



## ENGINEERING SOLUTIONS **TOGETHER**

### Providing material and assembly solutions for customers around the world

Arnold Magnetic Technologies is a global leader in manufacturing high-performance magnets, magnetic assemblies, precision thin metals, and flexible magnetic products. High performance materials from Arnold support motor systems that are smaller, lighter and more efficient while operating in high speed, high heat environments.

#### Why Arnold

Arnold's core capabilities and expertise are custom engineered permanent magnets, magnetic assemblies, electric motors, and precision rolled ultra-thin gauge alloy strip and foil. Our world-class engineering team works closely with you to help optimize the efficiency of your application. Rely on our knowledge and expertise in materials science, manufacturing, and analysis to assist in the design of sophisticated components and precision magnetic assemblies.

Plus, with access to a continuous supply of high-quality rare earth materials, our technical experts are ready to work with you on your unique application.

As an innovator and trusted partner, we're dedicated to engineering solutions together with our customers.



#### Locations

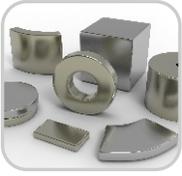
With locations across the US, Europe and Asia, our technical experts are ready to assist you.

- Rochester, NY
- Madison, WI
- Greenville, OH
- Lupfig, Switzerland
- Sheffield, UK
- Shenzhen, China
- Ogallala, NE
- Marengo, IL
- Marietta, OH
- Norfolk, NE
- Ganzhou, China



## What We Make

Custom materials and assembly solutions specific to your requirements, including:



### Permanent Magnets

We custom produce and fabricate a comprehensive line of permanent magnets specific to your design requirement:

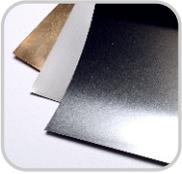
- ◆ RECOMA® samarium cobalt is the market leader in coercivity. Specifically created for the most demanding environments, including high speed, high temperature and highly corrosive environments. (DFARS)
- ◆ Neodymium Iron Boron offers the highest energy product. (NDAA/DFARS)
- ◆ L-Type laminated rare earth magnets are proven to offer reduced eddy current losses in high-efficiency motors.
- ◆ Shaped field magnets offer increased field strength with reduced fringing and more efficient use of magnetic field.
- ◆ Alnico magnets offer impressive flux density with cast and sintered material. (DFARS)
- ◆ Injection molded ferrite composite magnets.



### Electromagnets and Stators

Over 60 years of experience manufacturing electromagnets for wave guide and beam focusing applications:

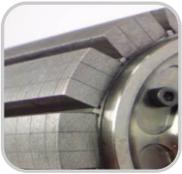
- ◆ Shaped field electromagnets, or solenoids. (DFARS)
- ◆ AC induction stators and DC brushless stators.
- ◆ Bobbin wound electromagnetic coils.



### Precision Thin Metals

We develop Thin and Ultra-Thin gauge metal strip and foil rolled to 2 microns thick. These products are created from a wide range of magnetic and non-magnetic specialty alloys as well as soft magnetic materials:

- ◆ Thin gauge titanium is lightweight and durable under harsh temperature and chemical conditions.
- ◆ Arnon™ 4, 5 and 7 Non-Grain Oriented Silicon Steels (NGOES) for increased efficiency in high-frequency applications.
- ◆ Invar 36 is a necessary part of the manufacturing process for OLED screens.



### Motors and Magnetic Assemblies

Arnold integrates value-added services and assemblies into highly-complex magnetic systems including:

- ◆ Machining, precision grinding, encapsulation and balancing.
- ◆ High-efficiency, high-speed rotors, active engine mounts, hubs, cylinders, stators and sleeves requiring extreme precision.
- ◆ Complete AC induction and DC brushless motors



### Engineered Magnets and Custom Composites

Custom compounding of polymers and embedding powders, ideal for industrial, aerospace, medical and commercial use, with products like:

- ◆ Unique and complex extrusion profiles.
- ◆ Lead-free shielding materials for both high & low frequency applications.
- ◆ Plastiform® high-energy sheet and strip magnets for industrial applications.
- ◆ Flexible printable media.
- ◆ Most sheet and strip products available with or without pressure sensitive rubber or acrylic adhesive.

## Who We Make It For

Mission-critical applications rely on Arnold's high-performance materials and precision components to improve efficiency, increase power density, and lighten their systems. That's why companies around the world rely on Arnold in the following vertical markets:

- ◆ Aerospace & Defense
- ◆ Medical Devices & Shielding
- ◆ Motorsports & Automotive
- ◆ Energy Exploration, Production & Storage
- ◆ Industrial
- ◆ Consumer Electronics
- ◆ Commercial Printing

## Certs & Lists

ISO 9001:2015  
AS 9100 Rev D



Arnold is a US-based corporation which is ITAR registered with the U.S. Dept. of State. We take pride in complying with applicable government requirements throughout our organization.

