

Rolling mill equipment.

Reference-list

Designation	Year of supply	Country
1100-mm Slabbing mill	1936	Steel plant «Zaporozhstal», Ukraine
1680 –mm Continuous wide-strip hot mill	1938	
1000-mm Blooming mill	1950	Rustavi Steel plant, Georgia
900/750-mm Tubular mill		
1450 –mm Continuous hot strip mill	1951	Magnitogorsk Iron and Steel Works, Russia
1000-mm Blooming mill	1952	«Bobrek» Steel Plant, Poland
1100-mm Three-high hot rolling mill		Steel Works, China
800-mm Breakdown train of 650-mm heavy section mill	1954	«Azovstal» Steel plant, Ukraine
2800-mm reversing mill for hot rolling of aluminum and its alloys	1955	Belaya Kalitve Steel plant, Russia
750x2000-mm two-high planishing mill for hot rolling of aluminum and its alloys		
850-mm Blooming mill		
900/750-mm Tubular mill	1956	Dneprodzerzhinsk Steel plant, Ukraine
1700-mm continuous wide-strip hot mill		«Nova Huta» Steel plant, Poland
2000-mm Four-high reversing mill for hot rolling plates and strips of aluminum and its alloys		Harbin Steel Plant, China
1200-mm hot strip mill	1957	Novolipetsky Iron and steel Works, Russia
2800-mm semi-continuous hot mill for rolling of aluminum and its alloys	1958	Samara Steel plant, Russia
950-mm Sheet rolling mill		Novomorsk Steel plant, Russia
1000-mm Blooming mill		Diozhder Steel plant, Hungary
1000-mm Blooming mill		Taiuan Steel plant, China
Стан ДУО 850x1500 г.п.		
1150-mm Slabbing mill	1959	Magnitogorsk Iron and Steel works, Russia
900/2500-mm planishing hot rolling mill		Samara Steel plant, Russia
1100-mm Blooming mill		Hunedoara Steel Plant, Romania
1100-mm three-high hot rolling mill		Pernik Steel plant, Bulgaria
1000-mm tandem cold mill		
400/1000x1500-mm cold sheet mill		
1000x3500-mm two-high hot mill		



400/1000x1000-mm cold billet mill		
1500-mm four-high cold sheet rolling mill		

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Designation	Year of supply	Country
2500-mm continuous wide-strip hot mill	1960	Magnitogorsk Iron and Steel Works, Russia
800-mm breakdown train of 650-mm heavy section mill		Nizhny Tagil Steel plant, Russia
2800/1700-mm combination hot rolling mill		Cherepovets Integrated Iron and Steel Works, Russia
1500-mm four-high hot rolling mill		Asha Integrated Iron and Steel Works, Russia
1700-mm continuous wide-strip hot rolling mill (finishing train)		Cherepovets Integrated Iron and Steel Works, Russia
1700-mm Semi-continuous wide strip hot rolling mill		Dunaiwashmyu Integrated Iron and Steel Works, Hungary
1700-mm continuous wide-strip hot mill	1961	Mariupol Integrated Iron and Steel Works, Ukraine
2800-mm reversing mill for hot rolling of tapered sheets of aluminum alloys	1962	Samara Steel Plant, Russia
2800-mm hot mill for rolling of aluminum and its alloys		Stupino Steel Plant, Russia
1000-mm three-stand mill for cold rolling of non-ferrous metals		Kirov plant for non-ferrous metal working, Russia
1000-mm three-stand mill for rolling of non-ferrous metals		Artemovsk plant for non-ferrous metal working, Ukraine
1150-mm Slabbing mill		Mariupol Integrated Iron and Steel Works, Ukraine
2300/1700-mm combination hot rolling mill		Taiuan Steel Plant, China
2300/1700-mm combination hot rolling mill	1963	Chelyabinsk Integrated Iron and Steel Works, Russia
2800-mm reversing hot mill		“Zaporozhstal” Integrated Iron and Steel Works, Ukraine
2500-mm continuous wire mill		Makeevka Integrated Iron and Steel Works, Ukraine
1150-mm Blooming mill	1965	Makeevka Integrated Iron and Steel Works, Ukraine
1700-mm continuous wide-strip hot mill		East Slovakian Iron Works, Slovakia
1150-mm Slabbing mill	1966	Karaganda Integrated Iron and Steel Works, Russia
950-mm billet mill		“Dneprospetsstal” Steel plant, Ukraine
2000-mm Reversing hot rolling mill	1967	Verhnyaya Salda Steel Plant, Russia
1700-mm continuous wide-strip mill		Karaganda Integrated Iron and Steel Works

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Designation	Year of supply	Country
2000-mm Continuous wide-strip hot mill		Novolipetsky Integrated Iron and Steel Works, Russia
2300/1700-mm Hot rolling mill	1969	“Amurstal” Steel Plant, Russia
1200-mm Semi-continuous hot strip mill		Helwan Works, Egypt
2500-mm Cold rolling mill	1970	Magnitogorsk Iron and Steel Works, Russia, Russia
1700-mm Skin mill		
2500-mm Skin mill		
850x1500-mm two-high mill for hot rolling of non-ferrous metals and alloys	1971	Integrated Plant for non-ferrous Metals, Bulgaria
1800-mm Reversing mill for hot rolling of aluminum and its alloys		
1800-mm Reversing mill for cold rolling of aluminum coils		
1800-mm Four-high reversing mill for cold rolling of aluminum coils and sheets		
600x1400x1400-mm Four-high reversing hot mill	1972	Volgograd Steel Plant, Russia
2000-mm Four-high reversing mill		Konin Metallurgical Works, Poland
1700-mm continuous wide-strip hot mill		Galati Integrated Iron and Steel Works, Romania
2000-mm Four-high reversing aluminium cold mill	1973	Konin metallurgical Works, Poland
3600-mm Plate mill	1974	Czestochowa Metallurgical Works, Poland
1250-mm Slabbing	1975	Bokaro Steel Plant, India
2000-mm continuous wide-strip hot mill		Cherepovets Integrated Iron and Steel Works, Russia
2000-mm continuous wide-strip hot mill	1976	Bokaro Steel Plant, India
1200-mm Four-high reversing hot mill		Integrated Iron and Steel Works, Uzbekistan
1700-mm Semi-continuous wide-strip hot mill		Chendin Steel Plant, China
1800-mm Four-high reversing hot mill for aluminum and its alloys	1977	Seydisehir plant, Turkey
1800-mm Four-high reversing cold mill for aluminum and its alloys		
600x1000-mm Two-high hot rolling mill		Novotulsky metallurgical works, Russia



800-mm hot strip mill		Orsko-Khalilovsky Steel plant, Russia
900/850/750-mm break-down billet mill		Metallurgical works, Targoviste, Romania
950/850/750-mm break-down billet mill	1979	
1800-mm four-high reversing cold mill	1980	Belaya Kelitva Steel Plant, Russia
800x1250-mm two-high mill		Mariinsky Plant "Torgmash", Russia

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Designation	Year of supply	Country
800x1250-mm Two-high cold mill х.п.	1981	Sumgait Steel Plant, Azerbaidzhan
1800-mm Mill for hot rolling of aluminum and its alloys	1982	Metallurgical Works, Korba, India
1800-mm four-high reversing mill for cold rolling of aluminum and its alloys		
3600-mm Plate mill	1984	Steel Plant, India
1700-mm Semi-continuous wide-strip hot mill		Steel Plant, Pakistan
1400-mm Two-high hot rolling mill		Moscow Scientific Production Association, Russia
1500-mm Hot rolling mill	1986	Moscow Plant "Serp i molot"
850x1400-mm Two-high hot rolling mill	1987	Gai non-ferrous metal Plant, Russia
550-mm Heavy section mill		Dnepropetrovsk Steel plant, Ukraine
850x1000-mm Two-high hot rolling mill	1988	Kolchugino non-ferrous metal plant, Russia
2000-mm Plate mill	1990	Volgograd steel plant, Russia
1800-mm Four-high reversing cold mill	1992	Kanaker aluminum plant, RF
1800-mm Four-high reversing cold mill		Mikhailovsky non-ferrous metal plant, RF
2000-mm Semi-continuous wide-strip mill for hot rolling of aluminum and its alloys		Krasnoyarsk Metallurgical works, RF
850/700/500-mm Billet mill		Zapadno-Sibirsky Steel plant, RF
2000-mm continuous wide-strip hot mill	1993	Magnitogorsk Iron and Steel Works, RF
2800-mm mill revamping		Alchevsk Integrated Iron and Steel Works, Ukraine
2250-mm mill revamping		
TESA 20-76 pipe-welding unit	1995	Poltava Mining and concentration complex, Ukraine
1150-mm Slabbing mill shares area updating		«Zaporozhstal» Integrated Iron and Steel Works, Ukraine
320/150-mm Wire-rod mill (updating)	1996	Moldova steel plant, Rybnitsa, Moldova
Hot metal ladle slag skimming machines		Rourkela Steel Plant, India
2800-mm plate mill revamping		Alchevsk Integrated Iron and Steel
Casting and rolling facility for rolled sections producing		Norilsk Mining and Metallurgical Complex RF
Реконструкция стана 2800/1700		"Severstal" Cherepovets, RF



Реконструкция стана 2000 г.п.		Novolipetsky Integrated Iron and Steel Works, RF
Loop accumulator equipment for 2030-mm cold mill continuous pickling line		
810-mm hot rolling mill updating		JSC "Novosibirsk steel plant", RF

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Designation	Year of supply	Country
1700-mm hot rolling mill updating	1997	Integrated Iron and Steel Works named after Ilych, Mariupol, Ukraine
Equipment for construction of 1800-mm hot rolling mill (based on SMS and MDX engineering)		“Eko Stahl”, Eissenhüttenstadt, Germany
Equipment for construction of 1800-mm hot rolling mill (based on SMS engineering)		“Megasteel”, Malaysia
Equipment for construction of plate mill (based on SMS engineering)		“Oxel”, Sweden
Equipment for revamping of 1800-mm hot rolling mill (based on SMS engineering)	1998	“Warmhad” Haidid, Saudi Arabia
Universal hot coiler		Kremikovtzi Integrated Iron and Steel Works, Bulgaria
Slitting unit edge trimming coiler		Novolipetsky Integrated Iron and Steel Works, RF
Unit for producing longitudinally welded pipes of large diameter. General purpose and metallurgical overhead travelling cranes		Khartsyzsk pipe works, Ukraine
Butt-welding machine equipment (based on VAI engineering)		Spain
Equipment for 1900-mm hot rolling mill construction (based on SMS engineering)		“Vordom”, Sweden
Circular trimming shears for continuous pickling unit No.2	1999	Integrated Iron and Steel works named after Illyich Mariupol, Ukraine
Transport equipment for converter plant (based on VAI engineering)		Donawitz Steel Plant, Austria
Head part of pipe-welding unit equipment (based on VAI engineering)		“Condesa” Steel Plant, Spain
Laminar strip cooling unit on runout table		JSC “Severstal” Cherepovets, RF
Laminar strip cooling unit unit on runout table	2000	“Ispat-Karmet”, Kazakhstan
Heat shields unit on intermediate table		
Universal machine for machining mill housings at operating site		JSC “Severstal” Cherepovets, RF
Universal straightening machine for 2800-mm rolling mill		NLMK, RF
		JSC “Severstal” Cherepovets, RF



2000-mm hot rolling mill train updating	2001	NLMK, RF
Walking-beam continuous furnace for 2000-mm strip mill 2000 (in collaboration with Belgian company "HEURBEL")		
2000-mm hot rolling mill heat shields		JSC "Severstal" Cherepovets, RF

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Designation	Year of supply	Country
Pinch rolls and tracking guards upstream of coilers of 2000-mm mill	2001	JSC "Severstal" Cherepovets, RF
Updating of cross-cut shear unit for cold rolling plate		
1680-mm roughing mill train updating		"Zaporozhstal", Ukraine
250-mm semi-continuous rolling mill (updating)	2002	Nizhnie Sergi Steel Plant, RF
Slitting unit updating (rotary gang slitter НМД-350)		Engels pipe plant, RF
I-st phase of 2840-mm rolling mill renovation		Kamensk-Uralsk Steel Plant, RF
5000-mm rolling mill universal straightening machine		
5000-mm double side trimming shears		JSC "Severstal" Cherepovets, RF
5000-mm rolling mill universal straightening machine		
2300-mm reversing mill for hot rolling of magnesium alloys		Salzgitter, Germany
5000-mm Plate mill breakdown bar cooling area equipment		JSC "Severstal" Cherepovets, RF
5000-mm Plate straightening machine cassettes servicing workshop equipment	2003	
250/150-mm rolling mill flying shears		Nizhnie Sergi Steel plant, RF
Furnace No.3 area equipment		
2500-mm hot rolling mill finishing mill train guards		Magnitogorsk Iron and Steel Works, Russia
2500-mm hot strip mill cooling system		
1700-mm rolling mill transfer bar heat shields system and stands Nos.3 and 4 updating		Integrated Iron and Steel Works named after Illich, Mariupol, Ukraine
1700-mm rolling mill intermediate roll table		
Equipment of the area of coils transfer to receiving table		"Zaporozhstal" Integrated Iron and Steel Works, Ukraine
CCM slab finishing roller conveyor area	2005-2007	Integrated Iron and Steel Works named after Illich, Mariupol, Ukraine
2800-mm plate mill updating		Alchevsk Integrated Iron and Steel



Continuous walking-beam furnace No. 4 for 2000-mm hot stripmill (in cooperation with Belgium company «HEURBEL»)		Novolipetsky Integrated Iron and Steel Works, RF
Slab CCM transport and finishing line No.3,4,5,6	2006	“Azovstal” Integrated Iron and Steel Works, Ukraine
Direct iron reduction plant		“Plasmatex” Dnepropetrovsk, Ukraine

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Designation	Year of supply	Country	
Hydraulic shears	2006	State unitary enterprise, continuous casting-direct rolling plant, RF	
2000-mm continuous wide-strip hot mill	2007	Magnitogorsk Iron and Steel Works, RF	
300-mm rolling mill updating		“Severstalmetiz”, RF	
2840-mm rolling mill updating		Kamensk-Uralsk Steel Plant, RF	
Roller-quenching machine		“Stalowa Wola” Integrated Iron and Steel Works, Poland	
Roller-quenching machine			
Roller-quenching machine	2007-2009	“Severstal”, RF	
Slab CCM transport and finishing line		Magnitogorsk Iron and Steel Works, RF	
2300/1700-mm rolling mill updating		Chelyabinsk Integrated Iron and Steel Works, RF	
2500-mm rolling mill updating	2008-2010	Magnitogorsk Iron and Steel Works, RF	
AIP 5-25x2350-mm cross cutting unit			
Slab charging lines No. 1 and No.2 equipment for 2500-mm hot strip mill updating	2010	Magnitogorsk Iron and Steel Works, Russia, RF	
2000-mm hot strip finishing mill train work roll cooling system			
2300/1700-mm rolling mill plate straightening machine			Chelyabinsk Integrated Iron and Steel Works, Russia
420-mm mill stand			JSC “Taganrog Metallurgical plant”, RF
Rendering services to the customer in 2000-mm hot strip mill stands machining	2011	ArcelorMittal, Temirtau, Kazakhstan	
Shears for sheet cutting for blanks		Donetsk Steel Works, Donetsk, Ukraine	
Strip laminar cooling system No.2		Magnitogorsk Iron and Steel Works, RF	
Floor reel of skelp mill	2011-2012	Tashkent Pipe Works, Tashkent, Uzbekistan	
Stands regulated by stretch-reducing mill		Zhlobin RUE Byelorussian Steel Works, Belarus	
Stripper stand AZW 550		JSC "Taganrog Metallurgical plant", Taganrog, Russia	



500-mm bar mill revamping		JSC "Omutninsk Metallurgical plant", Russia
Bar straightening machine		JSC Gur'evsky Metallurgical plant, Gur'evsk, Russia
Twenty-high cold rolling mill stand for titanium strip production	2012	Verhne-Saldinsk Metallurgical Manufacturing group (VSMPO), Russia

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Designation	Year of supply	Country
2500-mm hot rolling mill furnaces equipment revamping	2012	Integrated Iron and Steel Works named after Ilych, Mariupol, Ukraine
Press-shears 1000 tf for metal scrap preparing		NKMZ, Ukraine
Hydraulic shears of bar mill		Donetsk Metalworks, Ukraine
Packing unit area equipment for rails at universal rail-and-structural steel mill		Chelyabinsk Integrated Iron and Steel Works, Russia
Forming mechanism of coilers No.4 and No.5 And equipment for revamp of interstand gaps and rolls cooling system of 2000-mm hot rolling mill	2013	«Magnitogorsk Iron and Steel Works, Russia », Russia
Crop shears of slitting unit		JSC "Zaporozhstal", Ukraine
Housingless stand of bar mill		Magnitogorsk Iron and Steel Works, Russia, Russia
Bar mill housing two-high and three-high stands		"Omutninsk Metallurgical Plant", Russia
Revamping of 2800-mm plate mill (1 stage)	2012-2014	JSC "Iron&Steel Works of Asha", Asha, Russia
Revamping of 800-mm bar mill (1 stage)	2014	Dnepropetrovsk, PJSC "Evraz-DMZ", Ukraine
Disk shears of slitting unit АІрР2...6х1560 АІрР2...6х1560		ArcelorMittal, Temirtau, Kazakhstan
Horizontal stands of small section mill 250-2	2015	Krivoy Rog, "Arcelor Mittal", Ukraine
Bar mill stands RR-445 and RR-436		Temirtau, "Arcelor Mittal", Kazakhstan
Hydraulic system of work roll bending system of finishing stands No.8,9,10		Magnitogorsk Iron and Steel Works, Russia, Russia
R0, R1, R2 stands main drives gear boxes for 1700-mm hot rolling mill		ArcelorMittal, Temirtau, Kazakhstan
Automated line of blanks opening, straightening and coiling in rings	2016	PJSC «Kremenchug wheel plant», Ukraine
Modernization of 2000-mm hot rolling mill finishing train roll changing system		"Magnitogorsk Iron and Steel Works, Russia ", Russia
Pumping-and accumulator station of 2800-mm five-stand hot rolling aluminum mill		CJSC Alcoa SMZ, Russia
Combination gearboxes of roughing stands train 1-8 of 320-mm bar mill		JSC Belarus Metallurgical plant



Carriage for metal strip coils positioning and transfer to uncoiler		SC ARCELORMITTAL STEEL GALATI SA
Upgrading of 1700-mm hot rolling mill coiler No.3	2017	Mariupol Iron and Steel Works

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Designation	Year of supply	Countr
Stands of assembly and disassembly of work and backup rolls	2017	" Magnitogorsk Iron and Steel Works", Russia
Bar mill revamping	2018	PT Krakatau Steel Wajatama
Equipment for rails rolling and ball-rolling mill		JSC Energosteel, Ukraine
Revamping of vertical stand No.3		IMET-TEC, a.s. Kosice, Slovakia
Hydraulic shears of bar CCM		JSC "Omutninsk Metallurgical plant", Russia
Coils preparation station		«Arconik SMZ», RF
Gearboxes of the main drives of stands No. R3, R4, R5 for 1700-mm hot rolling mill		ArcelorMittal, Temirtau, Kazakhstan
Delivery table with 2000-mm hot rolling mill control system		MMK Russia