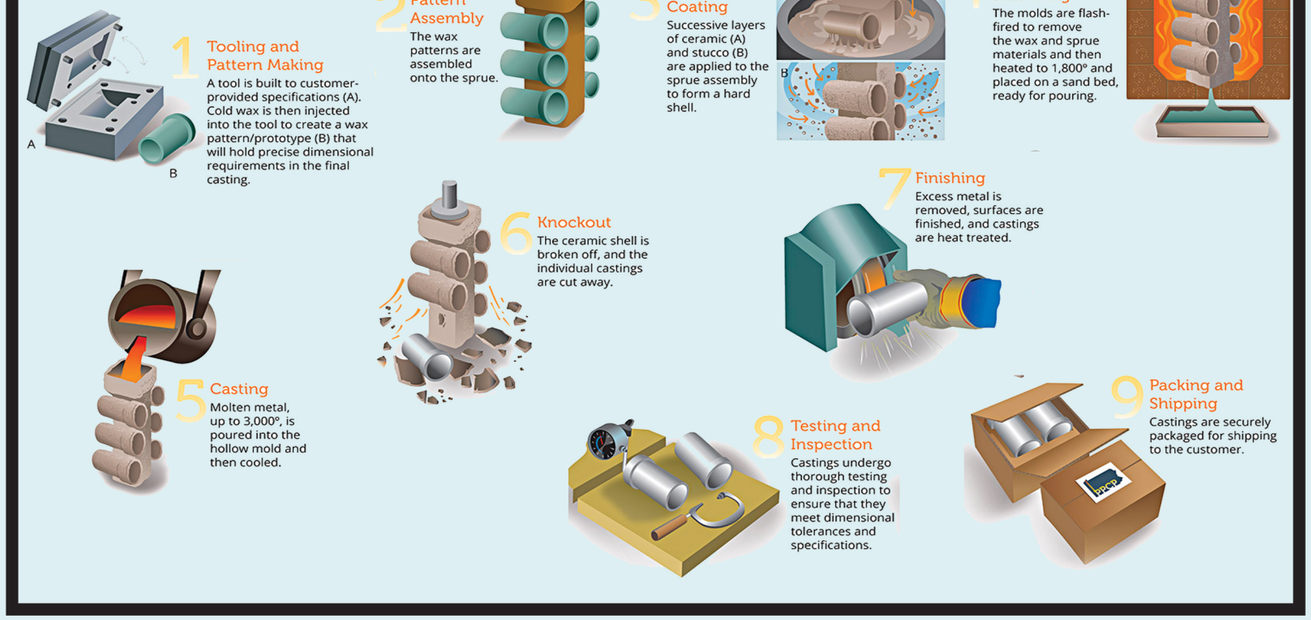
INVESTMENT CASTING

THE PROCESS



VOLUMES OF PRODUCTION

Volumes of production depend of the size of the object being casted. Its possible to have several hundred small parts on one tree, larger parts are cast with only one per tree.

This process allows for small runs of below a hundred as well as runs of up to tens of thousands.

TIME

The speed of investment casting is slow as it requires a number of steps to be completed for each component. Some parts can take weeks depending on the complexity.

POST PROCESSING

Burnishing
Electro-polishing
Hand polishing
Machining
Cold setting
Painting
Anodising
Black coating
Hot dip galvanizing
Zinc plating
Grain etching

DESIGN CONSIDERATIONS

You will need to look at the following when deciding to choose investment casting. Design complexity is one consideration, the process allows for you to cast intricate shapes and designs. although you can be limited to certain sizes.
Material selection is also a consideration, the process allows for ferrous and non-ferrous alloys. The process is much is also more expensive compared to processes such as die-casting.

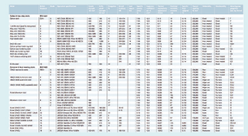
ABOUT

Investment casting is taken from the idea that the process involves investing or sacrificing a material to produce highly complex Shapes. Its been around for thousands of years dating back to ancient Egyptian times. its also know as lost-wax casting and items such as jewellery and large statues.

MATERIALS USED

Carbon
Stainless steel
Alloy Steels
Haynes
Incoloy
Inconel
Rene
Aluminum
Stainless Steel
Stellite
Super Alloys
Carbon Steels
Titanium
Carpenter 20
Molybdenum
Tool Steel
Monel
Tungsten
Nickel
Waspaloy
Hastelloy
Zirconium
Cobalt





COST

The cost of investment casting will depend of several factors, the main one being the tooling cost of the part being produced.

The weight of the part will have an impact on the cost, the more it weighs the more it will cost.

The type of material used in the process will also impact the cost. Some materials cost more to source and are generally more expensive than others.

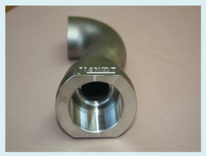
Quantity can also vary the cost, the higher volume ordered will obviously cost more.
You also have processes such as surface treatment which can add additional cost onto the total price.

SAMPLES & EXAMPLE PRODUCTS









SUPPLIERS

FERRALLOY
www.ferralloy.com/
salesmgr@ferralloy.com
440.250.1900

POLLYCAST LIMITED
www.polycast.co.uk
sales@polycast.ltd.uk
01489 885560

INVESTACAST
www.investacast.com
info@investacast.com
01271 866200

INVESTMENT CASTING – (CO NGLETON)
www.investmentcastings.co.uk/
info@investmentcastings.co.uk
01260 280181