

BUS BAR DESIGN AND FABRICATION

HOW TO BUILD THE BEST QUALITY BUS BAR 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.



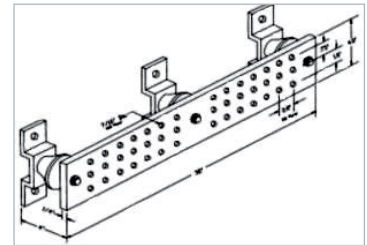
FINISHING

Most fabricators cannot offer in-house plating and bus bar insulation like Storm. Having these capabilities under one roof reduces transport, waste, pollution, and time. We don't finish 75 different types of metal--we finish COPPER and ALUMINUM.



FABRICATION

Storm Power'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.

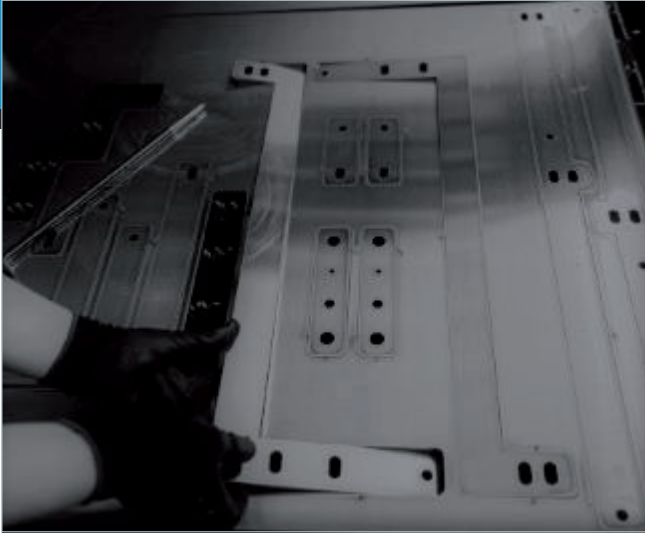


DESIGN/ENGINEERING SUPPORT

Storm manufactures OEM's designs to precise specification. We can also provide critical input that leads to greater design for manufacturing flexibility because our engineers have built bus systems for high-current draw applications for a generation.



BUS BAR DESIGN... (CONT)



VALUE ENGINEERING

is another key to cost savings. Through our DFM (Design for Manufacturing) reviews, we employ a systematic approach to optimize designs.

Value is enhanced by:

- Improving the function, or
- Reducing the cost.

COPPER & ALUMINUM BUS BAR SPECIFICATIONS & BUS BAR TYPES

METAL ALLOYS

C11000 - Electrolytic Tough Pitch Copper
6101 & 1100 - Electrical Grade Aluminum

ELECTRICAL/STRUCTURAL DIFFERENCES

- Copper is a dense, high strength material, with excellent conductivity. It enables high current density systems to make the most of limited space.
- Aluminum is lightweight and has ~40–60% the conductivity of copper. As a rule of thumb, systems generally require 50% more aluminum volume than copper to carry the same current.

Fabrication Process Paths We Utilize:

Forming & Bending - Conventional press brake & CNC forming
Stamping - Coil line process & in-house die fabrication
Cold Cutting & Shearing - High and low volume sawing/shear
Machine Punching - CNC, automated, & single stroke turret
Precision CNC Machining - Turning & milling with multi-axis
Precision Machining - Turning & milling with Swiss-style screw
Press/Fused Welding and Torch/Induction Brazing & Soldering
CNC Water Jet & Fiber Laser Cutting
Epoxy Powder Coat, Film Lamination, & Shrink Tube

BUS BAR TYPES

- Capacitor Bus Bar
- IGBT Bus Bar
- Backplane Bus Bar
- Armature Bus Bar
- Drive Bus Bar
- Power Distribution Bus Bar
- Router Bus Bar
- Multilayer Bus Bar
- Laminated Bus Bar
- Rack Mounted Bus Bar
- Circuit Breaker Bus Bar

IN-HOUSE PLATING OPTIONS



Bright Tin
Matte Tin
Various Tin/Lead Alloys
Electroless Nickel (Mid-Phos)
100% Lead
Silver
Nickel



STORM POWER COMPONENTS
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Responsive Manufacturing™