

## LOST WAX CASTING

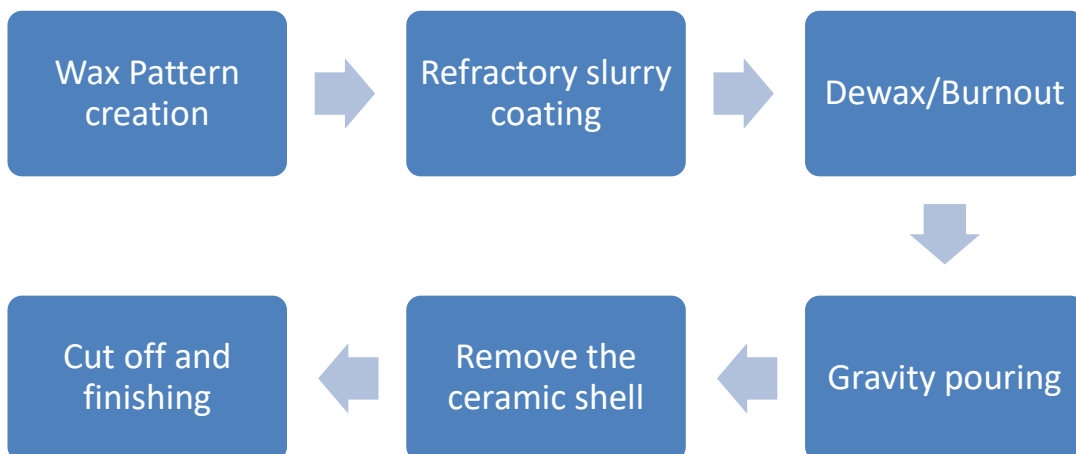
**Gestión de Compras** has the means to get the parts manufactured by lost wax casting. We offer the most competitive products because we work with all materials and alloys and with the highest precision.

### PROCESS:

**Gestión de Compras** has the means of production necessary for the manufacture of parts and items by Lost Wax Casting.

Lost Wax Casting (also called Investment casting or Precision casting) is one of the most ancient metal working method and its history dates back thousands of years but it came into use as a modern industrial process in the late 19th century.

The molten metal is poured into an expendable ceramic mold. The mold is formed by using a wax pattern (a disposable piece in the shape of the desired part). The pattern is surrounded, or "invested", into ceramic slurry that hardens into the mold, and then the wax model is melted and drained away. Lost-wax processes are one-to-one (one pattern creates one part), which increases production time relative to other casting processes. However, since the mold is destroyed during the process, parts with complex geometries and intricate details can be created.



The simplicity of the investment casting manufacturing process allows for high production rates and consistent dimensional accuracy so, it became the solution for many complex parts that are required in large quantities. Furthermore, with the advent of Rapid Prototyping or Free Form Fabrication technologies, investment casting has gained further attention, since expendable RP patterns can be used to produce a single casting within days starting from the digital definition.

### **PRODUCTION:**

In **Gestión de Compras** we are professionals in a wide range of investment casting products. We also have the versatility to get special parts of products from drawings. We have the support of factories equipped with all necessary tools to produce any products at the best price.

These companies are in charge of the entire process from the creation of the wax pattern to the machining required to remove products of the runners.

In the following images we can see the production lines of some of our suppliers:



### **MATERIALS AND PRODUCTS:**

Although all metals, ferrous as well as non-ferrous, can be casted by this process, it is especially suitable for small intricate parts of expensive or difficult to machine alloy. An advantage of investment casting is the ability to cast materials with high melting temperatures, including steel, nickel, and titanium.

Pieces made by this process find tremendous applications apart of jewelry and art, such as power generation, aircraft industries, automotive industries (engine parts, spinners and adaptors, brackets, manifolds...), machinery (turbine buckets, flanges, valves, impellers, casings, gears...), military metal parts (for tanks, trucks, jet engines, and other vital defense related components), shipbuilding industries, diary and medical industries.



## **STANDARD AND CERTIFICATES:**

Our factories have the most demanded certifications for customers to ensure product quality as:

- ISO 9001, TS 16949 and ISO 14001.
- EN 12883: Founding. Equipment for the production of lost patterns for the lost wax casting process.
- QS9000, AS9100.

Surface quality:

- DIN 4766

Tolerances:

- ISO 8062:2007, ISO 8062:1994 and SFSA 2003
- ISO 286-2
- ANSI B4.1
- DIN 2768, DIN 1697
- Others

If you use another standard not included in the above list please feel free to contact us and inquire about it.



### **CONTACT:**

In **Gestión de Compras** works 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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