



**PROCLAD**  
HEAT TREATMENT



# Heat

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# Heat Treatment



Unlike some of our competitors PHT do not see our function as some kind of sorcerers trick, we aim to obtain the desired properties from materials by utilising our cutting edge heat treatment furnaces combined with

tight temperature control across the

hearth, rapid transfer times (less than 45 seconds) and a state of the art quenching facility.

Companies can be assured that we will obtain the optimum properties achievable from any material which is presented to us for treatment, whether it is for Quench and Temper through our three batch furnaces or Annealing, Normalising or Stress Relieving through either the batch furnaces or the three larger "Top Hat" furnaces.

This is emphasised by our commitment to quality through our ISO9001 approval and the use of Proclad Heat Treatment on prestigious projects by major companies such as Cameron (Gulf of Mexico), Heerema, Technip & bp (Angola Block 31 & 18), Vetco, Oil States, Eon, Doosan Babcock and Balfour Beatty.

## About Us

The History of the company is comparatively new as can be demonstrated by our equipment; however the depth of knowledge of the heat treatment team combined covers an impressive 60 years within the industry.

The instrumentation is calibrated every three months to ensure its accuracy when controlling and recording the heat treatment cycles. The furnaces are surveyed every 12 months in accordance with the API6A Appendix P or Norsok requirements to ensure that there is minimal furnace temperature variation across the hearth.

Scheduling for heat treatment can be tricky, however, where the soak times allow, the company endeavour to provide a service that turns around the material within 48 hours of receipt at the plant as demonstrated by the current performance figures monitored by ourselves & our major customers.

This is facilitated by a full time dedicated shop floor and office workforce that ensure a smooth flow of the work from off loading through the furnaces, then fully certified back to the client

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## Treatments

We have developed an extensive range of treatment services to meet the needs of the Oil & Gas, Power Generation and Heavy Engineering Industries.



With quality and service paramount at all times, Proclad Heat Treatment has established a growing client base across Scotland and the the North of England providing the following key services.

- Anneal (Ferrous Alloys)
- Precipitation Hardening
- Normalise
- Quench and Temper
- Tempering
- Solution Annealing
- Stress Relieving

For more information on our services or to discuss your requirements contact us now

## Equipment

The majority of the Proclad Heat Treatment plant has been manufactured from scratch to meet the stringent requirements of the Oil & Gas, Power Generation and Heavy Engineering Industries that proliferate in Scotland and Northern England.

We have a broad range of furnaces to meet every requirement from top hat furnaces capable of accommodating lengths of up to 6.5 metres with a capacity of up to 15 tonnes to batch furnaces capable of achieving temperatures of up to 1275°C with a custom designed, temperature controlled, 70,000 litre quench tank.

All of the equipment features state of the art computer controlled temperature with various points and zones for optimum treatments.



## Testing

The testing of material is a key process in the heat treatment process and we continue to invest heavily in this area to ensure we are the forefront of technology and testing equipment.

We currently have 4 X Portable King Brinell Hardness testing Machines (constantly rotated to ensure tight calibration limits to ASTM E10) with testing frames, chains and radial arm to facilitate testing on all component shapes.

We also have Brintronic computerised measurement system for accurate hardness measurement.

## Quality

To ensure they are at the cutting edge of performance we have utilised the latest furnace designs and modern technology all backed up by an ISO9001 approved quality system and an enthusiastic and dedicated workforce.

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