

CORNER



SYSTEMS



Main Trunk Busbars

G Corner manufactures a large range of Main trunk busbars for electro-refining and the electro-winning of base metals and certain chemicals such as chlorine with DC Electricity. Main trunk busbars are broken down in to three main sections:

- Main Positive trunk / feeder busbars
- Main Negative trunk / feeder busbars
- Crossover or Back busbars

The main positive and negative busbars take the DC electrical supply from the transformer rectifier unit and then return the current to the T/R unit. The crossover busbars provide the link at the end of the cell line between one row of electrolysers or cells and the next. The sets of busbars are made up from laminations of large copper plates.

G Corner individually design each set of trunk busbars to each installation as there are a number of variables that need to be taken into account on each project or installation. These variables mainly consist of the following parameters:

- Operating Current / maximum output of the T/R unit
- Current density requirements of the busbars.
- Site ambient temperatures
- Calculated temperature rise of busbars
- Watt losses in the busbars
- Busbar system Volt Drop

Head Office:
Bankfield Road, Tyldesley,
Manchester, M29 8QH UK
Tel: 0161 703 2250
Fax: 0161 703 2259
E-mail: enquiries@gcorner.co.uk
www.gcorner.co.uk

South American Office:
Office 806, Hernando de Aguirre
162, Santiago, Chile
Tel: +56 2 335 2217
Fax: +56 2 321 8280
E-mail: enquiries@gcorner.co.uk
www.gcorner.co.uk

Southern Africa Office:
PO Box 11214, Rynfield 1514,
Johannesburg, South Africa
Tel: +27 11 969 1326
Fax: +27 11 969 3917
E-mail: enquiries@gcorner.co.uk
www.gcorner.co.uk

India Office:
Unit H111, MIDC Ambad,
Nashik, India 422010
Tel: +91 253 383 731
Fax: +91 253 383 732
E-mail: india@gcorner.co.uk
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G Corner therefore will design and supply a balanced busbar system taking into account the above parameters and delivering an electrically efficient system.

The copper busbar used by G Corner is normally ASTM B152 Grade UNS C11000, which is high conductivity copper for electrical purposes, with an IACS value of around 100 – 101.5%. The individual busbars are normally produced from cold rolled Copper plate to G Corner's own specification and tolerances. The individual copper plates are 'shaved' during the mill manufacturing process, to remove any excessive surface oxides and to give a good surface finish suitable for the electrical contact faces of the busbars.

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