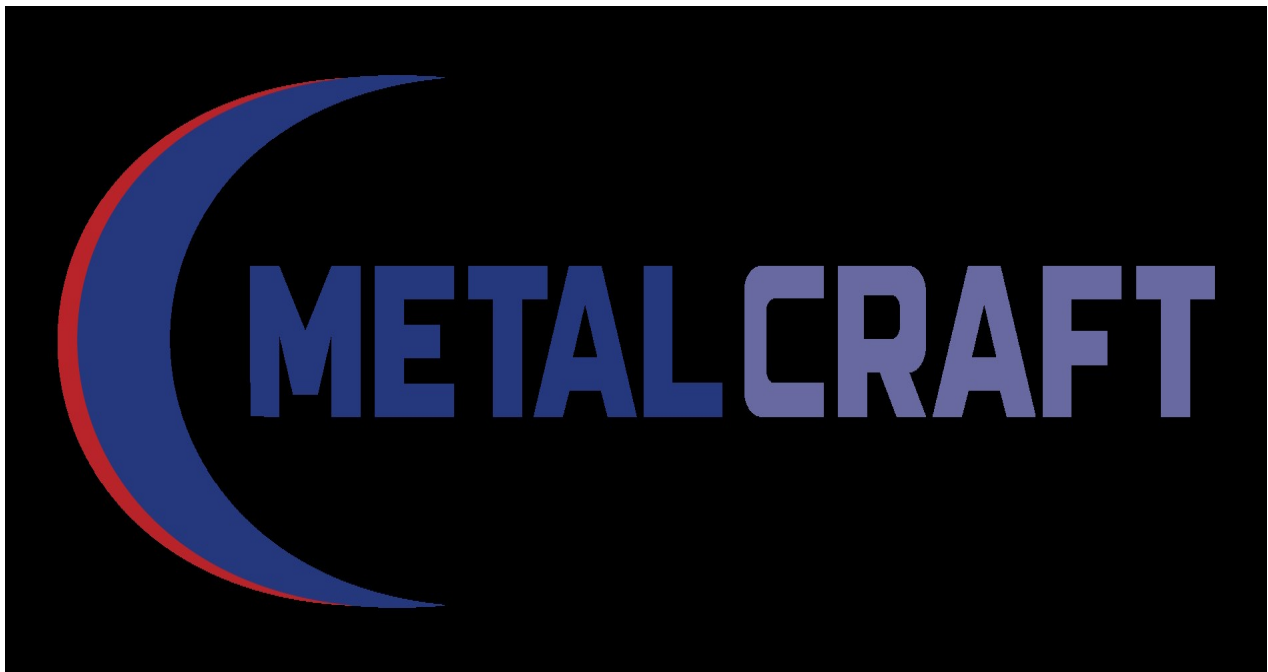




Metal Craft Spinning Outlines Benefits of Spun Aluminum in Metal Forming

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Metal Craft Spinning & Stamping, a fourth-generation family-owned metal forming and fabricating company, has released detailed information about its spun aluminum capabilities, the aluminum grades it works with, and the range of custom parts it produces through metal spinning. The company, an industry leader since 1964, aims to help manufacturers and product designers better understand where the process fits within modern production.

Metal spinning, also known as spin forming, is a metalworking technique with roots dating back thousands of years that has evolved into a high-speed manufacturing process capable of producing complex, axially symmetric shapes. The method forms cones, tubes, hemispheres, parabolas, and cylinders from a single piece of material, and aluminum remains one of the most common selections for the process.

Among the reasons aluminum is frequently chosen is cost. Compared with metalworking processes such as metal stamping, tooling for aluminum spinning is often less expensive, sometimes only a fraction of the cost. That efficiency, combined with the relative ease of making design changes, makes spun aluminum a practical choice for prototyping, new product development, and low-to-medium volume production runs where

minimizing upfront investment is important.

Beyond cost, the process itself changes the material's properties. Metal spinning is a cold-working technique that realigns the grain structure of the aluminum, producing a work-hardening effect that increases tensile strength. As a result, a finished spun part can be stronger and more durable than a comparable component made through casting or deep drawing.

Because spun parts are formed from a single piece of aluminum, they are seamless and contain no welds. This monolithic construction can withstand higher pressures and is well suited to applications such as tank heads and pressure vessels. Aluminum also forms a natural protective oxide layer, giving it inherent corrosion resistance without secondary treatments such as painting, which is an advantage for parts used in outdoor, marine, or humid environments.

The material's high ductility allows it to be formed into deeper and more intricate shapes than harder metals like steel, giving designers greater freedom to create complex contours and geometries. As a lightweight alternative to steel, aluminum also reduces shipping costs and is well suited to applications where weight is a critical factor, including the aerospace and automotive industries.

"Aluminum gives our customers a rare combination of low tooling cost, strength, and design flexibility, and that is why it comes up in so many of the projects we take on," said Kyle, Vice President of Metal Craft Spinning & Stamping. "When a customer needs a seamless, corrosion-resistant part without the expense of hard tooling, spun aluminum is very often the right answer."

Metal Craft Spinning & Stamping specializes in spinning aluminum of different sizes and alloys, with products that can be polished to standards suited for commercial industries. Two alloys are among the most preferred for the process. Aluminum 1100-O, a commercially pure grade made of 99 percent aluminum, is a soft alloy with lower strength but excellent formability, making it well suited for intricate shapes and deep-drawn parts. Aluminum 3003, a non-heat-treatable alloy that includes manganese, iron, and copper, is roughly 20 percent stronger than 1100 and is valued for its moderate strength, workability, and corrosion resistance. The company can spin aluminum in thicknesses ranging from 0.040 to 0.135 inch.

The parts produced through the process span a wide range of industries. Common examples of spun aluminum components include funnels, drums, lighting, HVAC and roofing components, decorative components, electronic device parts, furniture, and appliances. Popular applications also include seamless metal drains, vent pipe flashing, satellite dishes, and commercial lighting.

"We see spun aluminum move from a designer's prototype to full production without changing the fundamentals of the process, and that continuity saves our customers both time and money," Kyle said. "Our

goal is to make sure every part leaves our facility on time and exactly as expected."

Metal Craft Spinning & Stamping has provided metal forming and fabricating services for more than 60 years and operates as a fourth-generation family-owned business. The company uses CNC machines, hydraulic presses, and automation to support consistent quality and on-time delivery. It maintains facilities in Niagara Falls, New York, and Etobicoke, Ontario.

For more information about the company's spun aluminum capabilities and other services, visit www.metalcraftspinning.com.

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Metal Craft Spinning and Stamping

Whether you require laser cutting, metal spinning, or stamping, Metal Craft Spinning and Stamping has you covered!

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