

Metal Components for the Aerospace & Defense Industries

The aerospace and defense industries depend on metal components that are of the highest quality and durability. With no room for error, metal components must be manufactured with exacting specifications, accurate dimensions, and durable materials. Helander Metal Spinning offers all of the qualities and capabilities to reliably supply industry-leading components.

Offering top-quality hydroforming, metal spinning, and welding services, we work with titanium, brass, 321 stainless steel, and 7075, 5052, and 6061 aluminum with material thicknesses ranging from 0.018" to 0.250". Our Hydroforming facility is equipped to handle a 20" maximum product diameter and a 10" height maximum, and we hold tight tolerances down to ± 0.010 " to meet our clients' high standards. We can accommodate orders ranging from 1 piece to 50,000 pieces annually, deliver internationally, and offer a 4 to 12 week delivery time.

Our ability to custom fabricate any type of specialized metal part allows us to partner with each client to meet their requirements for detailed part production. We fabricate high performance parts with intricate curves, tight grooves and precise details. These parts have better physical attributes that resist fatigue and have improved hardness and tensile strength. We provide the most efficient method to produce components with the structural integrity required for challenging applications.



6061 Aluminum, chromate conversion anodize finish. Custom cover for a military motor. 5.00" diameter X 6.50" height x 0.040" thick aluminum formed using hydroforming.



16 gauge 304 s/s, 3.00" od. X 1.50" height, formed using hydroforming.



16ga 1008 steel formed using hydroforming, 9.25" diameter X 0.375" height.

Specifications for the Aerospace and Defense Industry

Capabilities Applied/Processes	Hydroforming, Spinning
Typical Tolerance	± 0.010 "
Material Thickness	0.018" to 0.250"
Product Length	36"
Product Diameter	up to 80"
Cutting Method	CNC Turning & Milling
Material Used	Titanium, 321 Stainless Steel, 7075 Aluminum, 5052 Aluminum, 6061 Aluminum, S/S, Brass
Industry for Use	Aerospace & Defense
Volume	1pcs to 50,000pcs
Delivery Time	4 to 12 weeks
Delivery Location	International
Typical Tooling Cost	\$500.00 to \$5000.00