

# 8 Metal Forming And Cast Metal Technology

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8 Metal Forming And Cast Forming • A production method, to have the required shape of product through a deformation process without material losses (chip formation).

- Forming process could be: Hot forming: for hard and high strength materials.
- Cold forming: for soft and ductile materials.
- Forming results in improving metallurgical and mechanical properties (strength, toughness, hardness, & mldr; & mldr;).

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crucible) that contains a negative impression (i.e., a three-dimensional negative image) of the intended shape. The metal is poured into the mold through a

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...In metalworking and jewellery making, casting is a process in which a liquid metal is somehow delivered into a mold (usually by a crucible) that contains a negative impression (i.e., a three-dimensional negative image) of the intended shape. The metal is poured into the mold through a hollow channel called a sprue. The metal and mold are then cooled, and the metal part (the casting) is extracted. Casting (metalworking) - Wikipedia

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Liquid metal is poured into a mold cavity that matches the shape and size of the part. The production method that waits for it to cool and solidify to obtain the blank or part is usually called metal liquid forming or casting. Technological process: liquid metal → filling → solidification shrinkage → casting

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This casting method can be used with aluminum, bronze, cast iron, steel, and magnesium alloys and is best for casting metals with intricate detail or complex designs. This casting method will require molten metal, a metal die, wax, ceramic slurry, furnace, and a machine for grinding, cutting, or blasting. Spin Casting/Centrifugal Casting

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