



LIBERTY CAST
Best in Cast

NON-FERROUS SAND CASTING FOUNDRY

LOW-VOLUME CASTINGS • LARGE POURS • TURNKEY SUPPORT



**Newport News
Shipbuilding**
A Division of HII
APPROVED SUPPLIER



CAPABILITY STATEMENT

35705 Beattie Drive
Sterling Heights, MI 48312

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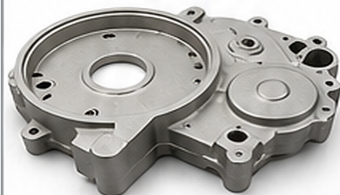
Liberty Cast Products is a non-ferrous sand casting foundry specializing in prototype and low-volume production of high-quality aluminum, brass, bronze, copper and copper-base alloys. From melt-to-pour to machining and assembly, we deliver complete, turnkey solutions with speed, precision and full transparency. Our mission is simple: deliver complex castings right, on time, and built to perform. We are a trusted supplier to defense, aerospace, automotive and industrial OEMs where quality and reliability are mission critical.

CASTING CAPACITY

2,500 lb **1,000 lb**
ALUMINUM COPPER-BASE

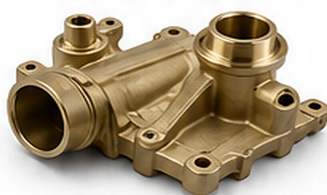
Airset Gravity Sand Casting
Induction & Gas Melting Furnaces
Certified Ingot Melt-to-Pour Process

ALUMINUM



A356, A357, A319, A355
535, 713, 206 and more

BRASS & BRONZE



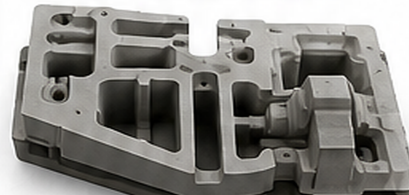
C95400, C95500, C95800
C92200, C93200, C86300
C96200, C96400 and more

COPPER ALLOYS



C11000, C81000, C81500,
C82200, C82500, C82800
and more

3D-PRINTED MOLDS



Fast tooling • Complex geometries
Reduced lead times & costs

CORE COMPETENCIES

- ✓ Certified ingot melt-to-pour process
- ✓ On-site OES spectrometer & metallurgist
- ✓ 3D-printed sand molds
- ✓ REN, wood & Styrofoam tooling
- ✓ Reverse engineering & dimensional inspection
- ✓ Solidification & flow modeling
- ✓ Non-destructive testing coordination
- ✓ Machining, assembly & heat treating
- ✓ White-light dimensional inspection
- ✓ Local delivery & real-time WIP portals

DIFFERENTIATORS



SPECIALIZING IN PROTOTYPE & LOW VOLUME

No minimum lot or casting setup charge.
<10 lbs to 1,000/month • >50 lb to <50/month



BASIC CAD MODELING

Create or modify CAD models for patterns, fixturing, and casting reviews.



SPEED & RESPONSIVENESS

Example: Reverse engineered damaged impeller with NO prints—pattern in 1 day, replacement casting in 2 days.



QUALITY & TRACEABILITY

ISO 9001:2015 certified processes, OES verification on every melt, and full material traceability.



EXPERIENCED TEAM

On-site metallurgist and skilled craftspeople delivering castings that meet the most demanding specifications.



TRANSPARENCY & COMMUNICATION

Custom real-time WIP portals provide complete visibility from order to delivery.

CODES & COMPLIANCE

CAGE: 7NSQ7

NAICS 331524

Aluminum Foundries (except Die-Casting)

NAICS 331529

Other Nonferrous Metal Foundries (except Die-Casting)

QUALITY & PROGRAM STATUS

- ISO 9001:2015 Certified
- JCP Certified
- Newport News Shipbuilding Approved Supplier

NIST | CMMC COMPLIANCE

NIST SP 800-171 Rev. 2

Protecting Controlled Unclassified Information in Nonfederal Systems and Organizations

IMPLEMENTATION PROGRESS

107 / 110 requirements implemented

Final 3 requirements pending validation / closeout.
CMMC Level 2 readiness activities ongoing.

PROTOTYPE & LOW-VOLUME FOCUS

PROTOTYPE & LOW-VOLUME SPECIALIST

No minimum lot or casting setup charge.

BASIC CAD MODELING

Create or modify basic CAD models for patterns, tooling, fixtures and casting review.

REVERSE ENGINEERING

Support from existing parts when drawings or models are incomplete or unavailable.

RESPONSIVE EXECUTION

Short-run programs supported from concept through casting, machining and assembly.

TURNKEY SUPPORT



Melt-to-Pour
Casting



NDT
Coordination



Machining &
Assembly



Dimensional
Inspection



Heat Treating



Packaging &
Local Delivery

FACILITY & COMPANY

- 13,500 sq. ft. facility in Sterling Heights, MI
- Incorporated 2005
- 18 skilled employees | 1 shift
- Serving Defense, Aerospace, Automotive & Industrial OEMs

COMPLEX CASTINGS. REAL SOLUTIONS. DELIVERED. BEST IN CAST.