CUSTOM BUSBAR MADE OF COPPER AND ALUMINUM

Storm Power Components Custom Bus Bar Fabrication

How to build the best quality busbar at a lower price

SOURCING - As one of the largest electrical components manufacturers in North America, Storm Power Components sources more than seven million pounds of copper and aluminum every year. This advance sourcing eliminates inventory overhead from your production costs.

FINISHING - Most fabricators can't offer in-house plating and bus bar insulation like Storm. Having these capabilities under one roof reduces transport, waste, pollution, and time. And because we don’t finish 75 different types of metal—we finish COPPER and ALUMINUM, and we do it right.

FABRICATION - Storm’s precision machining means we can affordably manufacture a single prototype part or the mass-produced parts you need. We do it all, and we specialize in flexibility and responsiveness.

DESIGN AND ENGINEERING SUPPORT - YOU DESIGN
Storm manufactures OEM's designs to precise specifications. Our engineers can liaison between your design team and our manufacturing group, to enable you to focus on strategic projects.

Remember Storm engineers have built bus systems for high-current draw applications for a generation. Storm can provide critical input that leads to greater design for manufacturing flexibility.

VALUE ENGINEERING IS ANOTHER KEY TO SAVING COSTS
Through our value engineering methods we employ a systematic process designed improve the ratio of function to cost. Value is then increased by 1. improving the function or 2. reducing the cost.

Copper & Aluminum Bus Bar Specifications & Busbar Types

<table>
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<tr>
<th>Metal Alloys:</th>
<th>Capacitor Bus Bar</th>
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<tr>
<td>C11000 - Electrolytic Tough Pitch Copper</td>
<td>IGBT Bus Bar</td>
</tr>
<tr>
<td>6101 Electrical Grade Aluminum</td>
<td>Power Distribution Bus Bar</td>
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Structural Differences:
When using Aluminum Bus Bar the WIDTH must be increased by 27%. Ex: To achieve the same temperature rise, a 5" x 1/4" AL busbar will equal a 4" x 1/4" Cu busbar.

When using Aluminum Bus Bar the THICKNESS must increase by 50%. Ex: To achieve the same temperature rise, 4" x 3/8" AL busbar will equal a 4" x 1/4" Cu busbar.

Fabrication Process Paths:
Forming & Bending; Conventional, Offset & Side
Stamping; Coil Line Process & In-House Die Fabrication
Cold Cutting & Shearing; High & Low Volume Sawing
Machine Punching; CNC, Automated, & Single Stroke Turret Style
Precision CNC Machining; Turning & Milling with Multi-Axis Capability

Precision Machining; Turning and Milling with Swiss-Style Screw Machine
Press/Fused Welding & Brazing
CNC Water Jet
Laser

Plating Available:
Medium phosphorus electroless Nickel Plating
Full immersion electroplating
Strike plating
Material Choices:
Bright Tin or Matte Tin Nickel
100% Lead Various Tin/Lead Alloys

LINK TO BUSBAR AMPACITY TABLES >