

## DIE CASTING

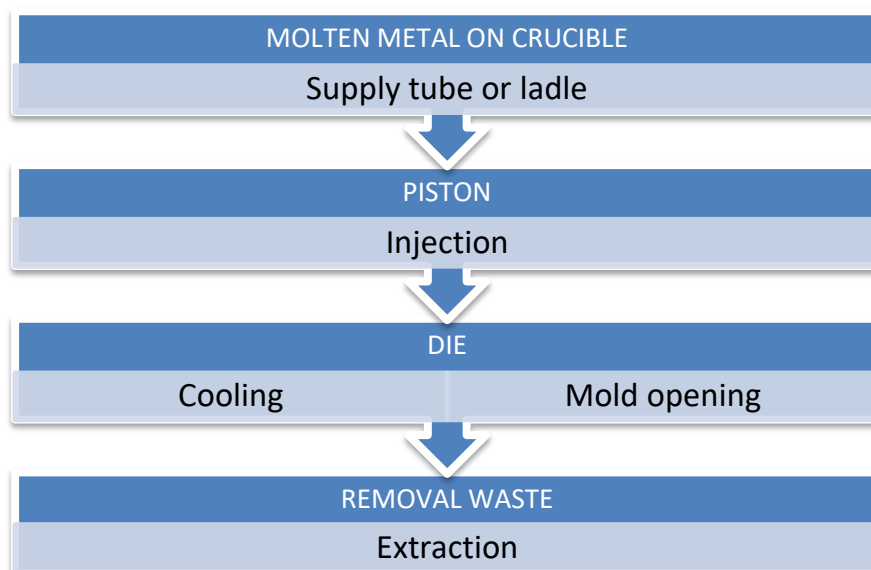
**Gestión de Compras** have the means to get the parts manufactured by die-casting. We offer the most competitive products because we work with all materials and alloys and a wide range of processes: cold chamber casting hot chamber casting, etc ...

### PROCESS:

Die casting is a manufacturing process using large pressure to force the molten metal from the crucible, to the injection covering. After, hydraulic piston injects the molten metal to preformed mold (die). Once solidified the material, the piece is removed out of the mold. This process is used to produce whole parts or ingot.

Sometimes further treatments are necessities after the die-casting in function of the casting or the metal we use: rough down the excess material casting, surface cleaning, heat treatment, machining, etc.

Our part is characterized by high uniformity, good surface finish and high dimensional accuracy. The dimensions of the parts can change in function of the requirement: Weights range from a few grams of the smaller pieces to several tons. We can obtain parts with extremely thin walled. In fact, most of the pieces don't need final machining process or only need a very light machining.



## PRODUCTION:

In **Gestión de Compras** we are professionals in a wide range of die-casting products.

We also have the versatility for get parts of products from drawings.

We have the support of factories equipped with all necessary tools to produce the desire products at the best price. Starting from the melting of material, injection, solidification and removal of the finished parts. We can ensure the treatments if they are necessities in some parts.



Types of die casting:

- ✓ Hot chamber die casting: In this process the injection system is immersed in the molten metal in the crucible.
- ✓ Cold chamber die casting: In this process the material is fed form an external crucible to the injection covering where a hydraulically piston injects the metal in the mold.

In these two types of injection molding we have some variations:

- ✓ Low pressure die-casting
- ✓ Vacuum die-casting
- ✓ Pressed smelting
- ✓ Thixo-casting

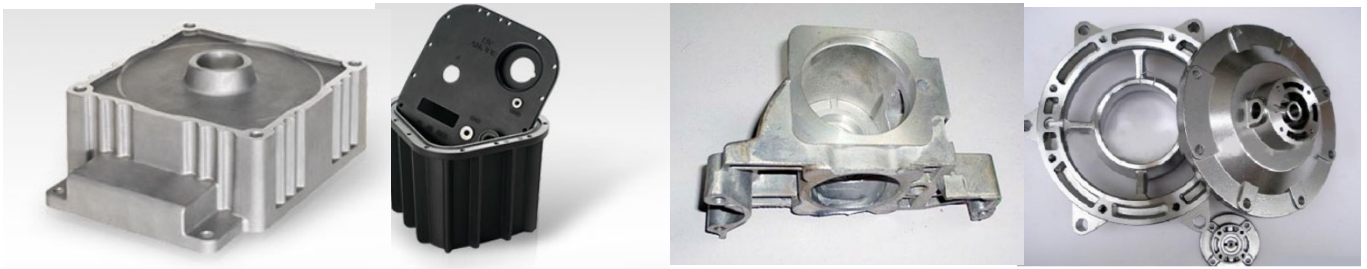
## MATERIALS AND PRODUCTS:

❖ We work with a wide range of materials:

- Grey iron casting
- Nodular cast iron
- All kinds of materials and non-ferrous alloys (aluminium, zinc, copper, lead).
- Polymer and ceramic slurry
- Examples: 42CrMo4 (titan silver surface optional), G-X6CrNi 189, X5CrNi 18-10 SR....

❖ Our main products:

- Automotive parts and machinery (clutches, gear boxes...)
- Valves, pipes and pipe fittings.
- Parts for gasoline engines and air compressors
- Spare electrical and electronical.
- Parts for lifts
- Aluminum parts.
- Satellite receiver and miscellaneous
- In addition to CNC machining products obtained by casting.



## TOLERANCES:

Dimensional tolerance depends on design specification. We usually work with 0.127 mm (0.005 inch.) in high requirements and other pieces which don't need such a precise.

## STANDARD AND CERTIFICATES:

We have the means to ensure our products comply the general regulation and the specific certificated regulations in manufacturing products that requires them.

- ISO9001, TS16949 and ISO 14001.
- QS9000, AS9100.
- DIN 4766 for Surface roughness: N1, N2, N3 (precision tools, superfinishing bearings, polished surfaces), N4 (supports crankshafts and camshafts, hydraulic power cylinder, lapped bearings, drive reducer, etc), N5, N6 (gear, bronze bearing), N7, N8 (bolt and bearing),N8.
- DIN ISO 2768, DIN 1697, etc



## CONTACT:

In **Gestión de Compras** work with a wide range of customers from different sectors but have in common the search for products that suit your needs at the best Price and the guaranteed maximum quality. Check with us about any product. We have a qualified staff who will advise you.

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