

**Metallurgical equipment.**  
**Equipment for blast-furnace melting operation stage**

BLAST FURNACE CHARGING DEVICES

Reference list

Description	Year of delivery	Q-ty	Customer
Supporting top ring	1993	1	Alchevsk steel works, Ukraine
Large bell rod	1998	1	Steel works named after Kuibyshev, Kramatorsk, Ukraine
Charging device: -large bell D=5000, large bell cup D=5000	1999	2	Alchevsk steel works, Ukraine
large bell rod, nut	2001	1	EGYPTIAN IRON STEEL, Egypt
Charging device: -large bell D=5000, large bell cup D=5000	2003	1	Alchevsk steel works, Ukraine
Stock distributor: -Small bell cone D=2000, -Small bell D=2000	2003	1	Alchevsk steel works, Ukraine
Large bell rod	2005	1	ArcelorMittal Temirtau, Kazakhstan
Apparatus for blast furnace bells handling	2005	1	Zaporizhstal, Ukraine
Large bell D=5000	2008	3	Alchevsk steel works, Ukraine
Large bell cup D=5000	2008	1	Alchevsk steel works, Ukraine
Large bell rod	2008	1	ArcelorMittal Temirtau, Kazakhstan
Y-125M hard-facing plants for blast furnace bells and hoppers	1967 1967 1969 1970	1 1 1 1	Chelyabinsk steel works, Russia Chelyabinsk steel works, Russia Karaganda steel works, Russia West-Siberian Metallurgical Plant
Y-50x7000 hard-facing plants for blast furnace bells and hoppers	1971 1972 1976 1977 1978 1980 1983 1987	1 1 1 1 1 1 1 1	Kremikovtzi AD, Bulgaria Isdemir, Turkey "RMK-ZENICA", Yugoslavia Pakistani steel corporation, Pakistan Dunaújváros, Hungary Smederevo steel works, Yugoslavia Adjoakuta steel works, Nigeria Helwan steel works, Egypt
Y-75x8000 hard-facing plants for blast furnace bells and hoppers	1967 1982	1 1	Severstal, Cherepovets, Russia Azovstal, Mariupol, Ukraine
Cooling plates	2003	162	Millenium Ltd, Kryvyi Rih, Ukraine
Cooling plates	2004	162	Rusmash JSC, Moscow, Russia
Cooling plates	2014	72	Azovstal, Mariupol, Ukraine