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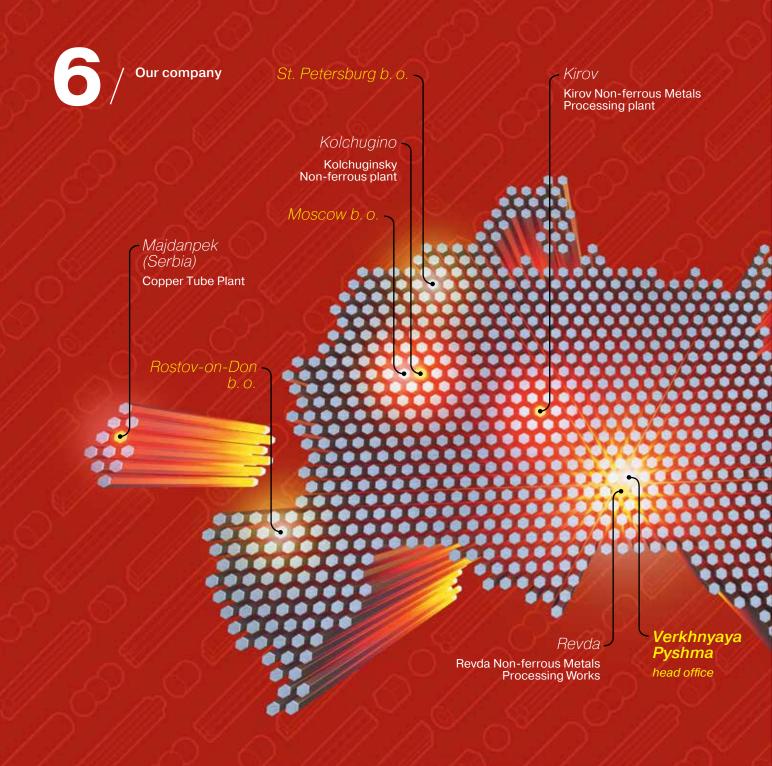
Ural Mining and Metallurgical Company

Ural Mining and Metallurgical Company was established on 20th of October 1999. Key assets of the UMMC-Holding are accumulated in mining industry, non-ferrous metallurgy and machinery. The frame work of the Company is an integrated copper production process flow from ore mining to ready copper products such as copper wire rod, rolled products, cables and conductors, radiators, etc. UMMC holds strong position at the markets of zinc, lead, precious and rare-earth metals. UMMC-Holding Corp. manages UMMC Group's key assets.

The mission of the UMMC is to improve competitiveness of domestic industry due to the effective business operation, and to promote the maximum realization of human potential and improve life of our citizens thanks to responsible attitude to our own staff and society in whole.

Annually the company invests dozens of billion rubles in technical re-equipment, extension of raw material stock base, raising of production rate of final commodities and development of new start-up businesses. All these are achieved through corporate management, quality control systems, environmental regulations and international accounting standards opening a gate to world capital markets.





UMMC-Non-ferrous Metals Processing

On May, 4 2007 UMMC-Non-ferrous Metals Processing was set up as a division, which incorporated assets of semi-fabricating enterprises, currently managing the following plants: JSC "Kirov Non-ferrous Metals Processing plant" and JSC "Kolchuginsky Nonferrous plant" (JSC "Kolchugtsvetmet"). In addition to the products of the above mentioned plants UMMC-Non-ferrous Metals Processing supplies rolled products of JSC "Revda Non-ferrous Metals Processing Works" and "Copper Tube Plant" Majdanpek (Fabrika Bakarnih Cevi Majdanpek, Serbia) including copper tubes for water supply, heating, air conditioning and cooling equipment.

Our plants manufacture almost whole range of copper, brass, bronze, copper sulfuric, nickel rolled products: plates, sheets, strips, bands, rods, tubes, buses and conductors.



Kirov Non-ferrous Metals Processing plant

JSC "Kirov Non-ferrous Metals Processing plant" was established on January 12, 1965. It produces plates, sheets, strips, rods, pipes and wire made of copper and its alloys.

Under the plan of technical reinforcement, the enterprise carries out large-scale work on reconstruction, upgrading, purchasing and installation of new equipment, actively masters new technologies and applies new kinds of products. Production modernization 5-year program, the total cost of which exceeds €30 million, has been finished. Within its framework the advanced equipment of international standard was set up and put into operation: vertical continuous casting line of copper, brass and bronze strip by "SMS Meer", universal reversing mill of cold-rolled mill products "Kvarto-160" by "Danieli Fröhling", length cutting line and line of extra fine strips packing by «Burghardt+Schmidt», the line of horizontal high convective annealing of extra fine strips by «Otto Junker». Implementation of the upto-date equipment gives to the UMMC-Non-ferrous Metals Processing company the possibility to produce high quality nonferrous mill products with advanced requirements to the accuracy of geometrical dimension

and mechanical properties in the form of sheets and strips with thickness to 25 microns from copper and copper alloys, and in a range of the most demanded thickness in the market.

Quality management system is certified in compliance with ISO 9001:2008.





Copper Tube Plant

"Copper Tube Plant" Majdanpek (Fabrika Bakarnih Cevi Majdanpek, Serbia) is the main European partner of UMMC NFMP, was started up in 1979. It specializes on production of copper tubes for water supply, heating, air-conditioning and cooling systems.

The products of the company are widely recognized all over the Europe due to its high quality ensured by modern equipment and the up-to-date technologies.

Perfect technical features of Majdanpek copper

tubes were approved by such worldwide renowned certification authorities as KITEMARK, KIWA, ITS, BSI, DVGW. Quality management system ISO 9001:2000 is certified by British Standards Institution (Certificate No. 86683).

Manufacturing, marking and packaging of the products are performed in accordance with world and national standards EN, ASTM and GOST.



Our plants

Kolchuginsky Non-ferrous plant

JSC "Kolchuginsky Non-ferrous plant" (JSC "Kolchugtsvetmet") was established on May, the 6th, 1871.

Today, the plant applies the equipment allowing to produce over 80 000 types and dimensions of products, such as pipes, rods and wire of 95 grades of brass, copper, bronze and nickel alloys in accordance with Russian and international standards.

Quality management system certified in compliance with DIN EN ISO 9001:2008 (GOST R ISO 9001-2008) is successfully implemented at JSC "Kolchuginsky Nonferrous plant".

The production applied in automotive, electrical power engineering, shipbuilding and construction industries.

The plant is provided with all types of industrial utilities, environmental facilities, transport and storing facilities with extended infrastructure.



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Revda Non-ferrous Metals Processing Works

JSC "Revda Non-ferrous Metals Processing Works" was established in 1941.

UMMC-Non-ferrous Metals Processing company and JSC "Revda Non-ferrous Metals Processing Works" are connected by the old relations of partnership. UMMC-Non-ferrous Metals Processing company is the main consumer of JSC "Revda Non-ferrous Metals Processing Works" products.

Nowadays plant's facilities allow to produce tubes, rods, wire, structural copper, brass, bronze, coppernickel and nickel alloys of various wall thickness and diameters, length and shape (round, rectangular, square, hexagonal, flat oval, etc.) of high production precision and quality of machined surface. In 1996, the plant was one of the first to certify quality management system and received a certificate of English company "Lloyd's Register Quality Assurance". Today, quality management system MS ISO 9001:2000, environmental management system MS ISO 14001:2004 and labor protection and safety management system OHSAS 18001:1999 are effectively operated at the plant.



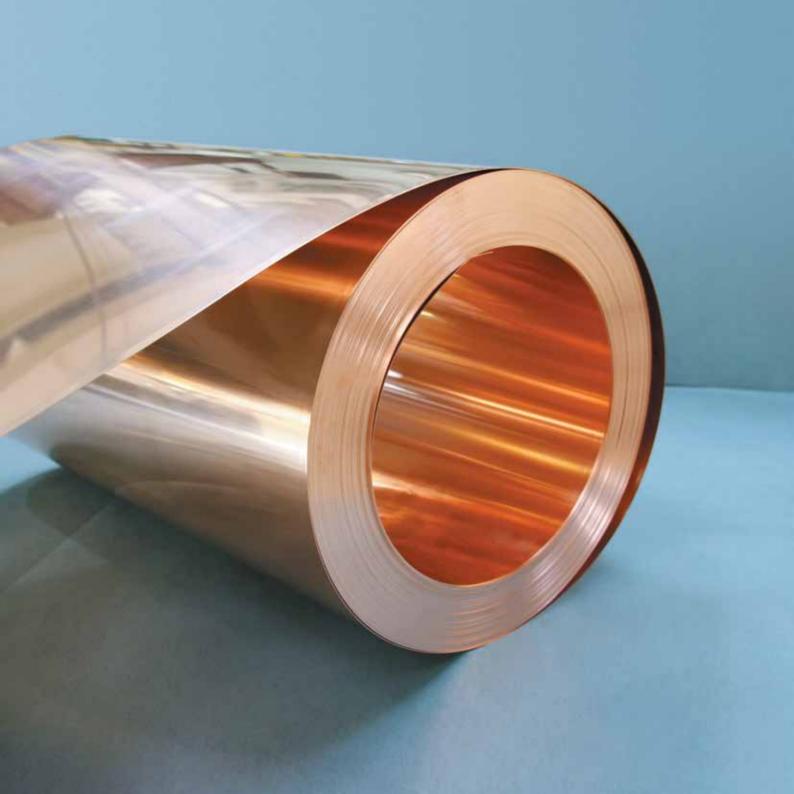
12 / Flat rolled products

Strip / Sheethot-rolled / Platehot-rolled

Thio	mm	Width mm	Length mm	Alloy	
Strip	0.5-0.8	250 60 280 60 300 67 330	60	Cop	per
Sheetho rolled	t- 0.5–25.0	- 60-100	0 500-	-3000 - Cop Bras	
Strip	0.19–2.0	12-600		- Cop Bras	
Platehot rolled	- 26-150	150-12	00 ⁶⁰⁰⁻	-2500 Cop Bras	

Applications

- electronics industry
- machinery, automotive industry, radio engineering and electronic industries, construction
- heat exchangers
- roof decks
- various types of applications



Extruded and drawn products

Rod

OD mm

Alloy

Rod

3.0-160.0

Copper Copper-nickel Brass

Applications

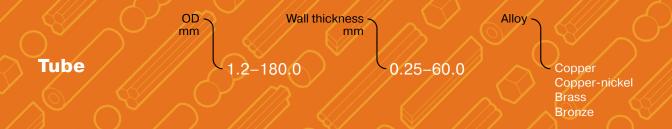
- machinery, automotive industry
 electrical motors and generators

- automotive components
- various types of applications



16 / Extruded and drawn products

Tube



Applications

- power industry, chemical industry, petrochemical industry, general machinery, automotive industry, radio engineering and electronic industries, construction
- capillary tubes
- air conditioning and refrigeration
- thermal units, radiators

- waveguide tube (waveguides)
- pluming systems
- water heaters, boilers and district heating systems
- manufacturing tube fittings
- high frequency cables
- electrical conductors and cable shoes
- various types of applications



18 / Extruded and drawn products

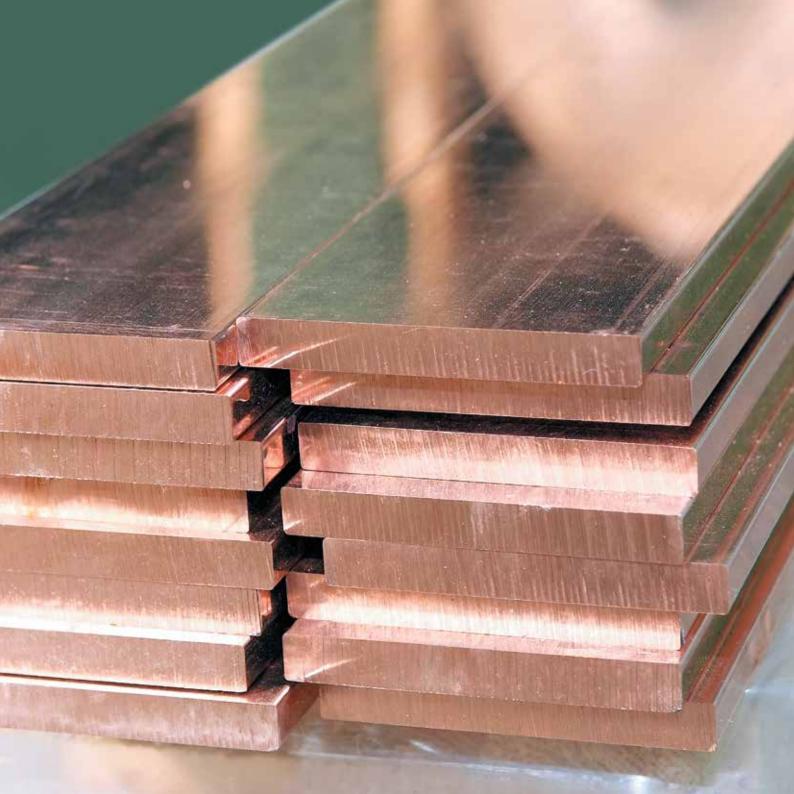
Wire / Busbar



Applications

· electrical industry, instrumentation switchboards

- power distribution panels
- various types of applications



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Warehousing

Technical equipment of our warehouse allows carrying out loading operation in the shortest possible time.

Each type of product has its own appropriate package, anticipating customers' wishes. Packing shall comply with national standard GOST and TOR, as well as high demands of foreign customers, in accordance with international requirements and standards. Upon the request of the client, a special packaging may be agreed, providing enhanced protection against external adverse effects.





Product name	Alloy	Width mm	Thickness mm	Length	Standard	Temper
	Strip					
Copper, brass strip	Cu-ETP Cu-DHP	12-600	0.19–0.40		EN 1652	Soft Half hard Hard
	Cu-ETP Cu-DHP Cu-DLP CuZn37	12-600	0.30-0.45			
	CuZn33 CuZn30	20–600	0.50-2.0			
Copper strip	Cu-DHP CuZn0.5	250 280 300 330 600 660 670	0.50-0.80		EN 1652 EN 1172	Half hard
Copper, brass hot-rolled	Cu-ETP Cu-DHP	60–600	0.5–10.0	500-2000	EN 1652	Soft Half hard
sheet	sheet CuZn37	100–1000	7.0–25.0	1000–3000		Hard
Copper, brass hot-rolled plate	Cu-ETP Cu-DHP CuZn37	150–1200	26-150	600–2500	EN 1652	



Product name	Alloy	OD mm	Wall thickness	Standard	Temper
	Tube	$\sum / / /$			
Copper drawn tube	C12000 C12200	6–16 17–24	0.75–2.0 0.8–2.0	ASTM B68	O50, O60
) ////	012200	17-24 0.8-2.0 25-30 1.0-2.0 25-30 2.1-3.5	1.0–2.0	ASTM B75	H58, H80, O50
	25-30 31–55 31–55	1.0-2.0	ASTM B88	H58, O50, O60	
		2.1–3.5	ASTM B111 ASME SB111	H80	
				ASTM B280	060
	SF-Cu E-Cu57			DIN 17671	F22, F30
	Cu-DHP			EN 12451	R200, R290
				EN 12449	R200, R290
ACRthin-walled tube	C12200	6–16	0.5–0.7	ASTM B68	050, 060
\bigcirc \bigcirc \bigcirc \bigcirc		онр		ASTM B280	060
	Cu-DHP			EN 12735	Y040



Product name	Alloy	OD mm	Wall thickness mm	Standard	Temper
ACR tube			0.75-1.5	ASTM B68	O60
$\langle \rangle / \langle \rangle$		0.75–1.65	ASTM B280	060	
) \checkmark /) \checkmark				ASTM B88	060
ACR tube	Cu-DHP C12000 C12200	4.5–22.23	0.35 –2	ASTM B-280. ASTM B-359M	
Copper tube in coils		6–10	0.75–1.5	ASTM B280	060
pancakes		12–19	0.75–1.5	ASTM B88	060
Copper capillary tube, for refrigeration and instrument engineering	Cu-DHP C12000 C12200	1.2–2.75	0.35–1.6	ASTM B-360	
Copper general purpose drawn	Cu-DHP C12000	3–105	5–30	EN 12449	-////
tube, pancakes	C12000 C12200			DIN 59750	
Copper plumbing tube	Cu-DHP C12000 C12200	6–108	0.8–3.0	DIN1786 BS 2871 EN1057 ASTM B-88	

Product name	Alloy	OD mm	Wall thickness mm	Standard	Temper
Brass tube for general	CuZn37	16–42	1.0–3.5	ASTM B68	O60
purpose				ASTM B280	060
Brass condenser tube	CuZn20Al2As	10-18	1.0-2.0	EN 12451	R340, R390
\sim	CuZn20Al2	19–30 19–30	1.0–2.0 2.1–3.5	DIN 1785	F34, F39
	C44300	. A:	ASTM B111 ASME SB111	061	
	CuZn28Sn1As			EN 12451	R340, R390
)*////	CuZn28Sn1			DIN 1785	F32, F36
	C68700			ASTM B111 ASME SB111	061
Brass general purpose drawn tube, extruded	CuZn37 CuZn32	3–80 21–180	0.8–10 2–40	EN 12449	
Brass tube for heat exchangers	CuZn32 CuZn29Sn CuZn32As CuZn30Sn1As CuZn21Al2As CuZn28Si	10–40	0.8–3.0	EN 12451 ASTM B-111	
Bronze extruded tube	CuAl10Fe3Mn2 CuAl10Fe4Ni4	42–180	5-60	DIN 1755	



Product name	Alloy	OD mm	Wall thickness mm	Standard	Temper
Copper-nickel drawn tube	CuNi10Fe1Mn	6-9.9	0.5-1.5	EN 12451	R340
C70600 C71500	10–20 21–25	0.8–2.5 0.8–1.5	EN 12449	R290, R310	
$^{\circ}$		21–32 33–55	1.0–3.6 1.0–3.0	DIN 1785	F29
	56–108	1.5–3.0	ASTM B111 ASME SB111	061	
Ŭ_OŬ				ASTM B466	060
\mathcal{O}	CuNi30Mn1Fe1	10–18	0.8-2.5	EN 12451	R370
C71500 CuNi5Fe	19–32 33–55	1.0–3.5 2.5–3.5	EN 12449	R340	
			DIN 1785	F37	
Busbar					

Copper busbar	Cu-ETP	40–120	10	EN 13601	Half hard

Product name	Alloy	OD mm	Standard	Temper
	Rod			
Copper-nickel rod	CuNi10Fe1Mn	16–120	EN 12163 EN 12165	
Rectangular cross section copper rod	E-Cu57 E-Cu58	5–12x30–120	DIN 40500.3/1759 DIN 40500.3/46433 DIN 17672/1759	F20, F25
			EN 13601	R200, R250
			ASTM B187	O60, H58
Drawn round copper rod	E-Cu57 E-Cu58	6–100	DIN 40500.3/1756 DIN 17672/1756	F22, F25, F30
	Cu-DHP		EN 12163	R220, R250, R300
Drawn round brass rod	CuZn39Pb3 CuZn40Pb2	6–12	DIN 17672/1756	F43, F50
	Cuzn40Pb2	13–45		F43
		6–12	EN 12164	R430, R500, M
		13–45		R430, M
Drawn, extruded round	CuZn39Pb3	18–160	DIN 17672/1782	Р
brass rod	CuZn40Pb2		EN 12165	М
Drawn rectangular	CuZn39Pb3	6–10x8–20	DIN 17672/1759	F43
brass rod	brass rod CuZn40Pb2		EN 12167	R430



Product name	Alloy	OD mm	Standard	Temper
Drawn square brass rod	CuZn39Pb3	6–12	DIN 17672/1761	F43, F50
bracerou	CuZn40Pb2	13– 40		F43
		6–12	EN 12164	R430, R500, M
		13–40		R430, M
Drawn	Drawn hexagonal cross section brass rod	6–12	DIN 17672/1763	F43, F50
cross section		13–40		F43
		6–12	EN 12164	R430, R500, M
		13–40		R430, M
Drawn round brass rod	CuZn37	6–12	DIN 17672/1756	F43, F50
		13-45		F43
		6–12	EN 12163	R370, R440, M
		13–45		R370, M
Drawn CuZn37 hexagonal	CuZn37	6-36	DIN 17672/1763	F37
cross section brass rod		6-36	EN 12163	R370, M

Product name	Alloy	OD mm	Standard	Temper
Drawn square brass rod	CuZn37	6-36	DIN 17672/1761	F37
		6-36	EN 12163	R370, M
Extruded round brass rod	CuZn37	25-160	DIN 17672/1782	P
			EN 12165	M
Round, square, hexagonal	CuZn37	3 - 105	DIN 1782	
cross section brass rod	CuZn40Pb			
	CuZn40Pb2			
	CuZn34Pb3			
Hexagonal cross section drawn, extruded brass rod round	CuZn39Pb3 CuZn40Pb2	6-40 20-120	EN 12163 EN 12164 EN 12165	Half hard
Drawn, extruded bronze rod	CuAl9Fe3 CuAl9Fe2 CuAl10Fe3Mn2 New: Vessel bronze	9-40 16-150	DIN 1782	
	Wire			
Copper wire	Cu-DHP	0.54-1.9	EN 1653	Soft



DIN EN ISO 9001 : 2008

JSC "Kirov Non-ferrous Metals Processing plant"

BS EN ISO 9001 : 2008

"Copper Tube Plant" Majdanpek (Fabrika Bakarnih Cevi Majdanpek, Serbia)

ISO 9001 : 2008

JSC "Kolchuginsky Non-ferrous plant" (JSC "Kolchugtsvetmet")

ISO 9001 : 2008

JSC "Revda Non-ferrous Metals Processing Works"



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UMMC-non-ferrous metals processing

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