

PRODUCT GROUP:

**Glass industry
VISIONBAR**

**Vision Electric GmbH
busbar at
Saint-Gobain-
Oberland AG Essen.**

Saint-Gobain-Oberland AG Essen is an independent subsidiary of Compagnie Saint-Gobain.

The Compagnie Saint-Gobain was established in 1665. It is known for its many years of glass production. A well-known work of Saint-Gobain is the building of the Mirror Hall for Louis XIV. at Versailles.

Oberland Glas AG, established in 1946 at Bad Wurzach, took over the operation of Ruhrglas GmbH of Essen in 1988 and Compagnie Saint-Gobain assumed the controlling interest, forming Saint-Gobain-Oberland AG Essen. Saint-Gobain-Oberland AG of Essen produces glass and bottles that are both recyclable and non-recyclable.

In January 2002, Saint-Gobain-Oberland AG Essen renovated the main power supply to the glass smelters at their factory. Vision Electric GmbH supplied the busbar system type VisionBar for the connection between the transformer and the glass smelter furnace. The glass smelter maintains a constant smelting temperature of 1,590°C with a surface of 125 m² and produces 320 tons per day.

This project required technical competence, flexibility and rapid delivery. Vision Electric GmbH's international experience in the area of power supply for glass smelter ovens and its strong technical know-how were major factors in the success of this project.



The order consisted of design, supply and installation of the busbar systems VisionBar. VisionBar was installed as a 6 conductor system with its excellent cost-performance ratio. Additionally, the busbar system VisionBar can be used as a 9 or a 12 conductor system.

The flexible conductors were produced at EMS Elektro Metall Schwanenmühle GmbH, a worldwide leader in this area. The GSB electrical equipment company, Grevenbroich, specialist in the assembly of busbars and transformers performed the installation.

Vision Electric GmbH was responsible for the design, supply and execution, as well as the overall project management.

Project description

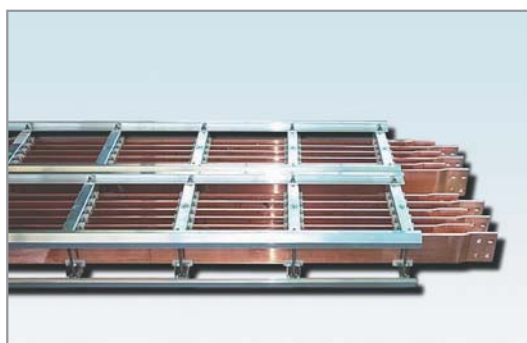
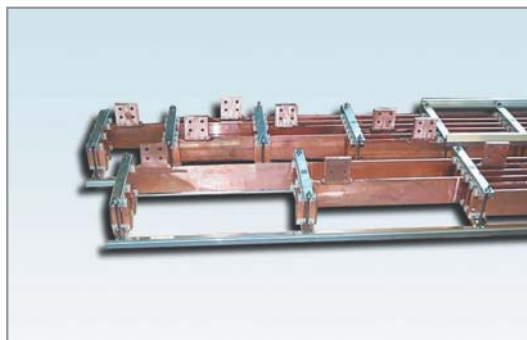
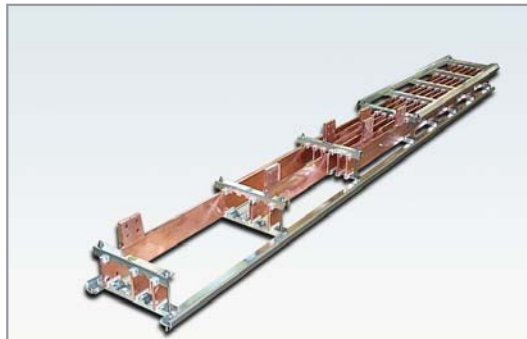
The power connection includes:

- 12 electrodes each 1,800 A
- Voltage 90 – 210 V
- Ambient temperature 30 – 55 C°
- Plant controlled system in- and outside
- Protection class : IP 31 and IP 54
- Distribution of current using 6 x 120 x 10 mm Copper busbar
- Flexible connection to the transformer : Isoflexx flexible 1,200 mm²
- Flexible connection to the electrodes: Isoflexx flexible 1,200 mm² with a length of 1.00 - 3.00 m

Project Data:

Customer :	Saint-Gobain-Oberland AG Essen
Customer Project Manager :	Ralf Angenendt
Sector of industry :	Glass Industry

Busbar system :	VisionBar 130 meter / 7,800 kg
Execution time :	January – March 2002



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