

Hoval Heat Treatment Services



Small Furnace



Our Gas Fired Top Hat furnace has a fixed brick base with a ceramic lined removable hood.



The two gas burners ensure that the load is uniformly heated throughout its cycle.

Size: 2.7m x 2.1m x 4.0m
Temp Range: 0-1000°C

Large Furnace



This is a Bogie Hearth furnace fired by 4 gas burners fed from each corner to give controlled circulations and even temperatures.



Extensions are available to increase the length. Vessels up to 28m have been treated in 2 heats.

Size: 5.5m x 5.5m x 13.7m
Extensions to 18m
Temp Range: 0-800°C

Control

Both of our Cooperheat furnaces have modern programmable controls feeding multipoint chart recorders. Probes are attached by a capacitance discharge method onto the load, allowing actual metal temperatures to be taken.

Furnace instruments and thermometers are serviced and calibrated regularly within our BS EN ISO 9001 Quality System, thus ensuring that the treatment is correct to specification. A schedule and chart are supplied with every item, each heat having its own unique identification number.

Current Heat Treatment Users:

Corus, Peter Brotherhoods, T.W.I., Foster Wheeler, Conoco, Destec, GWF, P.E.I. Whiteley Read, Norcast, Fabricam, Express Plastics, Stanref International, Stainless Metal Craft, Glapwell, Lincoln Casting, Rilmac, Fuchs Systems UK Ltd, Hadee Engineering and many others.



STRESS RELIEF

Normal Stress Relief cycles, in accordance with PD 5500 and ASME VIII are carried out regularly each week on fabrications, vessels, castings and forgings.

Special cycles for thickness and material variation are also provided to customer specifications.



NORMALISING

Refining the Grain Structure on Dished and Flanged ends, Plate, Castings and Forgings can be done in either furnace to suit the requirements of your job.

Air blasting can also be employed, should the speed of cooling need to be increased.



ANNEALING

Solution Annealing of certain types of stainless steel can be carried out in the Top Hat furnace.

Full ferritic annealing of castings and S.G. Iron is achievable in both furnaces.

Annealing of all types of aluminium has also been successfully completed.



OTHER TREATMENTS

We will carry out any treatment within the range and capacity of our equipment.

Other treatments include Tempering, Hardening, Drying and Paint Curing.

OTHER ASSOCIATED FACILITIES

Shot blasting, painting, hydrotest and NDE can all be accommodated on our site in Lincoln. Please ask for details.

Materials

All grades of Carbon Steel, Chrome Moly, Stainless Steel, Aluminium, Cast Iron, Cast Steels and Forgings of all types.

Turnaround

We offer a turnaround on normal cycles of 2-3 days, assuming 5 days notice of receiving your job is given. Special loads are quoted on request.

Standards

Treatments are carried out to PD 5500, ASME VIII, EN standards of all types and any customer specification.

Hoval - conservation of energy, protection of the environment



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Hoval follows a policy of continued improvement and reserves the right to change specifications without notice.