



Estd. 1935



**Committed
to Quality,
Promise of
Trust**



IS 410:1977



Shaping Excellence in Copper & Brass

 www.kmwindia.com



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ABOUT US

Krishna Metal Works is one of the leading manufacturers of Copper and Copper Alloys in the form of coils, foils, strips, sheets and circles.

We have been one of the major manufacturers in the industry since 1935 with our customer base including some of the biggest automotive and electrical industries in the country.

To maintain a customer-centric approach, we follow some parameters:



Maintaining adequate level of **stock**.



Ensuring the most **competitive prices** for our valued customers.



Working constantly on improving the **quality** and reducing the **lead time**.



Providing **flexible terms** and conditions as per customer requirement.

OUR JOURNEY

1935



Commenced operation as a **COPPER AND COPPER ALLOY UTENSIL** manufacturing company

1961



Set up **SHEET MANUFACTURING UNIT TO MANUFACTURE** Copper Alloy sheets with the aim to supply directly to the industry

2005



Installation of **4HI Cold Rolling Breakdown Mill** of Sir James Farmer Norton (England) and Sendimizir Mill of Waterbury Farrel (USA) for making continuous coils and foils of upto 0.04mm

2006



INSTALLED HORIZONTAL STRIP CASTER for Copper and Copper Alloys of Wertili (England), 4HI Cold Rolling Finish Mill of Sir James Farmer Norton (England) equipped with thickness gauges, Milling line of Robertson (England), Annealing Furnaces and Slitting Lines of Stanat (USA)

2015



INSTALLED SPECTROMETER of AMETEK (Germany)

2021



INSTALLED 4HI COLD ROLLING Breakdown Mill of LEWIS (USA) and Solar Power Plant

2022



INSTALLED 2HI HOT ROLLING MILL of United (USA), 4HI Cold Rolling Finish Mill of Sir James Farmer Norton (England) and Pickling Line (Indigenous)

2023



INSTALLED 4HI COIL ROLLING MILL of United (USA) with latest thickness gauge.



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MISSION

With the mission of "Customer Satisfaction is the Greatest Profit", we are into the business that focuses on customer requirements. Since its inception, Krishna Metal Works has grown into a leading name in the industry for manufacturing copper and brass products in various forms. Our focus is to enhance product quality, employee work-life balance, and customer satisfaction. We have a great team that focuses on their individual and company growth to reach our mission. The team upgrades themselves with the ongoing technology.



VISION

We at Krishna Metal Works have been successful in cementing our name as a leading manufacturing in the copper and copper alloy industry. Our vision is to become global leaders in the industry and provide the maximum value and best experience to our clients for their purchase. Our products are manufactured with precision and care to ensure that every order is delivered on time, every time.



QUALITY STATEMENT

The products are manufactured at KMW's the state-of-the-art manufacturing unit which ensures strict compliance with manufacturing and quality parameters. The manufacturing facility has the ability to produce 400 Metric Tons of Brass and Copper per month and is certified with ISO 9001:2015, 14001:2015, 45001:2018 and IS 410:1977 which is a testament of the high quality standards followed by the company. KMW is committed to achieving total customer satisfaction by fulfilling customer requirements by manufacturing and supplying products of highest quality and precision well within the stipulated time.





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About the Product

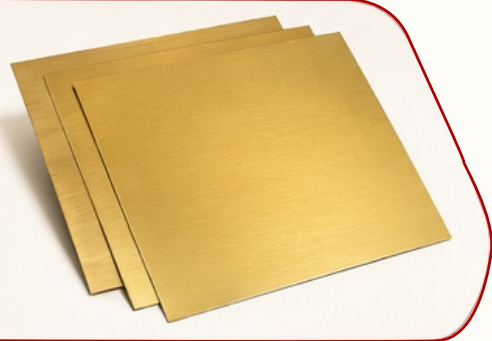
BRASS

BRASS is an alloy that contains copper and zinc. It is stronger and more durable than pure copper, but has more corrosive resistance than pure zinc. BRASS products are also recyclable.



BRASS COILS

Krishna Metal Works is the prominent Brass Coils Manufacturer in India. We are engaged in providing a broad spectrum of the brass Coils to clients. These brass coils are comprised using premium grade raw materials and state-of-the-art technology. The brass coils we provide have high demand in the market due to their remarkable attributes such as dimensionally precise, rust-proof, heat resistance and seamless finished. Moreover, it is obtainable in customized thicknesses and sizes at a competitive price.



BRASS SHEET

Krishna Metal Works is the prominent Brass Sheets Manufacturer in India. Our offered brass sheets are composed using the avant-garde supervision of merchants that uses quality compliance raw materials in modern technology. Besides our merchant's raw material testing, we examine every sheet against various quality standards to provide quality efficiency.



BRASS CIRCLES

Krishna Metal Works is the prominent Brass Circles Manufacturer in India. We strive to provide brass circles that fulfil all your essentials and fit the various industrial demands owing to our product's superior performance excelling in high durability. We procure a vast range of brass circles that we fabricate under stringent adherence to all set industrial norms. Moreover, it is available in customized sizes and diameters at the best prices.





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SHAPING EXCELLENCE IN COPPER & BRASS

TECHNICAL DATA

BRASS COILS, SHEETS & CIRCLES

Trade Name	CuZn40	CuZn37	CuZn36	CuZn35	CuZn33	CuZn30	CuZn15	CuZn10	CuZn05
Standard Conformance	Muntz Metal	Yellow Bras	Yellow Brass	Yellow Brass	Yellow Brass	Cartridge Brass	Red Brass	Commercial Bronze	Gilding Metal
IS	IS 410	IS 410	-	-	-	IS 410	-	IS 2768	IS 3167
ASTM	C28000	C27200	C27000	C27000	C26800	C26000	C23000	C22000	C21000
BS 2870	CZ109	CZ108	CZ107	CZ107	CZ107	CZ106	CZ102	CZ101	CZ125
DIN 17660	2.0360	2.0321	2.0335	-	2.0280	2.0265	2.0240	2.0230	2.0220
EN 1652	CW509L	CW508L	CW507L	-	CW506L	CW505L	CW502L	CW501L	CW500L
JIS 3100	C2801	C2720	-	C2680	C2680	C2600	C2300	C2200	C2100
Chemical Composition (%)									
Copper	58.5 - 61.5	61.5-64.5	62.5-65.5	63.5-66.5	65.5-68.5	68.5-71.5	83.5-87.5	88.5-91.5	93.5-96.5
Zinc	REM	REM	REM	REM	REM	REM	REM	REM	REM
Other Impurities	<0.75	<0.60	<0.60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Temper	Mechanical Properties								
Annealed (0)	Hardness (HV)	85 Max	80 max	80 Max	80 Max	80 Max	80 Max	55 - 75	55 - 75
	Tensile Strength (N/mm2)	275 Min	275 Min	275 Min	275 Min	275 Min	275 Min	245 Min	245 Min
	Elongation (% Min)	30	40	40	40	40	50	35	35
Quarter Hard (HA)	Hardness (HV)	85-100	75-110	75-110	75-110	75-110	75-100	75-95	75-95
	Tensile Strength (N/mm2)	350-420	335-380	335-380	335-380	335-380	320-345	275-325	275-325
	Elongation (% Min)	20	30	30	30	30	35	15	15
Half Hard (HB)	Hardness (HV)	100-125	110-135	110-135	110-135	110-135	100-125	95-110	95-110
	Tensile Strength (N/mm2)	420-490	380-450	380-450	380-450	380-450	345-405	325-375	325-375
	Elongation (% Min)	12	15	15	15	15	20	7	7
Hard (H)	Hardness (HV)	125-155	135-165	135-165	135-165	135-165	125 Min	110-140	110-140
	Tensile Strength (N/mm2)	490 Min	450-515	450-515	450-515	450-515	405 Min	350 Min	350 Min
	Elongation (% Min)	5	5	5	5	5	5	3	3
Extra Hard (HE)	Hardness (HV)	160 - 180	165-185	165-185	165-185	165-185	150 Min	140 - 160	130 - 145
	Tensile Strength (N/mm2)	565 Min	515-660	515-660	515-680	515-660	480 Min	480 Min	440 Min
	Elongation (% Min)	-	-	-	-	-	-	-	-
Spring Hard (HS)	Hardness (HV)	-	185 Min	185 Min	185 Min	185 Min	185 Min	155-180	140-160
	Tensile Strength (N/mm2)	-	660 Min	660 Min	660 Min	660 Min	665 Min	540 Min	475 Min
	Elongation (% Min)	-	-	-	-	-	-	-	-
Application		Locks, Key Blanks, Architectural, Nuts & Bolts, Condenser Plates, Heat Exchange & Condenser Tubes	Flashlight Shell, Lamp Fixtures, Locks, Fasteners, Hinges, Plumbing Accessories, Pins, Rivets & Switchgears			Ammunition Components, Flashlight Shell, Lamp Fixtures, Locks, Hinges, Rivets Connectors, & Terminals	Sockets, Fasteners, Fire Extinguishers, Conductors of Heat Exchangers, Switchgears	Bullet Jacket, Lipstic Cases, Screw Rivets	Coins, Medals, Bullet Jacket, Fuse Caps, Primers, Jewellery Base for Gold Plate



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SHAPING EXCELLENCE IN COPPER & BRASS

COPPER

Copper is an essential element found in the earth's crust. It has a reddish, metallic-looking appearance and is one of the most widely used metals in the world. Which is made up of 29 protons and 71 electrons. It is a very reactive metal and has many uses, such as in electrical wiring, water pipes, and cookware. Copper is also used to produce bronze. Copper is used as a conductor of heat and electricity, as a building material, and as a constituent of various metal alloys.

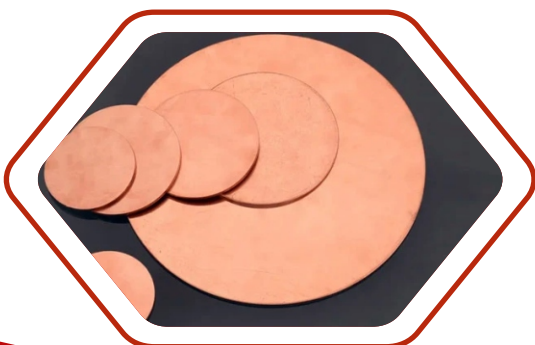
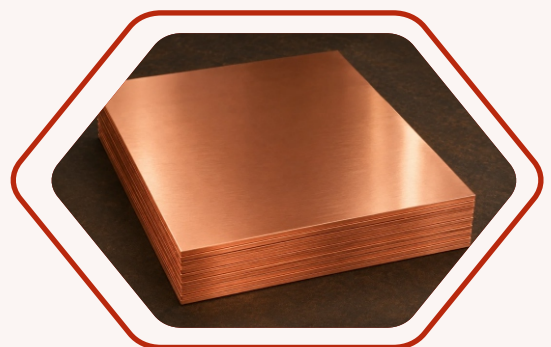


COPPER COILS

Krishna Metal Works is the eminent Copper Coils Manufacturer in India. Our offered copper coils are composed with the support of technical specialists that fabricate these coils with the help of state-of-the-art procedures by creating the use of premium-grade copper in compliance with predefined industrial norms. Moreover, it is attainable in customized thicknesses and sizes at a market leading price.

COPPER SHEET

Krishna Metal Works is the eminent Copper Sheets Manufacturer in India. Copper Sheets a rainbow of surprises based upon our customer's end-use of any product. We provide in various customized shapes and forms. Selecting the sizes to buy your copper sheet predominantly depends on attributes that are on the final use for your project. It is essential to buy any copper sheet that is closely related to your final application purpose.



COPPER CIRCLES

Krishna Metal Works is the eminent Copper Circles Manufacturer in India. Our provided copper circles are composed using avant-garde copper, hand-picked from reliable vendors. These circles can be textured and kept with punched holes in them. These can be use as connectors or links for earrings, necklaces and bracelets. We offer copper circles which can be obtainable in various dimensions and specifications as per the needs of our clients at a competitive price.



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TECHNICAL DATA



COPPER COILS



COPPER SHEETS



COPPER CIRCLES

Trade Name	ETP	DHP	TBC
Standard Conformance	Electrolytic Tough Pitch Copper	Deoxidized High Residual Phosphorus Copper	Tin Bearing Copper
IS	IS 191 / 14811 / 1897		IS 3331
ASTM	C11000	C12200	C14410
BS 2870	C101	C106	-
EN 1652	CW004A	CW024A	-
JIS	C1100	C1220	-
Chemical Composition (%)			
Copper	99.90 Min	99.90 Min	99.50 Min
Tin	-	-	0.07 - 0.20
Zinc	-	-	-
Nickel	-	-	-
Phosphorus	-	0.015 - 0.040	0.015 - 0.045
Other Impurities	-	-	-
Temper	Mechanical Properties		
Annealed (0)	Hardness (HV)	55 Max	55 Max
	Tensile Strength (N/mm2)	195 Min	195 Min
	Elongation (% Min)	35	35
Quarter Hard (HA)	Elongation 15% min for XLPE Strips		-
	Hardness (HV)	55 - 75	55 - 75
	Tensile Strength (N/mm2)	215 Min	215 Min
	Elongation (% Min)	25	25
Half Hard (HB)	Hardness (HV)	75 - 90	75 - 90
	Tensile Strength (N/mm2)	250 Min	250 Min
	Elongation (% Min)	15	15
Hard (H)	Hardness (HV)	90 Min	90 Min
	Tensile Strength (N/mm2)	274 Min	274 Min
	Elongation (% Min)	-	-
Extra Hard (HE)	Hardness (HV)	110 Min	110 Min
	Tensile Strength (N/mm2)	340 Min	340 Min
	Elongation (% Min)	-	-
Spring Hard (HS)	Hardness (HV)	-	-
	Tensile Strength (N/mm2)	-	-
	Elongation (% Min)	-	-
Extra Spring Hard (HES)	Hardness (HV)	-	-
	Tensile Strength (N/mm2)	-	-
	Elongation (% Min)	-	-
Application	Electrical Components Bus Bars, Communication Process Equipments Transformers & HT Power Cable (XLPE)	Tubing, Chemical Engineering General Application especially those Involving Welding & Brazing	Automobile Radiators & Heat Exchangers



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ABOUT THE PRODUCTS

Our vast range of high quality and precise product range comprises of copper and copper alloy flat cold rolled products in the form of coils, foils, strips, sheets and circles.

PRODUCT RANGE

BRASS COILS, SHEETS & CIRCLES

Composition (Cu/Zn%)	CuZn40, CuZn37, CuZn35, CuZn33, CuZn30, CuZn20, CuZn15, CuZn10, CuZn05					
Temper	Annealed (Soft), Quarter Hard (HA), Half Hard (HB), Hard (HD), Extra Hard (HE), Spring Hard (HS)					
Hardness Range	60 VPN-220 VPN					

Dimension*		Thickness		Width / Diameter		Length	
Products	Min.	Max.	Min.	Max.	Min.	Max.	Max.
Sheets	0.10	4.00	40.00	406.00	500.00	2500.00	
Coils	0.05	4.00	6.00	406.00	-	-	
Circles	0.20	2.50	30.00	370.00	-	-	

COPPER COILS, SHEETS & CIRCLES

Composition (Cu%)	EC / ETP (99.90% Min), DHP (99.80% Min), TBC (99.60% Min), INDUSTRIAL (98.00%Min)					
Temper	Annealed (Soft), Half Hard (HB), Full Hard (HD)					
Hardness Range	45-130 VPN					

Dimension*		Thickness		Width / Diameter		Length	
Products	Min.	Max.	Min.	Max.	Min.	Max.	Max.
Sheets	0.10	4.00	40.00	406.00	500.00	2500.00	
Coils	0.04	4.00	6.00	406.00	-	-	
Circles	0.20	2.50	30.00	370.00	-	-	



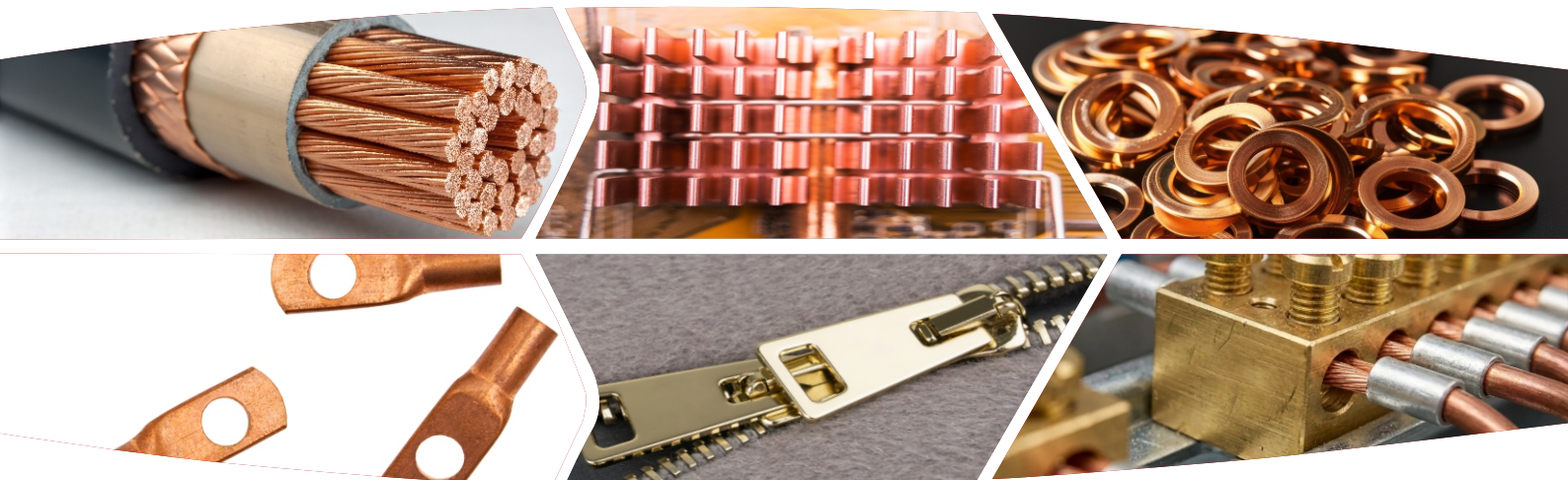
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APPLICATION OF PRODUCTS

Krishna Metal Works is a leading manufacturer of Copper and Copper Alloys for over Since 1935. Their expertise in the production of high-quality copper products has made them one of the most reputable companies in this field. We provide a comprehensive range of Copper & Brass Sheets, Strips, Foils & Circles in all sizes which are widely accepted by our users from all over the country. With our extensive experience and expertise in the field of manufacturing, we ensure that all our products meet the highest standards of quality and performance.

PRODUCTS	MAJOR APPLICATION
▶ ETP GRADE	Electrical Conductors, Contact Parts, XLPE Cables, Bus Bars, Earthing Strips & Transformers etc.
▶ DHP GRADE	Gaskets, Domestic Appliances, Air Conditioning System etc.
▶ TINE BEARING COPPER	Automobiles Radiators, Heat Exchangers etc.
▶ BRASS 95/5 - CuZn-05	Detonators and Explosive Manufacturers etc.
▶ BRASS 90/10 - CuZn-10	Electrical & electronic Components, Connectors & Contact Parts, Ordnance Factories, Switches etc.
▶ BRASS 85/15 - CuZn-15	Jewellery and Metal Goods, Components for Electrical Industry Cladding Panels, Condenser Tubes, Heat Exchanger, Eyelets, Fasteners.
▶ BRASS 70/30 - CuZn-30	Terminal, Wiring Harness, Connectors, Cartridge Caps, Radiator Tubes etc.
▶ BRASS 65/35 - CuZn-35	Electrical Components, Automotive Components, Watch Dials, Radiator Fins, Eyelets, etc.
▶ BRASS 63/37 - CuZn-37	Lamp Caps, Switches, MCB's Radiators Tubes, Electrical Contracts, Torch Bodies and Components, Zippers, Eyelets etc.
▶ BRASS 60/40 - CuZn-40	Automatic Locking Devices, Door Locks, Keys Sanitary Fittings,
▶ CuZn 37 (Less than 50ppm lead)	Hardicrafts, Button Industry, Food Trade Utensils, Jewellery & Metal Goods.





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LIST OF MACHINERY



Krishna Metal Works is fully equipped for the manufacturing of Copper & Copper Alloy Sheets, Strips, Foils & Circles with latest machinery such as:

- Continuous Strip Casting Plants.
- Hot Rolling Mill for sheets and strips.
- 4 HI and 20 HI cold rolling mills for sheets, strips and foils.
- Strip Milling Lines
- Pickling Lines
- Slitting Lines
- Cut to length equipment
- Electrically Operated Bright Annealing Furnace
- Complete in-house testing facility for physical and chemical properties of metal
- Optical Emission Spectrometer
- Automatic Packing Machines
- Circle Cutting Equipment



OUR KEY MACHINERY





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Quality &
Precision



KRISHNA METAL WORKS



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