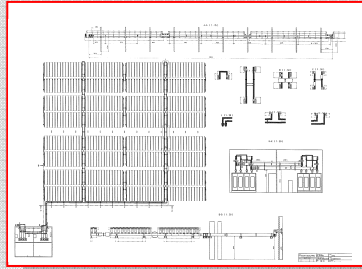




Busbar Systems of **Vision Electric** for the Copper Industry



The Company

“Creating individual solutions for our customers and developing tailor-made systems for electrical power supply “- this is the mission and vision of **Vision Electric** GmbH.

By constantly following this principle, Vision Electric has become one of the world's leading busbar manufacturers, based in Europe. Acting as a global company, **Vision Electric** is always there where you need us: at your side. Modern production facilities, high-quality standards and the experience of our engineers and technical staff form the basis for a reliable and safe energy supply by **Vision Electric** busbar systems.

Vision Electric offers:

- *Individual Solutions*
- *Excellent service*
- *Cost-effective pricing*

For the product name “*IndustryBar*”, there are many different applications existent, usually in DC, for high-power busbars in ranges of 10 to 300 kA. All applications are individual and are developed in accordance with special project conditions. During the phase of detailed planning, specialized expertise and experience is available, optimally combining industrial technologies with a variety of production methods and proper materials.

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Vision Electric produces “*IndustryBar*” according to customer drawings and specifications or handles the complete project management, containing:

- Design and drawings
- Production and shipping
- Installation
- Installation supervision and commissioning

Long-term expertise in design, production and installation are necessary to work out optimally adopted, individual solutions. **Vision Electric** employs experienced professionals to master the continuously changing projects and client requirements. Additionally, we cooperate with a whole network of companies and institutes.

Engineering / Project Management

Vision Electric is able to provide a wide range of engineering services :

- Preparation of tender specifications
- Temperature calculations
- Short-circuit calculations
- Definition of materials
- Power losses
- Layout of busbar systems
- Magnetic field calculations
- Magnetic field compensations
- Case studies / consulting
- Project management
- Installations / installation supervisions

Material of Conductors

Busbars are produced from high-conductivity copper (min. 57 m/Ohms*mm²). Optionally, aluminium conductors can be provided. Special precautions are obtained regarding the specific ambient requirements of copper-electrolyses.



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Accessories

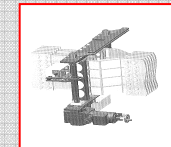
Supports

Busbar supports will be designed in accordance to the requirements of the project. The supports are available in coated mild steel or stainless steel. Insulators are made of epoxy casted resin or high-duty glass fibre reinforced plastic.



Switches

Concerning its scope of supply, **Vision Electric** is able to incorporate short-circuit switches and load-breakers of well-known suppliers.



Top Insulators / Bottom Insulators

To complete the supply of the copper contact bars for copper electrolyses, **Vision Electric** has established cooperations with famous suppliers of these items. Top insulators are made of high-grade temperature resistant polymers and can be provided with fixed and replaceable taps. Bottom insulators will be made from high-quality EPDM with excellent mechanical and electrical data.



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