

# BRAZING

## HIGH-PRECISION JOINING OF PRECIOUS METALS

In brazing, two or more workpieces are joined together at a temperature above 450 °C. In contrast to welding, the workpieces are not melted during brazing. Instead, the solder is liquefied and drawn into the joint between the workpieces by capillary action. BWB specialises in brazing particularly high-quality metals such as gold, platinum, stainless steel and titanium. After chemical cleaning, these extremely delicate workpieces are precisely positioned and fixed in place, creating a capillary gap of 10 - 30 micrometres. The filler metal is then applied before the workpieces are heated in a continuous furnace. The filler melts and is absorbed into the capillary gap.



Brazing enables high-quality, filigree connections that meet the high demands of the watch industry and medical technology.

### ADVANTAGES

- Gentle on the material
- Highest precision
- No structural changes to the base materials
- Good thermal conductivity of the joint
- Good electrical conductivity of the joint
- Several brazed joints in one work step
- Previous treatments (polishing, blasting, phasing) are not affected

### APPLICATIONS

Brazing preserves the properties of the materials used and offers high reliability and durability in the finished products of the areas:

- Medical technology
- Watch industry