

EMS Elektro Metall Schwanenmühle GmbH in Germany is one of the leading companies in Europe for high current connections for the heavy industry. Vision Electric GmbH is an innovative busbar production company designing busbar systems up to 300 kA.

EMS Elektro Metall Schwanenmühle GmbH

Flexibles made of laminates or braids are perfect solutions for high current connections. In general the material is aluminium or copper, but combinations hereof or alloys are also available. EMS is one of the world largest manufacturers of flexibles, specialized in tailor made connections. Limits only come from physics - our strength is creativity and experience combined with good skills in electrical engineering in close cooperation with the customer.

EMS is also specialized in the combination of different materials giving technical advanced connections.

Copper and aluminium is combined together by

- MIG or TIG welding
- presswelding
- explosion bonding
- electrone beam welding
- aluminiumthermal welding
- brazing

in high current connections for the industrial applications

Vision Electric GmbH

Vision Electric designs and produces busbars for all type of connections, but specialized in industrial applications where the currents are high. The products are divided into two groups: standard busbar systems and project specific designed high current busbars.

Busbars are

Both, standard and project specific busbar systems, are

- either turnkey projects consisting of design, engineering, manufacture, installation and commissioning also assuring performance values or
- produced and delivered according to customer drawings and specifications



Standard busbar systems

The type tested standard busbar systems Vision Bar, VisionLinq and VisionRail with a normal range of 32 A to 9000 A are typetested. The busbar elements can be combined with flexible connections to assure a simple and cost effective installation. Conductor material is copper or aluminium and the enclosure is made of noncorrosive aluminium which can also be used as PE.



High current busbars

There are many different applications, 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. Special expertise and experience is available during the detail-engineering phase optimally combining industrial technologies with a variety of production methods and the proper materials.



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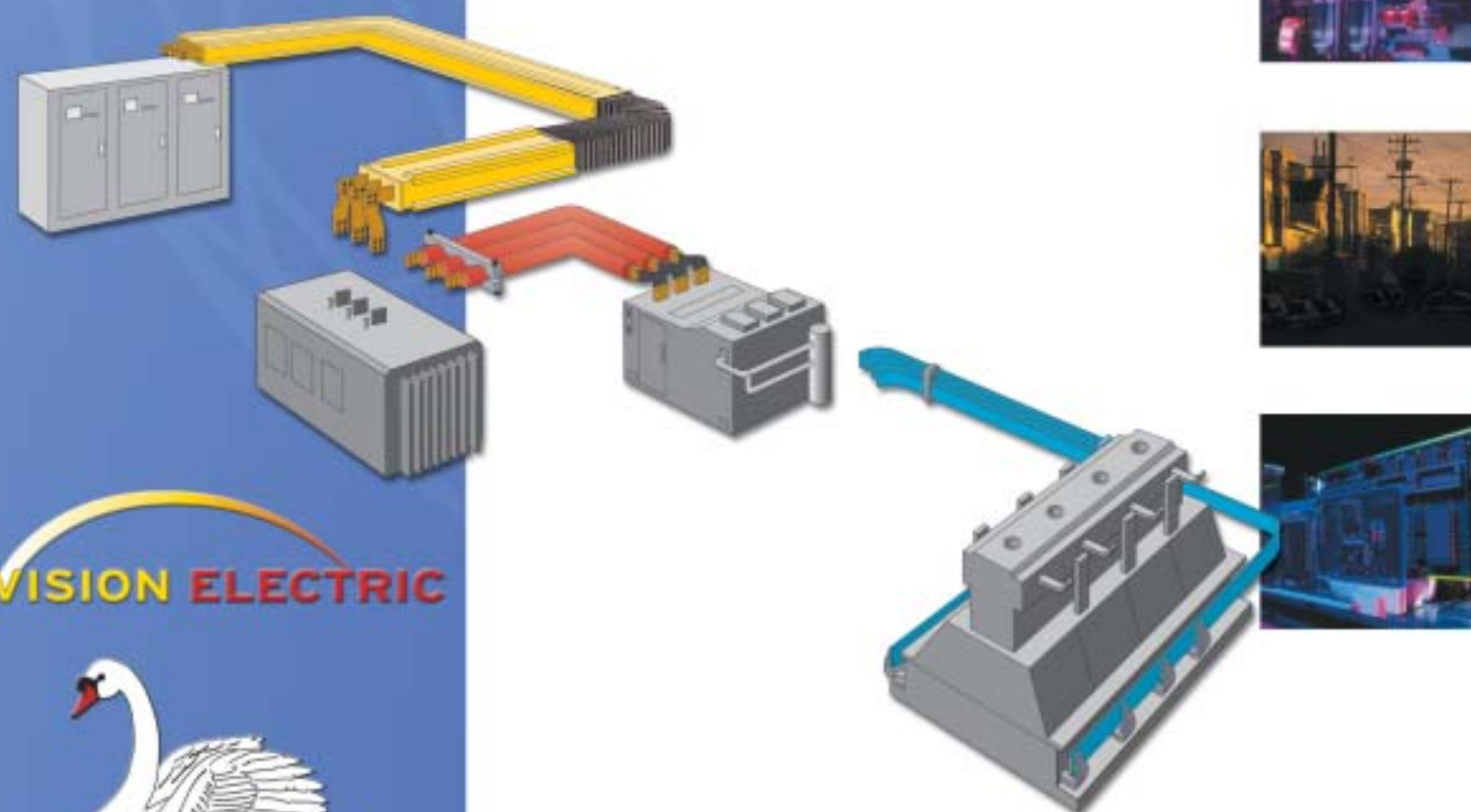
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POWER CONNECTIONS

for industrial applications



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VISION ELECTRIC



POWER CONNECTIONS

for industrial applications

EMS and Vision Electric can always offer the optimized solution to your high current connection needs.

POWER PLANT AND ENERGY RESOURCES

- electricity
- gas and biogas
- offshore
- utilities
- alternative energies
- waste combustion plants
- cogeneration

TRANSPORT INDUSTRY

- locomotive industry and railways
- ship building
- aircraft industry
- automotive industry

CHEMICAL INDUSTRIES

- electrolysis
- electroplating

RESEARCH AND DEVELOPMENT

- Laboratories
- ESA
- Universities
- CERN
- JET
- DESY

ELECTRICAL INDUSTRY

- transformers, generators and motors
- engineering companies
- computer industry
- switchgear manufacturers
- electrical equipment producers
- telecom

CONSTRUCTION INDUSTRY

- office buildings
- industry plants
- hospitals
- airports
- datacenters
- exhibitions
- hotels
- tunnels
- shopping centers

BASIC INDUSTRY

- glass
- zinc
- nickel
- sodium
- steel
- aluminium
- graphite
- copper
- cement
- pulp and paper

MACHINERY MANUFACTURING INDUSTRY

- welding machines
- electrochemical erosion
- printing industry
- coating lines

INSTALLERS

- installation companies
- contractors

