



**KEY COMPONENTS &
CRITICAL PERFORMANCE
FOR YOUR SECTOR.**

We deliver a wide range of heat treatment and ancillary services, designed to give you a comprehensive suite of options that deliver results quickly.

By refining our processes and materials handling, we can create highly specialised outcomes.

**CON MECH
ENGINEERS**

CON MECH ENGINEERS

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**WORLD CLASS
heat treatment**



WE DON'T GENERALISE WE SPECIALISE.

OURS IS A HIGHLY SPECIALISED PROCESS USED BY CLIENTS FROM A WIDE RANGE OF SECTORS.

Our agility and expertise enables us to respond effectively to new requirements on a daily basis, working hard to optimise the quality of the products we work with, always seeking to exceed customer expectations.

As a result we have developed long-term working relationships with clients and partners in many sectors including sub-sea, oil and gas and power generation.



NORMALISE
This process is generally applied to ferrous alloys.



WATER QUENCH & TEMPER
This process is generally applied to the carbon steel range.



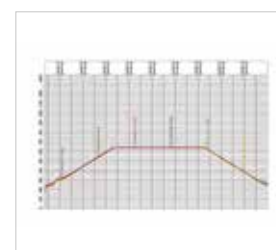
POLYMER QUENCH & TEMPER
This process is generally applied to the carbon steel range.



SOLUTION ANNEAL
This high temperature process is generally applied to the Stainless or Exotic range of steels at temperatures from 1000°C up to 1180°C depending on chemistry.



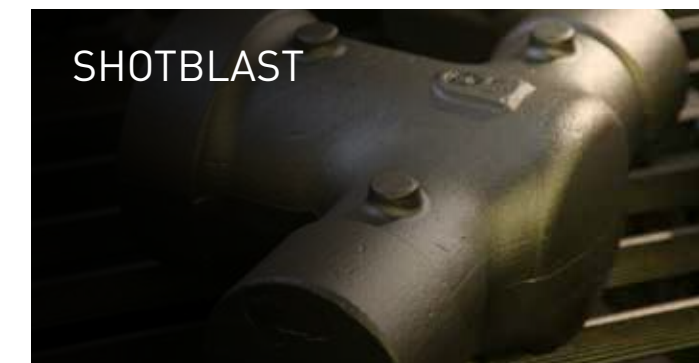
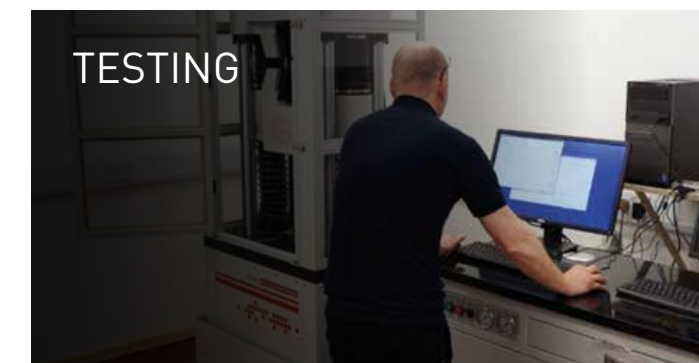
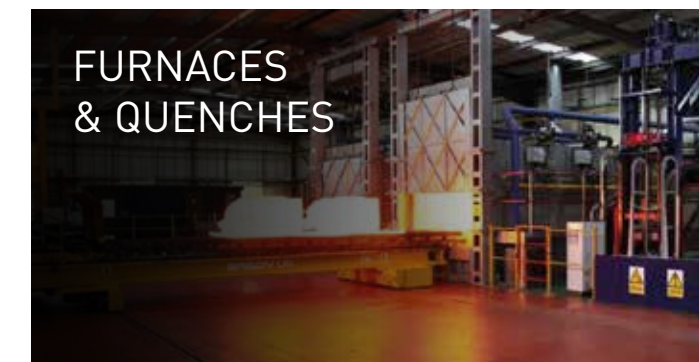
ANNEALING
This process is generally applied to ferrous alloys.



STRESS RELIEVING
This treatment can actually be applied to the full range of steels or combination of.



RAPID AIR BLAST
Rapid Air Blast Cooling is an intermediate cooling rate between Air Cool and Polymer Quench and percentage wise closer to Air Cooling.



FURNACES & QUENCHES

We have ten gas-fired multiple-zone furnaces, all charger loaded and managed via state of the art programmable digital controllers and monitored using digital temperature recorders.

Furnace atmosphere for all furnaces are products of combustion and are neutral to slightly oxidizing. All furnaces are surveyed annually to the latest API 6A specifications and calibrated quarterly to ensure consistent performance.

TESTING

Quality is the central focus of Con Mech heat treatment services. We have invested heavily in bringing together the skills and expertise required to produce materials that optimise performance, whatever application they are destined for.

Following any treatment we will carry out testing to verify the characteristics and expected performance of each product to demonstrate compliance with your specification.

SHOTBLAST

Shot blasting is used after heat treatment to prepare materials for further processing, crack detection or painting.

At Con Mech we have developed shot blast facilities to reinforce our position as a total process supplier, reducing delivery cycles and costs.



WE HAVE WORKED WITH CON MECH ENGINEERS ON SEVERAL LARGE HEAT TREATMENT OIL AND GAS-RELATED PROJECTS, AND THEIR PROFESSIONALISM, RESPONSIVENESS AND QUALITY OF DOCUMENTATION MAKE THEM STAND OUT IN A VERY DEMANDING TECHNICAL SECTOR.

Paul Brown, Production Supervisor
Barrett Steel Energy Products



TO SEE ALL OUR SERVICES AND SPECIFICATIONS VISIT CONMECHENG.COM

