

**Rolling mill equipment.  
 Auxiliary and detached equipment**

Reference-list

Designation	Qty	Year of supply	Country
Breakdown and bar mills hot shears with cutting force of 8 to 28 MN	49		Azerbaijan, Bulgaria, Georgia, India, China, Russia, Romania, Ukraine, Poland
Guillotine cross-cutting shears	1	1971	3600-mm plate mill Czestochowa Metallurgical works, Poland
Guillotine cross-cutting shears	1	1978	3600-mm plate mill Bhilai Steel Plant India
Slitting shears	1	1980	3600-mm plate mill mill Bhilai Steel Plant India
Guillotine cross-cutting shears	1	1983	3000-mm plate mill Integrated Iron and Steel Works named after Ilych, Mariupol, Ukraine
Scrap drum-type shears	1	1983	3000-mm plate mill Integrated Iron and Steel Works named after Ilych, Mariupol, Ukraine
Twin trimmers	1	1984	3000-mm plate mill Integrated Iron and Steel Works named after Ilych, Mariupol, Ukraine
Guillotine cross-cutting shears	2	1984	ПИИИС-2000 Integrated Iron and Steel Works, Krasnoyarsk, Russia
Twin trimmers	1	1985	3000-mm plate mill Integrated Iron and Steel Works named after Ilych, Mariupol, Ukraine
Cross-cutting shears with rolling cut	1	1987	2300-mm plate mill Donetsk Metallurgical plant, Ukraine
Guillotine cross-cutting shears	2	1987	2000-mm plate mill "Krasny Oktyabr" Metallurgical Works, Volgograd, RF
Cold shears for rolled shape steel and sections	2	1987	700-mm medium section bar mill Metallurgical Works, Adzhaokuta, Nigeria
Guillotine cross-cutting shears	1	1989	810-mm rolling mill Iron and Steel Works Novosibirsk, Russia
Twin trimmers	1	1991	3000-mm plate mill Integrated Iron and Steel Works named after Ilych, Mariupol, Ukraine
Hydraulic shears	1	1994	PJSC «NKMZ», Ukraine



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Cross-cutting shears with rolling cut	2	1996	2800-mm plate mill Alchevsk Iron and Steel Works, Ukraine
Flying section shears	2	1996	Small section rolling mill, NGMK «Severnicketl», Norilsk, Russia
Rotary trimmers	1	1996	2250-mm plate mill Alchevsk Iron and Steel Works, Ukraine
Flying section shears	1	1997	320/150-mm Bar and Wire Rolling Mill Metallurgical Plant, Rybnitsa, Moldova

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Flying breaking shears	2	1997	320/150-mm Bar and wire rolling mill, Metallurgical Plant, Rybnitsa, Moldova
Rotary trimmers	1	1998	1700-mm rolling mill, Integrated Iron and Steel Works named after Ilych, Mariupol, Ukraine
Flying shears with cut omission	4	1998	250-mm Bar and wire rolling mill, Ukraine
Hydraulic shears	1	1998	Composite Welding unit «VAI», Austria, Gallardo, Spain
Hydraulic shears	1	1999	Strip welding machine, «VAI», Austria, Condessa, Spain
Flying shears with cut omission	4	1999	“Krivorozhstal” Integrated Iron and Steel Works Krivoi Rog, Ukraine
Flying hydraulic shears	7	2000	Billet CCM, Enakievo, Ukraine
Choppers	1	2000	2800/1700-mm rolling mill, JSC «Severstal», Cherepovets, Russia
Rotary trimmers	1	2001	2840-mm aluminum hot rolling mill, JSC “KUMZ” Kamensk-Uralsk, Russia
Flying drum shears	1	2002	Cross-cutting unit No. 3 JSC “Severstal” Cherepovets, Russia
Multicircular shears	3	2002	Slitting unit No.3, JSC Engelsk pipe works, Engelsk, Russia
Twin trimmers	1	2003	5000-mm plate mill JSC “Severstal” Cherepovets, Russia
Cross-cutting shears with rolling cut	1	2003	5000-mm plate mill JSC “Severstal” Cherepovets, Russia
Flying section shears	1	2003	250/150-mm rolling mill, JSC “NSMMZ”
Flying hydraulic shears	7	2003	Billet CCM Enakievo Metallurgical plant, Ukraine
Flying hydraulic shears	3	2004	Billet CCM, «Casting and rolling plant», Yartsevo, Russia
Rotary trimmers	1	2006	2350-mm rolling mill JSC “MMK” Magnitogorsk Iron and Steel Works, RF



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Choppers	2	2006	2800-mm rolling mill, Alchevsk Integrated Iron and Steel Works, Ukraine
Rotary trimmers	1	2007	Three-high mill Lauta, "Staleva Volya" Iron and Steel Works, Poland
Hydraulic shears	1	2008	Cross-cutting unit АІР5-25x2350, JSC "ММК", Magnitogorsk Iron and Steel Works, RF

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Flying hydraulic shears	1	2008	Cross-cutting unit АПР5-25x2350 "ММК" Magnitogorsk Iron and Steel Works, RF
Disk side trimmer-and-scrap cutter	1	2008	Cross-cutting unit АПР5-25x2350 "ММК" Magnitogorsk Iron and Steel Works, RF
Flying drum shears	1	2010	2500-mm rolling mill, "ММК" Magnitogorsk Iron and Steel Works, RF