

Cambridge Plant Profile

Comprehensive metallurgical services at the heart of UK industry...

Total quality heat treatment that ensures component reliability, efficiency and delivery to the customer.

Bodycote Cambridge offers unrivalled service in vacuum heat treatment, vacuum brazing and electron beam welding. The facility, with a history in excess of thirty years, continues to support local engineering and the manufacturing sector from its location in Waterbeach.

The facility offers a comprehensive range of equipment to meet the needs of an extensive and diverse customer base. A policy of continuous improvement and customer focus has resulted in a development of a range of equipment including vacuum and air furnaces, complementing metal joining capabilities with electron beam welders, offering multi-chamber size capability.

To complement these three core activities, Cambridge offers ancillary processes – TIG welding, cryogenic treatment, hot vapour degrease and aqueous wash capability.

The diversity of our customer base, with the need to continually develop engineering solutions, has gained recognition for Bodycote Cambridge as a provider of quality vacuum heat treatment and metal joining services.

Quality Accreditations

The facility holds many major accreditations including ISO 9001:2000, Nadcap, AS/EN 9100, and TS 157 approval, demonstrating world-class standards. Our highly experienced management team are able to offer support and advice to meet your metallurgical needs.

Environmental Accreditation

Bodycote Cambridge also holds ISO 14001 accreditation.

Processes at Cambridge include:

- **Vacuum Homogenisation**
Vacuum homogenisation and solution heat treatment of investment castings.
- **Stress Relieving**
Used as a controlled process to reduce residual stresses in part machined materials.
- **Normalising**
A widely used process to refine grain structure prior to hardening.
- **Vacuum Hardening**
Hardening of materials in a non-oxidising atmosphere minimising distortion.
- **Vacuum Precipitation**
Ageing in a non-oxidising atmosphere.
- **Assembly and Vacuum Brazing**
A precision metal joining technique, ideal for many component configurations and suitable for a wide range of materials.
- **Electron Beam Welding**
This reliable, efficient and cost effective metal joining technique, with its extensive list of benefits, has become a formidable tool in today's competitive engineering market.

Markets served:

- Aerospace & Automotive
- Power Generation
- Off-shore & Petro-chemical
- Medical, Scientific & General Engineering





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Providing the competitive edge through our capacity and capability...

Four electron beam welders from 225mm x 225mm x 225mm to 455mm x 455mm x 455mm, rated at 6 kW.

A range of four vacuum furnaces from 457mm dia x 500mm deep to 1270mm dia x 1370mm deep with a pay load up to 1000 Kg and a maximum temperature of 1200°C.

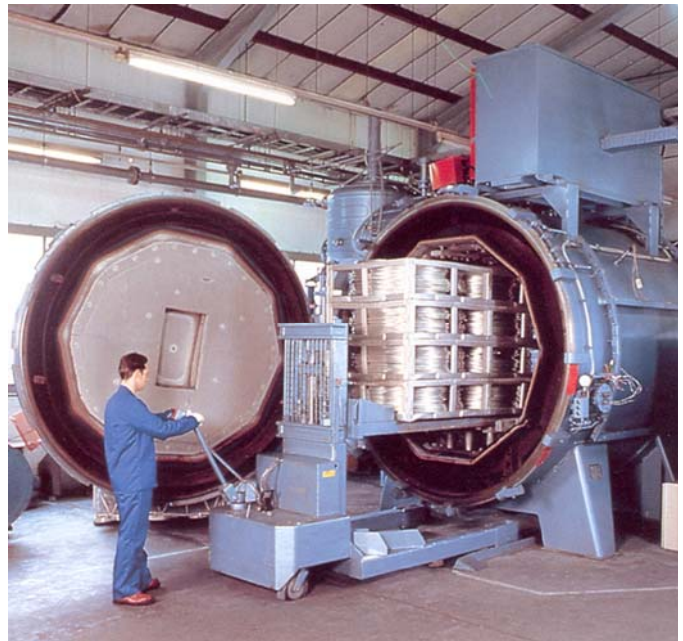
Complemented by two air furnaces from 610mm dia x 610mm deep to 1000mm dia x 1000mm deep with a pay load up to 750 Kg and a maximum temperature of 750°C.

Two degreasers

One cryogenic unit: 610mm x 610mm x 1200mm with a pay load up to 250 Kg and a temperature from 0°C to -100°C.

One TIG Welder

One Resistance Welder



Bodycote also has heat treatment facilities at the following locations:

<i>Birmingham</i>	<i>T +44 (0)121 358 7266</i>	<i>F +44 (0)121 358 0478</i>
<i>Chard</i>	<i>T +44 (0)1460 67957</i>	<i>F +44 (0)1460 67962</i>
<i>Cheltenham</i>	<i>T +44 (0)1452 714440</i>	<i>F +44 (0)1452 856097</i>
<i>Coventry</i>	<i>T +44 (0)2476 367786</i>	<i>F +44 (0)2476 368158</i>
<i>Derby</i>	<i>T +44 (0)1332 275800</i>	<i>F +44 (0)1332 767785</i>
<i>Gillingham</i>	<i>T +44 (0)1634 376313</i>	<i>F +44 (0)1634 371969</i>
<i>Macclesfield</i>	<i>T +44 (0)1625 501888</i>	<i>F +44 (0)1625 505310</i>

<i>Morden</i>	<i>T +44 (0)208 337 7744</i>	<i>F +44 (0)208 330 2699</i>
<i>Rotherham</i>	<i>T +44 (0)1709 361047</i>	<i>F +44 (0)1709 828529</i>
<i>Skelmersdale</i>	<i>T +44 (0)1695 721361</i>	<i>F +44 (0)1695 50105</i>
<i>Stillington</i>	<i>T +44 (0)1740 630353</i>	<i>F +44 (0)1740 630075</i>
<i>Stockport</i>	<i>T +44 (0)161 483 0511</i>	<i>F +44 (0)161 483 5450</i>
<i>Woodford</i>	<i>T +44 (0)161 440 0288</i>	<i>F +44 (0)161 440 8017</i>



Bodycote Heat Treatments Ltd
Denny Industrial Estate
Waterbeach
Cambridge
CB25 9QR

Tel: +44 (0)1223 860741
Fax: +44 (0)1223 863498
E-mail: infotp@bodycote.com
Web: www.bodycote.com