

# One Source Providing Extensive Engineering/Manufacturing Capabilities



## Casting Process: Low Pressure

Used for large volume quantities. Specifically suited for intricate and challenging geometric shapes, producing quality castings with consistent dimensional accuracy and superior surface finish.

**Alloy:** Aluminum (only)

**Tooling:** Requires a Steel or Cast Iron Permanent Mold

**Machining:** Minimum to no machining

**Weight Capacity:** Up to 150 pounds depending on shape



## Casting Process: Tilt-Pour Gravity Feed

Used extensively for medium to high volume quantities. Will accommodate simple to some irregular shape castings, producing good dimensional accuracy and surface finish.

**Alloy:** Aluminum (only)

**Tooling:** Requires a Steel or Cast Iron Permanent Mold

**Machining:** Moderate to Extensive

**Weight Capacity:** Up to 150 pounds depending on shape

## Casting Process: No-Bake Sand Molds

Used for lower volume quantities, prototypes, very large irregular shapes and thermal platens.

**Alloys:** Aluminum, Brass, Bronze and Iron

**Tooling:** Requires a Wood or Plastic Pattern

**Machining:** Extensive

**Weight Capacity:** Up to 600 pounds



## Melting Capabilities

- Electric Reverb and Induction furnaces are used to minimize gas inclusion into the molten metal, thereby producing a denser, higher quality casting.

## CNC Machining

There are certain dimensional and/or finish tolerances or geometry that cannot be produced as cast and must be machined. Tempco offers a full service state-of-the-art machine shop featuring various types of CNC machine tools to perform all of the precision machining required—from simple to complex contour geometries, including turning and/or boring, with repeatable accuracy from one machined casting to the next. Machinists also build and maintain permanent mold tooling for the low pressure and tilt-pour gravity feed casting processes.



## CMM Inspection

Coordinate Measuring Machine provides precise measurement of complex parts in process or at final inspection.



**No one can do it  
better than Tempco –  
LET US PROVE IT!**

## Pattern Shop

Tempco has an in-house Pattern Shop to build and maintain the wood or plastic patterns required to produce castings with no-bake sand molds.

