Tulsa Centrifugal Casting Machines, established by the leading Centrifugal Casting Specialists in North America having more than 30 years experience in Machinery Design, Consulting, and Manufacturing of all types of Vertical, Horizontal, and Custom Built Centrifugal Casting machines. We also manufacture permanent steel molds for all types of Horizontal and Vertical axis machines.

Types of castings produced by Centrifugal Casting Machines
- Babbitt Bearings, relining and new
- Steel Mill Rolls, Coal Pulverizer Rolls
- Automotive and Diesel Cylinder Liners (engine sleeves)
- Ferrous and Non-Ferrous tubes, bushings and bearings
- Piston Rings and Sealing Rings
- Bi-Metallic Rolls
- Pipe, Radiant and Reformer Tubes
- Cast Iron Soil Pipe
- Corrosion resistant castings including spherical balls for ball valves

Horizontal Axis Machines
- Model 5K
- Model 10K
- Model 15K
- Model 30K
- Model 50K
- Model 100K

Ancillary Equipment and Parts
- Rated Lifting Tongs
- Spray Equipment
- Centrifugal Mold Wash
- Permanent Steel Molds

Vertical Portable Centrifugal Casting Machines
- VP 500
- VP 1000
- VP 1200

Babbitt Lining Machines
- HCBLM-12
- HCBLM-16
- HCBLM-24
- HCBLM-30
- HCBLM-36
- HCBLM-46

Technical Notes

Vertical Axis Machines
- Model V3K
- Model V5K
- Model V10K
- Model V30K
- Model V50K

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USA
Model VP500 Specifications
Maximum Mold Diameter: 20” [508 mm]
Maximum Casting Diameter: 16” [406 mm]
Maximum Mold Height: 12” [305 mm]
Maximum Casting Height: 10” [254 mm]
Load Rating: 500 lbs [227 kgs]

Model VP1000 Specifications
Maximum Mold Diameter: 24” [610 mm]
Maximum Casting Diameter: 20” [508 mm]
Maximum Mold Height: 14” [356 mm]
Maximum Casting Height: 12” [305 mm]
Load Rating: 1000 lbs [454 kgs]

Model VP1200 Specifications
Maximum Mold Diameter: 30” [762 mm]
Maximum Casting Diameter: 24” [610 mm]
Maximum Mold Height: 16” [406 mm]
Maximum Casting Height: 14” [356 mm]
Load Rating: 1200 lbs [544 kgs]
Vertical axis centrifugal casting machines provide the greatest degree of casting configurations that are capable of producing True Centrifugal, Semi-Centrifugal, and Centrifuge or pressure castings.

The larger machines should be installed in a pit below floor level as this allows for the greatest degree of safety for the operating personnel.

**STANDARD MACHINE SIZE AND CAPACITIES**

**Model V3K**

*Specifications*
- Maximum Mold Diameter: 54” [1372 mm]
- Maximum Casting Diameter: 48” [1219 mm]
- Maximum Mold Height: 36” [914 mm]
- Load Rating: 3,000 lbs [1361 kgs]

**Model V5K**

*Specifications*
- Maximum Mold Diameter: 66” [1676 mm]
- Maximum Casting Diameter: 60” [1524 mm]
- Maximum Mold Height: 42” [1067 mm]
- Load Rating: 5,000 lbs [2268 kgs]

**Model V10K**

*Specifications*
- Maximum Mold Diameter: 78” [1981 mm]
- Maximum Casting Diameter: 72” [1829 mm]
- Maximum Mold Height: 48” [1219 mm]
- Load Rating: 10,000 lbs [4536 kgs]

**Model V30K**

*Specifications*
- Maximum Mold Diameter: 114” [2896 mm]
- Maximum Casting Diameter: 108” [2743 mm]
- Maximum Mold Height: 60” [1524 mm]
- Load Rating: 30,000 lbs [13608 kgs]

*LARGER MACHINES AVAILABLE*
Standard Features for all 5KS & T Series:

- Electronically controlled drive unit (Variable speed for “T” series)
- Drive Controller as required
- Operators Control Stand for “T” series
- Disconnect for “S” series
- Solenoid operated mold water cooling manifold
- Air/Gas mixing tee assembly with mold heater manifold
- Runner Pot
- Protective Water Guard
- Extractor tongs-manual
- Manual Spray Lance Assembly
- Centrifugal Mold wash sample
- Operators Manual

<table>
<thead>
<tr>
<th>Model 5K12S Specifications</th>
<th>Model 5K24S Specifications</th>
<th>Model 5K36S Specifications</th>
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<tr>
<td>Maximum Casting Dia: 10” [254 mm]</td>
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<tr>
<td>Maximum Casting Length: 24” [610 mm]</td>
<td>Maximum Casting Length: 48” [1219 mm]</td>
<td>Maximum Casting Length: 60” [1524 mm]</td>
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<thead>
<tr>
<th>Model 5K12T Specifications</th>
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<th>Model 5K36T Specifications</th>
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<tbody>
<tr>
<td>Maximum Casting Dia: 16” [406 mm]</td>
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<tr>
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<td>Maximum Casting Length: 60” [1524 mm]</td>
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<thead>
<tr>
<th>Model 10K Series Specifications</th>
<th>Model 30K Series Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Casting Dia: 18” [457 mm]</td>
<td>Maximum Casting Dia: 32” [813 mm]</td>
</tr>
<tr>
<td>Minimum Casting Dia: 3” [76 mm]</td>
<td>Minimum Casting Dia: 4” [101 mm]</td>
</tr>
<tr>
<td>Maximum Casting Length: 212” [5384 mm]</td>
<td>Maximum Casting Length: 240” [6096 mm]</td>
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</tbody>
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<tr>
<th>Model 15K Series Specifications</th>
<th>Model 50K Series Specifications</th>
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<tbody>
<tr>
<td>Maximum Casting Dia: 28” [711 mm]</td>
<td>Maximum Casting Dia: 38” [965 mm]</td>
</tr>
<tr>
<td>Minimum Casting Dia: 4” [101 mm]</td>
<td>Minimum Casting Dia: 10” [254 mm]</td>
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<tr>
<td>Maximum Casting Length: 240” [6096 mm]</td>
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</table>
Horizontal Centrifugal Babbitt Lining machines for the production new or the re-babbitting of shaft lined bearings, turbine bearings, generator bearings, and rail road bearings.

Ferrous or Non Ferrous backing material, single piece or split shell type bearings in sizes ranging from 3” - 46” [75—1168 mm]. Low profile for ease in loading of bearing shells and set up of fixtures.

**Standard Features:**
- Variable Speed Drive Unit
- Operators remote control station
- Bearing Shell Cooling Assembly
- Pneumatic Clamping with safety interlock valve
- Protective Covers
- Air Filter Regulator for adjustable clamping pressure

**STANDARD MACHINE SIZE AND CAPACITIES**

**Model HCBLM-12**

- **Specifications**
  - Maximum Bearing Diameter: 12” [305 mm]
  - Maximum Bearing Length: 12” [305 mm]
  - Minimum Bearing Bore: 3” [76 mm]
  - Load Rating: 300 lbs [136 kgs]

**Model HCBLM-24**

- **Specifications**
  - Maximum Bearing Diameter: 24” [610 mm]
  - Maximum Bearing Length: 24” [610 mm]
  - Minimum Bearing Bore: 3” [76 mm]
  - Load Rating: 600 lbs [272 kgs]

**Model HCBLM-30**

- **Specifications**
  - Maximum Bearing Diameter: 30” [762 mm]
  - Maximum Bearing Length: 30” [762 mm]
  - Minimum Bearing Bore: 3” [76 mm]
  - Load Rating: 900 lbs [408 kgs]

**Model HCBLM-36**

- **Specifications**
  - Maximum Bearing Diameter: 36” [914 mm]
  - Maximum Bearing Length: 36” [914 mm]
  - Minimum Bearing Bore: 3” [76 mm]
  - Load Rating: 900 lbs [408 kgs]

**Model HCBLM-46**

- **Specifications**
  - Maximum Bearing Diameter: 46” [1168 mm]
  - Maximum Bearing Length: 36” [914 mm]
  - Minimum Bearing Bore: 3” [76 mm]
  - Load Rating: 1200 lbs [544 kgs]
Crane Scales for the accurate measurement of molten metal when pouring centrifugal castings. Variety of models available from 500 lbs to several tons.

Infra Red Temperature measuring device for measuring mold temperature for readings up to 750 Deg. F

Horizontal and Vertical Permanent steel molds complete with end plates and hardware.

Semi Automatic Spray equipment for spraying mold bores with centrifugal mold wash. Various models available.

Rated Lift Tongs from a few pounds to several tons.
In order for Tulsa Centrifugal Casting Machines to provide a proposal, we request that the following information be provided

1. Range of Casting Sizes: (inches or mm)
   - Outside Diameters: from______________ to ________________
   - Inside Diameters: from______________ to ________________
   - Overall Lengths: from______________ to ________________

2. Type of molten metal to be poured_____________________________

3. Is Molten metal continuously available during the work hours_____________________

4. Quantity of castings required per week___________________________

5. Work hours available per week_________________________________