



Aluminum Castings
A Quality Provider

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1 Casting Capabilities

Modern, Automated Molding Systems

Multi-Cast Corporation has manufactured high quality, non-ferrous castings since 1946. Multi-Cast's two modern, automated molding systems and its traditional floor and squeezer molding lines allow it to offer its customers high or low volume, large and complex or small and simple castings.



Industries Served

- Pumps and Valves
- Railroad Signaling Equipment
- Industrial
- Medical
- Government
- and others.

Multi-Cast Corporation has the ability to produce...

- High quality, non-ferrous **Aluminum** castings
- Wide range of **Brass and Bronze** castings
- **High or Low volume**
- **Large and Complex** castings
- **Small and Simple** castings

Metals Chart

Alloy	Castability	Machinability	Weldability	Chemical Conversion	Mechanical Finishing	Anodizing	Corrosion Resistance	Temper
319	Very Good	Good	Good	Very Good	Fair	Fair	Good	F,T6
356	Excellent	Good	Excellent	Very Good	Good	Fair	Very Good	F,T51,T6,T71
355	Excellent	Good	Excellent	Very Good	Good	Fair	Good	T51,T6,T71
712	Good	Excellent	Fair	Very Good	Good	Very Good	Good	F
535	Fair	Excellent	Good	N/A	Fair	Excellent	Excellent	F
357	Excellent	Fair	Excellent	Very Good	Good	Fair	Very Good	T6
850	Fair-Poor	Excellent	Fair	N/A	Very Good	N/A	Good	T5
359	Excellent	Good	Excellent	Very Good	Good	Fair	Excellent	T62

Factory Facilities

Green Sand:

HMP 20 Automatic Molding Machine

20" x 24" Flask
8" cope over 7" drag
70-110 molds per hour

HMP 30 Automatic Molding Machine

24" x 30" Flask
12" cope over 11" drag
40-90 molds per hour

Floor Molding

Flask Sizes from 14" x 24" to 72" x 126"

Osborne Rotolift (2)

Flask Sizes:
18" x 28"
24" x 28"
24" x 38"

Cope and Drag Jolt Rollover

Flask Sizes:
Up to 40" x 50"

Core Room:

Shell Core

- (1) Dependable Fordath for boxes 14 " x 17 "
- (1) Redford #16 for boxes 16 " x 16 "
- (1) Redford #22 for boxes 22 " x 25 "

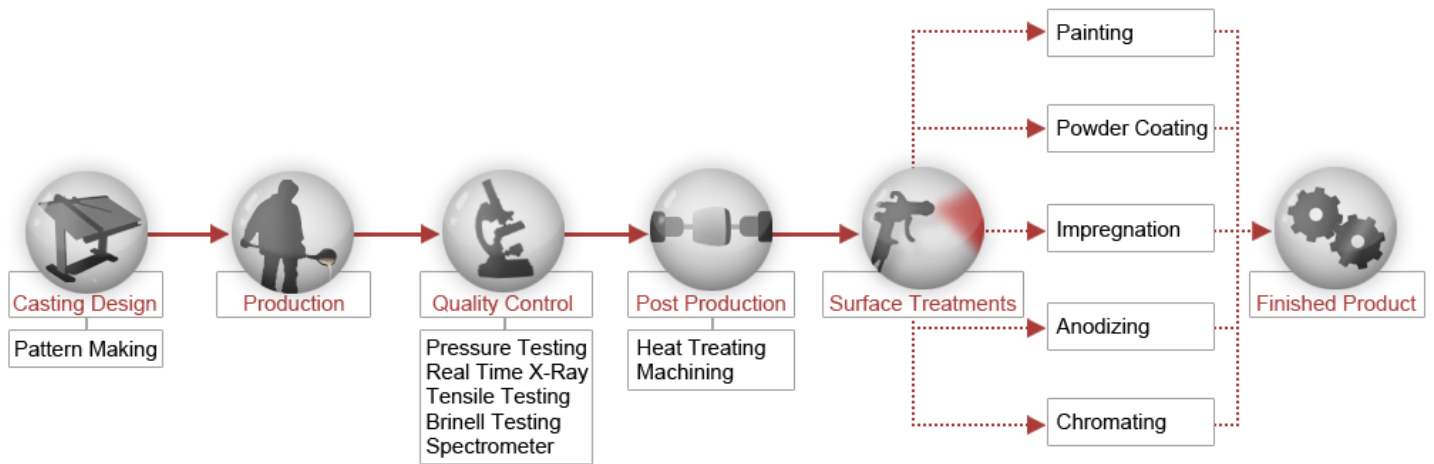
Cold Box

- (1) Redford #22 for boxes 19 " x 48 "
- (1) Redford #16 for boxes 16 " x 16 "
- (1) Gaylord for boxes 13 " x 16 "

No Bake:

- (1) Strong- Scott mixer - 200 lbs. per minute for molding or core making.

2 Value-Added Services



...Minimize Your Costs

From a purchasing manager's perspective, the procurement of a manufactured product that requires multiple suppliers to craft the finished goods, can become an unanticipated and expensive venture that may take you outside your purchasing budget and quality requirements.

Purchasing Costs & Risks

Beyond the immediate cost and risk issues involving multiple or sequential suppliers, the more mundane issues of sourcing, negotiating, tracking, coordinating, accounting and transporting goods between suppliers can multiply rapidly and expand the cost and effort quite significantly.

Total Costs Of Procurement

Our goal at Multi-Cast is to reduce your total cost of procurement and create a satisfying purchasing experience that minimizes the effort of purchasing, improves the quality of the finished result and makes your job of purchasing castings a "one-stop" affair.

We do this by integrating all manufacturing steps into a single coordinated process that is driven and managed by Multi-Cast with a single point of communication and accountability to you. Simple, easy, lower cost!

State of the Art Info Systems

When you place an order you can be certain that you will receive just what you need because we have structured our entire firm including our information systems to meet those needs. Beyond fair pricing and on-time delivery, we also offer payment discounts, freight discounts, just-in-time delivery, kanban stocking systems and online access to our "state of the art" information system that will provide you with the status of your open orders and the lead time for your products. Being able to look online will minimize your efforts and help you communicate with your business sponsors making them your satisfied clients.

A Single Source Solution

From the design of the casting, to pattern making, through production, and then on to additional value-add services we focus on long-lasting relationships with our customers and a quality experience for the purchasing manager that will minimize their time, cost and effort. In short, we look forward to making Multi-Cast the single and preferred source for all your casting needs...one, where you will want to come back time and time again.

Design and Engineering

Multi-Cast Corporation focuses on design flexibility, change management, quality processes and on-time delivery. Thoughtful engineering and design, computer aided design technology, quality control and operations, superior patterns, state-of-the-art test equipment are all part of your Multi-Cast Experience.

Single source supplier, reduce your costs with Multi-Cast.

We take responsibility and manage your project to closure.

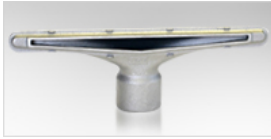
- Pattern making
- Metallurgical testing
- Heat-treating
- Machining
- Anodizing
- Painting
- Polishing
- Powder coating

3 Product Examples that Multi-Cast Corporation has casted.



Aluminum 1

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Aluminum 2

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Aluminum 3

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Brass 4

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4 Company History

Multi-Cast was founded by the Metzger family in 1946 and since then we have been producing high quality castings for a variety of applications.

The techniques we used in those early years would hardly be recognized in our plant today. Today's methods are a product of yesterday's observations. Our understanding of tooling design, gating, molding, and melting practices have been expanded by the review of thousands of x-ray film and metallurgical test results.

The application of new technology is a continuous part of our commitment to meeting the casting needs of our customers and has led to several expansions and upgrades of our manufacturing capabilities. We have built a tradition of excellence and we dedicate all of our resources and unsurpassed personnel to ensure a quality product.

Multi-Cast Quality Process

- Analysis of incoming aluminum ingot
- Production heats are carefully checked with a spectrometer.
- Conformance to specifications is confirmed before a single pound of metal is cast.

Real Time X-Ray

- Castings begin with real time x-ray equipment.
- With this equipment, the operator can manipulate a casting and vary the level of radiation while viewing its x-ray image on a high resolution monitor.
- This inspection capability provides production personnel with prompt feedback aiding in the manufacturing of defect-free castings.

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