



# Heat Treatment A U S T R A L I A

## Case Hardening and Carburising

Heat Treatment Australia offers case hardening and carburising of alloy and mild steel components

The company has four sealed quench furnaces of various sizes to accommodate most engineering components whether it be a large gears weighing 100 Kg or small rollers weighing less than one Kg.

The components are protected from the outside atmosphere by using a protective endothermic gas. This gas can also control the level of carbon in the atmosphere allowing the carbon potential to be changed in order to suit the material and the customer specification. Carburising temperatures ranging from 790 C to 960 C can be used to achieve customer requirements. Our extensive stock of fixtures and jiggling ensures minimum distortion during treatment and maximum hardness and case depth penetration.

The treatments we offer include carbonitriding, case hardening and carburising to the following depths

004"	0.1 mm
010"	0.25 mm
020"	0.5 mm
040"	1.0 mm
080"	2.0 mm

Other depths are available and guidance and information is always available from our experienced heat treatment professionals

Our treatments are fully computer controlled to ensure repeatability and process conformity each and every time. Our furnace parameters are controlled by the latest carbon diffusion software to ensure case depth conformity which utilizes data from ox probes located within the furnace and the endothermic gas generator

Our procedures and work instructions are fully documented under our 9001:2000 quality management systems.

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