



Grounded locally, connected globally, powerful results,  
**UNDER ONE ROOF.**

*Responsive Manufacturing™*



Copper Sourcing

01 Engineering Answers

02 Fabrication

03 Electroplating

04 Dielectric finishing

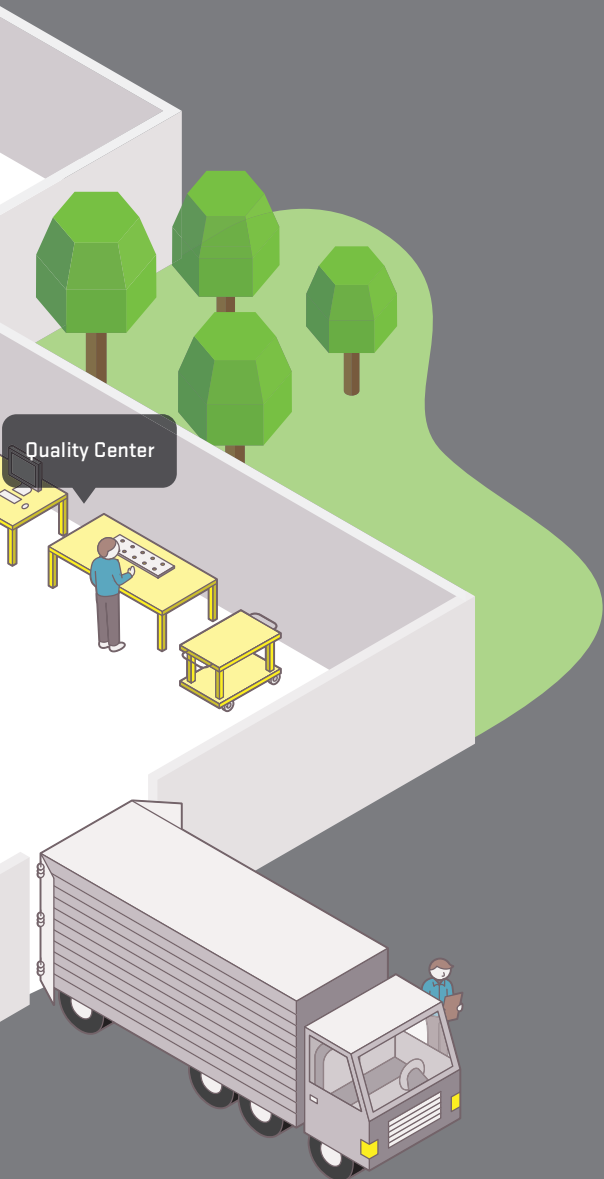
05 Assembly & Kitting

06 Lamination

07 Flexbraid & Specialty Services

Shipping

# YOUR FULL SERVICE, SINGLE SOLUTION



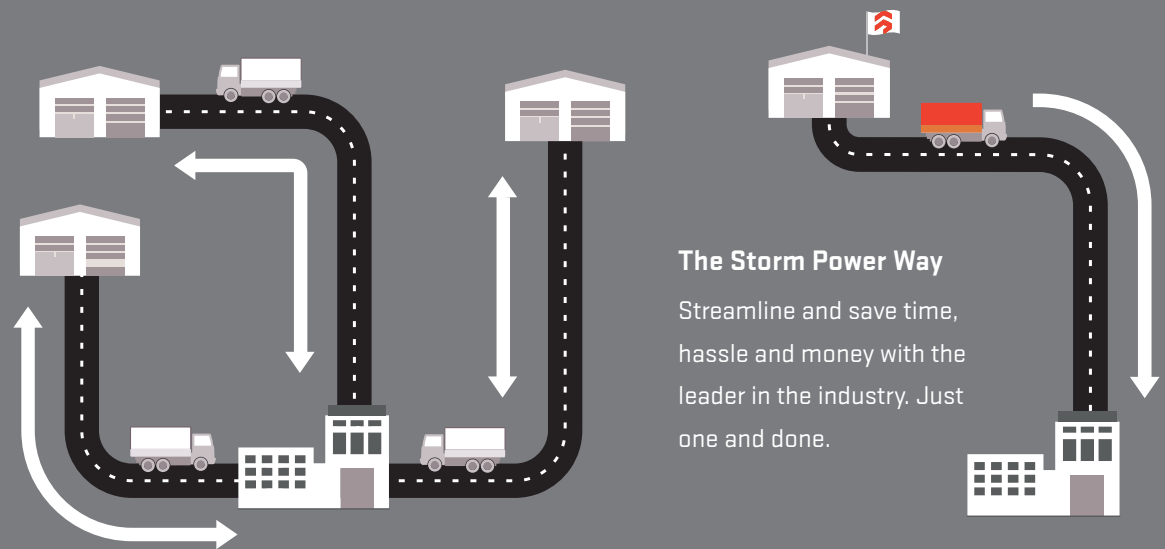
## The "Standard" Way

You could buy copper from one vendor, send it to another for fabrication, then another for plating, another for finishing then back to your warehouse. You could also juggle multiple POs, invoices, products, payment and responsibilities.

You need lightning-fast response to changing market conditions, designs that are cost-effective, lower inventory levels, and streamline internal processes. OEMs need suppliers with the industrial-strength chops to deliver value creation.

Storm Power Components is a responsive manufacturer of custom electrical components. Our professional suite of manufacturing services help customers kick-start designs with real manufacturability, put a screeching halt to inefficient logistics models, and unveil smart sourcing practices to streamline their ecosystems. For decades, original equipment manufacturers around the world have relied on Storm's electrical components to power, protect, and ground products used in mission-critical air, space, sea, and land applications.

From answering head scratching design questions to parceling components that arrive in mint condition at the correct work center of the assembly line, Storm Power Components does it all, Under One Roof.



## The Storm Power Way

Streamline and save time, hassle and money with the leader in the industry. Just one and done.



IT ALL  
STARTS  
WITH  
AN IDEA

# 01

## ENGINEERING ANSWERS

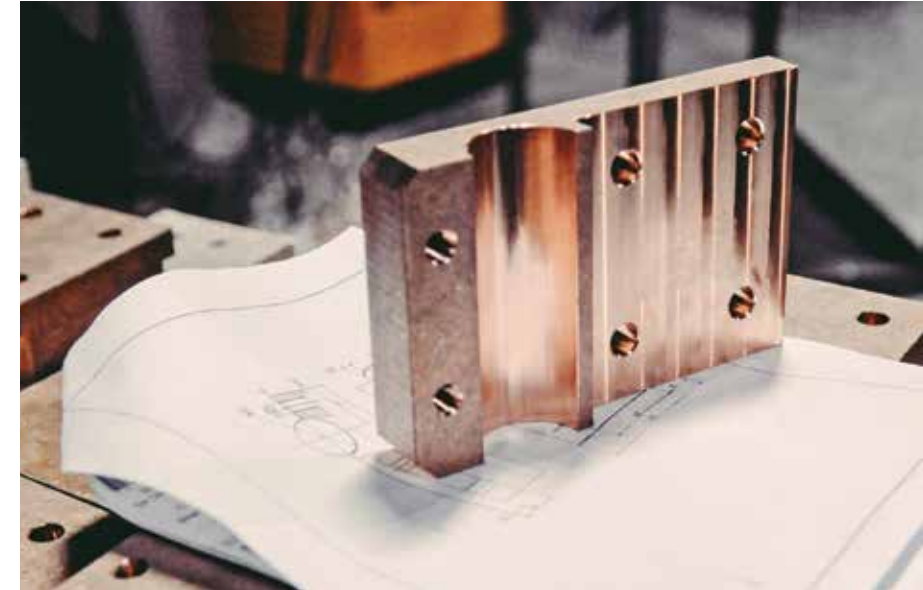
Design elements largely dictate how custom components will be manufactured. But, what if you don't have a team of engineers on staff, or their bandwidth is razor thin, or better yet, you just need a second opinion from someone who will give you a fresh perspective on an alternate approach? Our talented team of experienced engineers will help achieve the manufacturability you need.

Whether we design the component from idea genesis, reverse engineer it, or you bring us a design and incorporate a few sage pieces of our advice, you'll be in good company. We're honored to be trusted by original equipment manufacturers in vertical markets from alternative energy to wholesale trade. They rely on our decades of experience to produce custom components of precise tolerances and fit.

Storm has the right engineers, right raw materials in stock, and the right suite of manufacturing services—all under one roof. We're just the right team to design and produce your component parts.

### INDUSTRIES WE SERVE

- Alternative and Renewable Energy
- Aerospace
- Construction
- Electromechanical Motor Controls
- Government and Military
- Machinery and Heavy Equipment
- Manufacturing
- Oil & Gas
- Power Generation
- Power Storage and Conditioning
- Telecommunications and Wireless
- Transportation
- Wholesale Trade



### SEND US A PHOTO. WE'LL GET THE PICTURE.

Email sometimes goes down. That's one reason why we made our website smart-phone friendly. Just visit [stormpowercomponents.com](http://stormpowercomponents.com) and "Request to Speak to an Expert." Whether it's a photo, drawing, or even "chicken scratch on a napkin," you can always upload your ideas right from your smart-phone. Give us a few details, and an engineer from Team Storm will be able to help.

# 02

## FABRICATION

The engineers, quality technicians, craftsmen, and skilled machinists on Team Storm understand the technicalities of working with copper. It's a metal softer than steel, and one that requires extra proficiency when fabricating custom components.

When you add up the costly investments, extended lead time of creating tooling and fixtures, strict quality control procedures, and policing the inevitable "five finger discount" that goes hand-in-hand with scrap copper, in-house fabrication seems overwhelming—if it's not the core competency of your business.

World-class copper fabrication is our core business, though. Consider the ease of taking the 'dirty work' and associated functions of copper metal forming out of your highly automated state of the art assembly line and über clean facility by outsourcing it to Tennessee.

Our ISO 9001-2008 certified contract manufacturing facility spans nearly 100,000 square feet of core metalworking capabilities, all based on CNC technology. We have the equipment—including shears, presses, press breaks, water jets, and punching machines—made by the brands you'd expect, from AccuPress to Whitney. It's the industrial-strength equipment you'll no longer have to invest in to punch up to .500" thick copper bar and plate, produce materials with machine tolerances as close as .001", and finished components engineered to meet standards required by ASTM, UL, CSA, Bellcore, and others.

### CUSTOM-FIT SOLUTIONS, MADE FASTER AND BETTER.

Each month, more than 500 prototype and first-article components are manufactured in our Fabrication Center. Our advanced CNC machinery, flex tooling and value engineering helps shorten production times and boost efficiency. That means faster turn-around, more custom options, and higher quality.

#### COUNT ON TEAM STORM TO EXECUTE AN EXTENSIVE ARRAY OF FABRICATION PROCESSES:

- Cold Cutting & Shearing, High- and Low -Volume Sawing
- Punching, Turret Style and Single Stroke
- Stamping, Coil Line Process and In-House Die Fabrication
- Bending & Forming: Conventional, Offset, and Side
- Precision Machining, Turning and Milling with 5 axis capability
- Press and Fuse Welding
- Abrasive Cutting
- Brazing

A man in a factory setting, wearing safety glasses and a dark apron over a light-colored polo shirt. He is focused on measuring a small metal part with calipers. The background shows a blurred industrial environment with machinery and other workers.

# MASTERS --- OF METAL



EXPERTISE  
IN PLATING  
COPPER  
THAT RUNS  
DEEP



# 03

## ELECTROPLATING

We know how to achieve the finish you need. Since 1998, we've been electroplating custom components right on premises at our Tennessee-based contract manufacturing facility.

With more than 4,000 gallons of tank capacity, featuring both rack and barrel handling, and electro and electroless processing options, along with nearly a dozen distinct finishing possibilities, you'll get the exact coating you need, and benefit from the know-how of a partner who's proficiency in electroplating the red metal is built upon decades of experience.

### **THE VALUE OF RESPONSIVE MANUFACTURING**

By infusing innovation and efficiency into every process, we eliminate extended lead times, high fuel consumption costs, transportation pollution, and the heartburn associated with coordinating several suppliers. The result? A streamlined sourcing model that is faster, more environmentally friendly, and delivers superior quality electrical components.

Industry	Recommended Electroplating
Stationary & Motive Batteries	Lead & Lead-Tin
Telecommunications, Industrial and General purpose	Tin, Matte Tin, Bright Tin
Aerospace and Defense, Power Generation, Switchgear	Silver
Transportation, Aerospace, Industrial Drives, Military & Defense	Nickel
Switchgear, Industrial Drives	Electroless Nickel



# 04 DIELECTRIC FINISHING



Picasso was a great painter. Did you know that Team Storm has earned a few honors in the art of “melting” paint? A finishing process like this requires the skill to execute both fluidized bed and electrostatic spray methods. You could partner with a local shop, take the process on in-house, or make a call to the experts in busbar dielectric finishing.

Tackling the process on your own means you’ll need diligent goods management to have raw materials on hand, facility capacity to house the equipment and tools necessary, and technical expertise and quality control mechanisms to perform a variety of coating applications without production defects. If you farm out the process to a local job shop, you’ll not only need to be sure they have all the aforementioned, but also astute production scheduling to facilitate a seamless work-flow from Fabrication to Dielectric Finishing, so your product will meet critical time-to-market demands.

Tapping the genius of an renowned “artist” who can also serve as a single supplier for copper sourcing and fabrication services will reduce the risk, and up your game. Imagine a shorter distribution channel. Rein in work-in-progress, trim back raw material and carrying costs, and minimize lead-time, without the hassle.

## **WE COAT IN MANY COLORS**



Generally, the deciding factor when considering between fluidized bed and electro static spray is the working voltage of the part that the coating is being applied to.

## **COMMON INDUSTRY APPLICATIONS**

- Chemical and Nuclear Plants
- Switchgear Manufacturing
- Solder Electronics
- Power Units in Mining Machinery



THE ART OF  
PRECISION  
PAINTING



FIRST-CLASS

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MARKING

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METHODS WITH

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TRACEABILITY

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# 05 ASSEMBLY AND KITTING

Properly parceled traceable components take charge of operator efficiency, line-side storage, and other complications often associated with material flow. Signature assembly and kitting services, performed right inside our Fabrication Center, can give your production line the power to run even faster.

## **KITTING**

Reduce material handling and processing times and improve line side assembly with our Kitting Deployment Services. Regardless of your material flow method, we can help. Storm performs both direct-line side, mini-store, supermarket, central store, and vendor-managed inventory services.

- Busbar Fastener & Insulators
- Specialized Packaging

## **HARDWARE INSERTION**

Our Fabrication Center also offers hardware insertion services for the installation of a variety of components, including PEM nuts, self-clinching fasteners, standoff insulators, and studs. Using CNC hardware machinery, we pierce precision holes for easy hardware insertion that is superior in both quality and consistency. Parts will arrive to your central store, supermarkets, mini-stores, or line side, damage free and on time, every time.

## **SUPPLIER PARTS IDENTIFICATION**

Traceability is essential to quicken product development, enhance costing accuracy, and simplify the overall purchasing process. Our marking capability guarantees identification on the lowest level of packaging of the part itself, to meet your industry's standards.

- Engraving
- Ink Stamping
- Silk Screening
- Stamping



# 06

## LAMINATION



Which method does your custom power distribution assembly need? With the myriad of considerations and dependencies involved with such a critical power component, partnering with an authority in laminated busbar design is just plain smart.

The lamination engineers at the Insulation and Coatings Center under our roof can perform the end-to-end execution of your next custom assembly. If you don't have a design, don't worry: We have engineering answers. You'll benefit from our knowledge base to extend electronic component life cycles, enhance EMC characteristics, and provide for an "open, less-cluttered design" that produces higher efficiencies.

We have the copper raw material to begin production - with more than 450 sizes different sizes of standard and metric copper plate, sheet and bar right in our warehouse. Leveraging the milling capability in our fabrication center, Team Storm can produce the lamination fixture as well. We're quite accomplished in producing special brake, soft-tooling, and progressive dies, along with locating fixtures.

### **RUN SMART. RUN LEAN.**

Working with Team Storm, you'll reduce additional transportation costs, inventoried part numbers, and expensive assembly mistakes or mis-wired connections. You'll get precisely the custom laminated assembly you need—faster in hand.

A person wearing a blue long-sleeved shirt is working on a custom-fit power conversion device. The device is a large, rectangular metal assembly with several orange-colored components and silver-colored metal plates. The person is using their hands to adjust or inspect a part of the device. In the background, there is a control panel with a gauge and other equipment, suggesting a laboratory or industrial setting.

**CUSTOM-FIT**  
**POWER**  
**CONVERSION**

A close-up photograph of a person's hands, wearing black work gloves, holding a long, rectangular metal bar. The bar has a central section wrapped in a silver, braided material. At each end of the bar, there are three threaded holes. The background is a blurred industrial setting with various tools and equipment.

**WE KNOW**  
**FLEXIBILITY**



# 07

## FLEXBRAID AND SPECIALTY SERVICES

Vibration is an adversary of electrical connectivity. Generators, turbines, and transformers are the prime culprits, causing vibration at key distribution points in electrical power plants, substations, and industrial plants.

You may call it a fusion lug, flexible strap, flex connector, or flexbraid. Regardless of its moniker, this component, when properly engineered, minimizes the potential cost of facility downtime, maintenance, and energy loss created by loose electrical connections.

We make hundreds of custom flexbraids every day, right here in America, at our Tennessee-based contract manufacturing facility. It's yet another intricate manufacturing service we offer—under one roof. Count on Team Storm to build the component with the current carrying capacity, hole and stranding patterns, and width your product needs.

Do you need an unusually wide configuration? Don't worry. We can do that too, using multiple layered flexbraids to reach the preferred design load. We have engineering answers to help with the design, and copper flexbraid in sizes ranging from #6 all the way up to 4/0, ready to roll.

When the component is complete, the accomplished technicians in our Quality Center will execute rigorous testing to ensure the component produced matches not only the print specifications, but also your expectations.



### WHEREVER YOUR WORLD, WE'RE THERE

From as close as the Tennessee River Valley (which is right in our back yard), to as far as the Great Wall of China, the diversity of our customers allows Storm's products to be found in installations and applications on every continent on the globe.

# THE STORM STORY

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Since opening our doors in Dunlap, Tennessee in 1990 under the name Signel Tek Corporation, we've built a strong reputation for the innovations and solutions that deliver better results at a greater value. Today, with a name change and a move to Decatur, Tennessee, we've noticed no matter how quickly things change—our core values shine brighter than ever.

**1** First, our obsession with copper. It's red, the color of love, relatively pricey like other precious metals, and rare. Over the years, we have learned a great deal about the metal. We're fascinated by it, and fanatical about being the 'go-to' resource for education and information on copper component manufacturing. Today we're the experts in the business of copper sourcing, fabrication, and finishing.

**2** Second, the very DNA of our company is ingrained in one simple powerful word: Responsive. It's the way we conduct business, and the fuel that keeps us going. From the C-suite with our executive team, to the team members in customer service, and the engineers, craftsmen, and machinists on the production floor, every facet of our business is filtered through lens of Responsive Manufacturing.

**3** Third, our pursuit of customer adoration. Getting folks out of jam is our forte. We often struggled with the term customer service, because it doesn't quite adequately convey the pledge we make to have our customers' backs. Being reliable and developing confidence has earned us the honor to know many customers not by name or account number, but by the very sound of their voice.

**4** We're proud to have built a successful company the old-fashioned way—by keeping our word and commitments, doing business the right way because we don't break rules, and gaining trust, one customer at a time. It might sound hokey, but we're the type of firm your grandfather would be proud to do business with. He could easily identify true craftsmanship, and knew the value of a partner who would make a part right the first time, and every order, every time.

Exceptional service, responsive customer care, integrity, craftsmanship, thriving work culture and focus on doing it right—these are proud Storm Power traditions you'll appreciate in every project we serve. We're Storm Power Components, and we're pleased to make your acquaintance.



## WHAT'S YOUR COPPERTUNITY?

From the first spark to the final connection, Storm Power Components delivers the industry-renowned quality and uncommon customer care that has made us a Tennessee legend. But it's our signature, single-source efficiencies and unmatched standard of excellence that helps make our hard-working team a global success.

When you add up the benefits of smart sourcing, manufacturing ingenuity, clock-work reliability, and the relentless pursuit of customer delight, it just makes sense to have your electrical components made under our roof.

Rely on our team of copper experts to show you how advanced innovations and a rich heritage of good, old-fashioned Tennessee work ethics can be your key to gaining the competitive edge you deserve.

Let's get to work.

### **Storm Power Components**

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