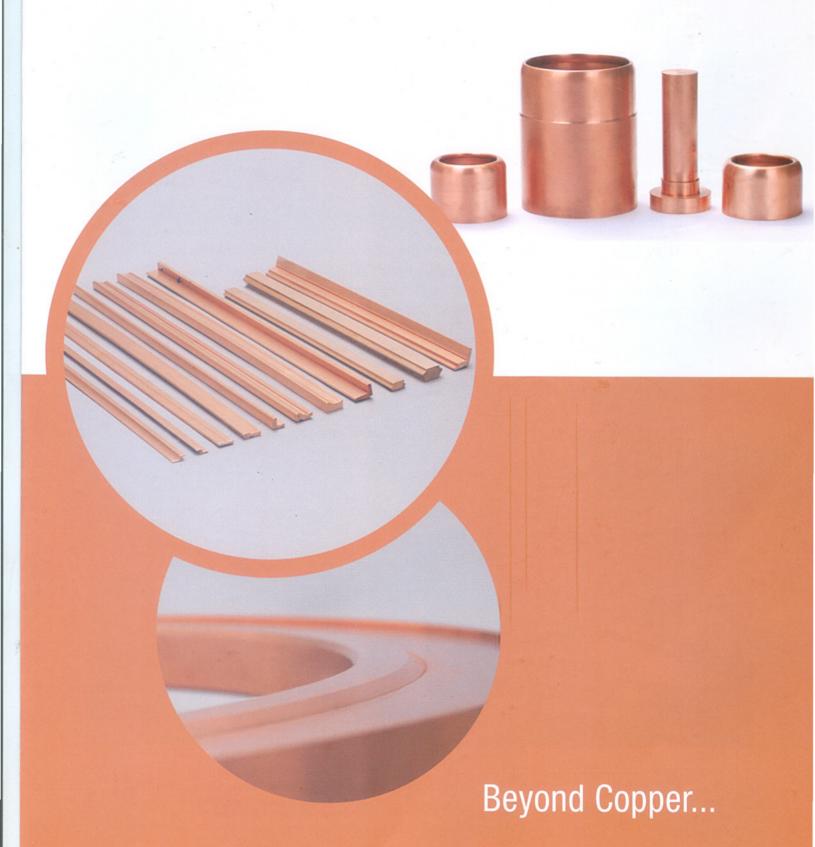
MODISON COPPER PVT. LTD.





- MCPL (Modison Copper Private Limited) is the group company of Modison Metals Limited, market leader in Electrical contacts for Switchgear. Our Multi product know how & over 20 years of experience in Copper not only ensures the best productivity & timely deliveries but also assures you of consistency & reliability of performance
- ISO 9001 Company. Fully Backward integrated manufacturing facility
- One Stop Solution for Copper & Copper Alloys
- Niche Player in high performance alloy space CuCr, CuCrZr, CuZr, CuNi2Si, CuNi, CuAg0.1%
- · "Best in class" facility for high vacuum alloys
- Our Product Spectrum covers wide range of Industries such as Automotive, Electrical, Engineering, Marine, Power, Defence & Railway





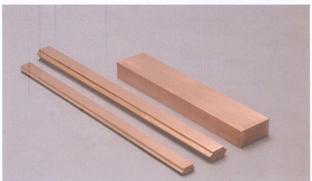
"We at MCPL are constantly endeavoured in supporting its customer not only for manufacturing of Standard Products but also in the conception & fabrication of precision parts"

HIGH GRADE COPPER ALLOYS



- 1. SHORT CIRCUIT RINGS
- 2. SPOT WELDING TIPS
- 3. SEAM WELDING WHEELS
- 4. ROTOR BARS
- 5. Ag. BEARING Cu FOR COMMUTATOR SEGMENTS IN VARIOUS SHAPES LIKE TAPERED, TRAPEZOIDAL AND FLAT
- 6. FLATS / RODS / PROFILES
- 7. FULLY FURNISHED COMPONENTS
- 8. STRIPS
- 9. MOTHER TUBES
- 10. SECTIONS

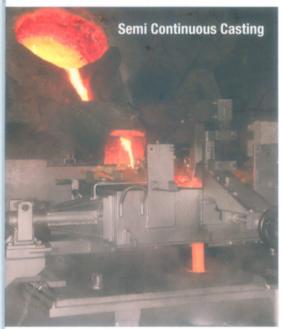


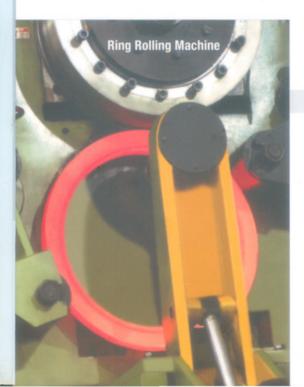


We offer a **one stop solution** for all your Copper & Copper Alloys requirements right from melting & extrusion to the final machining of the same.

Our Alloy's Basket Includes: CuCr, CuCrZr, CuZr, CuNi2Si, CuNi, CuAg0.1%







WHY RELY ON US

MANUFACTURING FACILITIES

- ➤ Coreless Induction Furnaces with 1500kg (2nos.), 500Kg, 300Kg. Capacities
- Vacuum Induction Furnace with 300 Kg Capacities
- Vertical Semi Continuous Casting line for Copper Billets
- > 500 Kg Clear Space Pneumatic Forge Hammer
- Ring Rolling Machine for manufacturing of Short Circuit Rings
- > Electrically heated Solutionising furnace and Heat treatment furnace
- > Extrusion Press, Capacity 1700 ton, Schloeman Make
- > Induction Billet Heater for heating of billets before extrusion
- CNC Turning centres for precision machining of components & Vertical Turret Lathes for Machining of Short Circuit Rings
- > Draw Benches, Peeling and Reeling Machines
- Copper Section Stretching and Straightening Machines
- Centrifugal Casting Machines
- > Automatic Cutting Machine for cutting of billets / rods / flats / profiles



Q. A. Facilities



TESTING & Q.A. FACILITIES

- Spectro Photometer for Chemical Analysis
- Leco for Oxygen Analysis upto 1-2000 ppm Model R0300
- Atomic Absorption Spectrometer for Impurities Analysis at PPM Level (upto 1 ppm)
- > XRF for Chemical Analysis
- Micro Hardness Tester for Hardness Measurement of Thin Strips
- > Conductivity Meter for Electrical Conductivity Measurement
- > UTM for Tensile, Proof Stress, Elongation Measurement
- Microscope for Studying the Microstructure
- > Inductive Coupled Plasma for Checking Impurities
- > Hardness Tester for Measurement of Vickers / Brinell / Rockwell

DESCRIPTION & APPLICATIONS OF COPPER ALLOYS

	Tough Pitch Copper	CuZr	CuCr	CuCrZr	CuNi2Si	Ag Bearing Cu	Oxygen Free Copper	Cu HCP
	C11000	C15000	C18200	C18150	CW111C	C11600	C10200/C10100	CW021A
Composition	Cu 99.9% Min., Oxygen <450 PPM	Zr:0.1-0.2% Others: 0.1% Max. Balance:Cu	Cr:0.6-1.2%, Others:0.7% Max. Balance:Cu	Cr:0.5-1.5%, Zr:0.03-0.30%, Others:0.3% Max. Balance:Cu	Ni:1.6-2.5%, Si:0.4-0.8%, Fe:0.2% Max., Mn:0.1% Max., Pb:0.02% Max., Others:<0.30% Balance:Cu	Ag:0.08-0.12% Remainder Cu Oxygen <300 PPM	C10200: Cu:99.95% Min. Oxy. <10 PPM C10100: Cu:99.99% Min. Oxy. <05 PPM	Phosphours 20-70 PPM Remainder Cu:99.95% I
Hardness HRB	60-120 HV	>48	>65	>65	72-100	60-105 HV	60-120 HV	50-120 HV
	220-390	>240	>360	>360	590-750	221-379	220-390	200-360
Electrical Conductivity % (IACS)	>97%	>90%	>78%	>78%	>26%	>97%	>97%	>97%
Elongation in %	>11%	>10%	>10%	>10%	>5%	>10%	>10%	>10%
	Christmas Ornaments	Pencil-type & Light Soldering Guns: Tips, Rod	Pencil-type & Light Soldering Guns: Tips, Rod Extensions	Pencil-type & Light Soldering Guns: Tips, Rod Extensions	Automotive Application: Valve guides / seats bushes,	Automotive Application: Radiators, Gaskets	Automotive Application: Automotive Rectifiers	Automotive Application: Radiators, Gaskets
Electrical Application	Switches, Terminals, Trolley Wire, Contacts, Radio Parts, Magnet Wire, Busbars, Terminal Connectors, Conductors, Electrical Stranded Conductors, Wire	Circuit Breaker Switches, Resistance Welding Electrodes, Switches, Commutators, Stud Bases for Power Transmitters & Rectifiers, Rotor for Traction Motor, Generator	Electrical Conductors Requiring Greater Strength than Copper, Electron Tube, Grid Side Rods, Wire, High Temperature, Contacts, Switch Gears, Electric Motor and Generator Components, Electrical Connectors, Connectors, Cable, Semi Conductor Bases, Parts for Electronic Devices, Switch Contacts, Arcing and Bridging Parts, Thermal Conductors Requiring Greater Strength than Copper, Circuit Breaker Parts	Resistance Welding Electrodes	Current-carrying electrical components such as slip rings, Squirrel cages, Springs, Rotary switch contacts, Contact blades, Short-circuit rings, heavy duty switchgear	Busbars, Contacts, Radio Parts, Switches, Terminals, Fuse Clips, Commutator Bars and Segments, Generator Coils, Windings, Conductivity Wire, Turbo & Hydro generator	Transistor Component Bases, High Resistance- Ratio Cryogenic Shunts, Bus Conductors, Wave Guides, Hollow Conductors, Anodes for Vacuum Tubes, Coaxial Tube, Klystrons, Microwave Tubes, Bus Bars, Lead-in Wire, Vacuum Seals, Conductors, Glass-to-Metal Seals	Wave Guide Tubing, Commutato Applications Requiring H Conductivity Tubular Bus Electrical Conductors, Clad Produc Busbars, Terminals, Thermostati Control Tubi Generators Motors
	Pressure Vessels, Chemical Process Equipment, Chlorine Cells, Chimney Cap Screens, Heat Exchangers, Printing Rolls, Anodes, Rotating Bands, Kettles, Pans, Vats, Road Bed Expansion Plates	Welding Wheels, Connectors, Solderless Wrapped, Resistance Welding Tips	Wear Plates on Heavy Equipment, Heat Sinks, Current Carrying Shafts and Arms, Plastic Mold Components, Structural Parts, Spot Welding Tips, Flash Welding Electrodes, Molds, Flash Welding Electrode Holder Jaws, Resistance Welding Machine Electrodes, Seam Welding Wheels	Welding Electrodes, Welding Wheels, Tips and Rod Extensions	Offshore & Marine: Borehole tools, shear pins, Hydraulic valve bodies, Pump components and ball valve, Mechanical seals, Components requiring high cryogenic properties, Spark resistance and low magetic permeability	Printed Circuit Foil, Clad Metals, Printing Rolls, Chemical Process Equipment	C1020 Application: Billet Mold Tube, Coaxial Tube, Extrusion Cans for powder Metallurgy, Vacuum Seals, Tubing, LP Gas Services, Tubing, Medical Gas-Oxygen	Application Requiring Good Brazin Applications Requiring Good Weldability, Pressure Vessels, Bill Mold Tube, Extrusion Ca for Powder Metallurgy
	Billets, Rods,	Billets, Rods, Bars, Profiles,	Billets, Rods, Bars, Profiles,	Billets, Rods, Bars, Profiles,	Billets, Rods,	Billets, Rods, Bars, Strips,	Billets, Rods, Bars, Strips,	Billets, Rod Bars, Strips

RODS
Diameter: Min.7.9 mm to Max.100.00 mm

Short Circuit Rings

Width: Min.19.00 mm to Max.125.00 mm
Thickness: Min. 4 mm to Max. 60 mm

As per customer requirement. Max. Circumscribing circle of Dia 150 mm

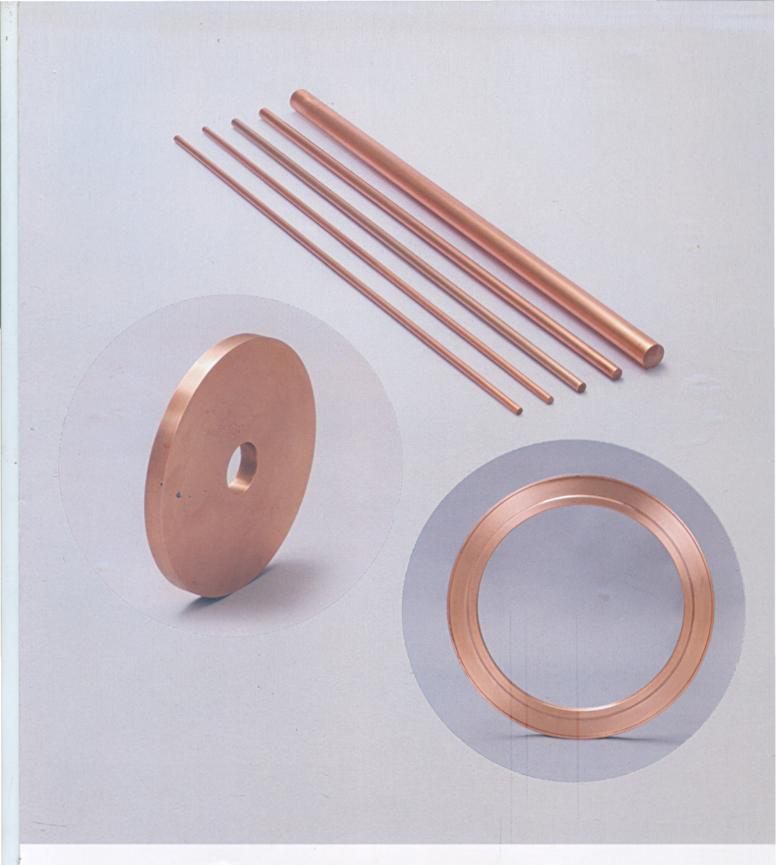
Circumscribing circle of Dia 150 mm

Diameter (Max.) 800 mm

Height / Thickness (Max.) 100 mm

Welding Wheels

Height / Thickness (Max.) 50 mm



MODISON COPPER PVT. LTD.

Corporate Office: 33 - Nariman Bhavan, 227 - Nariman Point, Mumbai - 400 021 INDIA Tel: +91-22-22026437 Fax: +91-22-22048009

Works: Plot No. 5 & 6, Government Indl. Estate, Piparia, Silvassa - 396 230 U.T. of D & N.H., INDIA Tel: +91 260-2640090 / 2640994

Email: sales@modison.com Web: www.modison.com