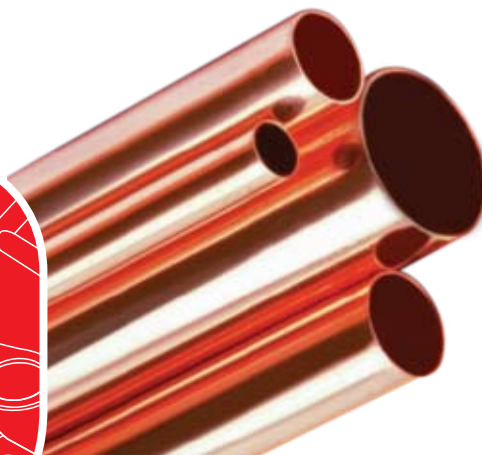




The Crimping people... since 1960

**SUPERIOR MATERIAL
ADVANCED TECHNOLOGY
COMPREHENSIVE RANGE**

Copper tubes, strips and rods.



billets ELEKTRO

Billets Elektro Werke Ltd. Started its journey of engineering excellence and innovation from a small shop manufacturing cycle rickshaws in Nagpur. Mr.Govindbhai Patel, the founder and his son Mr.Ashok Patel then diversified the company into manufacturing of switchgear products, delta starters for the electrical industry. Which then led them to use their academic engineering background to pioneer the use of cold crimping technology for cable terminations. They manufactured cable lugs and crimping tools under the brand name Dowells which over time has become a name synonymous with cable lugs.

Not content with dominating the domestic market, over the years we have started exporting to countries and regions such as Germany, Spain, Australia, New Zealand, UK, S.Africa, Middle-East, Malaysia, Hong Kong and Vietnam.

Our expertise in design, manufacture and quality control has been acknowledged by clients in these countries and their decade long business ties with us proves the confidence they have in BEWL.

Now as our company grows and diversifies in the electrical components market we have plans to cater to the high volume copper semis market, and it is with this plan to diversify that we bring to you our newest range of copper tubes, rods, sections and strips.

Our founder Mr.G.S.Patel always believed in the motto "Manufacture in-house, Serve Better", and with his words in mind we have set up a comprehensive manufacturing facility along with state of the art machineries under one roof at Umbergaon, Gujarat. This facility has a floor space of 80,000sq. ft. and is sprawled across an area of 7acres. The unit is an EOU and the only plant of its kind in India offering wide range of products for cable termination with international standards like ISO 9001:2008. It is professionally managed by Mr. Ashok G. Patel, Managing Director and Mr. Chirag A. Patel, Executive Director.

Besides having a plethora of power presses, CNC machines, plating equipment, etc. to manufacture cable lugs and crimping tools, we are also well equipped with latest machinery for copper semis like :



COPPER UPCASTING FURNACE

The furnace has an annual capacity of 2500mt and has 4 casters for the production of copper rods and tubes.



TUBE DRAW BENCHES

3 ton, 8 ton, 16 ton



ROLLING MILLS

We have 4 cold rolling mills with 10"Ø rolls



TUBE SPINNER BLOCK

To draw coils of tubes upto 46mm Ø.



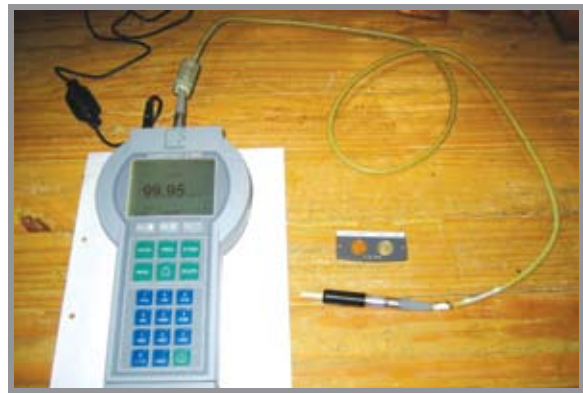
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CMM (COORDINATE MEASURING MACHINE)

To check dimension & surface shapes of different work pieces which are constructed with complicated forming such as screw thread, cutting tools, cam, gear etc.



CONDUCTIVITY TESTER MACHINE

To measure conductivity of material such as copper, aluminium brass etc.



TOOLMAKER'S MICROSCOPE

To measure length in cartesian & polar coordinates angle measurements of tools, threading tools, punches, gauges, templates etc.



VICKERS HARDNESS TESTER MACHINE

To measure hardness of metals.



PLATING THICKNESS MEASURING MACHINE

To measure plating thickness.



UNIVERSAL TENSILE MACHINE

To measure tensile strength of the material.

ADVANTAGES OF UPWARD CAST PROCESS OVER CONTINUOUS CAST RODS (CCR) :

Sr. No.	Upward Casting	CCR
1.	<5 ppm Oxygen	150 to 300 ppm
2.	Can draw upto 0.1 mm wire without annealing	Intermediate annealing is required
3.	Have low oxide layer at surface	Higher oxide layer, Wax coating
4.	Preferred for CONFORM process	Wax coating gives problem
5.	Low cost of production	Comparative high cost of production
6.	Low capital involved	High capital involved
7.	High ductility	Comparatively low ductility
8.	Higher range of applications like busbars, wires, tubes and Rods	Limited range specifically for copper wires

COPPER STRIPS/BUS BARS



We offer high quality copper strips and bus bars. Copper Strips and plates are used in distinct industries because of their various unique characteristics, including electrical and thermal conductivity. They also have superior mechanical properties, malleability and formability. These copper strips and plates can be easily fabricated, welded or soldered. Our range of copper strip can be produced in different width and thickness as per the demand of the customers. Continuous strip-casting machines are used to produce long, weld-free coils of uniform composition and properties. On the other hand, our automatic electronic gauge-controls help maintain consistent thickness.

SIZE RANGE - BUSBARS	STRIP EDGE PROFILE		
	Square Corners	Rounded Corners	Full Rounded Corners
Width: 25mm-225mm Thickness: 2mm-50mm			

SIZE RANGE - COPPER STRIP

Width : 5mm to 100mm.
Thickness : 0.5mm to 10mm.

GRADES

1. Oxygen free high conductivity copper.
2. Supplied in hard / halfhard / quarter hard / annealed conditions.

COPPER RODS



Copper rods are finished by cold drawing after casting. They are available in a comprehensive range of sizes with superb dimensional accuracy & finish.

Our copper rods are used for connectors, electrical motor components, electroplating, switchgear, ship building and power generating equipment.

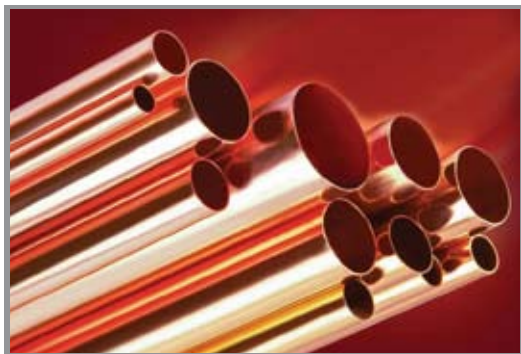
COPPER RODS (ROUNDS)

Outer Ø from 8mm to 25mm.
Available in straight lengths/coils

GRADES

1. Oxygen free high Conductivity Copper

COPPER TUBES & PIPES.



We produce a wide range of seamless tubes in various shapes such as round, rectangular, square, hexagonal etc.

They are supplied in straight lengths. These tubes are used in general engineering, terminal-lug manufacturing and other electrical applications

COPPER TUBE (ROUNDS)	COPPER TUBE (RECTANGULAR PROFILE)
Outer Ø 3mm to 52mm. Wall thickness 0.8 to 7mm depending on outer Ø of tubes.	Outer size 6mm to 50mm. W Wall thick thickness 1mm to 7mm.

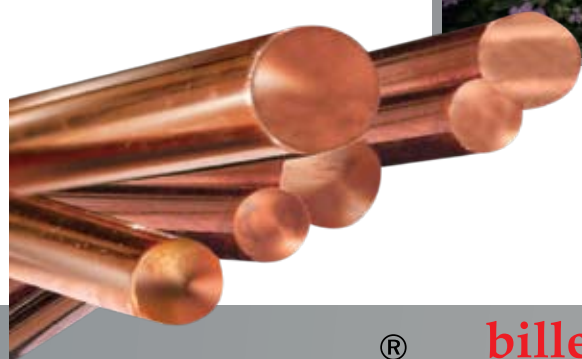
GRADES

Oxygen free high conductivity copper.

TAILOR-MADE COPPER PROFILES AND SECTIONS



Copper Profiles are developed as per customer requirements and the design and development lead time is greatly minimized by having in-house toolroom and CNC machines like EDMs, Milling and Lathes. We have developed profiles for copper rods used in the stator winding assembly of submersible pumps. We also manufacture C-connectors in various shapes and sizes for the earthing requirements of utility companies.



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