

# FURNACE BRAZING



## **Four-stroke cylinder head Furnace Brazing**

On four-stroke cylinder heads, cavitation or corrosion in the exhaust valve seat bore is a fairly common occurrence. If it is severe, then the o-rings may not be able to carry out their function anymore. The consequence is water leaking into the combustion space.

Such corrosion or cavitation can be rectified by machining the valve seat bores and installing over-size valve seats. But as the maximum allowable over-size usually is limited to around +2.00 mm, oversize valve seats may not always solve the problem. In such a case the installation of new rings by furnace brazing can offer a permanent solution.

Furnace brazing as a process is well established and has been used for various jointing applications in a range of industries. Its adaptation to cylinder heads has been pioneered by us. During the last few years we have carried out remanufacturing of hundreds of cylinder heads by this process successfully.

As the name suggests, furnace brazing is done at high temperature in a furnace, where a bonding metal is evenly deposited between the cylinder head and the new rings through capillary suction. This results in an extremely strong and durable bond. An alternative to furnace brazing is laser welding.

# GLOBAL PRESENCE

15 locations

info@quantiserv.com  
reconditioning@quantiserv.com  
mobileteams@quantiserv.com  
epoxy-resins@quantiserv.com  
in-situ@quantiserv.com

