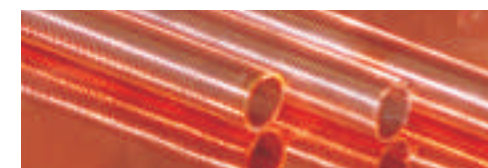


RACHNA METAL INDUSTRIES PVT. LTD.

Since 1978

AN ISO 9001 COMPANY



AN ISO 9001:2000 COMPANY

RACHNA METAL INDUSTRIES P. LTD.

Copper & Copper Base Alloys, Sheet, Strips, Busbar and Circles

Corp.Off: B-31, DSIDC, Patparganj Indl, Area, Delhi- 110092- INDIA
Ph.: +91-11-42911111 Fax.: +91-11-42911100

Sales Off: 699, Churi Walan, Chawri Bazar, Delhi-110006 INDIA
Ph.: +91-11-47211111 Fax.: +91-11-23284901

Works : 18/42, Site-IV, Industrial Area, Sahibabad,
Dist, Ghaziabad- 201010 (U.P) INDIA
Ph.: +91-120-4758400 Fax.: +91-120-4163614, +91-120-4758410

E-mail: copper@rachnametal.com, info@rachnametal.com
Website : www.rachnametal.com



PROFILE

Rachna Metal Industries Pvt. Ltd. (RMI) was established in 1978 backed by extensive experience in the field of metals. It holds strongly to excellent customer service, product-quality, commitment, compliance and competitive price structure.

We are leaders in our field and are involved in manufacturing an extensive range of high quality Semi-finished copper and copper alloy products (Rods, Tubes, Bus Bars, Strips, Plates, Wires, Pipes, Sheet and Circles) for a wide range of engineering industries. We have the capability and flexibility to meet unique product requirements and exact specifications and sizes.

We have sophisticated manufacturing facilities and a team of highly qualified, motivated and experienced staff in production and sales to meet the customers' ever growing quality and service expectation.

RMI is the approved vender of Power Grid Corporation of India Limited & BHEL Rudrapur for transmission line mass manufactured items which require Copper Flats, Copper Sheets, Copper Tubes and Copper Rods.



OUR FACILITIES

MELTING & CASTING

- ▶ Induction Furnace 450 KW/ 1 TON
- ▶ Gas Fired Furnace 750 KG

UPCASTER

- ▶ 12 Line Rod Upcaster Unit 260 KW

HOT MACHINE

- ▶ Hot Rolling Mill (56" Barrel Length)
- ▶ Hot Furnace

ANNEALING FURNACE

- ▶ Gas Fired Billets Pre Heating Furnace
- ▶ Gas Fired Roller Furnace
- ▶ Vacuum Bright Pot Annealing Furnace Electrical

COLD ROLLING MILL (SHEETS & CIRCLES)

- ▶ 3 High Mill -56"(Barrel Length)
- ▶ 4 High Mill- 32"(Barrel Length)
- ▶ 4 High Mill- 22"(Barrel Length)
- ▶ 2 High Mill- 32"(Pinch Pass)

COLD ROLLING MILL (STRIPS & BUSBARS)

- ▶ Strip Rolling Mill - 3

EXTRUSION

- ▶ Continuous Extrusion Plant For Twin Strips & Rod-(20mm² - 400mm²) i.e. max (40 x 10)
- ▶ Continuous Extrusion Plant For Strip & Rods-(100mm²-2400mm²) i.e. max (120 x 20)

DRAW

- ▶ Draw bench - 2
- ▶ Pointing Machine - 1
- ▶ Bull Block - 2

STRAIGHTENING MILL FOR (SHEETS)

- ▶ Straightening Mill 18"(0.3mm To 1.5mm Thickness)
- ▶ Straightening Mill 50"(1.6mm To 5.0mm Thickness)
- ▶ Straightening Mill 50"(6mm To 16mm Thickness)
- ▶ Power Press (16mm To 100mm Thickness)

STRAIGHTENING MILL FOR STRIPS

- ▶ Straightening Mill - 2

ALLIED EQUIPMENTS

- ▶ Shearing Machines - 5
- ▶ Circle Cutting - 2
- ▶ Bandsaw - 2

WORKSHOP

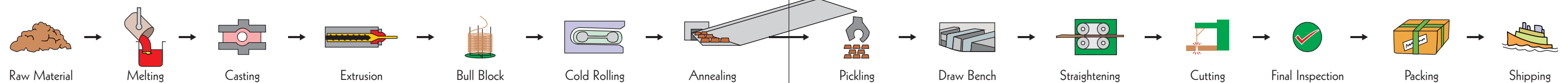
- ▶ Lathe, Milling, Drilling, Grinding, Welding

CAPTIVE POWER

- ▶ 800 KVA D.G SET
- ▶ 500 KVA D.G SET
- ▶ 125 KVA D.G SET

P R O C E S S

MANUFACTURING PROCESS FOR BUSBAR



SHEETS & CIRCLES

COPPER COLD ROLLED SHEETS

Standard Sizes	Thickness
1000mm x 2000mm	1.2mm to 16mm
1250mm x 1250mm	1.2mm to 16mm
1250mm x 2500mm	1.2mm to 10mm
14" x 48"	0.3mm to 25mm

Copper sheets also available in different sizes as per your requirement.

COPPER / BRASS HOT ROLLED PLATES

Sizes	Thickness
1080 mm x 1080mm	40mm
1000mm x 1000mm	30mm
900mm x 1000mm	40mm
750mm x 1000mm	50mm
600mm x 600mm	125mm
400mm x 1000mm	75mm
330mm x 1000mm	100mm

COPPER / BRASS CIRCLES / TRAY CIRCLES (Cold Rolled)

Diameter	Thickness
3" (76.2mm) to 8" (203.2mm)	0.3mm to 25mm
8" (203.2mm) to 1300mm	1.2mm to 25mm
1350mm to 2500mm (In 2 pcs)	1.2mm to 12mm

Hardness (Soft, 1/4Hard 1/2Hard) as per your requirement.

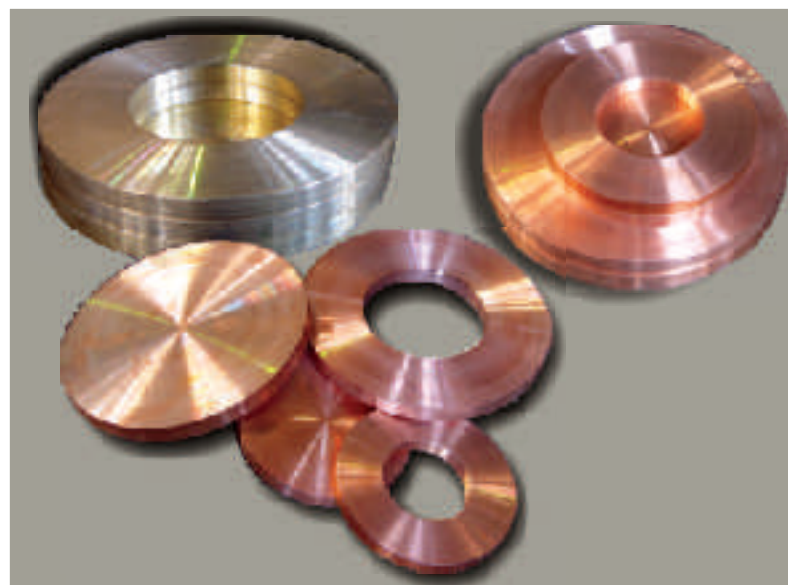
COPPER / BRASS CIRCLES (Hot Rolled) & MACHINING

Diameter	Thickness
Q 1000mm	25mm
Q 750mm	45mm
Q 450mm	70mm
Q 325mm	100mm

Copper / Brass flange
Max OD (150mm to 1000mm)
ID Circle (50mm to 900mm)

GRADES

Oxygen Free High Conductivity Copper (OFHC)
Electrolytic Tough Pitch (ETP)
Phosphorus Deoxidized Copper (DHP)
Deoxidized Low Phosphorus (DLP)



BUS BAR/STRIPS, FLATS & WIRES

COPPER FLATS & STRIPS

- ▶ Width - 6mm To 225mm
- ▶ Thickness - 0.5mm To 50mm
- ▶ Available In Straight Lengths / Coils

COPPER FLATS

- ▶ Width - 200mm To 500mm
- ▶ Thickness - 3mm To 30mm
- ▶ Available In Hacksaw Cut & Shearing Cut



TIN PLATED BUS BARS

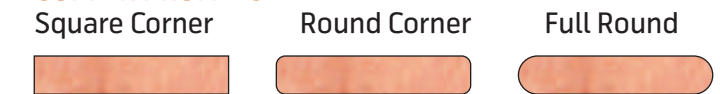
Specification:
Tin-plated copper bus bars are manufactured as per International Standards such as JIS, DIN, BS and ASTM.

Process: In-house tin-plating controlled by computerized system

The Purity of Coating Material: Tin anode, 99.5% up to 3, 5 or 10 microns and as per customer's requirement upto 50 microns

Coating Thickness: - Adhesion Test
- Tin Thickness Test

COPPER PROFILES



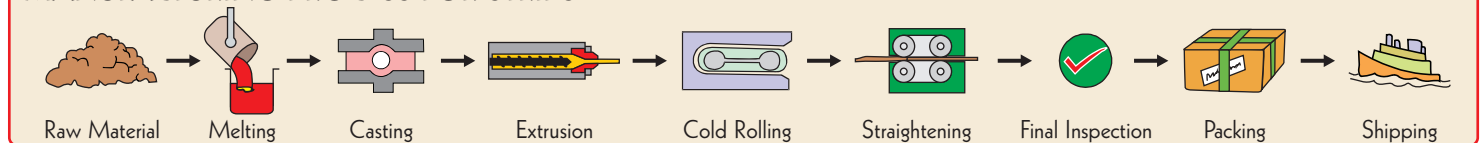
Available In All Shapes & Sizes As Per Customers Requirement

GRADES

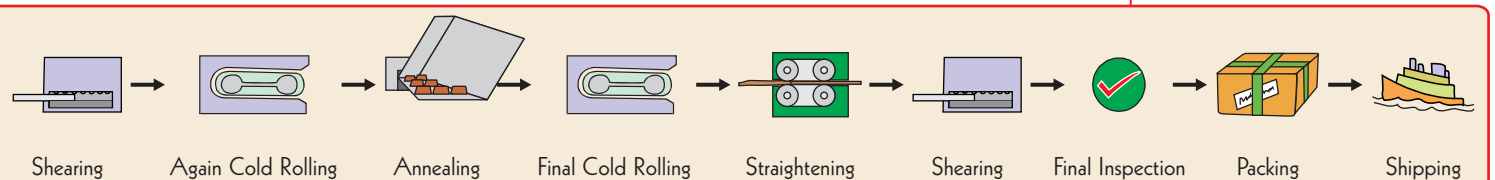
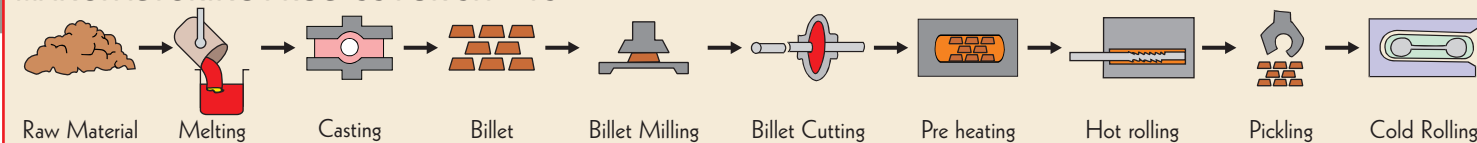
- ▶ Oxygen Free High Conductivity Copper (OFHC)
- ▶ Electrolytic Tough Pitch Copper (ETP)
- ▶ And Various Other Grades

P R O C E S S

MANUFACTURING PROCESS FOR STRIPS



MANUFACTURING PROCESS FOR SHEETS



PACKING & SHIPMENT

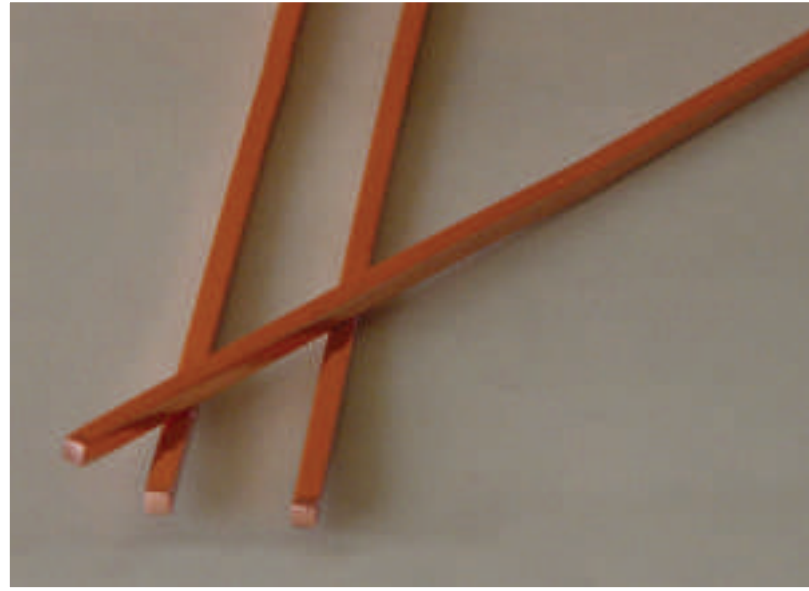
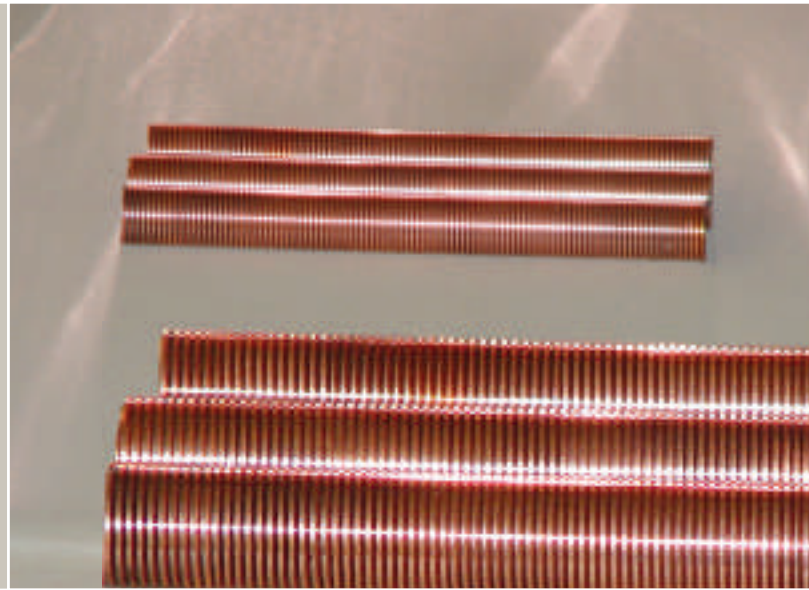
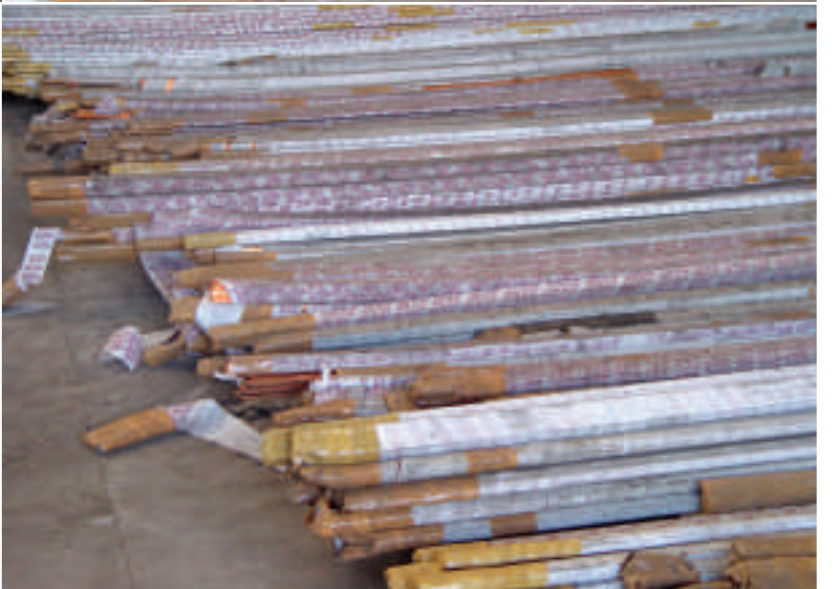
PACKING

Sea Worthy Corrosion Protection For Shipments

- ▶ Wooden boxes with steel strapping
- ▶ Corrugated cardboard boxes with corner padding
- ▶ Wooden/steel traverse wound spools
- ▶ Coils wrapped in vci paper and palletized

SHIPPING

- ▶ Factory stuffed and sealed in 20' containers as per customers choice



TUBES, PIPES & RODS

BRASS TUBE (Round)

- ▶ Outer Diameter (3mm To 100mm)
- ▶ Wall Thickness (0.2mm To 12mm depending on outer diameter of tubes)
- ▶ Available in straight lengths

COPPER TUBES (Round)

- ▶ Outer Diameter (3mm to 150mm)
- ▶ Wall Thickness (0.2mm to 16mm depending on outer diameter of tubes)

We also manufacture Fin Tubes

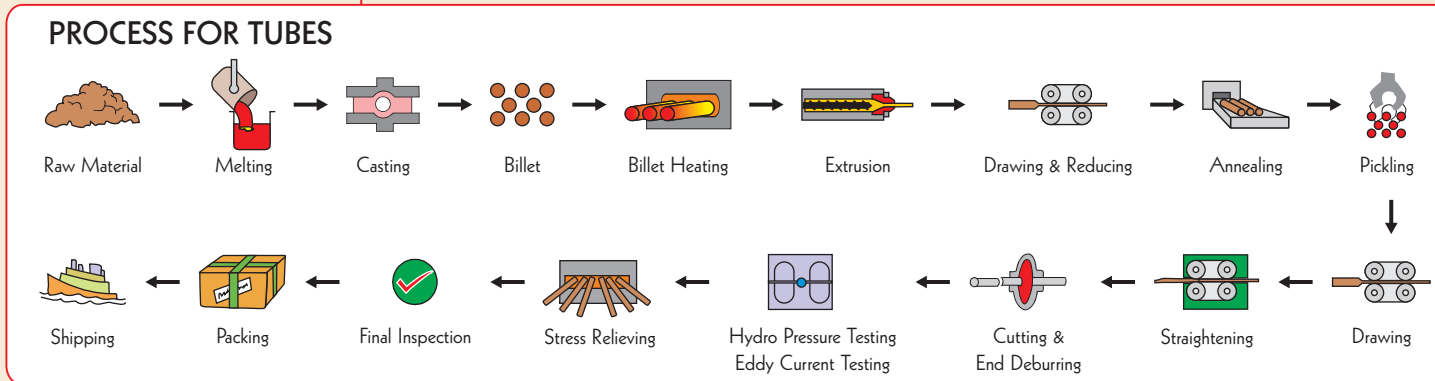
COPPER RODS (Round/Square/Hexa)

- ▶ Outer Diameter/Across flat (5mm To 100mm)
- ▶ Available In Straight Lengths/Coils

GRADES

- ▶ Oxygen Free High Conductivity Copper (OFHC)
- ▶ Electrolytic Tough Pitch Copper (ETP)
- ▶ Phosphorus Deoxidized Copper (DHP)
- ▶ Deoxidized Low Phosphorous (DLP)

P R O C E S S



APPLICATIONS

SHEETS & CIRCLES

- ❑ Heat Exchanger & Condensers
- ❑ Home Appliances
- ❑ Distillery Plant
- ❑ Sugar Industries
- ❑ Agriculture Plants
- ❑ Electrical Industry

FLATS STRIPS AND WIRES

- ❑ Automobiles and Railways
- ❑ Wide Range of Uses in Electrical Industry, e.g. Switchgear, Connectors
- ❑ Transformers and Circuit Breaker Terminals
- ❑ Electrical Holders and Clamps
- ❑ Defence Industry

TUBES

- ❑ Refrigeration & Airconditioning
- ❑ Petroleum & Chemical Industries
- ❑ Furniture & Decorative Industries
- ❑ Agriculture Industries
- ❑ Home Appliances

OUR TESTING FACILITIES

CHEMICAL ANALYSIS

- ❑ Spectrometer with oxygen Analyzer
- ❑ Electro Analyser

NON-DESTRUCTIVE TESTING

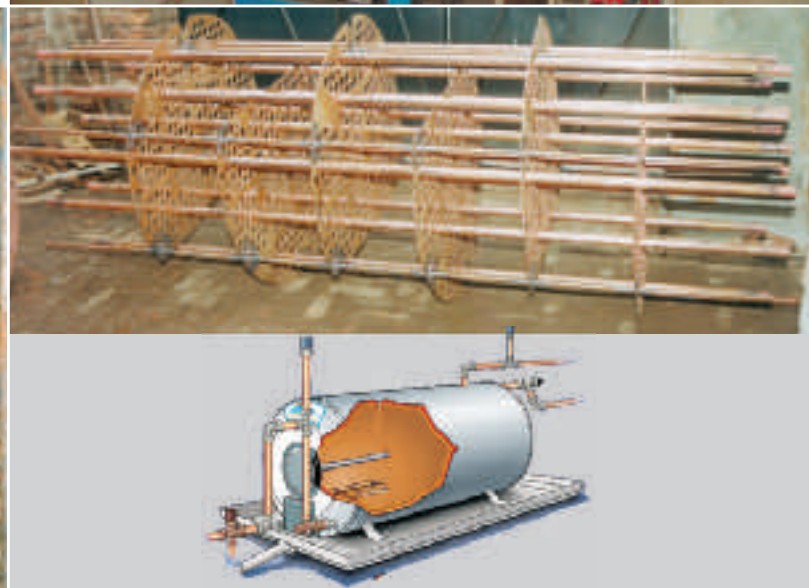
- ❑ Eddy Current Machine
- ❑ Hydraulic Test
- ❑ Pneumatic Test

PHYSICAL TESTING

- ❑ Universal Testing Machine
- ❑ Tensile Testing Machine
- ❑ Rockwell & Brinell Hardness Tester
- ❑ Vickers Hardness Tester
- ❑ Conductivity Meter

METALLURGICAL TESTING

- ❑ Metallographic Test (Polarized Light Attachment)



QUALITY

Quality assurance:

Quality Assurance is an integral part of RMI. We ensure that we are able to deliver high quality products time and time again. All our valued customers including public sector giants like Bharat Heavy Electricals Limited and Power Grid Corporation of Limited have awarded us consistently ensuring the high quality of our products.



All our products pass through stringent quality testing procedures and inspections. We have an efficient quality control system in place. Quality control begins by checking raw materials for compliance with specifications. All products are inspected at all stages of manufacturing for defect free surface quality and dimensional tolerances. Our plant has maintained ISO9001:2000, a certification of quality management systems maintained by the International Organization of Standardization and administered by certification and accreditation bodies.

Our endeavor is to create a culture of total quality where continuous improvement of our processes and our products become a way of life, enabling us to reduce the environmental impact of our production processes and promote initiatives in environmental protection and social responsibility, in the interests of future generations. We adjust and adapt to the changing need of our customers and remain dedicated to serve them to the best of our ability.

