CORNER SYSTEMS



Intercell and Endcell Busbars

G Corner has designed and manufactures a range of unique endcell and intercell busbars for electro-refining and electrowinning SX/EW applications.

The aim of the intercell and Endcell busbars is to transfer DC Electrical current efficiently from the main feeder busbars into each end cell and then pass the current through the intercell busbar between each cell in the circuit.

The size of the busbars is dependent on the current capacity required in the cells and the physical size of the supporting cell wall and length of the refining cells.

To offer the most efficient electrical performance the busbars are usually produced as one continuous copper extrusion to ASTM B187 Grade UNS C11000. This will give a conductivity of 100 – 101.5% of the International Annealed Copper Standard value (IACS), ensuring a low electrical resistance between the cells and minimising any power losses.

Dependent on the application the busbars can be machined with slots to take the anode and cathode hanger bars or can be an un-machined plain extrusion with the hanger bars simply resting on the busbar. In addition an auxiliary current equalisation busbar can be added ensure an even current distribution across each intercell and endcell arrangement, resulting in a equal distribution of electrical current through the cathodes in the cell.

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