 mm	DIN 1025-1:1995, EN 10365:2017 EN 10024:1995 DIN 1025-5:1994, ČSN 425553:1985 EN 10034:1993	6 – 15 m (0;+100 mm) ¹

HEA and HEB wide flange beams

Size	Standard	Supplied length
Depth 100 – 140 mm	EN 10365:2017, DIN 1025-2:1995, DIN 1025-3:1994 EN 10034:1993	6 – 15 m (0;+100 mm) ¹

UPN channels with taper flanges

Size	Standard	Supplied length
Depth 50 – 220 mm	EN 10365:2017, DIN 1026-1:2009, ČSN 42 5570:1969 EN 10279:2000	6 – 15 m (0;+100 mm) ¹

UE shape sections

Size	Standard	Supplied length
Depth 80, 100, 120 mm	ČSN 42 5571:1961, EN 10279:2000	6 – 15 m (0;+100 mm) ¹

Special sections

Size - Product	Standard	Supplied length
I 155 bars - beams for suspension tracks	KN 425564:2012	6 - 12 m (0;+100 mm) ¹
JKL 55 - crane rails	KN 42 5677:2012	6 and 12 m (0;+100 mm) ¹
KL 93/18 - rails for mine and field tracks	ČSN 42 5676:1990	6 and 12 m (0;+100 mm) ¹
KL 115/24 - rails for mine and field tracks	ČSN 42 5676:1990	6 and 12 m (0;+100 mm) ¹

¹ Other available lengths and tolerances only upon consultation with the manufacturer.

Steel Mine Supports

Profile	Grade	Standard	TDP
K21; K24	E 295	EN 10025-2:2004	ČSN 42 5641:1982
KP24			KN 44 2632:1989
S28	12 130	KN 41 2130: 2004	ČSN 425641:1982
K24			Mill Drawing; DIN 21530-3:2003
TH 16,5; TH 21; TH 29; TH 34; TH 36	31Mn4	KN 41 12149:2007	
SV 29	H500M	KN 41 2500:2011	DIN 21530-3:2003-05
TH 29			

Wire rod and reinforcing steel

Product	Size	Standard	Supplied length	Grade
Wire rod in coils	Ø from 5,5 to 14 mm	EN 10025-2:2004	-	S235JR, S275JR
		ASTM A 510M:1982		1006, 1008, 1010, 1015
		EN ISO 16120-2:2017		C4D, C7D, C9D, C10D, C15D
Reinforcing steel in coils	Ø 8, 10, 12 mm	DIN 488:2009, ČSN 42 0139:2011	-	B500B
Reinforcing steel in bars	Ø from 10 to 50 mm	DIN 488:2009	6 – 16 m (0;+100 mm) ¹	B500B
		ČSN 42 0139:2011		B500B
		ÖNORM B 4707:2014		B550B
		BS 4449:2005		B500C

Leaf springs

Size - Product	Standard	Supplied length
70-100 x 17-30 type A, B, C	EN 10089	250 – 12 000 mm

Threaded bars

Size - Product	Standard	Supplied length	Grade
Threaded bars 16 – 75 mm	DIN 488:2009	6 – 24 m (0;+100 mm)	B500B
Threaded bars 57.5, 63.5 mm	TDP 358/18	6 – 16 m (0;+100 mm)	S555/700
Threaded bars 18 – 75 mm	TDP 361/15	6 – 24 m (0;+100 mm)	St670/800
Form tie bars 15 – 26,5 mm	TDP 385/19	6 – 16 m (0;+100 mm)	St900/1100
Mining bars 16 – 28 mm	TDP 352/15	6 – 16 m (0;+100 mm)	St450/700
			St500/700
			St640/800
Rock bolts 18.5 – 31 MM	TDP 359/15	6 – 16 m (0;+100 mm)	St470/570
			St450/650
			St640/800
			St450/700

¹ Other available lengths and tolerances only upon consultation with the manufacturer.

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