

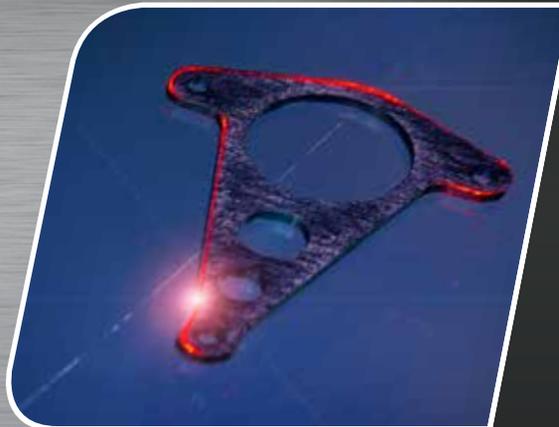
Full-Service Metal Products Group

BANNER

bannermetalsgroup.com



*Metal Stamping
Fabrication
Welding
CNC Machining
Laser Cutting
Engineering*

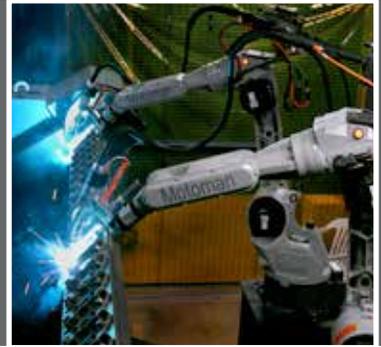


*ISO 9001 Registered
AS 9100 Registered
TS 16949 Compliant*

Banner Metal Group was founded in 1921 and embraces the challenges of the aerospace, automotive, medical, building, recreational, and industrial equipment industries by providing comprehensive services. This also allows us to provide critical assistance with the product design and development, but also to approach the design with an emphasis on economics, manufacturability, and assembly, so that your products will be ready for use when they arrive at your facility.

We proudly supply products and assemblies to 14 aircraft platforms for commercial, regional, business, and military. Annually, over 2,000,000 welded nuts and collars are used on the parts we manufacture across the many heavy-duty industries we serve, especially Tier 1 and Tier 2 automotive companies. We maintain compliance with all regulatory requirements necessary to supply commercial, military, regional, and business class for both fixed wing and rotary wing aircraft. You can also rely on Banner to understand your industry's operational, safety and regulatory requirements.

Banner is a global company and routinely ships product throughout the US, Canada, Mexico, France, Morocco, and Malaysia.



**Banner produces over
36,000 robotic
MIG welds
per week.**

CNC Machining

Whether it is a secondary operation to a metal stamped part or an entirely machined component, our modern CNC machines can meet the required accuracy, precision, and repeatability of our customer's needs.

Coatings

Coatings needs vary by industry. We adhere to strict compliance to all regulatory and environmental requirements, including A2LA lab accreditation, NADCAP, and EAR.

Deburring

Using high speed flow-through equipment assures that the parts are processed in the most economical way and with a burr-free edge finish. A fine coating of water soluble rust inhibitor is applied to keep the parts from developing surface rust while in storage or in transit.

Design Assistance

Our process design team will review your design and suggest different ways to manufacture based on your needs.

Dimensional Inspection Services

We use a 3D laser scanner, Faro portable CMM, DCC CMM, or traditional layout measurement and can verify the conformance of the part to the design specifications or provide our customers with a CAD file for reverse engineered parts. Dimensional data can also be uploaded to statistical evaluation software (Ppk and Cpk) when measuring multiple parts.





Fabrication

Fabrications have an economic advantage with low volumes, with low tooling costs. Laser cutting can be achieved on any kind of metal up to 0.75" (19.0mm) thick and CNC Bending for products up to 0.50" (12.7 mm).

Heat Treatment

Heat treat processes vary by industry and our suppliers maintain strict compliance to all regulatory and environmental requirements including ISO 9001, AS 9100, NADCAP, and A2LA accreditation.

Metal Stamping

Banner stamping presses range from 10 tons to 1200 tons. We specialize in heavy gauge material up to .750 inches (19.0 mm) in bar and .625 inches (15.8 mm) in coil (up to 70 inches in diameter). We can also produce metal stampings with a thickness as low as .018 inches (.45mm). Additionally, we can provide parts comprised of numerous grades of metal from alloy, cold rolled, hot rolled, stainless, brass, and aluminum to name a few. Our stamping operations include: Blanking, Bending, Coining, Extruding, Forming, In-Die Tapping, Piercing, Shallow to medium depth drawing and Shaving.

Packaging

We offer custom labeling, standard bulk packaging, small batch packaging, individual part packaging, and fully customized kitting and support multiple barcode formats to assure that all product is identified internally with a unique barcode for added traceability.

Project Management,

We use a robust Advanced Product Quality Planning process to manage program launches and engineering changes.

Tool and Die Design and Maintenance

Our entire tool and die design services are performed in-house or by one of our local tool and die partners depending on the complexity of the project.

Welding

We produce millions of resistance welds and MIG welds per year for a wide variety of industries and use advanced weld monitoring technology such as gas mixture ratios, wire feed speeds, and electrical currents to assure that 100% of all welds meets the designed strength for its demanding application. Robust fail proof methods are also in place for an additional level of quality assurance.

We use state-of-the-art Robotic MIG Welding cells. These welders allow us to weld a variety of different metal thicknesses from .025 to .750, and we have the ability to weld carbon and stainless steels. We have projection weld capability from 50 to 200 KVA with a variety of nut feeders and automation.

**Banner produces over
22,000 resistance
spot welds
per day.**

Quality Management System

Banner Metals Group is committed to the exceptional quality of our products and services to meet the challenging demands of our customers. One of our competitive differentiators is our ISO 9000 / AS 9100 certifications. Our commitment to quality begins at the executive level and is promoted throughout our organization. Our engineering team drives our improvement initiatives by identifying better ways of manufacturing complex and high tolerance parts for critical applications. At Banner, our Quality Management System is more than just a standard, it's a culture ingrained in our daily routine.

Continuous improvement is the cornerstone of our foundation. We have a Six Sigma Master Black Belt on our Leadership Team who champions this effort. Numerous kaizen events occur at Banner each year and value streams are continually reviewed to optimize the flow of the company. These in turn help keep Banner competitive in the markets we serve by allowing us to provide services to our customers in the most economical way.

Especially in transportation industries, there is no place for components that do not meet the very highest standards of quality. We know that the quality of our products has a direct impact on your final production and are proud to serve these industries knowing that flight crews and passengers depend on the integrity, reliability, and safety of the products we provide.



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BANNER-093016