

# Advanced Manufacturing



Monti, Inc. has the finest personnel and latest manufacturing equipment to produce either single parts or high volume production. To keep our business moving forward Monti is dedicated to investing in the latest manufacturing technologies. All of our departments are equipped with advanced equipment capable of producing parts accurately, efficiently, and in some cases through "lights out" or unattended machining.



**Fast Turn Manufacturing**  
**Low-Med Volume / High Mix Mfg.**

**Expedited Delivery (1-5 Days)**  
**Rapid 3D Prototyping**



**Manufacturer of Components and  
Assemblies for the Electrical Industry**

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POWDER COATING

## Monti's Blueprint to Customer Satisfaction



As Electrical Equipment Manufacturers continue to outsource production to qualified suppliers, they require those suppliers to meet their individual needs. We at Monti, Inc. attribute our success and continued growth to our ability to recognize and then adapt our services to those unique requirements.

Monti, Inc. offers its customers superior service levels by maintaining extensive raw material inventories, utilizing the latest software and manufacturing equipment and the most stringent quality procedures to produce product on time and at globally competitive pricing.

## Monti Inc.'s Machining, Turning, & Fabrication Capabilities Include:

**10 CNC Turret Punch Presses**  
Punch up to .5" thick

**13 CNC Press Brakes**  
Up to 250 ton w 12' bed

**10 Stamping Presses**  
45-440 Ton

**27 CNC Milling Centers**  
3 & 4 Axis High Speed Milling  
3D Machining Centers

**4 CNC Routers**  
63" and 145" Travels  
CAD/CAM Processing  
Nesting capable

**8 CNC Turning Centers**  
2, 3, 4, & 7 Axis Turning w Live turning

**3 Water Jet Cutting Machines**  
Cut almost any material

**Material Sales**  
Standard sizes and Cut to Size

**Assembly Operations**  
Rivet, Glue, Swage, Bolt and more  
Combining components and hardware

**Secondary Process**  
Silk screening  
Varnishing  
Kitting  
Electroplating  
Powder Coating

**Welding & Brazing**  
Mig, Tig, and Robotic

**3 Wire EDM**  
High precision metal cutting

**4 Cold Saws**  
Ferrous and non-ferrous metals

**3 Hydraulic Shears**  
Cut to Size

**3 CNC Mazak Lasers**  
FMS Cells  
Handle 5' & 10' sheets  
2,500, 4,000, & 6,000 Watts with Fiber Technology

## Kitting

Kitting is useful when a customer requires a certain grouping of parts during their assembly operations. Kitting helps purchasing by supplying multiple parts under one part number, it helps stock rooms easily manage multiple items and it helps manufacturing by ensuring that all items are available as needed during assembly.

## Assembly

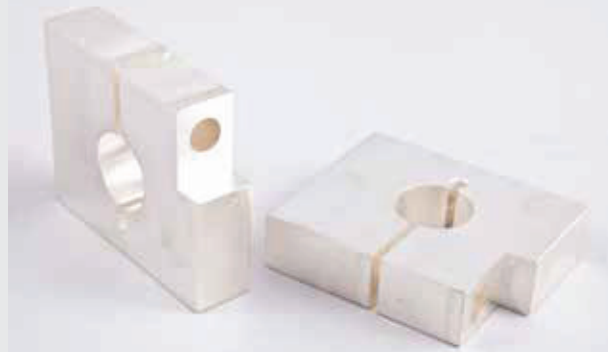
Monti, Inc. offers our customers the value added services of assembly and kitting. Utilizing our unique ability to fabricate and machine parts from many different materials we are able to rivet, glue, swage, bolt etc. these parts together per our customer requirements. This ability to manufacture the components in-house and then join them into an assembly saves our customers both time and money. We specialize in the assembly of stamped steel and composites such as Arc Chutes, stamped steel and copper such as Finger Clusters, machined steel and GPO3 such as Insulated Link Arms.



## Plating Solutions



Plating Solutions offers silver, tin, and zinc plating as well as special processes such as copper/brass cleaning, hydrogen embrittlement relief, and part lubrication. Silver plating is the most cost effective compared to other precious metals such as gold and platinum while being the best conductor of heat and electricity. Silver is widely used in the power distribution and electronics industries. Comparatively, tin plated components exhibit enhanced properties of corrosion resistance along with improved solderability and conductivity. Tin is non-carcinogenic, non-toxic and is widely used in several industries such as food equipment, electronics, hardware, and many more. Plating Solutions also offers trivalent zinc plating on several metals including copper, steel, and some brass. We use a potassium and ammonium chloride zinc solution that allows for aesthetically-pleasing, leveled deposits. The chromate coating, available in clear or yellow, adds a mechanical barrier and terrific corrosion resistance.



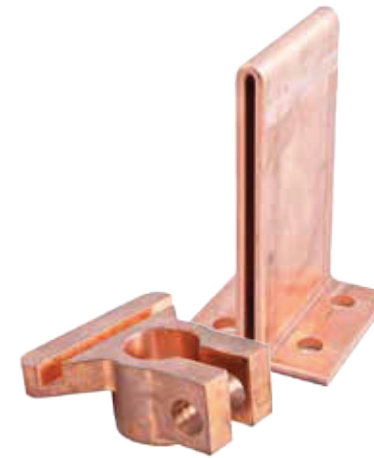
## Powder Coating

Monti Greenwood's automated powder coat line processes parts on a 760-foot conveyor through an advanced 4-stage wash system, consisting of a highly efficient non-phosphate cleaner and a proprietary zirconium oxide conversion process. Our eco-friendly design integrated with Monti's quality system allows for great flexibility, fast color change options, and the superior quality finishes that meet and exceed our customers' expectations.

Our newest powder coat system has been approved to surpass 1,000-hour salt spray testing, in addition to numerous ASTM and UL testing parameters. The automated system can handle parts up to 24" W x 48" H x 96" L, while our manual batch system can handle parts up to 84" W x 84" H x 168" L. Our newly built 20,000 square foot powder coat facility utilizes an advanced zero-discharge wastewater system.



## Copper Machining & Fabrication



Monti, Inc. produces a wide range of copper components for the electrical industry. We stock copper in sheet, coil, bar, rod, extruded shapes as well as common bus bar sizes both plated and bare. Buying from sources around the world ensure a broad inventory with excellent pricing. Utilizing extensive CNC fabricating and machining equipment we are able to offer our customers low volume proto typing and repair parts all the way to high volume production. These parts can be simple bus bars to complex machined assemblies utilizing different materials, joining techniques, coatings and finishes.

### Typical Copper Products Produced:

Contacts, stabs, bus bar, grounding kits, clamps, lugs, connectors to name a few.



## Epoxy

Monti Inc. applies epoxy coating to bus bar and copper stabs to reduce the possibility of corona and electrical tracking. This process starts by removing any oxides from the copper surface, next, contact areas are masked off with high temperature tape, the copper is then heated in an oven and after reaching the correct temperature is repeatedly dipped in a fluidizing bath until the required thickness is achieved, the masking is then removed and the parts are put back in the oven until the epoxy has fully cured, after the part has cooled the contact areas are plated with either silver or tin. Although this is a labor intensive art the result is an extremely tough and rigid coating with excellent insulation characteristics. Our fluidizing baths allows us to coat bars up to a maximum length of 96" and a right angle offset of 48". We have the dielectric test equipment to ensure that the work we do meets the specifications required by the customer.



## Sheet Metal Fabrication

Utilizing a broad array of fabricating machinery, we offer services that include Prototyping, Repair, Retrofit and Production in individual parts to large weldments.

For the repair industry, we are able to reverse engineer damaged or worn out parts and assemblies or fabricate from hand sketches to get electrical gear back in operation in hours rather than days.

For OEM customers, we have the expertise to prototype new designs and suggest areas where materials and labor can be saved. Should the product be introduced to market we can supply parts in limited quantities and then ramp up to high production as product sales increase.

We have the in-house capability of building and running complex progressive dies when volumes and part configuration justify the initial tooling charge.



### We work with many materials including:

- Low, Medium and High Carbon Steel
- Stainless Steel
- Aluminum
- Brass and Copper

## Insulation Machining & Fabrication

Monti Inc. machines and fabricates Electrical Insulation from a broad range of materials with differing characteristics that can satisfy specific performance requirements. From rigid, high temperature materials to thin flexible films Monti Inc. can deliver your most demanding electrical component parts.

The least expensive fabrication technique for thin materials is punching. Low volume rigid parts are nested and run on our Turret Presses, for higher volume parts that justify hard tooling we will design and build a die to run on one of our Stamping Presses. Flexible materials can be cut by steel rule dies on high production hydraulic presses. Thicker parts that require machining are run on one of four routers or twenty-seven milling machines, including multi-axis 5 sided machining of parts up to 96 inches long. For intricate 2 dimensional work we have the option of running these parts on one of our two Waterjets, these machines have the ability to cut almost any material up to 6 inches thick. Our lathe department has two, three, five and seven axis lathes to turn the simplest to the most complex parts complete without secondary operations.

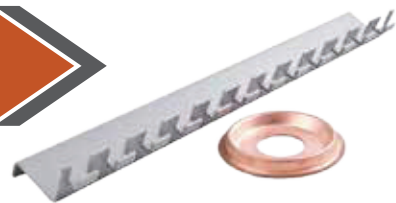
### Typical types of insulation:

GPO-1, GPO-3, G3, G5, G7, G9, G10, G11, SG-200, XX Paper, Canvas & Linen Phenolics, Vulcanized Fiber, Formex, Lexan, Nylon, Teflon, to name a few.



## Stamping

Monti Inc. can manufacture parts from prototypes and short run production all the way to high volume stamping. At lower levels we can use our CNC Turret Presses or Lasers to fabricate parts with little or no tooling and when volumes rise we can design and build dedicated tooling to stamp parts from coil. We have an expert staff that can design and build dies from the simple to the most complex progressive dies. We have a modern die department with the latest CAD software, CNC mills and 3 CNC wire EDM machines. Our stamping department has late model presses from 45 to 440 tons, modern coil feeding equipment and housed in our new high bay stamping wing. We have experience in punching many different materials including steel, copper, copper alloys, aluminum, fiberglass and flexible insulation materials.



### Stamping Capabilities Include:

- A diverse line up of presses ranging from 45 to 440 tons.
- Short run and high production stamping.
- Blank fed and coil feeding abilities.
- Stamp many different materials.
- On-site CAD/CAM die design and build.
- On-site Tool and Die support team.

## CNC Machining

As our equipment list attests, Monti, Inc. invests in the most productive and up to date machinery. This constant push to find ever more efficient machining processes has allowed us to drastically reduce cycle times, reduce WIP, reduce lead times and ultimately reduce part costs to our customers. Monti, Inc. has a full range of capabilities including Vertical and Horizontal Multi- Axis Machining Centers, Machining Cells, automatic part orientation and inspection by the machining center, 2, 3, 5 and 7 axis Turning Centers from Swiss style to large high horsepower machines.

## CNC Milling

Monti Inc is proud of the capabilities of its milling department which utilizes a combination of 27 Horizontal and Vertical Machining Centers. Our horizontal spindle machines have the ability to load either two or six pallets allowing for up to 24 different work fixtures and running unattended through out the night. Our vertical spindle, 3 and 4 axis machines, have travels ranging from 16" x 32" to 60" x 120", we have dedicated high speed spindle machines for non-metallic materials and heavy duty, high horsepower machines to aggressively cut steels. One specialized 4 axis machine is even capable of machining five sides of a 96" long part. To efficiently machine electrical insulation we have 3 CNC routers, these large machines have the capacity to process 5' x 10' sheets with high feed rates and quick load/unload vacuum tables.

### CNC Milling Capabilities Include:

- Vertical and Horizontal Machining Centers
- Multi-Axis CNC Milling Centers (3,4 & 5)
- Hold tight tolerances on many different types of material
- Vertical mills and routers with travels of 5' x 10'
- Ability to import part files and automatically nest parts



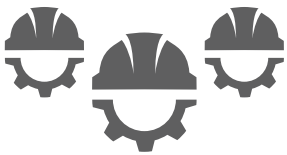
## CNC Turning

Monti Inc has the latest CNC Turning Centers including 2, 3, 5 & 7 axis machines, complete with live tooling and magazine bar feeders. Utilizing a 5 axis mill/turn multitasking machine allows us to completely machine complex parts up to 20" diameter. Our 7 axis Swiss Style machines allow us to run highly complex, small diameter parts unattended from multiple 12' long bars. These machines give us "in house" capabilities to manufacture parts required in cabinets and frames produced in our Fabrication Department. A specialty at Monti is the manufacture of copper Stud Assemblies, without our large, high horsepower CNC lathes we would not be able to turn the complex studs from 1" to 6" diameters and up to 29" long.

### CNC Turning Capabilities Include:

- Multi-Axis CNC Turning Centers (2, 3, 5 & 7)
- Mill-Turn 5 Axis Multitasking Center
- 7 Axis Swiss Type Turning Centers w/ 12' bar feeders
- Hold tight tolerances on many different types of material
- Can machine parts as large as 20" in diameter

# Our Company Values



## Together, We Thrive

At the heart of what we do, it's not just about creating products—it's about building lasting partnerships. Success here isn't about doing it alone or playing it safe; it's about teammates who support each other, celebrate wins, and take bold steps together.



## Sustainable Excellence

We don't just meet today's standards—we set tomorrow's. Committed to excellence, we challenge the status quo and never settle for "good enough." By prioritizing safety, efficiency, and continuous improvement, we're not just building quality products—we're shaping a more sustainable future.



## Customer Success Champions

We don't wait for customers to come to us with problems—we see their needs coming and jump into action. Our success is tied to theirs, so quick turnaround isn't just about speed; it's about providing thoughtful, complete solutions that exceed expectations.

## Quality Assurance

At Monti, Inc. we do not want to only supply quality product, we want to be your quality supplier. Monti, Inc. utilizes a quality system that encompasses the whole business operation. Monti, Inc. is an ISO 9001:2015 registered company that has adopted a process based approach to managing the system by identifying the key support processes, defining internal customers, establishing metrics with goals, and monitoring the performance against those goals. This initiative takes a very data-driven, methodological approach to eliminating defects with the aim of satisfying our external customers by continuous improvement efforts.

