



ERMAK
FOUNDRY & MACHINING

PATRIOT 
FOUNDRY & CASTINGS
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952-448-2801 | ermak.com | patriotfoundry.com

NEW CASTING

4 to 16 Weeks

▼ Info

- Designs/DWGs
- Application
- Budget
- Timeline
- Tolerances/Specs

▼ Options

- Tooling/Fixtures
- Manufacturability
- Optimization
- Price Trade-offs

▼ Prototypes

Create functional or non-functional prototypes as needed

- 3D Plastic
- 3D Sand
- Machine-welded Part

▼ Tooling

▼ First Articles

- Provide Parts
- Discuss Results
- Modify as Needed

▼ Production

- Agree on Lead Time
- Expedite as Needed
- Discuss Inventory

▼ Optimization

- Cost/Lead Time Improvement
- Quality Improvement
- Weekly Update Open Orders

Whether you have a sketch on a cocktail napkin or a 3D CAD model, we'll walk through the steps to take your new product from concept through production.

What We Do

Pour molten metal into a prepared mold, allow it to cool, then extract the product. Depending on the metal used and the required outcome, we'll use either sand or permanent mold casting and finish the product as specified.

Casting Methods

- Green Sand
- No-bake/Air Set
- Permanent Mold/Gravity-fed Die-cast

Alloys

- 319
- 333
- A356
- 535
- 713
- A242
- C905
- C958
- C955
- C863
- C876
- C865
- ZA12
- ZA27
- Many More

How We Do It

Casting Analysis

- Cost Saving Options
- Assembly/Weldment Conversions

Reverse Engineering

- Replicate Part Using 3D Scanning Technology
- Analyze Chemical and Metallographic Characteristics

Equipment

- Automatic & Manual Molding Machines
- CNCs & Finishing Equipment
- Milling
- Turning
- Heat Treat
- Core Making
- Sand Controls
- Jolt Squeezers
- 3161/3191 Rotolifts
- Plating
- Painting
- Assembly

EXISTING CASTING

2 to 10 Weeks

▼ Info

- Pattern/Die Details
- Cores
- Quantities
- Weight & Dimensions
- Existing Quality

▼ Options

- Casting Process
- Lead Time
- Price Trade-offs
- Manufacturing Process

▼ Tooling

▼ First Articles

- Provide Parts
- Discuss Results
- Modify as Needed

▼ Production

- Agree on Lead Time
- Expedite as Needed
- Discuss Inventory

▼ Optimization

- Cost/Lead Time Improvement
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If you need to move from foundries domestically or internationally, we will discuss the existing details and get you up and running quickly and painlessly.



Industries

- Infrastructure
- Sports & Recreation
- Transportation
- Medical
- Auto/Racing
- Hydraulics
- Packaging
- Metrology
- Aerospace
- Explosion Proof
- DoD
- Pressure Tight
- Plumbing
- Food/Ag
- Many More

Who We Are

We manufacture non-ferrous parts and products in state-of-the-art foundries that support and serve large geographic regions with a local presence.

Our engineers specialize in producing world-class castings of bronze, aluminum, and copper-based alloys. Our proprietary product development methods are key in keeping quality, cost, and scalability at the forefront. To guarantee the best possible customer experience, we consistently upgrade our equipment and continue to grow our experienced team.

Whether you need one piece or thousands, look no further than our Foundries!

Call 952-448-2801



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