



SUNSHINE EXTRUSIONS INDIA PVT LTD

Burning Passion to Excel



The discovery and processing of metals on planet earth is a great innovation for the modern life of the humanity. Copper next to steel is a unique metal with its versatile properties when mixed with other metals and further followed by proper processing to create the metal for diverse applications, are indeed a fascination to all of us.

Since 1993, Sunshine Extrusions has worked hard to develop copper alloys which are being used at various applications, particularly to meet the sophisticated customers requirements and the quality to international standards. Through this Sunshine Extrusions is servicing this field to the utmost satisfaction of the customers in terms of quality, pricing and delivery.

Our Vision

Sunshine Extrusions pledges to service the global market for various sophisticated copper alloys through welldefined technical processes and high standard of quality with competitive prices.

RODS



Sunshine Extrusions has in-house technology and the latest infrastructure to manufacture the exotic alloys of Copper Chrome Zirconium widely used in resistance welding applications such as automotive body-welding and other sheet metal applications. Backed by sound technical expertise and decades of experience, we are herewith offering our alloy capabilities and technical specifications.

ALLOYS OFFERED

- Copper Chrome Zirconium
- Copper Chromium
- Copper Zirconium
- Copper Chrome Nickel Silicon

AVAILABLE IN FORMS



SIZES

Form	Dimension	Range
Round / Hexagon	Diameter Length	6 to 80 mm diameter 500 to 3600 mm
Flat	Width Thickness Length	10 to 80 mm 6 to 50 mm 500 to 3600 mm
Square	Size Length	6 to 60 mm 500 to 3600 mm
Ring / Disc	Diameter Thickness	30 to 350 mm 8 to 100 mm

MATERIAL PROPERTIES

Alloy Grade	Nominal Composition	ASTM standard	RWMA standard	Density g/cm ³	Hardness			Electrical Conductivity % IACS	Elongation A5%	Tensile Strength MPa N/mm ²
					HB	HV	HRB			
CuCr1Zr	Cr: 0.9; Zr: 0.08; Cu: Balance	C18150	Class II	8.9	160	160	80	80	20	500
CuCr1Zr-H	Cr: 0.9; Zr: 0.18; Cu: Balance	C18150	Class II	8.9	145	145	75	80	15	420
CuCr	Cr: 0.9; Cu: Balance	C18200	Class II	8.9	150	150	76	82	20	450
CuZr	Zr: 0.15; Cu: Balance	C15000	Class I	8.9	120	120	68	85	18	360
CuCrNiSi	Cr: 0.1- 0.8; Ni: 1.8- 3.0 Si: 0.4- 0.8; Cu: Balance	C18000	Class III	8.9	180	180	90	45	9	630
CuZr	Cr: 0.5- 2.0; Ni: 9.5- 10.50 Si: 2.0- 3.0; Cu: Balance	C18000-H	Class III	8.9	280	280	105	20	3	1240

CAPS

With our integrated manufacturing of raw material and infrastructure for value addition like machining, cold forming, bending and stamping, we can effectively cater to the complete requirements of the resistance welding industry by offering high quality products at most competitive prices.

Electrodes from Sunshine can answer all your requirements from the smallest and specific electrodes to the bigger cold formed electrodes.

Sunshine is an integrated plant and manufactures its own alloys to produce electrodes. This assures continuous quality and traceability.

Cold forming the most ideal process for manufacturing electrodes

- extended life of electrodes
- better weld quality
- competitive prices

1. CAPS

- Male electrode caps
- Female electrode caps

2. ELECTRODES

- Straight shank electrodes
- Bent shank electrodes

SOME OF OUR REFERENCES



WHEELS, SHANKS, HOLDERS, ADAPTERS & SHORT CIRCUIT RINGS

Sunshine has in-house forging, special heat treatment and in-house machine shop in which it manufactures high quality resistance welding gun consumables like, shanks, holders, adapters and seam welding wheels.

Being an integrated manufacturing company with state-of-the-art machine shop, seam welding wheels, shanks, holders, adapters and short circuit rings are precision machined as per customers requirements.

Our seam welding wheels and short circuit rings come with high conductivity and hardness which guarantees excellent performance.

We can offer these machine spare parts in the unique Beryllium- Free copper alloy of CuCrNiSi which has the same mechanical properties and performance.

We are a completely integrated plant and with own raw material manufacturing and complete in-house infrastructure for machining these parts. We usually have raw material in stock and with our experienced technical team, we can offer very quick turnaround times, often in matter of 2- 3 days in case of emergencies.

We are equipped with precision tooling to manufacture special profiles for rotor bars which are widely used in high speed and traction motors.

1. SEAM WELDING WHEELS

2. SHANKS, HOLDERS & ADAPTERS

Extruded and machined shanks

- Shanks of various forms viz single bend, double bend
- Forged & Machined triple bend shanks

3. NUT WELDING ELECTRODES

4. PROJECTION WELDING ELECTRODES

- Ceramic Guide pins
- KCF Guide pins

5. ANVIL BARS

6. SHORT CIRCUIT RINGS AND ROTOR BARS



QUALITY - OUR TOPMOST PRIORITY

In conjunction with our vision, Quality has been of utmost priority which has led to incorporation to total customer satisfaction. Our quality processes are meticulously managed and programmed to achieve productivity and cost- effectiveness and hence ensuring superior quality products with quick turn-around times.

We are an ISO 9001: 2008 certified company which ensures complete control over process quality which helps us to better meet the comprehensive quality requirements of our customers.

These will strengthen the companys value proposition and provides a competitive edge to serve niche market segments for superior quality copper alloy products.

All the products will come with complete Mill Test Certificates for conformance to the required standards. In addition all machined products are checked for dimensional accuracy and a corresponding report is generated.



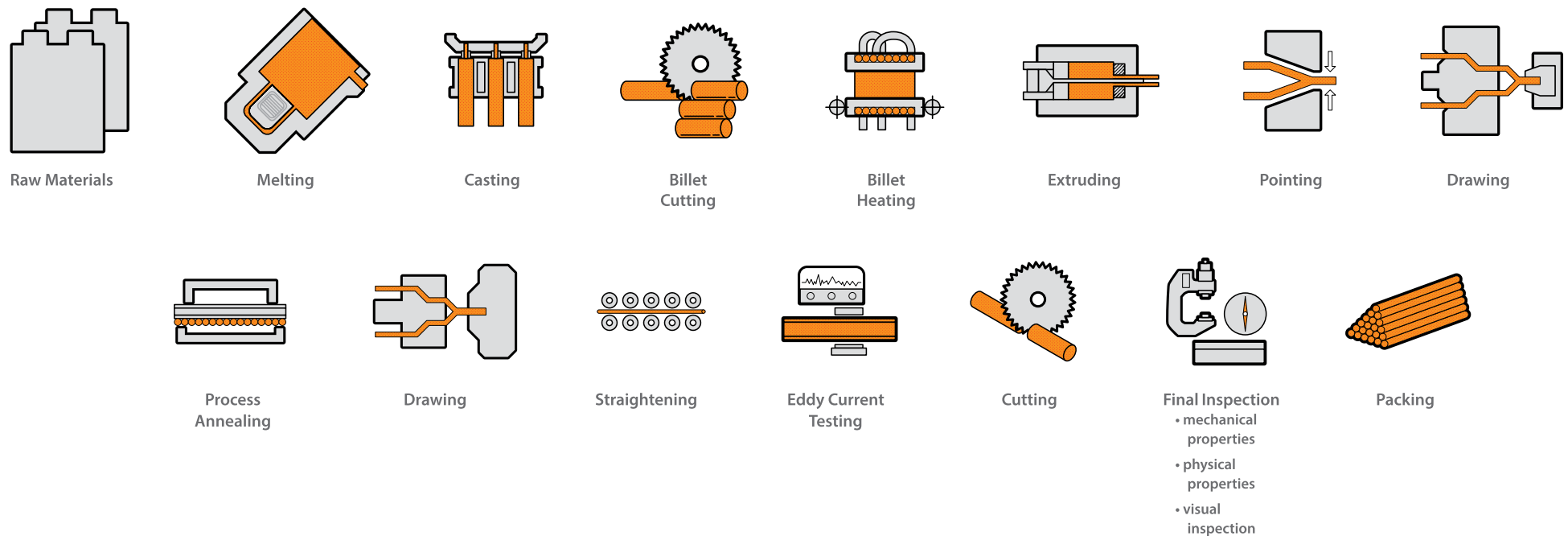
OUR PRODUCTION INFRASTRUCTURE

Sunshine strives to be equipped with the latest technology for manufacturing and quality assurance. With heavy duty metal furnaces of varying capacities and higher capacity extrusion press, we are capable of meeting a variety of customers requirements with high quality and quick delivery times. Quality is our topmost priority and hence we have invested substantially on quality assurance equipment which coupled with the ISO 9001 : 2008 quality system to ensure complete customer satisfaction.

Sunshine also has a completely equipped machine shop with CNC turning and Milling machines to add value to its raw material into precision machine products



OUR PROCESS FLOW



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