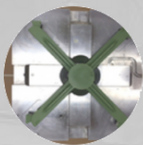


THE INVESTMENT CASTING PROCESS

STEP 1

CAST WAX MODEL



Create a wax model of casting part by using high-temperature wax.

STEP 2

ASSEMBLY



Attach the wax models to a gate or system. Multiple patterns are assembled for large quantity production.

STEP 3

SHELL BUILDING



Dip the system into ceramic, building up layers so it is thick enough. The shell is typically 3/8" thick.

STEP 4

DEWAXING



Melt the wax out of the cavity, leaving a hollow ceramic outer layer.

STEP 5

POURING & SOLIDIFICATION



Heat the cavity, to prevent shock of the metal, and pour the metal into the ceramic shell.

STEP 6

SAWING/CUTTING



The process of removing the casting from the runner system.

STEP 7

CUSTOMIZATION



Grind until the part meets specifications of original part. Some parts may require additional heat treating. Depending on tolerance requirements, some secondary machining might be required for proper function.

STEP 8

FINISH



Measure the new part using advanced tools to make sure the new part is an exact duplication of the original casting.

