

## COPPER-ALLOY CASTING

We offer economic technical solutions for producing any cast components in brass and bronze.



### Equipment

Our facilities enable us to produce medium and large runs of complex and cored parts:

- electric furnaces
- hot and cold core box machines
- semi-automatic casting facility

### Materials handled

Bronze (Ue5Pb3, Ue5Pb5) and Brass (CB752S, CB753S)

Foundry parts are then deburred (by sandblasting or grit blasting), machined, and tested (fluid-tightness).

At customers' request, products can be treated by impregnation to avoid any problem of porosity.

## ASSEMBLY

Based on the various items we produce, we carry out all types of manual and automatic mouting and assembly by screwing, crimping, and bonding. We perform all the tests and checks required for the quality demanded by the customers.



## IMPREGNATION

Following our customers request, components foundries can be impregnated to remedy the water tightness shortcomings of the material avoiding imperfections such as cracks or porosity

## OUR CUSTOMERS

- Gas and water distribution valves
- Valves for fire-fighting, refrigerants, medical gasses, etc.
- Welding equipment
- Air-conditioning, underfloor heating
- Fire-fighting equipment
- Water-softening
- Electrical equipment

# VISCOBEL

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# VISCOBEL

## Your preferred partner

### Bar turning, hot-stamping, casting, and assembly



With over 15 years of experience in its activity sector, **VISCOBEL** offers different solutions in the areas of industrial brass-founding for fluids and gas.

With its philosophy to be close to its customers, **VISCOBEL** is specialized in the manufacturing of pieces shaped by turning, die forging or casting that can be assembled and tested. All these parts represent its offer to the water, welding gas and fire-fighting industry.

**VISCOBEL** positions itself primarily on the niche markets of small, medium and large production runs that require flexibility, high quality, and high added value.

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## BAR TURNING



Turning is one of the most common of metal cutting operations done by removal of material.

Components are turned in small, medium, and large quantities on monospindle multispindle and CNC lathes.

They are machined out of a bar with the aim of achieving high productivity and high precision.

### Equipment

- Automatic single- and multi-spindle automatic lathes for machining bars from 1 mm to 65 mm  $\varnothing$ .
- Numerically-controlled lathes allowing machining of 5 mm to 90 mm  $\varnothing$  bars and up to 220 mm  $\varnothing$  billets.
- Horizontal and vertical machining centres for producing complex components and machining hot-stamped and cast roughs.



### Materials handled

- Various type of brass: CW614N, CW602N, etc.
- Steels: S300Pb, S250Pb, St37, C45, etc.
- Stainless: AISI303, AISI304, AISI304L, AISI316, AISI316L, AISI 316Ti, AISI430F, etc.
- PTFE
- Plastics
- Aluminium

### Benefits

- High productivity
- High-precision components
- Machining all materials
- Continuous working thanks to automatic bar feeding attachments



## HOT-STAMPING



This involves shaping a billet of brass, heated in advance to a temperature of 600–750 °C depending on the type of brass. This operation is carried out on a press fitted with a machined tool corresponding to the general shape of the part to be obtained. The rough produced can be machined to obtain the finished part required.

### Materials handled

Various type of brass:

CuZn40Pb2 (CW617N), CuZn36Pb2As (CW602N), CuZn40 (CW509L) – other type on request.

### Advantages

- Good mechanical characteristics.
- Excellent material integrity, no porosity, ensuring fluid-tightness.
- Good surface condition for polishing and treatments like chrome-plating, nickel-plating, and many others.
- An economic process for producing medium to large runs of components ranging from simple to complex

