



Aluminum Casting: The Heart of Quality Manufacturing

When it comes to quality, reliability, and precision in aluminum casting, **Alcast Company** stands out as a leader in the industry. Since its founding in 1970, Alcast has continuously proven itself as an [aluminum casting manufacturer](#) committed to providing high-quality aluminum castings. With decades of expertise, we've grown into an ISO 9001:2015 registered permanent mold aluminum foundry, supplying castings for a wide range of industries.



The Significance of **Aluminum Casting** in Modern Manufacturing

Aluminum casting plays a crucial role in shaping the manufacturing landscape. As a **casting foundry** with a focus on **aluminum metal casting**, Alcast Company provides castings that meet high standards for strength, durability, and precision. But why exactly is aluminum casting so important?

Why Choose **Aluminum Castings**?

Aluminum is a versatile and lightweight metal, making it perfect for a range of applications. From automotive to aerospace, aluminum castings are crucial in producing high-performance parts that are both cost-effective and durable. With its excellent heat conductivity, corrosion resistance, and low weight, aluminum casting ensures your products stand the test of time.

The Process Behind **Aluminum Casting**

At **Alcast Company**, we follow a meticulous process that ensures every casting meets the highest standards. Our team of skilled engineers and technicians uses permanent mold techniques to create aluminum castings that are not only precise but also durable. Let's take a closer look at how we bring your aluminum parts to life.

Permanent Mold Casting: A Step Towards Perfection

Permanent mold casting involves pouring molten aluminum into a mold that can be reused multiple times. This technique is ideal for producing high-quality, precise castings. Our foundry is equipped with state-of-the-art machinery to handle aluminum pours up to 220 pounds, giving us the flexibility to produce both small and large volumes.



Alcast Company's Capabilities in the **Aluminum Casting Foundry**

With over 278,000 square feet of manufacturing space, Alcast Company has the capacity to handle a wide range of casting projects. Whether you need a single custom piece or thousands of identical castings, we are equipped to meet your needs.

Precision and Customization at Its Best

At Alcast, we understand that no two projects are the same. That's why we offer customization options to ensure that your aluminum castings fit your exact specifications. Our in-house CNC machine shop allows us to provide additional machining services, ensuring your castings are perfectly shaped, balanced, and ready for assembly.

Our **Aluminum Casting** Services at a Glance

Alcast Company provides a full range of services that cater to various industries. From automotive and aerospace to manufacturing, our **aluminum foundry** ensures that we meet the unique needs of each sector. Below are the core services we offer:

High-Volume Casting

If you need large quantities of aluminum castings, we've got you covered. With the ability to produce over 500,000 pieces annually, Alcast Company can meet even the most demanding production schedules.

One-Pound Castings

On the other hand, we also specialize in producing smaller quantities, such as one-pound aluminum castings. These are ideal for industries requiring precision in smaller components, such as electronics or medical devices.

Innovative Solutions at Our **Aluminum Casting Foundry**

Innovation is key in today's manufacturing world. At Alcast, we strive to push the boundaries of **aluminum casting** by integrating the latest technologies into our processes. Our permanent mold tilt pour machines and heat treatment processes ensure that our castings are of the highest quality.

Advanced Heat Treatment for Superior Strength

Once the aluminum is cast, it's essential to treat it correctly to ensure it meets performance standards. We employ advanced heat treatment techniques to strengthen the aluminum, giving it superior durability and resistance to wear and tear.

Why Alcast Company is Your Ideal **Aluminum Casting Manufacturer**

When it comes to choosing an **aluminum casting company**, you want a partner you can trust. Alcast Company brings over 50 years of experience, cutting-edge technology, and a commitment to quality in every project we take on. We offer:

- Precision aluminum castings tailored to your needs
- High-volume production capabilities
- In-house machining and finishing services
- Competitive pricing without compromising quality

Location and Contact Information

Alcast Company is located in the heart of Peoria, Illinois, offering easy access to clients across the United States. With a dedicated team and state-of-the-art facilities, we are well-equipped to serve your **aluminum casting** needs. Need a quote or more information?

Contact Alcast Company Today!

If you're ready to take your manufacturing process to the next level with high-quality **aluminum castings**, don't hesitate to contact us today. Our team is here to provide expert advice, answer any questions, and help you with all your aluminum casting needs. Visit our website at [Alcast Company](#) for more details or give us a call at (309) 692-0047. Let's create something amazing together!