



# Metals

- STAMPING • CASTING • EXTRUSION
- MACHINING • MIM • FORGING

## Stamping

- Materials: Aluminum, Copper, Titanium, Zinc, Nickel / Nickel alloy, Magnesium / Magnesium alloy, Steel
- Tool making, Coiling / Spring making, Nameplates, Dome products
- Secondary Operations: Drilling / Tapping, CNC machining, Grinding, EDM cutting, Heat treating / Stress relieving, Welding, Anodizing, Electroplating

## Machining

- Materials: Aluminum, Brass, Bronze, Cast Iron, Copper, Hardened metals, Nickel / nickel alloys, Stainless steel
- 2 axis - 5 axis machining
- Specialty machining: Rotary transfer machine, Jig / Fixture manufacturing, Casting machining, Tool & die manufacturing
- Capabilities: Drilling, Milling, Turning, Jig boring, Electrode & Wire EDM, Broaching, Honing, Laser machining, Screw machining

## Forging

- Cold forging • Hot forging • Warm forging
- Forging is stronger than cast or machined metal parts and has high strength to weight ratio.

## Casting

- Type: Die, Sand, Resin, Investment, Centrifugal
- Materials: Aluminum, Magnesium / Magnesium alloy, Zinc, Nickel / Nickel alloy
- Secondary Operations: CNC machining, Drilling / Tapping, Sanding

## Extrusion

- Methods: Hot extrusion, Hydrostatic extrusion, Wire drawing
- Applications: Thin film, Sheet, Rod / Wire, Custom profiles / Cross sections, Construction / Building products, Tubing / Hose, Pipe, Gaskets / Seals, Heat sinks
- Secondary operations: Machining, Grinding, EDM cutting, Heat treating / Stress relieving, Welding, Anodizing, Electroplating, Painting, Powder coating, Printing / Labeling

## MIM - Metal injection molding

MIM excels at applications that require shape complexity, high strength, excellent magnetic permeability, corrosion resistance, and thermal conductivity.

