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REFERENCE LIST

Lifting devices with multi-motor electric drive

Purpose	Lifting capacity, ton					
	up to 10	10-50	50-150	150-250	250-400	400-700
	Number, pcs.					
Bridge casting metallurgical cranes			1	10		6
Bridge metallurgical cranes of small lifting capacity	21	2	9			
General-purpose bridge cranes	6	13	1	3		2
General-purpose gantry cranes	1	2			2	
Portal cranes		5				

Bridge casting metallurgical cranes

2003	ISPAT KARMET, Timertau, Kazakhstan Republic. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for two casting cranes with lifting capacity 420+100/20ton based on frequency converters
	West-Siberian steel corporation, Novokuznetsk. Designing and further equipment delivery of automation system for casting crane with lifting capacity 500+100/20ton based on frequency converters
2005	West-Siberian steel corporation, Novokuznetsk. Designing and further equipment delivery of automation system for casting crane with lifting capacity 500+100/20ton based on frequency converters
	Alchevsk Iron and Steel Works, Ukraine. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for two casting cranes, lifting capacity 450+100/20ton based on frequency converters
	NLMK OAO, Lipetsk. Designing, equipment delivery, supervisory installation, start-up and adjustment of weight measuring system with lifting capacity 225+63/20ton based on frequency converters
	Iron and Steel Works of Mariupol, Ukraine. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for casting crane with lifting capacity 225+63/20ton based on frequency converters
2006	Novokuznetsk Iron and Steel works. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for three casting cranes with with lifting capacity 210+63/20ton based on frequency converters
	West-Siberian steel corporation, Novokuznetsk. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for bridge crane with lifting capacity 140+32ton based on frequency converters
	NSMMZ OAO, Revda. Designing, equipment delivery, supervisory installation, start-up and adjustment of 180 ton main hoist control system for casting crane with lifting capacity 180+63/20ton based on frequency converters
2007	Amurmetall OAO, Komsomolsk-on-Amur. Integrated modernization, designing, equipment delivery, supervisory installation, start-up and adjustment of control system for 3 casting cranes with lifting capacity 180+63/200ton based on frequency converters
	Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for casting crane with lifting capacity 210+63/20ton based on frequency converters

Bridge metallurgical cranes of small lifting capacity

1999-2003	Krasnoyarsk aluminum plant. Designing, supervisory installation, start-up and adjustment of automation systems for 6 anode studpulling crane with lifting capacity 8 ton (Nr. 171, 211, 83, AVCH-A1, AVCH-A2, 161) based on frequency converters
2001	Bratsk aluminium plant. Designing, equipment delivery, supervisory installation, and start and adjustment of automation systems for studpulling crane Nr. 11A crane with lifting capacity 8 ton based on frequency converters
200	Novokuznetsk Iron and Steel works. Integrated modernization, equipment delivery, supervisory installation, start-up and adjustment of automation system for slab handling crane lifting capacity of 16 ton for rail and structural steel shop, based on frequency converters .
2004	Krasnoyarsk aluminum plant. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for special anode studpulling crane with lifting capacity 8 ton based on frequency converters
2005	Novokuznetsk Iron and Steel works. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for 2 bridge charging box-magnet crane with lifting capacity 30/5 ton and bridge crane with lifting capacity 32/5 ton based on frequency converters
	NTMK OAO, Nizhniy Taguil. . Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for 2 bridge cranes with lifting capacity 32/5 ton for blast furnace Nr.5 (control over radio channel) based on frequency converters
2006	SUAL-IRKAZ OAO, Shelekhov. Designing, equipment delivery, supervisory installation, start-up and adjustment for control system of bridge studpulling crane with lifting capacity 8/12.5/6.3ton based on frequency converters
Projects under development	
2005 – 2007	Krasnoyarsk aluminum plant. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for 8 studpulling cranes with lifting capacity 8/12.5+6.3ton based on frequency converters
2006 – 2007	SUAL-IRKAZ OAO, Shelekhov. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for control system of 4 bridge studpulling cranes with lifting capacity 8/12.5/6.3ton based on frequency converters
2007	Amurmetall OAO, Komsomolsk-on-Amur. Designing, equipment delivery, supervisory installation, start-up and adjustment of control system for 2 bridge cranes with lifting capacity 50/12.5ton and 2 bridge cranes with lifting capacity 50ton for operation with clip-on chucks and lifting magnets of new SMS DEMAG facilities based on frequency converters Designing, equipment delivery, supervisory installation, start-up and adjustment of control system for crane control system with lifting capacity 20ton with carousel base on frequency converters

General-purpose bridge cranes

2002	Bureya hydroelectric power station, Amur region Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for general-purpose master electric bridge crane with lifting capacity 420ton and general-purpose slave electric bridge crane with lifting capacity 420ton based on frequency converters Designing, start-up and adjustment of automation system for joint operation of master and slave electric bridge cranes, increase of the total lifting capacity up to 810ton
2003	Bratsk Pulp and Paper Mill. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for bridge crane with lifting capacity 30+30ton based on frequency converters AUTOVAZ. Designing, equipment delivery of automation system for stacking crane with lifting capacity 5ton. Installation works on crane. Based on frequency converter
2005	Severstal OAO, Cherepovets. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for all-purpose bridge crane with lifting capacity 20ton based on frequency converters
2006	Severstal OAO, Izhora. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for 2 special bridge cranes with lifting capacity 32ton based on frequency converters

2006	NTMK OAO, Nizhniy Taguil. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for bridge crane with lifting capacity 32/5ton for boiler and welding workshop, based on frequency converters
	SUAL-IRKAZ OAO, Shelekhov. Equipment delivery for automation system of bridge crane with lifting capacity 10ton based on contactor relay circuits
	Erdenet joint venture, town of Erdenet, Mongolia. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for grab loader with lifting capacity 10ton based on frequency converters
Projects under development	
2006-2007	Mining and chemical industrial complex, Zheleznogorsk, Krasnoyarsk region. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system of special bridge crane with lifting capacity 160+32ton based on frequency converters
	Kurskaya nuclear power plant. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system of special bridge crane with lifting capacity 160/32+5+5ton based on frequency converters
	NLMK OAO, Lipetsk. Designing, equipment delivery, supervisory installation, start-up and adjustment of control system for bridge crane with lifting capacity 60/20ton for NHPP workshop based on frequency converters
	Timluis cement plant, Kamensk settlement, Buriatia. Integrated modernization, equipment delivery, replacement of trolley power supply circuit, supervisory installation, start-up and adjustment automation system for grab loader 10ton, based on contactor relay circuits
	Irkutskenergo OAO, heat power plant 10, Angarsk. Integrated modernization, equipment delivery for bridge cranes in control rooms Nr. 1,2 with lifting capacity 125/20 ton, based on frequency converters
	Khabarovskenergo OAO, heat power plant 1, Khabarovsk. Modernization, equipment delivery, supervisory installation, start-up and adjustment of control system for lifging/locking mechanism of loader grab bucket with lifting capacity 32 ton, based on frequency converters
	SUAL-IRKAZ OAO, Shelekhov. Designing, equipment delivery, supervisory installation, start-up and adjustment of control system for bridge crane for transportation of molten metal with lifting capacity 5ton, for general-purpose bridge crane with lifting capacity 10ton, for two general-purpose bridge cranes with lifting capacity 5ton, based on frequency converters
2007	SUAL-IRKAZ OAO, Shelekhov. Designing, equipment delivery, supervisory installation, start-up and adjustment of control system for crane with lifting capacity 10ton based on contactor relay circuits
	severstal OAO, Izhora. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for special bridge crane with lifting capacity 32ton, based on frequency converters
	Sinarskiy tube-rolling mill OAO, Kamensk-Uralskiy. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for bridge crane with lifting capacity 7.5+7.5ton, based on frequency converters
	Volzhskiy tube-rolling mill OAO, town of Volzhskiy. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for 4 bridge cranes with lifting capacity 7.5+7.5ton, based on frequency converters
	Podem-Service OAO, Nefteyugansk. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for bridge crane with lifting capacity 40ton, based on frequency converters

General-purpose gantry cranes

2004	Ufa mechanized section for loading-unloading works, Sterlitamak. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for gantry container loader with lifting capacity 6.3ton, based on frequency converters
Projects under development	
2006-2007	Bureya hydroelectric power plant, Amur region. Designing, equipment delivery, supervisory installation, start-up and adjustment of control system for two gantry cranes with lifting capacity 250/25/5+10ton, based on frequency converters

Portal cranes

2002	Vostochny Port, Nakhodka. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for container loader with lifting capacity 30.5ton, based on frequency converters
2005	Vostochny Port, Nakhodka. Designing, equipment delivery, supervisory installation, start-up and adjustment of automation system for mooring container loader with lifting capacity 30.5/35ton, based on frequency converters
	Vanino port, Khabarovsk territory. Designing, equipment delivery, installation and services for restoring to working condition of overhanging mooring loader with lifting capacity 30.5ton, based on frequency converters
2006	Vladivostok container terminal. Integrated modernization, equipment delivery, supervisory installation, start-up and adjustment of automation system for container loader "TAKRAF" with lifting capacity 30.5ton, based on frequency converters
Projects under development	
2007	Vostochny Port, Nakhodka. Integrated modernization, equipment delivery, supervisory installation, start-up and adjustment of automation system for bridge loader "SUMITOMO" with lifting capacity 16ton, based on frequency converters

Special machines (projects are under development)

2006-2007	Vostochny Port, Nakhodka. Modernization of electric drive for travel of Reclaimer Nr.2, ship loading machines Nr. 2, 3 (equipment delivery, project, installation, start-up and adjustment) based on frequency converters
	Mosenergo heat power plant 22, Moscow. Designing, manufacturing of integrated operator cabin and electric equipment cabin for rotor stacker-reclaimer UZR 1200/1100, based on frequency converters
	Lebedinskiy mining-and-processing integrated works. Designing, manufacturing of integrated operator cabin and electric equipment cabin for single-beam stacker U1SN-1200, based on frequency converters
2007	Novoirkutsk heat power plant, Irkutsk. Designing, manufacturing of integrated operator cabin and electric equipment cabin stacker-reclaimer UZR 1100, based on frequency converters

Sincerely
commercial director

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