Solder Masters
Makine Turizm Otomotiv İhracat İthalat Sanayi ve Ticaret A.Ş.

Was established in Bursa Otosansit Sanayi Sitesi in 2017 and started to operate in automotive, white goods and metal industry.

According to the requirements of our customers, we are carrying out high quality soldering of metal parts with brazing applications in accordance with the developing technology and production methods. With the priority of customer satisfaction, we are producing solutions in order to provide the best products and services to our customers.
EXAMPLE OF BRAZING PROCESS
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In the metal industry, final products are usually produced by combining two or more different parts.

On the one hand, these parts can be joined mechanically, by welding, soldering and brazing.

The joining method of two or more parts during brazing is performed by an additional material.

For the joining process, the parts are previously attached to each other by press-fitting or spot-welding, the connection areas of the metal parts are filled by an additional material which must have a lower melting point than the connecting parts in order to achieve the connection via the melting.

The filler material fills the connecting cavity between the metal parts by means of the capillary action after it has reached the melting point.
BRAZING PROCESS

The capillary flow plays a major role in Brazing.

Capillary; for the effect and connection, a sufficient cavity (min. 0.05 mm, max. 0.50 mm) should be formed.

Tensile Strength:
- Capillary 0.05 mm: 371 – 400 N / mm²
- Capillary 0.50 mm: 300 – 350 N / mm²
- Capillary 1.00 mm: 200 – 300 N / mm²
ADVANTAGES OF THE BRAZING PROCESS

- Relatively Strong
- High Ductility
- Correspond to the coupling of two different materials (steel <-> copper <-> brass <-> steel cas material)
- Possibility of connection between forging material and cast material
- Connection of porpous parts
- No surface tension
- Possibility to work with very small production tolerances
- Solves problems such as solder distortion, overheating or the melting of base metals
- Serial production of products at economic conditions
- Easy adjustment to automation
- After soldering the parts do not require cleaning

Maximum dimensions of the parts Width 180 mm; Height 180 mm
THANK YOU FOR YOUR VALUABLE TIME

HOW CAN WE HELP YOU

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