Almor Group Vertical Retort Carburising Furnace

Stock Code: OS1276J
Manufacturer: Almor Group
Model: Vertical Retort Carburising Furnace
Year of Manufacture: 2006
Serial: F060021
New or Used: Used (Second Hand)
Internal Size (WxDxH): Ø800 x 1700 mm
Max Temp: 1000°C
Other Info: Commissioned Jan 2007
Weight: 2750kgs

This second hand Gas Carburising equipment was manufactured by world leaders and authorities in thermo-chemical heat treatments, Almor (Wild Barfied)
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The ALMOR Vertical Retort Gas Carburising Furnace is based on the well proven WILD BARFIELD design. Over many years WILD BARFIELD has established a reputation for the supply of robust installations to meet a wide variety of gas carburising and neutral hardening needs for a diverse range of industries:

- Automotive
- Gears
- Mining (long drill shafts and bits)
- Aerospace

DESIGN FEATURES

- Generous Ø800 x 1700 mm work chamber
- Electrically heated (100kW)
- Removable retort
- Lid mounted fan and baffle system promotes excellent atmosphere circulation
- Excellent temperature uniformity (= or - 5°C 600 – 1000°C – electric version)
- Hydraulically operated lid lifting gear to compensate for weight of lid
- Suitable for various carrier gases (endothermic, nitrogen/methanol) Advanced process SSI controls (oxygen probe system)

Gas carburising is a surface-hardening process which is carried out at a high temperature - usually above 925°C. The process is usually conducted in a sealed furnace in which a carburising gas is introduced.

Atomic carbon is generated by the reaction between the gaseous furnace atmosphere and the steel. The carbon diffuses into the metal surface usually to a depth between 1 and 3mm. After carburising the hardness of the carbon enriched surface is developed by quenching, usually in oil.

Hardness values typically in the range 58 - 63 HRC are developed in the carburised surface.

Special features

Equipment will include a gas flow station, display control station with accurate SSI flow rate control, a recently rebuilt central temperature control panel (with LCD temp display & facility for paper recorder) and Hose/Control Podium that simply connects the gas hoses to the retorts

Customer benefits

- MINIMUM MAINTENANCE
  The electrically heated model is heated by high quality nickel chrome elements, designed with low energy dissipation to give long, trouble free, life. The elements are graded to promote good temperature uniformity.

RELIABLE, CONSISTENT RESULTS

A lid mounted fan and baffle system promotes excellent atmosphere circulation. Advanced process control systems are incorporated to give accurate control of the atmosphere and case depth. These include oxygen probe and 3-gas IR (CO, CO2, CO4) system
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Used Gas Gas carburising equipment rarely becomes available and interested parties are advised to view early.

View Almor Group Vertical Retort Carburising Furnace on our web site at http://www.rileysurfaceworld.co.uk/machines/24847.htm

PHOTOGRAPHS TAKEN PRIOR TO REFURBISHMENT.