



Range of metallurgical products

1. Pig Iron

- A. Basic Pig Iron PL1, PL2 according to GOST 805-95 (Standard group I, II, III; classes A and B; categories 2-5) in ingots 15 kg max of pyramidal form without pinches.
- B. Low Sulfur Pig Iron (Low Sulfur) according to GOST 805-95 in ingots 15 kg max of pyramidal form without pinches (S – 0.015% max)
- C. Foundry iron (available in limited quantities) L1-L6 according to GOST 4832-95 (Standard group I, II; classes A and B; categories 1-4)

2. Hot rolled steel bars

(Max length of hot rolled steel bars - 6000 mm.)

Description/Standard/Dimensions, mm	Steel grade / Standart	Technical requirement Standard
Round rolled bars GOST 2590-88 diameter 12, 12,5, 13, 14, 14,5, 15, 16, 17, 18, 18,5, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32, 33, 34, 36, 38, 40, 42, 44, 45, 47, 48, 50, 52, 53, 54, 55, 56, 57, 60, 62, 65, 67, 70, 72, 75, 77, 80	St0-St6 – GOST 380-94 ; 10-60 - GOST 1050-88 ; 15X, 20X, 30X, 35X, 40X, 45X, 18XГТ, 25XГТ, 30XГТ, 15-50Г, 12XH3A, 20XH3A, 40XH, 30XГСА, 35XГСА, 20XHP, 20XГHP, 45XH, 33XC, 38XC - GOST 4543-71; 65Г, (55C2, 55C2A, 60C2, 60C2A, 60C2Г diam. up to 34мм) GOST 14959-79 ; 09Г2С – GOST 19281-89 ; Y7- Y12 – GOST 1435-99 ; 25Г2 – TY Y 332-2344-90-96 ; S235, S275, S355 (JO, JR, J2G3, J2G4) - EN 10025 ; A36/A36M – ASTM A36/A36M, 09Г2, 09Г2С – GOST 19281-89	GOST 535-88 category 1-5, group I-III, GOST 1050-88, group of surface quality 2ГП, 3ГП GOST 4543-71, group of surface quality 2-3, GOST 19281-89; GOST 14959-79, category 1, 3, 3Б, 4; GOST 1435-99 group 3ГП; TY Y 332-234-90-96
Square rolled bars GOST 2591-88 12, 12,7, 14, 16, 22, 25, 28, 30, 32, 35, 38, 40, 42, 45, 50, 55, 60	St0-St6 - GOST 380-94 ; 10-50 – GOST 1050-88 ; 35XГСА, 15X-40X - GOST 4543-71 ; S235, S275, S355(JO, JR, J2G3, J2G4) - EN 10025 ; A36/A36M – ASTM A36/A36M; 55C2, 55C2A, 60C2A- GOST 14959-79	GOST 535-88 category 1-5, group I-III, GOST 1050-88, group of surface quality, 2ГП, 3ГП, GOST 4543-71, group of surface quality 2-3, GOST 14959-79, category 1, 3, 3Б
Flat bars GOST 103-76 20x8, 10, 12; 22x6, 8, 10, 12; 25x5, 6, 8, 10, 12, 14, 16, 20; 30x5, 6, 7, 8, 10, 12, 16, 18, 20; 32x12, 18, 20, 25; 36x6, 10, 12, 14, 16, 18, 20; 40x6, 7, 8, 10, 12, 14, 16, 18, 20, 25; 45x6, 8, 10, 12, 14, 16, 18, 20, 22, 25; 50x6, 7, 8, 10, 12, 30; 56x32, 36; 60x6, 7, 8, 10, 12, 18, 25, 32; 65x6, 7, 8, 10, 12; 75x10, 12; 80x16, 30, 40; 90x9, 10, 12, 14, 16, 18, 25, 30, 40; 100x7, 8, 10, 11, 12, 14, 16; 102x10,5, 12, 14, 16; 110x7, 8, 9, 10, 11, 12, 14, 16; 120x7, 8, 9, 10, 11, 12, 14, 16; 130x7, 8, 9, 10, 11, 12, 14, 16; 140x7, 8, 9, 10, 11, 12, 14, 16; 150x7, 8, 9, 10, 12, 14, 16; 160x7, 8, 10, 12;	St0-St6 - GOST 380-94 ; 10-50 – GOST 1050-88 ; 40XH, 45XH, 65Г, 15X-40X, 18XГТ-30XГТ, 12XH3A, 20XHP, 20XГHP, 20XH3A, 30-35XГСА – GOST 4543-71 ; Y7, Y8 – GOST 1435-90 ; 65Г, 55C2, 55C2A, 60C2, 60C2A, 50XГ, 50XГA – GOST 14959-79 ; 60C2XГ – TY Y 14-2-1205-98 ; 40P – TY 14-1-248-95 ; 09Г2С GOST 19281-89 ; S235, S275, S355(JO, JR, J2G3, J2G4) - EN 10025 ; A36/A36M – ASTM A36/A36M	GOST 535-88 category 1-5, group I-III, GOST 1050-88, group of surface quality 2ГП, 3ГП, GOST 4543-71, group of surface quality 2-3; GOST 14959-79, category 1, 3, 3Б, 4, 4Б; GOST1435-99; TY/TC 14-1-248-95, 14-2-1205-98

Hexagonal section bars GOST 2879-88 14, 17, 19, 21, 22, 24, 25, 27, 28, 36, 41, 43, 46, 47, 52	St0-St6 - GOST 380-94 ; 10-50 – GOST 1050-88 ; 15X-45X GOST – 4543-71 ; S235JR, S275JR – EN 10025 ; A36/A36M – ASTM A36/A36M	GOST 535-88 category 1-5, group I-III, GOST 1050-88, group of surface quality 2ГП, 3ГП, GOST 4543-71, group of surface quality 2-3
Asymmetrical bulb flat for ship-building GOST 21937-76 6, 7, 8, 9, 10	A, B, A32, D32, A40S GOST 5521-93	GOST 5521-93
Symmetrical bulb flat for ship-building GOST 9235-76 1035	A; B; A32; D32 GOST 5521-93	GOST 5521-93
Equal angle GOST 8509-93 25x25x4, 45x45x5, 50x50x6, 63x63x6, 75x75x7	St0-St6 - GOST 380-94 ; S235JR, S275JR – EN 10025 , A36/A36M – ASTM A36/A36M	GOST 535-88 category 1-5, group I
Trapeziform spring strip TY Y 332-234-96-99 45x6, 45x6,5	50XГA - TY Y 332-234-96-99	TY Y 332-234-96-99, (not heat-treated, optional hardness, not straightened)
T-type spring strip TY Y 14-2-1205-98 90x63x18x7,2; 100x70x16x6	60C2XГ - TY Y 14-2-1205-98	TY Y/TC 14-2-1205-98
Spring strip TY Y 322-234-96-99 55x7, 65x7	50XГ, 50XГA – TY Y 322-234-96-99	TY Y 322-234-96-99, (without annealing, optional hardness, not straightened)
Spring strip (with round edges) TY 14-1-3829-84 33*5,5 TY Y27.100191164-105-2003 32*10	55C2, 60C2, 60C2A GOST 14959-79	TY 14 -1-3829-84 GOST 14959-79 (without annealing, optional hardness, not straightened)
Chute spring rolled bars GOST/GOST 7419-90 76x10, 76x13, 89x13, 120x16	55C2, 55C2A, 60C2, 60C2A - GOST 14959-79	GOST 14959-79 category 1,3, 3Б,4,4Б; GOST 7419-90
Rolled bars for shares with solid thickness TY 14-2-760-87 105C	Л53 TY 14-2-760-87	TY Y 14-2-760-87
Rolled bars for blades of digging equipment GOST/GOST 17152-89 155x12x3	St5 - GOST 380-94 ; 65Г - GOST 14959-79	GOST 17152-89
Double T-shapes for hinge points №8 TY Y 27.1-00190319-1304-2003 81,3x35x6	30XГCA – GOST 4543-71	TY Y 27.1-00190319-1304-2003
Profile for conveyer scraper TY Y 77-096-172-2001 60x35x12	СТ6 GOST 380-94	GOST 535-88 group II
Beetcutting knife TY Y 322-234-94-98 97x8,8x5,9	У7, У8 – GOST 1435-99	TY/TC Y 322-234-94--98
Strip rolled bars for machine components TY 14-1-341-72; 26x21	45 - GOST 1050-88	TY/TC 14-1-341-72
Strip rolled bars for cultivator TY Y 27.1-00191164-99-2003 B x A, мм 60x14мм	St0-St6 – GOST 380-94 ; 10-50 – GOST 1050-88	GOST 535-88 category 1-5, group I-III GOST 1050-88 group of surface quality 2ГП, 3ГП
Strip rolled bars for machine-building applications TY Y 27.1-00191164-60-2003 BxA, мм 90x20 100x20 120x20 140x20 160x14	St0-St6 – GOST 380-94 10-50 – GOST 1050-88 15X-45X, 40XH, 45XH, 18XГТ-30XГТ, 30XГCA-35XГCA GOST 4543-71	GOST 535-88 category 1-5, group I-III GOST 1050-88 group of surface quality 2ГП, 3ГП GOST 4543-71 group of surface quality 2-3
Rolled bars for reinforcement of steel-concrete constructions GOST/GOST 5781-82 № 12, 14, 18, 20, 25 classes AI,All,AIII	St0-St6 – GOST 380-94 ; 35ГC – GOST 5781-82	GOST 5781-82

X-strips TY 14-2-649-85	65Г GOST 14959-79 20X, 40X, 45X GOST 4543-71	ГОСТ 14959-79 category 1
Rolled bars for rail road application TY Y 27.1- 00191164-102-2001	St4 GOST 380-94	GOST 535-88 group I
Steel profiles for tillage mechanisms 142C1 TY Y 332-234-98-2000	50 - GOST 1050-88 TY 14-2-760-87	GOST 1050-88 TY 14-2-760-87

3. Hot rolled steel plates

(Delivery in the state «after rolling», without thermal treatment within indicated dimensions and enclosed table of possible length)

Hot rolled steel plates with thickness 5-6mm and with width 2000mm can be produced in limited quantities.
For hot rolled steel plates with thickness 5mm - flatness normal (III) according to GOST 19903-74.

A. Hot rolled steel plates with the dimensions rolling according to GOST 19903-74

Description / Type	*Dimensions, mm			Technical requirement Standard	Standard /Steel grade
	thickness s	width	length		
Ordinary rolled plates					
Hot rolled steel plates made from normal strength carbon steel of plain quality	5-20	1250-2000	3000-L*	GOST 14637-89	GOST 380-94: St0, St2sp1, St2sp2, St3sp1, St3sp2, St3sp3, St3sp4, St3sp5, St4sp3, St5sp1, St5sp2.
Constructional rolled plates					
Hot rolled constructional steel plates made of increased strength steel - class of strength 265, 295, 315, 325, 345; category 1-4, 8, 10-12	5-20	1250-2000	3000-L*	GOST 19281-89	GOST 19281-89: 09Г2, 09Г2Д, 16ГС, 17ГС, 14Г2; 09Г2С, 09Г2СД, 17Г1С, 10Г2С1, 10Г2С1Д; 10ХСНД, 15ХСНД;
Rolled plates for boilers and vessels working under pressure					
Hot rolled steel plates for boilers and vessels working under pressure - category (normal strength for carbon steel) 2, 3, 4, 10 - category (increased strength for low-alloyed steel) 2, 3, 4, 10, 11, 12	5-20	1250-2000	3000-L*	GOST 5520-79	GOST 5520-79: 15K, 20K 09Г2С, 10Г2С1, 16ГС
Rolled plates for shipbuilding					
- normal strength steel - normal strength steel - increased strength steel - increased strength steel - increased strength steel - increased strength steel	6-20 6-16 6-20 6-16 6-20 6-16	1300-2000 1300-1850 1300-1850 1300-1850 1300-1850	3000-L*	GOST 5521-93	GOST 5521-93: A, B D A27s D27s A32 D32
Rolled plates for shipbuilding certified according to Russian Marine Register of Shipping					
Hot rolled steel plates for shipbuilding according to the rules and under the supervision of Russian Marine Register of Shipping (PC)				Russian	GOST 5521-93:

- normal strength steel - normal strength steel - increased strength steel - increased strength steel	6-20 6-16 6-20 6-16	1300- 2000 1300- 1850 1300- 1850 1300- 1850	3000-L*	Marine Register of Shipping	PCA, PCB PCD PCA32 PCD32
Rolled grooved plates for shipbuilding					
- normal strength steel	8; 10; 12	1400;160 0	6000- 8000	TY Y 27.1- 00190319- 1263-2001	GOST 5521-93, GOST 380-94 A, PCA, Ст3сп
High quality constructional rolled plates					
- high quality constructional carbon steel / Alloyed steel / spring alloyed steel	5-20 5-20 5-20 9-20 7	1250- 2000 1300- 1600 1300- 1600 1300- 1600 1400	3000-L* 3000-L* 3000-L* 6000- 7000 6000	GOST 1577-93 ref. 4.1.3 / 4.1.7. GOST 1577-93 GOST1577-93 TY14-1- 140975 TY Y 332-234- 92-98	GOST 1050-88: 10, 15, 20; 25; 30, 35, 40, 45, 50 GOST 14959-79: 60, 65, 70, 65Г, 65ГА, 70Г, 55С2, 55С2А, 60С2, 60С2А GOST 4543-71: 15Г, 20Г 30Г, 40Г, 50Г, 10Г2, 35Г2, 20Х, 40Х GOST 4543-71: 30ХГСА; 30ХГСА 35Г2Р (with or/and without cutting of edges)

B. Hot-rolled general purpose and constructional steel plates according to International Standards

Description / Type	*Dimensions, mm			Standard	Standard / Steel grade
	thickness	width	length		
Constructional hot rolled steel plates made from non-alloyed killed steel	5-20	1250-2000	3000-L*	ASTM A6/A6M	ASTM A36/A36M: A36/A36M
Constructional hot rolled steel plates made from non-alloyed steel of low and intermediate yield point	5-20	1250-2000	3000-L*	ASTM A6/A6M	ASTM A283 / A283M:C
Constructional hot rolled steel plates for shipbuilding made from killed steel of normal tensile strength	6-20	1300-2000	3000-L*	ASTM A6/A6M	ASTM A131 / A131M:A
Constructional hot rolled steel plates made from non-alloyed killed steel - normal strength steel - increased strength steel - increased strength steel	6-20	1250-2000	3000-L*	DIN EN 10025	DIN EN 10025: S235: JR, JRG2, JO, J2G3, J2G4, JRC, JRG2C, JOC, J2G3C, J2G4C S275: JR, JO, J2G3, J2G4, JRC, JOC, J2G3C, J2G4C S355: JR, JO, J2G3, J2G4, JRC, JOC, J2G3C, J2G4C
Constructional hot rolled steel plates made from non-alloyed steel of normal strength	5-20	1250-2000	3000-L*	JIS G 3193	JIS G 3101: SS400
Hot rolled steel plates for shipbuilding made from non-alloyed killed steel of normal strength, manufactured according to the rules and under the supervision of Germanischer Lloyd (GL)	6-20	1300-2000	3000-L*	DIN EN 10029 EN 10163	Germanischer Lloyd: GL-A, GL-B

<p>Hot rolled steel plates for shipbuilding made from constructional non-alloyed killed steel of normal strength, manufactured according to the rules and under the supervision of French Bureau Veritas (BV)</p>	6-20	1300-2000	3000-L*	DIN EN 10029 EN 10163	<p>French Bureau Veritas:</p> <p>BV A, BV B</p>
<p>Hot rolled steel plates for shipbuilding made from constructional non-alloyed killed steel of normal strength, manufactured according to the rules and under the supervision of Det Norske Veritas (DNV)</p>	6-20	1300-2000	3000-L*	DIN EN 10029 EN 10163	<p>Det Norske Veritas:</p> <p>NVA</p>
<p>Hot rolled steel plates for shipbuilding made from non-alloyed killed steel manufactured according to the rules and under the supervision of English Lloyd's Register (LR)</p> <ul style="list-style-type: none"> - normal strength steel - normal strength steel - increased strength steel - increased strength steel - increased strength steel - increased strength steel 	<p>6-20</p> <p>6-16</p> <p>6-20</p> <p>6-16</p> <p>6-20</p> <p>6-16</p>	1300-2000	3000-L*	DIN EN 10029 EN 10163	<p>Lloyd's Register:</p> <p>LRA, LRB</p> <p>LRD</p> <p>LRAH 27s</p> <p>LRDH 27s</p> <p>LRAH 32</p> <p>LRDH 32</p>
<p>Constructional hot rolled steel plates made from non-alloyed steel of normal strength steel for boilers and vessels certified according to Lloyd's Register for working at room temperature</p> <ul style="list-style-type: none"> - category 360AR, 410AR 	5-16	1250-1850	3000-L*	ASTM A6/A6M	<p>Lloyd's Register:</p> <p>360AR, 410AR</p>

Possible length (L*) of the hot rolled steel plates on rolling mill 2300, m

Thickness MM	width, MM																
	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	
5				6,0	6,0	6,0	6,0	6,0									
5,5				6,0	6,0	6,0	6,0	6,0									
6	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0				
6,5	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0				
7	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	6,0	6,0	6,0
7,5	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	6,0	6,0	6,0
8	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0
8,5	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0
9	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	13,5	12,0	12,0
9,5	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0/11,6
10	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0/11,6	11,7/11,3	11,4/11,0
10,5	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0/11,7	11,7/11,3	11,4/11,0	11,1/10,7	10,8/10,5
11	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0/11,8	11,8/11,4	11,4/11,1	11,1/10,8	10,8/10,5	10,5/10,2	10,2/10,0
11,5	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	11,9/11,6	11,5/11,2	11,2/10,9	10,9/10,6	10,6/10,3	10,3/10,0	10,0/9,7	9,7/9,5
12	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0/11,8	11,6/11,3	11,2/10,9	10,9/10,6	10,6/10,3	10,3/10,0	10,0/9,7	9,7/9,5	9,5/9,2	
12,5	12,0	12,0	12,0	12,0	12,0	12,0	12,0/11,7	11,6/11,3	11,1/10,8	10,7/10,5	10,4/10,1	10,1/10,0	9,8/9,6	9,6/9,3	9,3/9,1	9,1/8,8	
13	12,0	12,0	12,0	12,0	12,0	11,9/11,6	11,5/11,2	11,1/10,8	10,6/10,4	10,3/10,0	10,0/9,7	9,7/9,5	9,4/9,2	9,2/9,0	8,9/8,7	8,7/8,5	
13,5	12,0	12,0	12,0	12,0	11,8/11,5	11,4/11,2	11,0/10,7	10,6/10,4	10,2/10,0	9,9/9,6	9,6/9,3	9,3/9,1	9,0/8,8	8,8/8,6	8,5/8,3	8,3/8,1	
14	12,0	12,0	12,0	11,8/11,6	11,4/11,1	11,0/10,7	10,6/10,3	10,2/10,0	9,8/9,6	9,5/9,3	9,2/9,0	8,9/8,7	8,7/8,5	8,4/8,2	8,2/8,0	8,0/7,8	
14,5	12,0	12,0	11,9/11,7	11,4/11,2	10,9/10,7	10,6/10,4	10,2/10,0	9,8/9,6	9,4/9,2	9,1/9,0	8,8/8,6	8,6/8,5	8,4/8,2	8,1/8,0	7,9/7,7	7,7/7,5	
15	12,0	12,0/11,8	11,5/11,2	11,0/10,8	10,5/10,3	10,2/10,0	9,8/9,6	9,5/9,3	9,1/9,0	8,8/8,6	8,5/8,3	8,3/8,1	8,1/8,0	7,8/7,6	7,6/7,5	7,4/7,2	
15,5	12,0/11,8	11,6/11,4	11,1/10,9	10,6/10,5	10,2/10,0	9,8/9,6	9,5/9,3	9,2/9,0	8,8/8,6	8,5/8,3	8,2/8,1	8,1/8,0	7,8/7,6	7,6/7,5	7,3/7,2	7,1/7,0	
16	11,6/11,4	11,2/11,0	10,7/10,5	10,2/10,1	9,8/9,6	9,5/9,3	9,1/9,0	8,8/8,7	8,4/8,3	8,2/8,0	7,9/7,8	7,7/7,5	7,5/7,3	7,3/7,1	7,1/7,0	6,9/6,7	
16,5	11,2/11,0	10,7/10,5	10,3/10,1	9,8/9,7	9,5/9,3	9,1/9,0	8,8/8,6	8,6/8,5	8,1/8,0	7,9/7,7	7,6/7,5	7,4/7,3	7,2/7,1	7,1/7,0	6,8/6,7	6,6/6,5	
17	10,8/10,6	10,4/10,2	10,0/9,8	9,5/9,4	9,2/9,0	8,8/8,7	8,6/8,5	8,2/8,1	7,9/7,7	7,6/7,5	7,4/7,3	7,2/7,0	7,0/6,8	6,8/6,6	6,6/6,5	6,4/6,3	
17,5	10,5/10,3	10,1/9,9	9,7/9,5	9,2/9,1	8,9/8,7	8,6/8,4	8,3/8,1	8,0/7,8	7,6/7,5	7,4/7,3	7,2/7,0	7,0/6,8	6,7/6,6	6,6/6,5	6,4/6,2	6,2/6,1	
18	10,2/10,0	9,8/9,6	9,4/9,2	8,9/8,8	8,6/8,5	8,3/8,2	8,0/7,9	7,7/7,6	7,4/7,3	7,2/7,0	6,9/6,8	6,7/6,6	6,6/6,5	6,3/6,2	6,2/6,1	6,1/6,0	
18,5	9,9/9,7	9,5/9,3	9,1/9,0	8,7/8,6	8,4/8,2	8,1/7,9	7,8/7,6	7,5/7,4	7,2/7,0	6,9/6,8	6,7/6,6	6,6/6,5	6,3/6,2	6,2/6,1	6,1/6,0		
19	9,6/9,5	9,3/9,1	8,9/8,7	8,4/8,3	8,1/8,0	7,8/7,7	7,6/7,4	7,3/7,2	7,0/6,8	6,7/6,6	6,6/6,5	6,4/6,3	6,2/6,1	6,1/6,0			
19,5	9,3/9,2	9,0/8,8	8,6/8,5	8,2/8,1	7,9/7,8	7,6/7,5	7,3/7,2	7,1/7,0	6,7/6,6	6,6/6,5	6,3/6,2	6,2/6,1	6,1/6,0				
20	9,1/9,0	8,7/8,6	8,4/8,2	8,1/ 8,0	7,7/7,6	7,4/7,3	7,1/7,0	6,9/6,8	6,6/6,5	6,4/6,3	6,2/6,1	6,1/6,0					

*Length:

Numerator – for GOST 19903-74 and for classes A, D according to EN 10029;

Denominator – for Registers Rules (PC, LR, GL, BV, NV), ASTM A6/A6M and classes B, C according to EN 10025

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