Casting
Sand Casting

- Ladle
- Molten Metal
- Open Riser
- Riser
- Pouring Cup
- Sprue
- Cope
- Drag
- Core
- Casting
- Chaplet
- Gate
- Runner
- Flask
- Parting Line
Sand Casting
Shell Casting

**Shell-Making (Cross-section)**
- Clamp
- Dump box
- Sand-resin mixture
- Heated pattern
- Shell

**Shell Mold Casting (Cross-section)**
- Molten metal
- Ladle
- Ejector pin
- Shell mold Casting
- Backing material
- Flask

**Casting**
- Finished casting

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Investment (Lost-Wax) Casting

Keys to the City
Old City, Philadelphia, PA
Investment (Lost-Wax) Casting

Pattern Tree  Shell-Making  Investment Casting  Casting

Runner  Ceramic shell  Molten metal  Finished casting

Sprue  Wax gating system  Flask  Hollow ceramic shell  Wax patterns

Ceramic slurry
Investment (Lost-Wax) Casting
Lost Foam Casting
Permanent-Mold Casting
Permanent-Mold Casting
Die Casting
Die Casting

Material cools in mold
Spin Casting
Continuous Casting
Continuous Casting
Powder Metallurgy
Rolling
Rolling
Rolling
Forging
Forging
Forging
Smithing
Extrusion
Extrusion
Extrusion
Pressing, Punching, and Stamping
Spinning
Spinning
Spinning
Shearing
Bending
Bending