
DNIPROSPETSSTAL



Oleksandr Shablii
Chairman of the Board PrJSC«DNIPROSPETSSTAL»

Let me introduce a high-quality special steels manufacturer from Ukraine. For almost a century, we have been combining innovative technologies and deep quality improvement to fulfill the metal products inquiries of our customers in over 50 countries around the world. Our team guarantees short time production period and diversify its range of products to succeed with individual approach to every customer.

Everyday challenges in the world lead us to secure transportation channels and invest into logistic infrastructure.

DNIPROSPETSSTAL can offer over 1000 steel grades and 800 cross section profiles and dimensions to cover regular commercial as well as specialized industrial manufacturing facilities.

We invite you to join our team of reliable customers and suppliers!

MISSION STATEMENT

PrJSC «DNIPROSPETSSTAL» is a key manufacturer of special stainless steels in the Eastern European market and an undisputed Ukrainian leader in this market segment. As the largest international company, develops, manufactures and sells metal products of stainless, tool, high-speed (including those produced by the PM-method), bearing, structural, alloyed and carbon steel grades to produce parts for vehicles and machinery, seamless tubes and bearings, tools for further processing of metals and alloys.

MILESTONES OF HISTORY

1932 the first heat, DNIPROSPETSSTAL Foundation Day
1933 set up of bearing steel production
1934 production of stainless acid-resisting chromium-nickel steel was mastered
1941 the works evacuation for the World War II period
1945 the works performance restoration after the World War II
1948 the first post-war heat
1955 ladle degassing was practiced for the first time in the Eastern Europe
1956 heat-resistant alloys production was set up
1957 cold-drawn steel production was mastered
1958 electric-slag remelting process was set up for the first time ever in the world
1959 steel and alloy melting in the vacuum-arc furnaces was mastered for the first time ever in the Eastern Europe
1966 the biggest In Europe specialized shop for ESR and VAR ingots melting was built
1972 manufacture of large capacity forgings in the forge-press shop was mastered
1980 manufacture of tool and high-speed steel using PM-method was mastered for the first time in the Eastern Europe
1987 gas-oxygen refining process was implemented for the first time in the Eastern Europe
1996 Danieli ladle-furnace was put into operation, and a modern technology of structural and bearing steel manufacture was set up
1996 quality system according to ISO (9002:1994) was certified for the first time
1998 Mannesmann-Demag vacuum degasser was put into operation, and a Secondary metallurgy technology was set up
2002 metal surface finishing shop was put into operation
2003 ladle-furnace was put into operation, and resource saving technology of corrosion-resistant steel production was implemented
2006 drop-hammer plant was equipped with a scrap shear press unit
2007 slag processing shop was built
2009 Loeser line for 120-280 rolled stock finishing was put into operation
2012 CVS Makina's Gas Treatment Station was put into operation
2012 ferromolybdenum manufacture area was put into operation
2015 a plot of acid production was initiated
2017 certification of the quality management system for risk compliance with the international standard ISO 9001:2015
2023 advancing CBAM compliance



QUALITY MANAGEMENT SYSTEM

The contemporary market features the customer, first of all, who wishes to buy high-quality and cost-efficient products. An ability of meeting these requirements is an assurance of the company's high competitiveness. So, the top targets of the company are the manufacture of high-quality products and the maximum satisfaction of the customers' needs.

The company has developed, implemented and certified the Quality Management System (QMS) according to ISO 9001:2015 (TUV Thuringen e.V., Germany) in order to meet these objectives

The System is aimed at improving the company's activities with quality as its priority in all departments at every production stage, distinct allocation of duties, and control of quality and efficiency of personnel training. The successful performance of QMS at DNIPROSPETSSTAL is confirmed by annual compliance audits, conducted by TUV Technical Supervisory Society.

Our products quality conforms to the requirements of the national and international standards among which are DSTU/GOST (Eastern Europe), ASTM, AISI (USA), EN (EU), DIN (Germany), BS (Great Britain), AFNQR (France), JIS (Japan). Besides, the company has developed its own technical delivery terms, which are harmonized with the above-mentioned standards for manufacturing stainless, bearing, tool and structural steels.

Quality of the delivered products is monitored by SGS Society, which is a world leader in the area of providing the independent examinations, tests and certification.

CERTIFICATES BY PRODUCT TYPES

Pressure Vessels:
- AD 2000 Merkblatt W0 (TUV Thuringen e.V., Germany)
- PED 2014/68/EU (TUV Thuringen e.V., Germany)

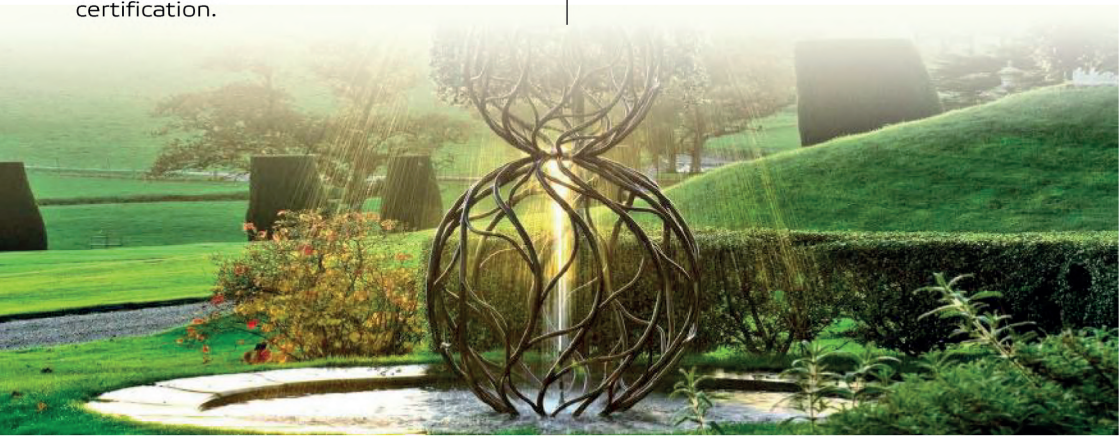
Construction Industry:
- CPR 305/2011 EU (TUV Thuringen e.V., Germany)

Shipbuilding Industry:
- Lloyd's Register (United Kingdom)
- Det Norske Veritas (Norway)

Oil and Gas Industry
- NORSOK M-650 (TUV Thuringen e.V., Germany)

Railway Machinery:
- Výzkumný Ústav Železniční, a. s. (Czech Republic)
- State Enterprise Research Institute of Carridge Building (Ukraine)

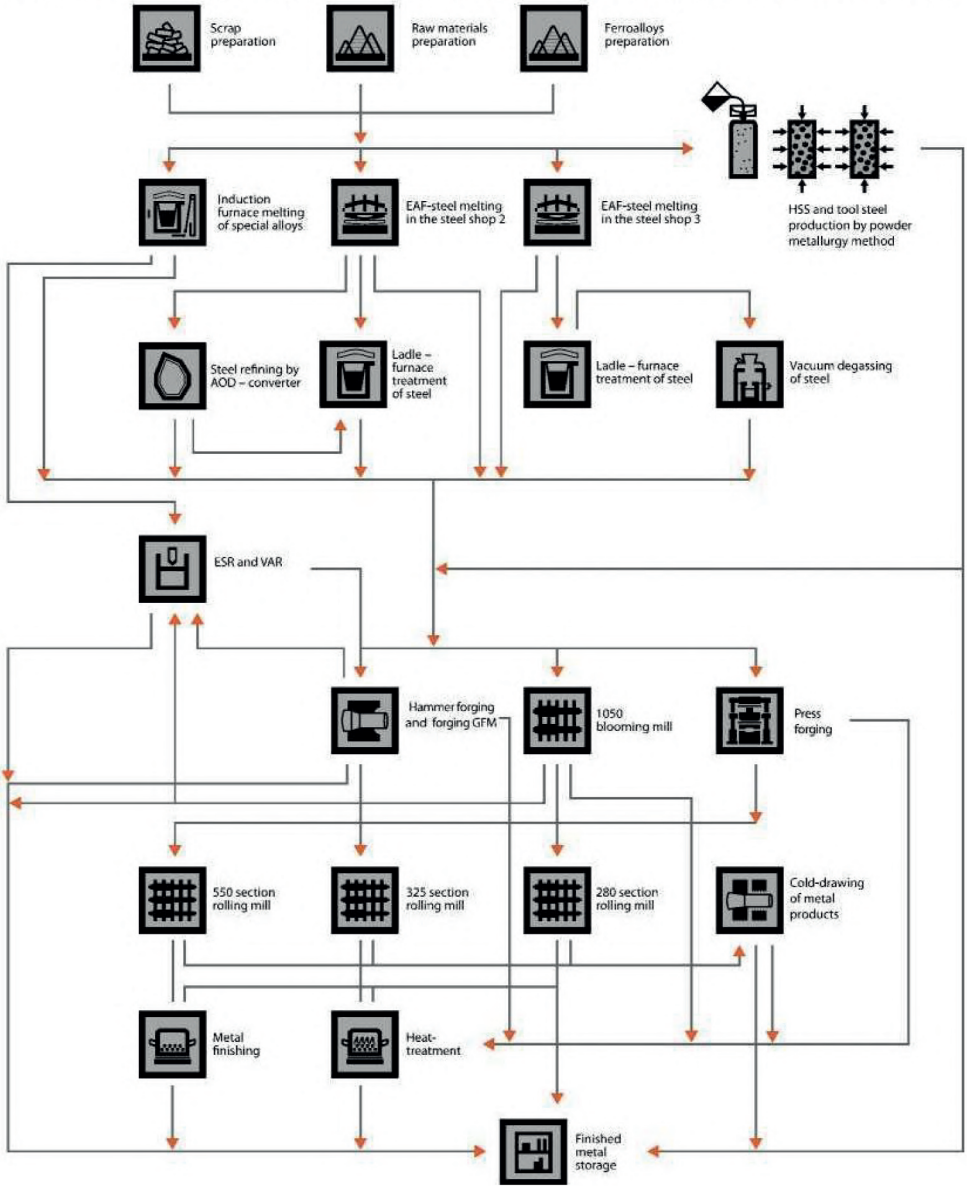
Nuclear Industry:
- National Nuclear Energy Company „Energoatom" (Ukraine)



PRODUCTION CHART

DNIPROSPETSSTAL manufactures over 800 steel grades of 1200 section sizes. The company is constantly developing the industrial facilities and new technologies, installing advanced equipment, which enables to produce high-quality products.

Production chart comprises the best combination of various processes, which allows obtaining quality products with properties according to the individual orders



ENVIRONMENTAL SUSTAINABILITY

PrJSC "DNIPROSPETSSTAL" was granted the status of a "green" electrometallurgy enterprise by the Ministry for Strategic Industries of Ukraine in 2025. Direct carbon dioxide emissions during steel production do not exceed 250 kg/t.

To reduce CO2 emissions, 15 reheating and thermal treatment furnaces were modernized.

Starting from Q4 2023, the enterprise has been generating quarterly CBAM (Carbon Border Adjustment Mechanism) reports and exporting metal products to the European market accompanied by CO2 emission data. A Greenhouse Gas (GHG) and Product Assessment Regulation has been developed for CBAM reporting compliance.

STEELMAKING

The infrastructure at DNIPROSPETSSTAL comprises four specialized melting shops utilizing advanced technologies like the ASEA-STORA powder metallurgy process and induction melting. These facilities produce over 30 grades of high-speed and tool steels, as well as low-carbon corrosion-resistant alloys, ensuring full compliance with international standards such as DIN, ASTM and DSTU/GOST.

The production capabilities are further enhanced by Danieli, Mannesmann Demag refining systems for vacuum degassing and ladle processing. Additionally, the integration of ESR and VAR furnaces allows for the production of heavy ingots (up to 20 tons) specifically engineered for high-precision industries, including the aerospace, defense, and nuclear power sectors.





STEEL PROCESSING

The steel processing infrastructure at DNIPROSPETSSTAL is a comprehensive industrial complex encompassing rolling, sizing, forging, heat treatment and surface finishing facilities. The rolling operations are anchored by the 1050/950 blooming mill for billet production and several section mills that manufacture bars ranging from 12 mm to 280 mm in diameter. This department features high levels of automation, utilizing centerless peelers and Loeser lathes with wet grinding technology to achieve precise surface finishes on bars weighing up to 2.6 tons.

The forging and sizing capabilities are equally robust, utilizing powerful 60 MH and 32 MH hydraulic presses alongside specialized radial-forging machines. These facilities are specifically designed to process difficult-to-form alloys, stainless, and high-speed steels into large-scale round, square, and rectangular forgings. Additionally, the sizing mill caters to the Eastern European market by producing specialized cold-drawn rounds and hexagonal sections, supported by dedicated areas for straightening and specialized heat treatment.

Quality control and final refinement are integrated throughout the production cycle, with mandatory ultrasonic testing for all products over 20 mm to ensure compliance with EN 10308, ASTM A388, and SEP 1921 standards. The process culminates in the metal surface finishing shop, where specialized grinding lines perform final machining on products supplied from across the plant. This seamless workflow ensures that all finished goods meet rigorous international specifications for structural integrity and surface quality.

BRIEF PRODUCT CATALOGUE

DNIPROSPETSSTAL has in possession multifold possibilities to produce various special steel products by virtue of its powerful industrial base.

STAINLESS STEEL

Austenitic Stainless Steel

DIN EN		ASTM/AISI	DSTU/GOST
1.4301	X5CrNi18-10	304	07X18H10
1.4303	X4CrNi18-12	305	06X18H12
1.4305	X8CrNiS18-9	303	10X18H9-Y
1.4306	X2CrNi19-11	304L	03X19H11
1.4307	X2CrNi18-9	304L	03X18H9
1.4401	X5CrNiMo17-12-2	316	07X17H12M2
1.4404	X2CrNiMo17-12-2	316L	03X17H12M2
1.4435	X2CrNiMo18-14-3	316L	03X1BH14M3
1.4436	X3CrNiMo17-13-3	316L	05X17H13M3
1.4541	X6CrNiTi18-10	321	08X18H10T
1.4571	X6CrNiMoTi17-12-2	316Ti	08X17H12M2T
		304H	10X19H10
		304N	08X19AH10
		304LN	03X19AH10
		309	20X23H14
		309S	08X23H14
		309H	10X23H14
		310S	08X25H20
		310H	10X25H20
		316H	10X17W3M2
		316N	08X17AH13M3
		316LN	03X17AH13M3
		317	08X19H13M4
		321H	10X18H10T
		347	08X18H10E
		347H	10X18H10E
1.4841	X15CrNiSi25-20	314	20X25H20C2

Martensitic Stainless Steel

DIN EN		ASTM/AISI	DSTU/GOST
1.4006	X12Cr13	410	12X13
		403	15X13
1.4021	X20Cr13	420	20X13
1.4028	X30Cr13		30X13
1.4031	X39Cr13		40X13
1.4034	X46Cr13		46X13
		440A	65X18
		440B	85X17
		440C	110X17
1.4057	X17CrNi16-2	431	17X16H2
1.4122	X39CrMo17-1		39X17M
1.4313	X3CrNiMo13-4		05X13H4M
1.4418	X4CrNiMo16-5-1		06X16H5AM
			40X9C2
1.4718	X45CrSi9-3		45X9C3

Ferritic Stainless Steel

DIN EN		ASTM/AISI	DSTU/GOST
1.4000	X6Cr13	4103	08Х13
1.4016	X6Cr17	430	08Х17
1.4113	X6CrMo17-1	434	0SX17M

Ferritic-Austenitic Stainless Steel (Duplex Steel)

DIN EN		AM/AISI	DSTU/GOST
1.4462		F51 S3180 S32205	03Х22Н5АМ3

STRUCTURAL STEEL

Structural Carburizing Steel

EN 10084, DIN		ASTM/AISI	DSTU/GOST
1.1121	C10E	1010	10
1.1207	C10R		10-У
1.1141	C15E	1015	15
1.1140	C15R		15-У
1.1148	C16E		15Г
1.1208	C16R		15Г-У
1.7016	17Cr3		17ХГ
1.7014	17CrS3		17ХГ-У
1.7030	28Cr4		28ХГ
1.7036	28CrS4		28ХГ-У
1.7131	16MnCr5	5115	16ХГ
1.7139	16MnCrS5		16ХГ-У
1.7160	16MnCrB5		16ХГР
1.7147	20MnCr5	5120	20ХГ
1.7149	20MnCrS5		20ХГ-У
1.7243	18CrMo4		18ХГМ
1.7244	18CrMoS4		18ХГМ-У
1.7333	22CrMoS3-5		22ХГМ-У
1.7320	20MoCS3	4118	20ХМ
1.7319	20MoCrS3		20ХМ-У
1.7321	20MoCr4		20ХГМ
1.7323	20MoCrS4		20ХГМ-У
1.5714	16NiCr4		16ХГН
1.5715	16NiCrS4		16ГМ-У
1.5805	10NiCr5-4		10ХГН1
1.5810	18NiCr5-4	3120	18ХГН1
1.5918	17CrNi6-6		17Х2ГН2
1.5752	15NiCr13		17ХН3
1.6523	20NiCrMo2-2	8620	20ХГНМ
1.6526	20NiCrMoS2-2		20ХГНМ-У
1.6566	17NiCrMo6-4		17ХГН1М
1.6569	17NiCrMoS6-4		17ХГНМ-У
1.6571	20NiCrMoS6-4		20ХГН2М
1.6587	18CrNiMo7-6		18Х2ГН2М
1.6657	14NiCrMo13-4	9310	14ХН3М
1.5732	14NiCr10	655M13	14ХН3

Structural Heat-Treatable Alloy Steel

EN 10083-3, DIN		ASTM/AISI	DSTU/GOST
17003	38Cr2		38Х
17006	46Cr2		46Х
17033	34Cr4	5130	34Х
17037	34CrS4		34Х-У
1.7034	37Cr4		37Х
17038	37CrS4		37Х-У
1.7035	41Cr4	5140	41Х
17039	41CrS4		41Х-У
1.7218	25CrMo4	4130	25ХМ
1 7213	25CrMoS4		25ХМ-У
1.7220	34CrMo4	4137	34ХМ
1.7226	34CrMoS4		34ХМ-У
1.7225	42CrMo4	4140	42ХМ
1.7227	42CrMoS4		42ХМ-У
1.7228	50CrMc4	4150	50ХМ
1.7264	20CrMo5		25Х1ГМ
1.6582	34CrNiMo6	4340	34Х2Н2М
1.6580	30CrNiMo8	4340	30Х2Н2М
1.8519	31CrMoV9		30Х3МФ
1.5815	35NiCr6		35ХН1
1.6511	36CrNiMo4	9840	36ХНМ
1.6773	36NiCrMo16		36Х2Н4МА
1.8509	41CrAlMo7		38Х2МЮА
1.6510	39NiCrMo3	9840	39ХНМ
1.6747	30NiCrMo16-6		30Х1Н4М
1.6565	40CrNiMo6	4340	40Х2Н2МА
1.0913	50Mn7	1552	50Г2
1.8159	51CrV4	6150	50ХГФ

Structural Heat-Treatable Non-alloy Steel

EN 10083-2		ASTM/AISI	DSTU/GOST
1.1151	C22E	1020	20
1.1149	C22R		20-У
1.1181	C35E	1035	35
1.1180	C35R		35-У
1.1186	C40E	1040	40
1.1189	C40R		40-У
1.1191	C45E	1045	45
1.1201	C45R		45-У
1.1206	C50E	1050	50
1.1241	C50R		50-У
1.1203	C55E	1055	55
1.1209	C55R		55-У
1.1221	C60E	1060	60
1.1223	C60R		60-У
1.1170	28Mn6		28Г

Structural Non-alloy Steel

EN 10025		ASTM/AISI	DSTU/GOST
1.0045	S355JR		20Г1С
1.0553	S355J0		17Г1С
1.0577	S355J2		17Г1С-У2

Structural High-Strength Steel

DIN EN 10273, DIN EN 10269, DIN		ASTM/AISI	DSTU/GOST
1.5415	16Mo3	F1	18М
1.7335	13CrMo4-5	F12	13ХМ
1.7380	10CrMo9-10	F22	15Х2М1
1.7390	X15CrMC5-1	F5	15Х5М

Spring Steel

EN 10089, DIN		ASTM/AISI	DSTU/GOST
1.5028	65Si7	9260H	60С2Г
1.7108	60SiCr7	9262	60С2ХА
1.7176	55Cr3	5155	55ХГ
1.8161	58CrV4	6145,6150	58ХГФ

Bearing Steel

DIN ISO 683-17		ASTM/AISI	DSTU/GOST
1.3505	100Cr6	52100	ШХ15
1.3520	100CrMnSi6-4		ШХ15СГ
1.3536	100CrMo7-3		ШХ20М

TOOL STEEL

Tool Alloy Steel

DIN EN 4957		ASTM/AISI	DSTU/GOST
1.2067	102Cr6	L1	Х
1.2080*	X210Cr12*	D3*	Х12*
1.2101	62SiMnCr4	S4	6ХГС
1.2162	21MnCr5		20ХГ
1.2210	115CrV3		ХФ
1.2235	80CrV2	L2	8ХФ
1.2235	80CrV2	L3	9ХФ
1.2312	40CrMnMoS8-6		40Х2ГМ
1.2316	X38CrMo16		40Х16М
1.2343	X37CrMoV5-1	H11	4Х5МФС
1.2581	X30WCrV9-3	H21	3Х3В8Ф
1.2344	X40CrMoV5-1	H13	4Х5МФ1С
1.2357	50CrMoV13-14	S7	5Х3СМ2Ф
1.2363	X100CrMoV5	A2	95Х5ГМ
1.2365*	32CrMoV12-28*	H10*	3Х3М3Ф*
1.2367	X38CrMoV5-3		4Х5М3Ф
1.2379*	X153CrMoV12*	D2*	Х12МФ*
1.2380*	X220CrVMo13-4*	D7*	Х12МФ4*
1.2419	105WCr6		ХВГ
1.2436*	X210CrW12*	D6*	Х12В*
1.2510	100MnCrW4	O1	95ХГВФ
1.2519	110WCrV5	O7	ХВФ
1.2550	60WCrV8	S1	6ХВ2ФС
1.2714	55NiCrMoV6		5ХН2МФ
1.2764	X19NiCrMo4		20ХН4М
1.2842	90MnCrV8	O2	9Г2Ф

* PM-method of manufacture is able

Tool Carbon Steel

DIN EN 4957		ASTM/AISI	DSTU/GOST
1.1520	C70U		У7
1.1525	C80U	W108	У8
1.1535	C90U	W109	У9
1.1545	C105U	W110	У10
1.1555	C120U	W112	У12

High-Speed PM-Steel

DIN EN ISO		ASTM/AISI	Innovator Designation	DSTU/GOST
HS 12-1-4-5-PM	1.3202-PM	T15-PM		Р12МФ4К5-МП
HS 10-4-3-10-PM	1.3207-PM	T42-PM		Р10М4Ф3К10-МП
HS 6-5-2-8-PM	1.3222-PM	M36-PM	ASP 2030 (Erasteel*) CPM REX45 (Crucible*) S590-PM (Bohler*)	Р6М5Ф3К8-МП
HS 6-5-2-5-PM	1.3243-PM			Р6М5К5-МН
HS 2-9-1-8-PM	1.3247-PM	M42-PM		Р1М10К8-МП
HS 18-1-2-5-PM	1.3255-PM	T4-PM		Р18МФ2К5-МП
HS 12-1-4-PM	1,3302-PM			Р12МФ4-МП
HS 12-1-2-PM	1.3318-PM			Р12МФ2-МП
HS 6-5-2C-PM	1.3343-PM	M2-PM		Р6М5-МП
HS 6-5-3-PM	1.3344-PM	M3-PM	ASP 2023 (Erasteel*) S790-PM (Bohler*)	Р6М5Ф3-МП
HS 2-9-1-PM	1.3346-PM	M1-PM		Р2М9Ф-МП
HS 18-0-1-PM	1.3355-PM	T1-PM		Р18-МП
			S390-PM (Bohler*)	Р10М2Ф5К8-МП
HS 10-5-3-9-PM		M48-PM		Р10М5Ф3К9-МП
			ASP 2053 (Erasteel*)	Р4М3Ф8-МП
HS 6-7-6-10-PM	1.3241-PM		ASP 2060 (Erasteel*)	Р6М7Ф6К10-МП
HS 0-4-1-PM	1.3551-PM	M50-PM		Р0М4ФС-МП
HS 2-9-2-PM	1.3348-PM	M7-PM		Р2М9Ф2-МП
HS 6-5-4-PM	1.3351-PM	M4-PM	S690-PM (Bohler*)	Р6М5Ф4-МП
HS 12-6-5-PM		M61-PM		Р12М6Ф5-МП

* Metal products of these steel grades shall be manufactured only on obtaining the written confirmation from this steel grade engineering company and owner of license to use it

Tool Alloy PM-Steel

DIN EN ISO		ASTM/AISI	Innovator Designation	DSTU/GOST
X210Cr12-PM	1.2080-PM	D3-PM		Х12-МП
X153CrMoV12-PM	1.2379-PM	D2-PM		Х12МФ-МП
X220CrVMo13-4-PM	1.2380-PM	D7-PM	K190-PM (Bohler*)	Х12МФ4-МП
X60WCrMoV9-4-PM	1.2622-PM			6Х4В9МФ-МП
			K340-PM (Bohler*)	110Х8М2ФС-МП
			Vanadis 4-PM (Bohler*)	150Х8М2Ф4С-МП
			CPM 9V (Crucible*)	Р0М2СФ9-МП
		A11-PM	CPM 10V (Crucible*)	Р0М2СФ10-МП

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Stainless Steel

Size, mm	Round			Square	
	Bars with Special Surface Finishing (ground and polished) h9-h11 (k9-k11)	Hot-Rolled	Forged	Hot-Rolled	Forged
20-40					
41-80					
81-180					
181-190					
191-195					
196-400					
401-600					

Structural Steel

Size, mm	Round			Square	
	Bars with Special Surface Finishing (ground and polished) h9-h11 (k9-k11)	Hot-Rolled	Forged	Hot-Rolled	Forged
20-40					
41-80					
81-130					
131-180					
181-260					
261-450					
451-600					

Bearing Steel

Size, mm	Round			Square	
	Bars with Special Surface Finishing (ground and polished) h9-h11 (k9-k11)	Hot-Rolled	Forged	Hot-Rolled	Forged
20-40					
41-80					
81-130					
131-180					
181-220					
221-250					
251-600					

Tool Steel

Size, mm	Round			Square	
	Bars with Special Surface Finishing (ground and polished) h9-h11 (k9-k11)	Hot-Rolled	Forged	Hot-Rolled	Forged
20-40	■	■			
41-80	■	■		■	
81-130	■	■	■	■	■
131-180	■	■	■	■	■
181-260		■	■		■
261-400			■		■
401-600			■		

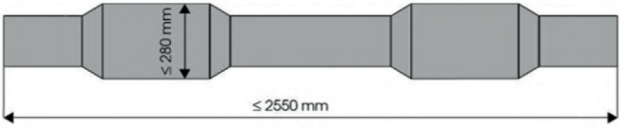
High-Speed Steel

Size, mm	Round			Square	
	Bars with Special Surface Finishing (ground and polished) h9-h11 (k9-k11)	Hot-Rolled	Forged	Hot-Rolled	Forged
20-74	■	■			
75-180	■		■		■
181-200	■		■		
201-350			■		
351-600			■		

Tool and High-Speed PM Steel

Size, mm	Round			Square	
	Bars with Special Surface Finishing (ground and polished) h9-h11 (k9-k11)	Hot-Rolled	Forged	Hot-Rolled	Forged
20-74	■	■			
75-180	■		■		■
181-200	■		■		■
201-350			■		■
351-600			■		

Forged Rough Billet for Railway Car Axles with Irregular Section



Billet weight up to 900 kg

Heat-resistant Steels and Alloys

Size, mm	Round		Square	
	Hot-Rolled	Forged	Hot-Rolled	Forged
20-70	■			
71-180		■		■
181-350		■		■
351-600		■		

Forged Flats

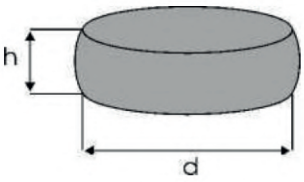
Thickness, mm	Width, mm																
	80	90	100	110	120	130	140	150	160	200	300	350	400	500	600	700	800
30-55	■	■	■	■	■	■	■	■	■	■							
60-75	■	■	■	■	■	■	■	■	■	■							
80-85		■	■	■	■	■	■	■	■	■	■						
90-95			■	■	■	■	■	■	■	■	■	■					
100-105				■	■	■	■	■	■	■	■	■	■				
110-115					■	■	■	■	■	■	■	■	■	■			
120-125						■	■	■	■	■	■	■	■	■	■		
130-135							■	■	■	■	■	■	■	■	■		
140-145								■	■	■	■	■	■	■	■		
150									■	■	■	■	■	■	■		
155-250											■	■	■	■	■	■	■
255-300											■	■	■	■	■	■	■

Utmost Deviations for Forged Flats

Thickness, mm	Tolerance, mm
30-64	+2,5/-0,0
65-89	+4,5/-0,0
90-150	+5,0/-0,0
151-250	+7,0/-0,0
251-300	+10,0/-0,0

Width, mm	Tolerance, mm
80-119	+4,0/-0,0
120-179	+5,0/-0,0
180-214	+7,0/-0,0
215-249	+8,0/-0,0
250-284	+9,0/-0,0
285-344	+10,0/-0,0
345-350	+12,0/-0,0
351-600	+15,0/-0,0
601-800	+20,0/-0,0

Forged Discs



h = 120-300 mm
d = 330-1100 mm

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