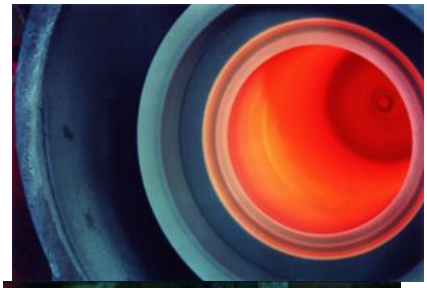
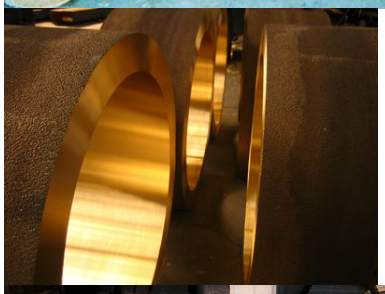
CENTRIFUGAL BRONZE





The Foundry Pagliotti F.lli S.r.l. is known by more than 40 years experience in the

specialization in the production of bronze castings produced by the method of **CENTRIF UGAL CASTING**

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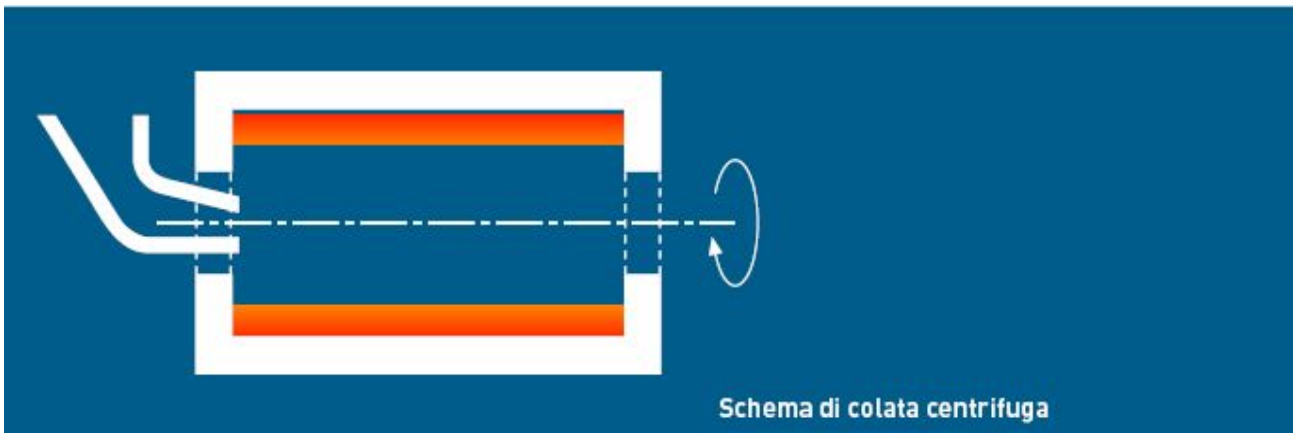
This type of casting, allows the obtaining of a solid structure of the alloy, compact, perfectly homogeneous and free of inclusions and blow molding. Ensures the creation of wear-resistant castings healthy and high mechanical strength.

In this particular method of casting, the molten metal is poured into the mold and then rotating pushed against the wall by a centrifugal force that exceeds 70 g. The correct amount of metal poured determines the desired thickness of the tube centrifuged.



The combined effects of centrifugal force and the progressive solidification under pressure metallostatic very high, leading to a fine grain structure, free of porosity and hence higher mechanical properties compared to castings obtained by traditional methods.

APPLICATIONS

The most common application of centrifugal casting is the construction of cylindrical guides. The task to withstand heavy loads exerted on the surface of the bushing, especially in those applications where the lack of lubrication is a serious risk, is so difficult to force to yield other types of bushing. On the other hand, the same requirements impose the use of bronze alloys of the best quality, and from this point of view the centrifugal casting is capable of giving decidedly advantageous characteristics as regards the structure and properties of materials, since for any composition higher the cooling rate, the better the response to damage.

Another application of this casting process is the production of worms (snail) of bronze. The significant resistance and mechanical characteristics for the operation of the gears to a more high speed and under more heavy loads.