

Explosive cladding

In explosive cladding, metal combinations are used that cannot be thermally welded. For bus bars a 3mm Titanium sheet is cladded on a copper plate, and thereafter completed with a Titanium lining. This technology is used when larger cross sections are required due to high current densities.

In addition to this combination of copper - titanium, other metal combinations are also possible. Examples include steel or stainless steel, combined with metals such as aluminum, titanium or zirconium. Explosive cladding applications are therefore much more varied, for example as tube sheets for ME-Alteco heat exchangers.

Applications of ME-CuTi products:

- Current bus bars for the electroplating industry
- Current bus bars for electro galvanizing and tinning lines
- Current bus bars for electrolysis processes
- DSA anodes for chlorine electrolysis
- ME-CuTi wires for cathodic protection

Technical support for the optimization of your process

ME-Metals & Technologies provides technical support with the design and construction of bus bars and current carriers.

We guarantee:

- High degree of flexibility in the design
- Good current-carrying capacity
- Significant cost savings
- Short delivery times



Bending / Profile bending / Rolling



Water cutting / Laser cutting



Welding / Spot welding / Stud welding



Turning / Milling / Processing

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ME-CuTi



ME-Metals & Technologies designs and supplies:

- ME-CuTi current bus bars for the electrochemical industry
- ME-CuTi wire for cathodic protection
- Special: ME-CuTi hockey sticks for galvanizing lines (EGL)

ME-CuTi



ME-CuTi current bus bars

ME-Metals & Technologies delivers ME-CuTi copper-titanium current bus bars in many dimensions and designs. The copper-titanium is extruded, ensuring the best bond. The result is an optimal current-carrying capacity. Compared with conventional loose linings, our bus bars offer significant advantages.

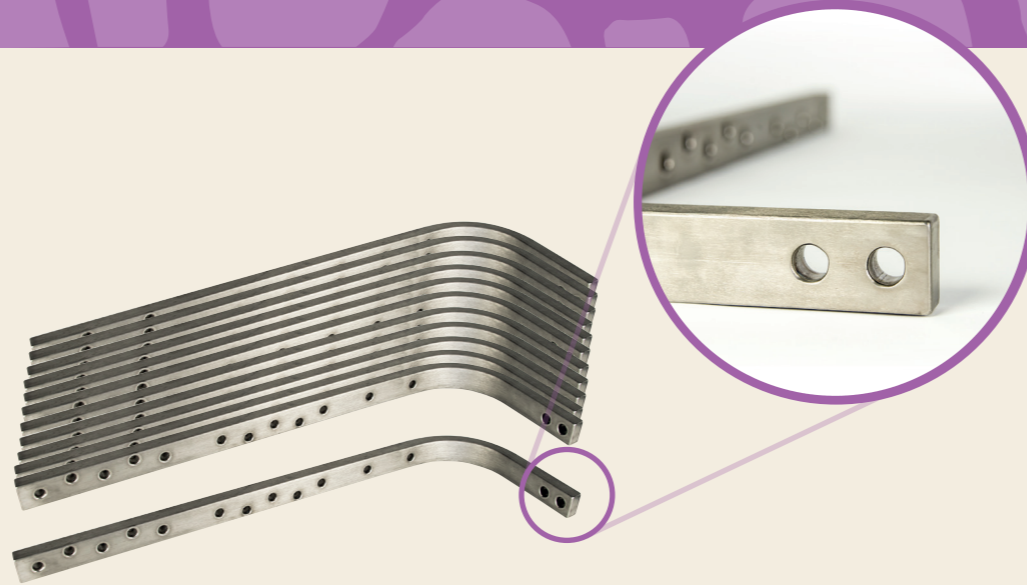
The important advantages are:

- High degree of heat transfer
- Excellent electrical conductivity
- High flexibility in design

A further improvement is achieved by the use of so-called submerged bus bars, whereby the bus bar is submerged. This design improves the current transition, contact resistance and heat development. When anode baskets are used, filling the baskets is easier.

ME-CuTi current bus bars can be equipped with installation holes (for the installation of the anode plates) and/or end caps.

ME-CuTi profiles are available in different dimensions and designs.



ME-CuTi hockeysticks

ME-CuTi current carriers are produced in accordance with a special design and are known as hockey sticks in the world of electrolytic galvanization.

ME-Metals & Technologies sells 2 types of bus bars, with diameters of 63 x 25 mm and 43 x 23 mm.

ME-CuTi wire anodes

ME-CuTi wire anodes are used as anodes for cathodic protection (CP). CP is based on the principle of reducing the voltage of the project to be protected. A proper distribution of the current is an important factor in this respect. The titanium clad copper wire ensures a low electrical resistance, enabling long wires to be applied that have a length of up to 35 meters with the use of a 3-mm CuTi wire.

Standard ME-CuTi wires are available in 2 diameters: 1.5 mm and 3.0 mm. Other diameters can be supplied on request.

Solid titanium or niobium wires, without a copper core, can also be supplied on request. All wires are platinized or provided with an MMO coating.

The most important advantages of ME-CuTi wire anodes are:

- Durable
- Good current distribution
- Lightweight
- Low electrical resistance

