



**VISION ELECTRIC**



**EMS**

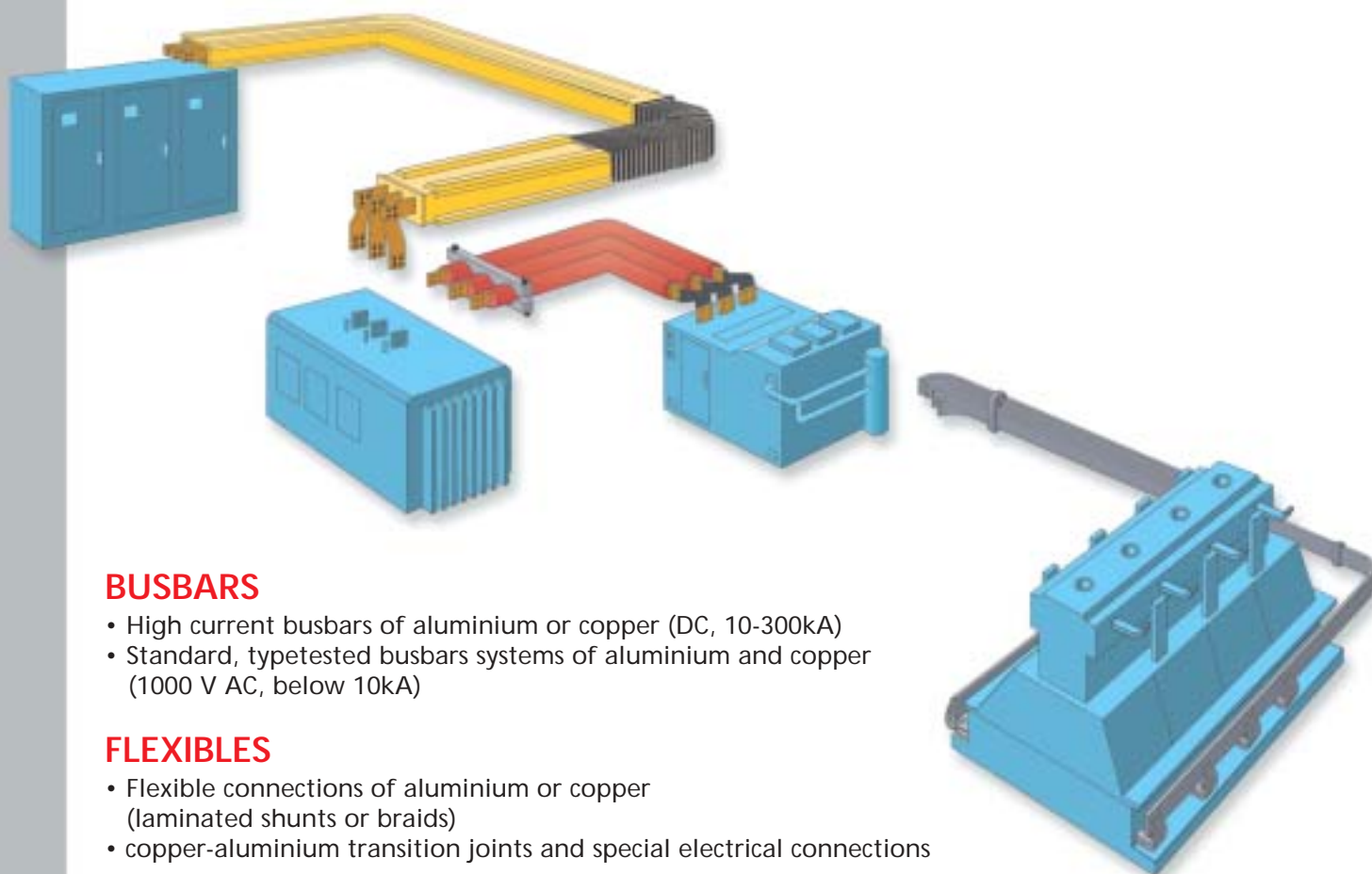
**EMS and Vision Electric  
Your partners for high current connections:  
busbars, flexibles and special connections.**

**EXPERTS IN  
POWER CONNECTIONS!**

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

In 2000 both companies took over the German production of ERICO having more than 40 years experience in the field of high current connections. Quality, engineering and tailor made solutions are key words.

EMS and Vision Electric have the competence and knowledge to solve your specific power connection demand. Please contact us!



### **BUSBARS**

- High current busbars of aluminium or copper (DC, 10-300kA)
- Standard, type-tested busbar systems of aluminium and copper (1000 V AC, below 10kA)

### **FLEXIBLES**

- Flexible connections of aluminium or copper (laminated shunts or braids)
- copper-aluminium transition joints and special electrical connections

## PRODUCTS

**Flexibles** made of laminated or braids are perfect solutions for high current connections. In general the material is aluminium or copper, but combinations here of or alloys are also available. EMS is one of the world largest manufacturer 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 co-operation with the customer.

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

Copper and Aluminium transition joints in high current connections can be manufactured by EMS using different technologies like

- MIG or TIG welding
- presswelding
- explosion bonding
- electron beam welding
- aluminium thermal welding
- brazing

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

- 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 system with a normal range of 1200 A to 9000 A on 1000 V AC with protection degrees of IP31 to IP54. 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.



Large aluminium flexibles



Large aluminium braids



Transition joints with copper ends and aluminium flexibles



VisionBar IP31



IndustryBar



