



Ramtin Copper Industries Co.
Copper and copper alloys producer



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Ramtin **Copper** Industries Co. is located at Higher Technologies Industrial Zone at Mashhad, north-east of Iran. The company is established with the aim of producing around 6.000 MT of copper and copper alloys products. The factory is equipped with the modern production lines after researches and investigations in the industry, and 2 set of channel induction furnace and horizontal continuous casting machine are the main parts of the production line.





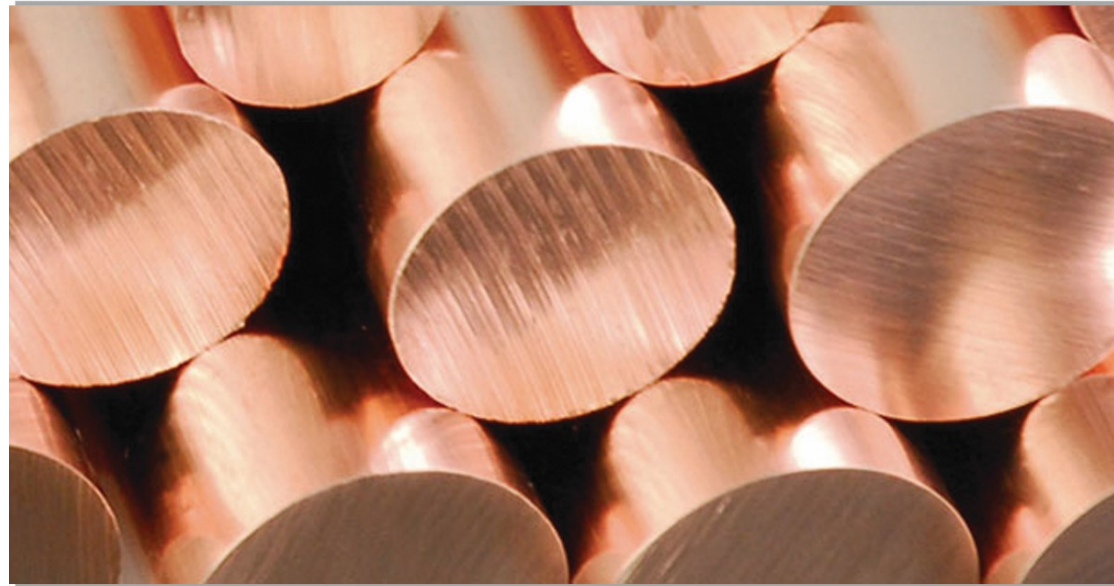
Ramtin Copper Industries Co. makes benefit of 2 production lines of melting and casting which mainly consists of the channel induction furnaces and horizontal continuous casters. The range of the products includes bars and tubes of copper and copper alloys like brass, phosphorous- bronze, aluminum-bronze, etc.

The production sections include, raw material processing, melting and casting saloon, cutting section, packing and storing. The whole production is under the control of the quality assurance officers and different quantity, and quality tests are done by them like PT tests, VT tests, chemical analysis spectrometric tests, and various mechanical and metallurgical test.



Copper

As a chemical element, copper is represented by the symbol Cu in the periodic table and has the atomic number 29. As a metal, copper is ductile and malleable and valued for its high thermal and electric conductivity.



Copper Products

Pure copper products that can be produced in Ramtin Copper Industries Co., include:

- Copper Rod
- Copper Bar
- Copper Tube

The cross section sizes can be up to 180 mm and the grade can be customized.

Quality Assurance

Ramtin Copper Industries Co. have an equipped quality assurance laboratory to achieve the highest production standards and monitor the quality of end products. The technicians in this section accomplish the accurate tests to investigate different specifications of the end products to achieve the highest quality in production. The whole production process from the raw material to the end products are under the full supervision of the quality assurance officers.

The controls include:

- Overall production process control
- Sampling
- Analytical controls
- Raw material investigations



Copper

To satisfy the market demand, copper tubes are produced in three groups of TPC, DHP and DLP with following applications:

TPC:

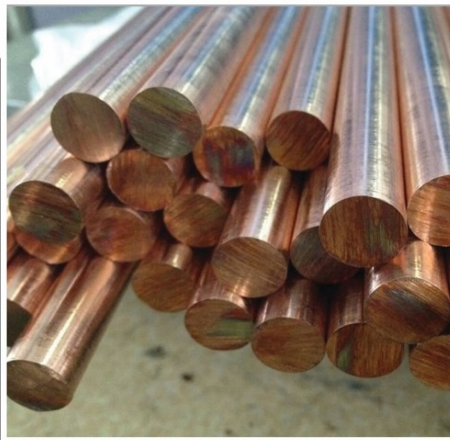
These copper tubes have excellent electrical and thermal conductivity, and are mainly used in electrical applications especially as cable shoes.

DHP, DLP:

Good workability, draw-ability, high heat conductivity and weldability are the main characteristics of this category of copper tubes, which make them excellent to be used in HVAC (heating, ventilation and air conditioning) systems and industrial heat exchangers.

Ramtin copper industries Co. offers copper tubes in a wide range of diameter with different thickness. More detail information is shown in the following table.

O.D. \ T	mm	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.63	0.65	0.70	0.75	0.80	0.85	0.90	1.00	1.20
	Inch	0.012	0.014	0.016	0.018	0.020	0.022	0.024	0.025	0.026	0.028	0.030	0.031	0.033	0.035	0.039	0.047
3.00																	
4.00																	
4.76	3/16"																
4.80																	
6.00																	
6.35	1/4"																
7.94	5/16"																
8.00																	
9.52	3/8"																
10.00																	
12.00																	
12.7	1/2"																
14.00																	
15.87	5/8"																
16.00																	
18.00																	



Brass

Brass is a binary alloy composed of copper and zinc that has been produced for millennia and is valued for its workability, hardness, corrosion resistance, and attractive appearance.

The exact properties of different brasses depend on the composition of the brass alloy, particularly the copper-zinc ratio. In general, however, all brasses are valued for their machinability or the ease with which the metal can be formed into desired shapes and forms while retaining high strength.

Ramtin Copper Industries Co., is capable of producing brass bars and tubes in different cross section sizes ranging from 8 to 180 mm.



Phosphorous-Bronze (Leaded Red Brass)

Alloy C83600, the most common red brass, is called 85 metal or 85-5-5-5. It contains 85% copper and 5% each of tin, lead, and zinc. Typical uses for red brass are for low-pressure valves, pump housings, impellers, and fittings.



Phosphorous-Bronze (Leaded Red Brass) tube :

Size	Weight	Size	Weight	Size	Weight	Size	Weight
14*27	4	27*55	17	50*80	28	90*130	62
18*30	4	30*55	15	60*80	20	90*135	83
14*32	6	35*55	13	35*85	43	90*140	84
20*35	6.5	30*60	19	45*90	43	100*140	68
14*36	9	35*60	17	50*90	40	90*145	91.5
25*36	5	40*60	15	60*90	32	100*145	78
20*40	9	45*60	14	70*90	23	90*150	101
25*40	7	35*65	22	50*100	53	90*160	123
30*40	5	45*65	16	60*100	46	60*176	175
27*42	8	30*70	29	70*100	36	100*180	157
20*45	12	35*70	26	80*100	26		
25*45	10	40*70	24	70*110	51		
30*45	9	50*70	17	60*120	76		
20*50	15	35*75	31	70*120	68		
25*50	14	30*80	39	80*120	58		
30*50	12	35*80	47	90*120	46		
35*50	9	40*80	34	90*128	55		



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