







PRODUCTION CATALOGUE



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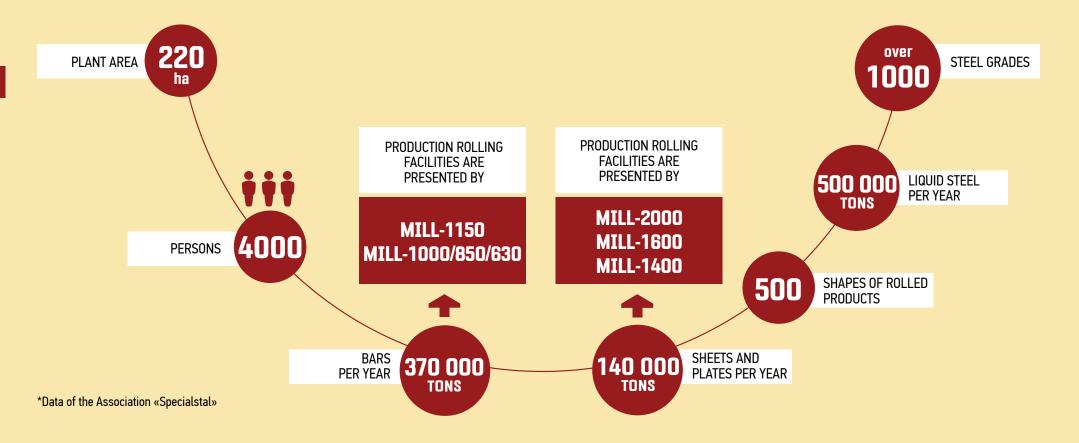
«Krasny oktyabr Corporation» JSC is the largest manufacturer of stainless steel rolled products in Russia*

The metallurgical plant had been established in 1897 by the French joint-stock Ural-Volga Steel Company on the skirts of the town of Tsaritsyn, and in November 1898 the first open-hearth furnace has been put into operation. In the postwar period, the plant obtained its current structure and final specialization in production. The main production facilities were put into operation in the 50's – 70's.

At present time the share of «Krasny oktyabr Corporation» JSC in the all-Russian manufacturing of stainless steel rolled products is 40 %.

The plant is occupied with constantly updating equipment, purchasing new machines and units as well as improving production technologies. The considerable attention is paid to social policy issues: comfortable working conditions are created, corporate events are held, and the territory adjacent to the plant is landscaped.

Sales Directorate of «Krasny oktyabr Corporation» JSC is carried out the sales of rolled products.



ADVANTAGES OF THE PLANT:



Convenient economic and geographical location of the region (M-6, M-21, P-228, P-221, A-153 federal roads; North-South transport corridor), transport accessibility (automobile, railway, river and sea transport)



Proximity to the following ports: Volzhsky commercial port, Kalach river port



Manufacture of steel grades by means of electroslag remelting



Heavy billet mill (where it is possible to roll the rounds from 60 to 360 mm in diameter)



Modern turning machines: PL-370, PL-210



Production of small batches (from 5 tons)



Check tests shop



Testing areas



Basic Technical University engage in training of personnel: Volgograd State Technical University







Applicable quality management system (QMS) is in accordance with ISO 9001:2015 international standard.

Certificate of conformity with the requirements of standards GOST R ISO 9001-2015 and GOST RV 0015-002-2020 issued by Certification Center "MONOLIT-Cert" and acceptable by Rosoboronzakaz, Rosstandart and «Rosatom»State corporation

Certificate of manufacturer of materials used in construction according to the standards 305/2011/EU (EN 10088-5:2009) and 305/2011/EU (EN 10025-5:2009).

Approval certificate of manufacturer of shipbuilding steel of normal and higher strength as well as corrosion-resistant steel products

Certificate of manufacturer of materials and pressure equipment in compliance with the rules AD 2000-Merkblatt W0 and Directive 2014/68/EU.

Environmental management system (EMS) is in accordance with ISO 14001:2015 international standard.







HOT ROLLED ROUND BARS



DANGE OF BRORUGTO	SHAPE		TECHNICAL REQUIREMENTS TO
RANGE OF PRODUCTS	DIAMETER, MM	LENGTH, MM	THE CHEMICAL COMPOSITION AND RANGE OF PRODUCTS
	GOST 5632-2014		
	65200, unturned rounds	24006000	Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing
Stainless steel			Requirements to the surface quality: GOST 5949 (3ΓΠ)
	65200, unturned rounds	24006000	As agreed by the parties
	70340, turned rounds	34006000	As agreed by the parties
0			Requirements to the geometry: GOST 2590 (B1), hot rolled bars, quenching
Corrosion- and heat-resistant	70250, turned rounds	34006000	As agreed by the parties for the rounds over 200 mm in diameter
special purpose steel			Requirements to the surface quality: GOST 5949 (2ГП, ЗГП)
			GOST 801-78
	65250, unturned rounds	24006000	Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing
Structural ball-bearing steel			Requirements to the surface quality: GOST 801 (OΓ, OX)
·	70, 250 toward counds	2/00 /000	Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing
	70250, turned rounds	34006000	Requirements to the surface quality: GOST 801 (ΟΓ, ΟΧ)
		(OST 4543-2016
	/5 050	24006000	Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing
	65250, unturned rounds		Requirements to the surface quality: GOST 5949 (2ΓΠ, 3ΓΠ)
			Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing.
	70340, turned rounds	34006000	TU 14-1-2118-98 is applicable for the rounds of 250 mm and over in diameter Requirements to the surface quality: GOST 4543 (1ГП, 2ГП, 3ГП)
Structural alloy and nickel-containing steel			GOST 20072-74
	65200, unturned rounds	24006000	Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing
			Requirements to the surface quality: GOST 20072 (subgroup a and 6)
	70200, turned rounds	34006000	Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing
			Requirements to the surface quality: GOST 20072 (subgroup a and 6)



[OTEFL ODADEO	EQUIVALENT FOREIGN STANDARDS		
	STEEL GRADES	European standards (DIN, EN)	US standards (ASTM/AISI)	
	08X13, 12X13, 20X13, 30X13, 40X13, 08X18H10T, 08X14MФ, 08X14МФ-Ш, 40X9C2, 40X10C2M, 14X17H2, 08X22H6T, 15X11MФ-Ш, 07X16H6-Ш, 13X11H2B2MФ-Ш, 15X13H2, 08X13H4M1Ф-1	1.4000/X6Cr13, 1.4006/X12Cr13, 1.4021/X20Cr13, 1.4028/X30Cr13,		
	06Х14Н6Д2МБТ-Ш (ЭП 817-Ш), 07Х12НМБФ-Ш (ЭП 609-Ш), 15Х12Н2МВФАБ-Ш (ЭП 517-Ш)	1.4718/X45CrSi9-3, 1.4031/X39Cr13, 1.4034/X46Cr13, 1.4541/X6CrNiTi18-10, 1.4057/X17CrNi16-2, 1.4731/X40CrSiMo10-2, 1.4571/X6CrNiMoTi17-12-2, 1.4878/X8CrNiTi18-10, 1.4301/X5CrNi18-10, 1.4307/X2CrNi18-9, 1.4310/X10CrNi18-8	420, 410, 431, 321, 316, 316Ti, 304, 304L, 301	
	08X18H10T, 08X17H13M2T, 08X17H6T, 10X17H13M2T, 10X17H13M3T, 12X18H10T, 08X22H6T, 08X18H10T-У, 08X18H10T-Ш, 12X18H12T, 07X16H6-Ш			
	ШХ15-В, ШХ15СГ-В, ШХ15-Ш, ШХ20СГ-В	1.2067/102Cr6, 1.3505/100Cr6, 1.3520/100CrMnSi6-4	52100, 2 (A485)	
	15Г, 20Г, 25Г, 30Г, 35Г, 40Г, 45Г, 50Г, 15ХА, 20Х, 30Х, 35Х, 40Х, 45Х, 50Х, 25ХГМ, 38ХГМ, 18ХГ, 18ХГТ, 25ХГТ, 30ХГТ, 33ХС, 38ХС, 40ХС, 15ХМ, 20ХМ, 30ХМ, 35ХМ, 38ХМ, 40ХМФА, 12ХНЗА, 20ХНЗА, 30ХНЗА, 15ХГН2ТА, 12Х2Н4А, 20Х2Н4А, 20ХГНМ, 40ХГНМ, 40ХН2МА, 38Х2МЮА, 10Г2, 20ХГР, 30ХЗМФ, 30ХМА, 40ХФА, 20ХН, 40ХН, 45ХН, 50ХН, 20ХНР, 12ХН2, 20ХГСА, 25ХГСА, 30ХГСА, 35ХГСА, 30ХГС, 30ХГСН2А, 20ХГНР, 20ХГНТР, 19ХГН, 20ХН2М, 38ХНЗМА, 18Х2Н4МА, 38ХНЗМФА, 30ХН2МА, 38Х2Н2МА, 40Х2Н2МА, 30ХН2МФА, 25ХГНМТ	1.6510/39NiCrMo3, 1.7160/16MnCrB5, 1.7147/20MnCr5, 1.7243/18CrMo4, 1.6571/20NiCrMoS6-4, 1.6587/18CrNiMo7-6, 1.6580/30CrNiMo8, 1.1148/C16E, 1.1133/20Mn5, 1.1170/28Mn6, 1,1157/40Mn4, 1.0912/46Mn7, 1.7016/17Cr3, 1.7030/28Cr4, 1.7033/34Cr4, 1.7035/41Cr4, 1.7045/42Cr4, 1.7131/16MnCr5, 1.7337/16CrMo4-4, 1.7255/23CrMo5, 1.7258/24CrMo5, 1.7218/25CrMo4, 1.7216/30CrMo4, 1.7220/34CrMo4, 1.7223/41CrMo4, 1.1109/12Mn5, 1.6563/41NiCrMo7-3-2, 1.7707/30CrMoV9, 1.8519/31CrMoV9, 1.7225/42CrMo4, 1.6582/34CrNiMo6, 1.6565/40NiCrMo6, 1.8509/41CrAlMo7-10, 1.6523/20NiCrMo2-2, 1.5752/15NiCr13, 1.5711/40NiCr6, 1.6657/14NiCrMo13-4	1039, 1046, 1551, 1022, 1525, 1037, 5135, 1513, 4137, 8640, 5145, 1016, 1330, 5115, 5120, 5140, 5130, 4130, 4140, 4142, 4320, 4330, 4340, E3310, 8617, 8620, 8740, 1026, 5150, 6135, 3135	
	12X1MФ, 25X1MФ, 20X3MBФ, 15X5M, 12MX			

HOT ROLLED ROUND BARS



DANCE OF BRODUCTS	SHAPE		TECHNICAL REQUIREMENTS TO
RANGE OF PRODUCTS	DIAMETER, MM	LENGTH, MM	THE CHEMICAL COMPOSITION AND RANGE OF PRODUCTS
		GOS	ST 14959-2016
	65250, unturned rounds	24006000	Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing
			Requirements to the surface quality: GOST 14959 (2ГП, ЗГП)
	70.050	34006000	Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing
	70250, turned rounds		Requirements to the surface quality: GOST 14959 (2ΓΠ, 3ΓΠ)
Structural alloy and nickel-containing steel		GO	ST 4543-2016
	45, 250, unturned rounds	24006000	Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing
	65250, unturned rounds	24000000	Requirements to the surface quality: GOST 4543 (2ΓΠ, 3ΓΠ)
	70.0/0 ·	2/00 /000	Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing. TU 14-1-2118-98 is applicable for the rounds of 250 mm and over in diameter
	70340, turned rounds	34006000	Requirements to the surface quality: GOST 4543 (1ΓΠ, 2ΓΠ, 3ΓΠ)
		GC	OST 380-2005
	65270, unturned rounds	24006000	Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing
			Requirements to the surface quality: GOST 535 (2ΓΠ, 3ΓΠ)
	70340, turned rounds	34006000	Requirements to the geometry: GOST 2590 (B1), hot rolled bars and for the rounds over 270 mm in diameter as agreed by the parties, annealing
	, oo io, tamba roundo	0 1000000	Requirements to the surface quality: GOST 535 (1ΓΠ, 2ΓΠ, 3ΓΠ)
Structural and commercial quality carbon steel		GO	ST 1050-2013
	65340, unturned rounds	24006000	Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing. TU 14-1-2118-98 is applicable for the rounds of 250 mm and over in diameter
	30070, antariou roundo	24000000	Requirements to the surface quality: GOST 1050 (2ΓΠ, 3ΓΠ)
	70340, turned rounds	34006000	Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing. TU 14-1-2118-98 is applicable for the rounds of 250 mm and over in diameter
		04000000	Requirements to the surface quality: GOST 1050 (1ΓΠ, 2ΓΠ, 3ΓΠ)



STEEL GRADES	EQUIVALENT FOREIGN STANDARDS	
STEEL GRADES	European standards (DIN, EN)	US standards (ASTM/AISI)
60Г, 65Г, 70Г, 55С2, 55С2А, 60С2, 60С2А, 50ХФА, 50ХГФА, 60С2ХФА	1.1740/C60W, 1.8159/51CrV4, 1.5026/56Si7, 1.1231/C67S	1561, 1566, 1572, 9255, 9260, 6150
45ХН2МФА-Ш, 40ХН2МА-Ш, 38Х2МЮА-Ш, 30ХМА-Ш, 40ХФА-Ш, 40ХС-Ш, 20Х2Н4А-Ш, 38ХН3МА-Ш, 38ХН3МФА-Ш, 25ХГСА-Ш, 30ХГСА-Ш, 12ХН3А-Ш, 20ХН3А-Ш, 18Х2Н4ВА-Ш		
СтЗсп, Ст5сп	1.0037/St 37-2, 1.0050/St 50-2	A570 GR 36, A570 GR 50
10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60	1.1121/C10E, 1.1141/C15E, 1.1151/C22E, 1.1158/C25E, 1.1178/C30E, 1.1181/C35E, 1.1186/C40E, 1.1191/C45E, 1.1206/C50E, 1.1203/C55E, 1.1221/C60E	1010, 1015, 1020, 1025, 1030, 1035, 1040, 1045, 1050, 1055, 1060

HOT ROLLED ROUND BARS









RANGE OF PRODUCTS	SHAPE		
KANGE OF PRODUCTS	DIAMETER, MM	LENGTH, MM	
	GOST 1499	59-2016	
	65250, unturned rounds	24006000	
Structural and commercial	70340, turned rounds	34006000	
quality carbon steel	GOST 192	81-2014	
·	65270, unturned rounds	24006000	
	70340, turned rounds	34006000	
T. I I	GOST 14	35-99	
	65270, unturned rounds	24006000	
	70270, turned rounds	34006000	
Tool steel	GOST 5950-2000		
	65200, unturned rounds	24006000	
	70200, turned rounds	34006000	



TECHNICAL REQUIREMENTS TO THE CHEMICAL		EQUIVALENT FOREIGN STANDARDS		
COMPOSITION AND RANGE OF PRODUCTS	STEEL GRADES	European standards (DIN, EN)	US standards (ASTM/AISI)	
GOST 14959-2016				
Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing				
Requirements to the surface quality: GOST 1050 (2ГП, ЗГП)	65, 70, 75, 80, 85	1.1231/C67S, 1.1248/C75S, 1.1269/C85S	1065, 1070, 1075, 1080, 1084	
Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing. TU 14-1-2118-98 is applicable for the rounds of 250 mm and over in diameter			1000, 1004	
Requirements to the surface quality: GOST 14959 (2 ΓΠ, 3 ΓΠ)				
GOST 19281-2014				
Requirements to the geometry: GOST 2590 (B1), hot rolled and hot rolled heat treated bars. TU 14-1-2118-98 is applicable for the rounds of 250 mm and over in diameter				
Requirements to the surface quality: GOST 535 (2 ΓΠ, 3 ΓΠ)	09Г2С, 10ХСНД, 15ХСНД, 12ГС, 17ГС			
Requirements to the geometry: GOST 2590 (B1), hot rolled bars, normalization. For the rounds over 270 mm in diameter as agreed by the parties	10/10/14, 1210, 1710			
Requirements to the surface quality: GOST 535 (1 ГП, 2 ГП, 3 ГП)				
GOST 1435-99				
Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing		1.1555/C120U, 1.1620/C70W2, 1.1520/C70U, 1.1625/C80W2, 1.1525/C80U, 1.1535/	W1, W108, W110, W112	
Requirements to the surface quality: GOST 1435 (2 ΓΠ, 3 ΓΠ)] J7, Y7A, Y8, Y8A, Y9, Y9A, Y10, Y10A,			
Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing	У12, У12А	C90U, 1.1545/C105U, 1.1645/C105W2, 1.1563/C125U		
Requirements to the surface quality: GOST 1435 (2 ΓΠ, 3 ΓΠ)				
GOST 5950-2000				
Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing				
Requirements to the surface quality: GOST 5950 (3ГП, 4ГП)	4X5MФ1C, XBГ, 4X5MФC, 4XМФС, 3X3M3Ф, 5XHM, 6XB2C, 9XФМ, 9XФ	1.2419/105WCr6, 1.2343/ X38CrMoV5-1, 1.2714/55NiCrMoV7, 1.2365/X32CrMoV33, 1.2344/X40CrMoV5-1, 1.2713/55NiCrMoV6	H13, L6, D3, O2, O1, H11, L2	
Requirements to the geometry: GOST 2590 (B1), hot rolled bars, annealing	,,, , , , , , , , , , , ,	,, 15, 15, 5, 15, 15, 15, 15, 15, 15, 15		
Requirements to the surface quality: GOST 5950 (2ГП, ЗГП, 4ГП)				

TUBULAR BILLETS









DANGE OF PROPULATO	SHA	APE
RANGE OF PRODUCTS	DIAMETER, MM	LENGTH, MM
	Up to 230	
Stainless steel; corrosion- and heat-resistant special	80190	As agreed according to the specifications
purpose steel and alloys	80190	according to the specifications
	75230	
Structural ball-bearing steel	100230	As agreed according to the specifications
	70350	
	Up to 270	As agreed according to the specifications
Structural alloy and nickel-containing steel	80270	As agreed according to the specifications
	90130	As agreed according to the
	80270	specifications
	85, 105, 140250	As agreed according to the specifications
	70350	20006000
Structural and commercial quality	70330	35006000
carbon steel	80270	As agreed
	90150	according to the specifications



TECHNICAL REQUIREMENTS TO THE CHEMICAL	OTES ODADEO	EQUIVALENT FOREIGN	STANDARDS
COMPOSITION AND RANGE OF PRODUCTS	STEEL GRADES	European standards (DIN, EN)	US standards (ASTM/AISI)
TU 14-1-565, GOST 5632	20X13, 12X13, 08X13, 15X25T, 08X18H10, 08X18H10T, 12X18H10T, 10X17H13M2T, 15X13H2, 08X13H4M10-1	- 1/000/V/C-12 1/00//V12C-12 1/021/V20C-12	
TU 14-1-1529	12Х18Н12Т, 08Х14МФ	1.4000/X6Cr13, 1.4006/X12Cr13, 1.4021/X20Cr13, 1.4541/X6CrNiTi18-10, 1.4571/X6CrNiMoTi17-12-2,	304, 321, 410, 420, 304L, 316Ti,
TU 14-1-3183	03X18H11-B	1.4057/X17CrNi16-2, 1.4301/X5CrNi18-10, 1.4306/X2CrNi19-11	
TU 14-1-790	08X18H10T, 08X17H13M2T, 08X18H12T		
TU 14-1-3911, GOST 801	ШХ15-В, ШХ15СГ-В, ШХ15-Ш, ШХ20СГ	1.3505/100Cr6, 1.3520/100CrMnSi6-4, 1.2067/102Cr6	52100, 2 (A485)
GOST R 53932	36F2C, 37F2C		
TU 14-1-1529	15XM, 12X1MФ, 15X1M1Ф	1.7706/G17CrMoV5-10, 1.7262/15CrMo5	K11562
TU 14-1-3000, GOST 4543	40X, 30XFCA	1.7035/41Cr4	5140
TU 14-1-564, GOST 4543	38Х2МЮА, 38Х2МЮА-Ш	1.8509/41CrAlMo7-10	K24065
TU 14-1-583, GOST 20072	15Х5М, 15Х5М-Ш		501
TU 14-1-3000, GOST 4543, GOST 11268	12ХНЗА, 30ХГСН2А, 12Х2НВФА (ЭИ 712), 26Х2НВМБР (КВК 26), 32Х2НВМБР (КВК 32)	1.5752/15NiCr13	3415
TU 14-1-5.17, GOST 4543	40ХН2МА-Ш	1.6511/34CrNiMo4	4340
TU 14-1-5300	38ХЗМФА, 38ХЗМФА-Ш		
TU 14-1-584	18ХГ, 30ХМА, 15ХФ, 14ХГС	1.7131/16MnCr5, 1.7218/25CrMo4	5115, 4130
TU 14-1-4230	07ХЗГНМЮА		
As agreed, GOST R 53932-2010, GOST 380, GOST 1050, GOST 14959, GOST 19281, GOST 4543	Ст3сп, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 09Г2С, 10ХСНД, 12Г2А	1.0037/St 37-2, 1.1121/C10E, 1.1141/C15E, 1.1151/C22E, 1.1158/C25E, 1.1178/C30E, 1.1181/C35E, 1.1186/C40E, 1.1191/C45E, 1.1206/C50E, 1.1203/C55E, 1.1221/C60E, 1.0045/S355JR, 1.1231/C67S	A570 GR 36, 1010, 1015, 1020, 1025, 1030, 1035, 1040, 1045, 1050, 1055, 1060, 1070
TU 14-1-584, TU 14-1-1529	20	1.1151/C22E	1020
TU 14-1-3000	20, 35, 45	1.1151/C22E, 1.1181/C35E, 1.1191/C45E	1020, 1035, 1045
TU 14-1-1076, GOST 1050	30	1.1178/C30E	1030
TU 14-1-4179	20104		

HOT ROLLED PLATES

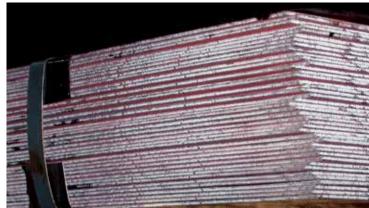


RANGE OF PRODUCTS		SHAPE		TECHNICAL REQUIREMENTS TO	
RANGE OF PRODUCTS	THICKNESS, MM	WIDTH, MM	LENGTH, MM	THE CHEMICAL COMPOSITION AND RANGE OF PRODUCTS	
	430	10001500	30006000		
Stainless steel	3040	10001300	20004000	GOST 7350, GOST 5632	
Staniless steet	4050	6001100	15003000		
	50100	6001100	15003000	As agreed, GOST 5632	
	520	10001500	30006000	TU 14-1-625, GOST 5632	
	430	10001500	30006000	As agreed COST 5/22	
	3040	10001300	20004000	- As agreed, GOST 5632	
Corrosion- and heat-resistant special	430	10001500	30006000		
purpose steel and alloys	3040	10001300	20004000	GOST 7350, GOST 5632	
	4050	6001100	15003000		
	50100	6001100	15003000	As agreed, GOST 5632	
	560	6001500	15006000	As agreed	
	430	10001500	30006000		
Steel and alloys with the special properties	3040	10001300	20004000	As agreed	
proportion	40100	6001100	15003000		



	EQUIVALENT FOREIGN S	TANDARDS
STEEL GRADES	European standards (DIN, EN)	US standards (ASTM/AISI)
08X13, 12X17, 08X17T, 14X17H2, 20X13		
XH32T		
XH38BT		
XH78T		
XH60BT	-	
15X25T, 08X21H6M2T, 09X16H4Б, 03X18H11, 03X17H14M3, 04X18H10, 08X18H10, 08X18H10T, 12X21H5T, 20X23H13, 20X23H18, 10X17H13M2T, 10X14Г14H4T, 10X17H13M3T, 08X17H13M2T, 12X18H9, 12X18H9T, 12X18H10T,12X18H12T, 17X18H9, 07X16H6, 08X22H6T, 06XH28MДТ	1.4000/X6Cr13, 1.4021/X20Cr13,1.4016/X6Cr17, 1.4510/X3CrTi17, 1.4057/X17CrNi16-2, 1.4306/X2CrNi19-11, 1.4541/X6CrNiTi18-10, 1.4301/X5CrNi18-10, 1.4307/X2CrNi18-9, 1.4310/X10CrNi18-8, 1.4435/X2CrNiMo18-14-3, 1.4571/X6CrNiMoTi17-12-2, 1.4878/X8CrNiTi18-10	310, 316L, 410S, 410, 420, 321, 316Ti, 304, 304L, 430, 439, 329
12Х18Н10Т-Ш, 09Х16Н4Б-Ш, 12Х21Н5Т-Ш, 11Х11Н2В2МФ-Ш		
45Г17Ю3		







DANGE OF PROPUCTO	SHAPE			
RANGE OF PRODUCTS	THICKNESS, MM	WIDTH, MM	LENGTH, MM	
Structural alloy and nickel-containing steel	430	10001500	30006000	
	3040	10001300	20005000	
	40100	6001250	20004500	
	430	10001500	30006000	
	3040	10001300	20005000	
Tool steel	430	10001500	30006000	
	3040	10001300	20005000	
	40100	6001250	20004500	
	430	10001500	30006000	
	3040	10001300	20005000	
Structural and commercial quality	40100	6001250	20004500	
Structural and commercial quality carbon steel	430	10001500	30006000	
Carnott Steet	3040 40100	10001300 6001250	20005000 20004500	
	67	10001500	30006000	
	2040	10001300	20005000	



TECHNICAL REQUIREMENTS TO THE CHEMICAL	OTES ODADEO	EQUIVALENT FOREIGN STANDARDS	
COMPOSITION AND RANGE OF PRODUCTS	STEEL GRADES	European standards (DIN, EN)	US standards (ASTM/AISI)
GOST 1577, GOST 4543	20X, 30X, 40X, 45X	1.7016/17Cr3, 1.7030/28Cr4, 1.7035/41Cr4, 1.7045/42Cr4	5120, 5130, 5140, 5145
GOST 1577, GOST 14959	65Г	1.1231/C67S	1566
GOST 11269, GOST 4543	ЗОХГСА		
As agreed, TU 14-1-3370	07ХЗГНМЮА		
TU 14-1-702	20Х3МВФ (ЭИ 415)		
TU 14-1-1409, GOST 4543	12XH3A, 12X2H4A	1.5752/15NiCr13	3415
TU 14-1-518	12XH, 20XFHM, 40XFHM	1.6523/20NiCrMo2-2, 1.6510/39NiCrMo3	8620, 8640
As agreed, GOST 4543, TU 14-1-1236	45XH2МФА-Ш, 32X2HBМБР-Ш (КВК-32Ш)		
As agreed, GOST 4543	18XF, 18XFT, 25XFT, 30XFT	1.7131/16MnCr5	5115
GOST 7350, GOST 20072	15X5M		501
GOST 5520	12XM, 12X1MΦ		
GOST 1577, GOST 4543	20X, 30X, 40X, 45X	1.7016/17Cr3, 1.7030/28Cr4, 1.7035/41Cr4, 1.7045/42Cr4	5120, 5130, 5140, 5145
GOST 11269, GOST 4543	30ХГСА		
GOST 1577, GOST 4543	20X, 30X, 40X, 45X	1.7016/17Cr3, 1.7030/28Cr4, 1.7035/41Cr4, 1.7045/42Cr4	5120, 5130, 5140, 5145
As agreed, GOST 1435	У7, У7А, У8А, У10А	1.1620/C70W2, 1.1520/C70U, 1.1625/C80W2, 1.1645/C105W2	W1, W108, W110, W112
As agreed, GOST 5950	ХВГ, 6ХС, 9ХС, 6ХВ2С, 9ХФМ, 9ХФ		
GOST 1577, GOST 1050	10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60	1.1121/C10E, 1.1141/C15E, 1.1151/C22E, 1.1158/C25E, 1.1178/C30E, 1.1181/C35E, 1.1186/C40E, 1.1191/C45E, 1.1206/C50E, 1.1203/C55E, 1.1221/C60E	1010, 1015, 1020, 1025, 1030, 1035, 1040, 1045, 1050, 1055, 1060
GOST 14637, GOST 380	Ст3сп	1.0037/St 37-2	A570 GR 36
TU 14-1-2650	85-Ш		
GOST 5520	20K	1.1151/C22E	1020
As agreed, GOST 19281	09Г2С, 10ХСНД, 15ХСНД, 16ГС, 17ГС, 16Г2АФ		







	SHAPE		
RANGE OF PRODUCTS	THICKNESS, MM	WIDTH, MM	LENGTH, MM
Stainless steel	23,9	8001000	16002000
Corrosion- and heat-resistant	23,9	8001000	16002000
special purpose steel and alloys	23,9	8001000	16002000
Structural alloy and nickel-containing steel	23,9	8001000	16002000
Tool steel	23,9	8001000	16002000
Structural and commercial quality carbon steel	23,9	8001000	16002000

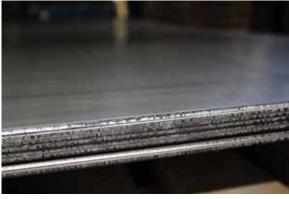


TECHNICAL REQUIREMENTS TO THE		EQUIVALENT FOREIGN STANDARDS	
CHEMICAL COMPOSITION AND RANGE OF PRODUCTS	STEEL GRADES	European standards (DIN, EN)	US standards (ASTM/AISI)
GOST 5582, GOST 5632	08X13, 12X17, 08X17T, 20X13, 30X13, 40X13, 14X17H2		
As agreed, GOST 5632	XH32T, XH38BT, XH78T, XH60BT 1.4000/X6Cr13, 1.4021/X20Cr13, 1.4028/X30Cr13, 1.4016/X6Cr17, 1.4510/X3CrTi17, 1.4057/X17CrNi16-2, 1.4306/X2CrNi18-11, 1.4541/X6CrNiTi18-10, 1.4301/X5CrNi18-10, 1.4307/X2CrNi18-9,		410S, 410, 420, 321, 316Ti, 304, 304L, 430, 439, 329
GOST 5582, GOST 5632	15X25T, 08X21H6M2T, 09X16H4Б, 03X18H11, 03X17H14M3, 08X18H10, 08X18H10T, 12X21H5T, 20X23H13, 20X23H18, 10X17H13M2T, 10X14Г14H4T, 10X17H13M3T, 12X18H9, 12X18H10T, 17X18H9, 07X16H6, 08X22H6T, 06XH28MДТ	1.4310/X10CrNi18-8, 1.4031/X39Cr13, 1.4510/X3CrTi17, 1.4435/ X2CrNiMo18-14-3, 1.4571/X6CrNiMoTi17-12-2	304, 304L, 430, 437, 327
TU 14-1-4118, GOST 4543	20X, 30X, 35X, 40X	1.7016/17Cr3, 1.7030/28Cr4, 1.7033/34Cr4, 1.7035/41Cr4	5120, 5130, 5135, 5140
TU 14-1-4118, GOST 14959	65Г	1.1231/C67S	1566
GOST 11268	25XFCA, 30XFCA		
As agreed by the parties COCT / E/ 2	12ХН, 20ХГНМ, 40ХГНМ	1.6523/20NiCrMo2-2, 1.6510/39NiCrMo3	8620, 8640
As agreed by the parties, GOST 4543	12XH3A, 12X2H4A	1.5752/15NiCr13	3415
As agreed by the parties, TU 14-1-702	20Х3МВФ (ЭИ 415)		
As agreed by the parties, TU 14-1-3370	07Х3ГНМЮА		
As agreed by the parties, GOST 5520	12XM		
As agreed by the parties, TU 14-1-687, TU 14-1-1409, GOST 11268	12Х1МФ, 12Х2НВФА, 50ХГФА, 60С2А, 60С2, 65С2ВА	1.5027/60Si7, 1.8159/51CrV4	6150, 9260
TU 14-1-776, GOST 1435	У7, У7А, У8А, У10А	1.1620/C70W2, 1.1520/C70U, 1.1625/C80W2, 1.1645/C105W2	W1, W108, W110
As agreed by the parties, GOST 5950	XBF, 6XC,5XHM	1.2419/105WCr6, 1.2713/55NiCrMoV6	
As agreed by the parties, TU 14-1-795	9ХФМ, 9ХФ		
GOST 16523 (group IV), GOST 380	СтЗсп	1.0037/St 37-2	A570 GR 36
GOST 16523 (group IV), GOST 1050	10, 15, 20, 25, 30, 35, 40, 45, 50	1.1121/C10E, 1.1141/C15E, 1.1151/C22E, 1.1158/C25E, 1.1178/C30E, 1.1181/C35E, 1.1186/C40E, 1.1191/C45E, 1.1206/C50E,	1010, 1015, 1020, 1025, 1030, 1035, 1040, 1045, 1050
As agreed by the parties, GOST 5520	20K	1.1151/C22E	1020
As agreed by the parties, GOST 19281	09Г2С, 10ХСНД, 15ХСНД, 16ГС, 17ГС, 16Г2АФ	1.0045/S355JR, 1.0570/St52-3	

COLD ROLLED SHEETS







	SHAPE			
RANGE OF PRODUCTS	THICKNESS, MM	WIDTH, MM	LENGTH, MM	
Corrosion- and heat-resistant special purpose steel and alloys	0,8-3,5	700-1000	1000-2000	
Structural alloy steel	0,8-3,5	700-1000	1000-2000	



TECHNICAL REQUIREMENTS TO THE		EQUIVALENT FOREIGN STANDARDS	
CHEMICAL COMPOSITION AND RANGE OF PRODUCTS	STEEL GRADES	European standards (DIN, EN)	US standards (ASTM/AISI)
GOST 19904	08X18H10, 08X18H10T, 12X18H9, 12X18H9T, 10X17H13M2T(ЭИ448) 12X18H10T, 12X18H12T, 07X16H6(ЭП288), XH78T(ЭИ435), XH35BT(ЭИ612), XH35BT(ЭИ612), XH38BT(ЭИ703), XH60BT(ЭИ868), XH45MBTЮБР-ИД (ЭП 718-ИД), XH50BMTЮБ-ВИ (ЭП648-ВИ), XH62BMЮТ-ВД (ЭП708-ВД)	1.4541/X6CrNiTi18-10, 1.4301/X5CrNi18-10, 1.4307/X2CrNi18-9, 1.4310/X10CrNi18-8	410S, 410, 420, 321, 316Ti, 304, 304L, 430, 439, 329
GOST 19904	12Х2НВФА (ЭИ 712), 32Х2НВМБР-Ш (КВК-32Ш)		

HOT ROLLED SQUARE BARS (BLOOMS + SQUARE BILLETS)



RANGE OF PRODUCTS	SHAPE		TECHNICAL REQUIREMENTS TO THE CHEMICAL	
RANGE OF PRODUCTS	DIMENSIONS, MM	LENGTH, MM	COMPOSITION AND RANGE OF PRODUCTS	
Stainless steel	200360x200360	20006000	TU 14-1-4492-19 (1ГП, 2ГП), GOST 5632-2014	
Corrosion- and heat-resistant special	200360x200360	20006000	As agreed by the parties	
purpose steel	200360x200360	20006000	TU 14-1-4492-19 (1ГП, 2ГП), GOST 5632-2014	
Structural ball-bearing steel	200360x200360	20006000	ТU 14-1-4492-19 (1ГП, 2ГП), GOST 801-78	
Structural alloy and nickel-containing steel	200360 x 200360	20006000	TU 14-1-4492-19 (1ГП, 2ГП), GOST 4543-2016	
Square billets	100, 120, 125, 130, 140, 160	2000 4000	TU 14-1-4492-19 (1ΓΠ, 2ΓΠ), the chemical composition is as agreed by the parties	



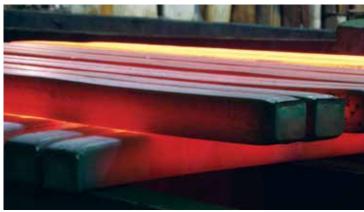
STEEL GRADES	EQUIVALENT FOREIGN STANDARDS		
STEEL BRADES	European standards (DIN, EN)	US standards (ASTM/AISI)	
08X13, 12X13, 20X13, 30X13, 40X13, 08X14МФ, 08X14МФ-Ш, 40X9C2, 40X10C2М, 14X17H2, 15X11МФ-Ш, 13X11H2B2МФ-Ш (ЭИ 961-Ш)	1.4000/X6Cr13, 1.4006/X12Cr13, 1.4021/X20Cr13, 1.4028/X30Cr13, 1.4718/X45CrSi9-3, 1.4031/X39Cr13, 1.4034/X46Cr13, 1.4711/X6CrSi9-1, 1.4711/X6CrSi9-3, 1.4711/X6CrSi9-1, 1.4711	420, 410, 431, 321,	
06Х14Н6Д2МБТ-Ш (ЭП 817-Ш), 07Х12НМБФ-Ш (ЭП 609-Ш), 15Х12Н2МВФАБ-Ш (ЭП 517-Ш)	1.4541/X6CrNiTi18-10, 1.4057/X17CrNi16-2, 1.4731/X40CrSiMo10-2, 1.4571/X6CrNiMoTi17-12-2, 1.4878/X8CrNiTi18-10, 1.4301/X5CrNi18-10, 1.4307/X2CrNi18-9, 1.4310/X10CrNi18-8	316Ti, 304, 304L, 301, 316	
08X18H10T, 08X17H13M2T, 08X17H6T, 10X17H13M2T, 10X17H13M3T, 12X18H10T, 08X22H6T, 07X16H6-Ш			
ШХ15-В, ШХ15СГ-В	1.2067/102Cr6, 1.3505/100Cr6, 1.3520/100CrMnSi6-4	52100, 2 (A485)	
15Г, 20Г, 25Г, 30Г, 35Г, 40Г, 45Г, 50Г, 15ХА, 20Х, 30Х, 35Х, 40Х, 45Х, 50Х, 25ХГМ, 38ХГМ, 18ХГ, 18ХГТ, 25ХГТ, 30ХГТ, 33ХС, 38ХС, 40ХС, 15ХМ, 20ХМ, 30ХМ, 35ХМ, 38ХМ, 40ХМФА, 12ХНЗА, 20ХНЗА, 30ХНЗА, 15ХГН2ТА, 12Х2Н4А, 20Х2Н4А, 20ХГНМ, 40ХГНМ, 40ХН2МА, 38Х2МЮА, 10Г2, 20ХГР, 30ХЗМФ, 30ХМА, 40ХФА, 20ХН, 40ХН, 45ХН, 50ХН, 20ХНР, 12ХН2, 20ХГСА, 25ХГСА, 30ХГСА, 35ХГСА, 30ХГС, 30ХГСН2А, 20ХГНР, 20ХГНТР, 19ХГН, 20ХН2М, 38ХН3МА, 18Х2Н4МА, 38ХН3МФА, 30ХН2МА, 38Х2Н2МА, 40Х2Н2МА, 30ХН2МФА, 25ХГНМТ	1.6510/39NiCrMo3, 1.7160/16MnCrB5, 1.7147/20MnCr5, 1.7243/18CrMo4, 1.6571/20NiCrMoS6-4, 1.6587/18CrNiMo7-6, 1.6580/30CrNiMo8, 1.1148/C16E, 1.1133/20Mn5, 1.1170/28Mn6, 1,1157/40Mn4, 1.0912/46Mn7, 1.7016/17Cr3, 1.7030/28Cr4, 1.7033/34Cr4, 1.7035/41Cr4, 1.7045/42Cr4, 1.7131/16MnCr5, 1.7337/16CrMo4-4, 1.7255/23CrMo5, 1.7258/24CrMo5, 1.7218/25CrMo4, 1.7216/30CrMo4, 1.7220/34CrMo4, 1.7223/41CrMo4, 1.1109/12Mn5, 1.6563/41NiCrMo7-3-2, 1.7707/30CrMoV9, 1.8519/31CrMoV9, 1.7225/42CrMo4, 1.6582/34CrNiMo6, 1.6565/40NiCrMo6, 1.8509/41CrAlMo7-10, 1.6523/20NiCrMo2-2, 1.5752/15NiCr13, 1.5711/40NiCr6, 1.6657/14NiCrMo13-4	1039, 1046, 1551,1022, 1525, 1037, 1513, 4137, 5135, 5145, 8640, 1016, 1330, 5115, 5120, 5140, 5130, 4130, 4140, 4142, 4320, 4330, 4340, E3310, 8617, 8620, 8740, 1026, 5150, 6135, 3135	

HOT ROLLED SQUARE BARS (BLOOMS + SQUARE BILLETS)









DANCE OF DECEMENTS	SHAPE		
RANGE OF PRODUCTS	DIMENSIONS, MM	LENGTH, MM	
Structural alloy and nickel-containing steel	200360 x 200360	20006000	
	200360 x 200360	20006000	
	200360 x 200360	20006000	
	200360 x 200360	20006000	
	200360 x 200360	20006000	
Structural and commercial quality carbon steel	200360 x 200360	20006000	
	200360 x 200360	20006000	
	200360 x 200360	20006000	
Tool steel	200360x200360	20006000	
TOUL SIEEL		20006000	



TECHNICAL REQUIREMENTS TO THE CHEMICAL		EQUIVALENT FOREIGN STANDARDS	
COMPOSITION AND RANGE OF PRODUCTS	STEEL GRADES	European standards (DIN, EN)	US standards (ASTM/AISI)
TU 14-1-4492-19, group 1ГП, 2ГП, GOST 20072-74	12X1MФ, 25X1MФ, 20X3MBФ, 15X5M, 12MX	1.7366/X16CrMo5-1	
TU 14-1-4492-19, group 1ГП, 2ГП, GOST 14959-2016	50ХГФА, 60Г, 65Г, 70Г, 55С2, 55С2А, 60С2, 60С2А, 50ХФА, 60С2ХФА	1.8159/51CrV4, 1.1740/C60W, 1.5026/56Si7, 1.1231/C67S	9255, 9260, 6150 1561, 1566, 1572
TU 14-1-4492-19, group 1ГП, 2ГП, GOST 4543-16	45ХН2МФА-Ш, 40ХН2МА-Ш, 38Х2МЮА-Ш, 30ХМА-Ш, 40ХФА-Ш, 40ХС-Ш, 20Х2Н4А-Ш, 38ХН3МА-Ш, 38ХН3МФА-Ш, 25ХГСА-Ш, 30ХГСА-Ш, 12ХН3А-Ш, 20ХН3А-Ш, 18Х2Н4ВА-Ш		
As agreed by the parties	14X2H3MA, 07X3ГНМЮА, 60XФА-Ш, 16X3НВФМБ-Ш (ДИЗ9-Ш)		
TU 14-1-4492-19, group 1ГП, 2ГП, GOST 380-2005	Ст3сп, Ст5сп	1.0037/St 37-2, 1.0050/ St 50-2	A570 GR 36, A570 GR 50
TU 14-1-4492-19, group 1ГП, 2ГП, GOST 1050-2013	10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60	1.1121/C10E, 1.1141/C15E, 1.1151/C22E, 1.1158/C25E, 1.1178/C30E, 1.1181/C35E, 1.1186/C40E, 1.1191/C45E, 1.1206/C50E, 1.1203/C55E, 1.1221/C60E	1010, 1015, 1020, 1025, 1030, 1035, 1040, 1045, 1050, 1055, 1060
TU 14-1-4492-19, group 1ΓΠ, 2ΓΠ, GOST 14959-2016	65, 70, 75, 80, 85	1.1231/C67S, 1.1248/C75S, 1.1269/C85S	1065, 1070, 1075, 1080, 1084
TU 14-1-4492-19, group 1ΓΠ, 2ΓΠ, GOST 19281-2014	09Г2С, 10ХСНД, 15ХСНД, 12ГС, 17ГС		
TU 14-1-4492-19, group 1ГП, 2ГП, GOST 1435-99	У7, У7А, У8, У8А, У9, У9А, У10, У10А, У12, У12А	1.1620/C70W2, 1.1520/C70U, 1.1625/C80W2, 1.1525/C80U, 1.1535/C90U, 1.1545/C105U, 1.1645/C105W2, 1.1563/C125U, 1.1555/C120U	W1, W108, W110, W112
TU 14-1-4492-19, group 1ΓΠ, 2ΓΠ, GOST 5950-2000	4X5MФ1C, XBГ, 4X5МФС, 4XМФС, 3X3M3Ф, 5XHM, 6XB2C, 9XФМ, 9XФ	1.2365/X32CrMoV33, 1.2344/X40CrMoV5-1, 1.2713/55NiCrMoV6, 1.2419/105WCr6, 1.2343/ X38CrMoV5-1, 1.2714/55NiCrMoV7	H13, L6, D3, O2, O1, H11, L2

FORGING HAMMER PRODUCTION

At forging hammer shop it is possible to manufacture the round billets using forging hammers.





STEEL GRADES TO BE USED

RANGE OF PRODUCTS	STEEL GRADES
Low allowated	09Г2С
Low-alloy steel	S355J2
Structural carbon steel	20-45
Structural carbon steet	C45E
	20X-40X
	20-30XFCA
Structural alloy steel	15XM
Structural alloy steet	16-20MnCrS5
	14-20МПСГ5
	42CrMoS4
	12XH2
	20X2H4A
	0XH1M
	ОХНЗМ
	30Х2МЮА
Nickel-containing alloy steel	45XH2MΦ
	34CrNiMo6
	17NiCrMoS6-4
	18CrNiMo7-6
	00CrNiMo0
	39NiCrMo3
	30X13
Stainless steel	14X17H2
Stanile22 Steet	12X18H9T
	304/1.4301

PACKING AND MARKING

Rolled products are packed and marked in accordance with the requirements of standards and specifications as well as orders and contracts.

DEPENDING ON THE TYPE OF ROLLED PRODUCTS THE SHAPE OF BUNDLE OR PACKAGE MAY BE AS:

round; triangle; rectangle.

EACH BUNDLE OR PACKAGE IS SECURED WITH:

steel strip (for sheets and plates); wire of 6–7 mm in diameter (for bars);

two-sided strapping with corrosion-resistant packing band using two synthetic ropes (for ground rolled products).

PRESERVATION:

liquid preservation composition based on industrial oil with addition of inhibitors.

PACKING:

wrapping with water-repellent paper or polyethylene film; each sheet or plate is laid using package liners.

- with wire strapping every 2-3 metres;
- with laying of polyethylene film under strapping for stainless steel products.

Two labels with the following information are attached to each bundle or package of bars, sheets and plates intended for export:

RED OCTOBER Krasny oktyabr

RUSSIA Russia

C № contract number COUNTRY country of destination

SIZE dimensions GRADE steel grade HEAT heat number

LOT lot (specification) number

PIECES number

WEIGHT/MT weight in metric tons (kilograms).

ADDITIONAL REQUIREMENTS



By the customer's request the rolled products may be manufactured according to the requirements other than the applicable standards and specifications or in addition to them as follows:

restricted limits for carbon and alloying elements;

setting limits for hardness, mechanical properties, non-metallic inclusions and other characteristics not specified in the standards and specifications; pickling of sheets and plates;

ultrasonic testing of internal defects for the turned round bars as well as sheets and plates clean from scale

together with the examination of properties according to the procedures of international standards:

grain size ASTME112;

non-metallic inclusions ASTM E45 (method A);

macrostructure ASTM E381; ultrasonic testing of internal defects SEP 1921

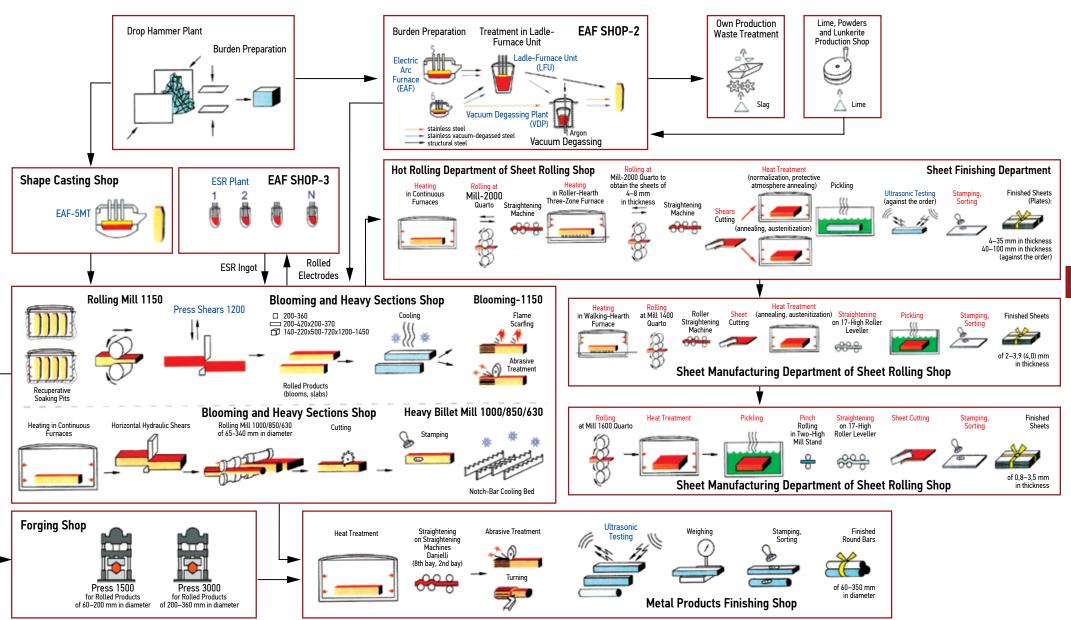
and etc..

Special requirements are drawn up by technical agreements or specifications agreed on the basis of technical protocol when concluding the contract. As agreed with the customer the rounds of 70-340 mm in diameter may be supplied after grinding up to the surface roughness Ra \leq 6,3 μ m.

By the customer's request the rolled products may be supplied in heat treated condition (after tempering, annealing, normalization, quenching + tempering).

FLOW SHEET OF MANUFACTURING OF METAL PRODUCTS





Krasny oktyabr Corporation, JSC

Russian Federation

400007, Volgograd, Lenina Av., 110

Phone: +7 (8442) 74-87-77 (Information Office)

+7 800-301-3335 (Sales Directorate)

Fax: +7 (8442) 74-84-88

E-mail: sales@vmzko.ru



www.vmzko.ru



@red_october_volgograd





@redoctober_volgograd





