# **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

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.

- Quality Improvement
- Weekly Update Open Orders

# 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**

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

# How We Do It

## **Casting Analysis**

- Cost Saving Options
- Assembly/Weldment Conversions

## **Reverse Engineering**

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

#### **Equipment**

Automatic & Manual
Core Making

**Molding Machines**  Sand Controls CNCs & Finishing Jolt Squeezers

- 3161/3191 Rotolifts Equipment Plating Milling

 Turning Painting

 Heat Treat 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

Weekly Update Open Orders

Quality Improvement

# **Industries**

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.

Hydraulics

DoD

 Pressure Tight Plumbing

Medical

Food/Ag



Infrastructure

Sports & Recreation - Packaging

 Metrology Aerospace

Many More

Transportation

 Auto/Racing Explosion Proof

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