

Vertically Cast Rod to Bus Bar in One Operation

Copper bus bar is a commodity product in big demand in the electricity industry. The “conventional” manufacturing process involves melting, bar casting, rolling, possible inter-stage anneal, and drawing.

The BWE Conform route requires, melting (grade A cathode plus clean recycled copper), continuous casting of rod, continuous Conform extrusion of the finished product.

The Conform process is shorter and therefore quicker and cheaper.

The product manufactured by the Conform process has high conductivity, good surface finish, accurate dimensions, accurate corner profiles, and is fully soft. (The product is easily drawn if half or quarter hard is specified).

Feedstock to the Conform machine is copper rod, usually 20 mm diameter, produced as OFHC by vertical casting or ETP produced by continuous casting and rolling.

The **Conform 550i** machine will produce copper bus bar up to 2,400 mm², maximum width 130 mm at output rates of up to 3000 kg per hour. This means that by working for 3 shifts a plant can produce 12,000 tonnes of bus bar per year. The product can be cut to length or coiled. Other product shapes such as commutator sections, shaped conductors etc can also be produced.

BWE can supply everything from a basic Conform machine with no ancillaries, to a complete turnkey plant, with copper caster, Conform line and drawing line and packaging line.



Bus Bar produced on BWE Conform showing good bending and punching properties



Shaped Electrical Conductor

Features

- **Vertically Cast Copper Feedstock to Bus Bar in One Operation.**
- **Product in Soft, Clean Condition.**
- **Fine Grain Structure.**
- **Excellent Corner Geometry.**
- **High Annual Output – 12,000 Tonnes.**
- **Continuous Operation for High Efficiency.**
- **Low Capital Cost.**
- **Low Running Cost.**

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Cold Welding · Continuous Extrusion · Continuous Cladding · Continuous Sheathing



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