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**The largest independent heat treatment  
and coatings company in the UK**

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# Brief

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Provide marketing and technical communications for Wallwork, a leading specialist manufacturing company, including technical data sheets, brochures, advertisements, point-of-sale materials, and exhibition displays for global trade shows. Each project combined clear technical information with strong visual design to support the company's international marketing activities.

- > **Support In-house Marketing Teams**
- > **Liaise with External PR Agency**
- > **Unify Branding**
- > **Communicate Technical Expertise**
- > **Plan and Execute Advertising across Manufacturers Industry Publications**

# Outcomes

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The cohesive design approach strengthened Wallwork's brand presence across all customer touchpoints, reinforcing its reputation as a trusted leader in specialist heat treatment and engineering services. Consistent visual communication conveyed quality, precision, and reliability, increasing brand recognition, supporting customer confidence, and enhancing the company's presence within highly competitive global industries.

> **Literature Design  
and Printing**

> **Promotional  
Collateral**

> **Exhibition Displays  
for Manufacturing  
Trade Events**

> **Office Branding**

> **Trade Magazine  
Advertisements**

> **Event / Exhibition**

> **Marketing Support to  
PR Agencies**



# HEAT TREATMENT

- Vacuum heat treatment
- Age or precipitation harden
- Solution treatments
- Tuffride & QPQ
- Vacuum carburising
- Titanium, aluminium & magnesium treatments



# PVD COATING

- Ultra thin, high hardness
- Low coefficient of friction
- Controlled thickness
- Does not compromise tight tolerances
- Increases load bearing properties
- Full R&D lab to develop specials



# VACUUM BRAZING

- Complex component assembly
- High temperature bonding
- Strong, clean joints
- Can join dissimilar materials
- High pressure & vibration resistance
- Easy prototyping & rapid up-scaling



# PLASMA NITRIDING

- Improves...
- Low temps for dist...
- More product of flame...
- Seamless stud connection world...
- Distortion while treat...
- Drills or drills processes



Heat Treatment | Advanced Hard Coatings | Hot Isostatic Pressing | Plasma Nitriding | Vacuum Brazing



YOUR PARTNER IN  
PROCESSING



[www.wallworkht.co.uk](http://www.wallworkht.co.uk)

# Heat Treatment



Heat Treatment

www.wellworksltd.co.uk

The company has specific approvals from Airbus, Boeing, Rolls Royce, BAe Systems, Moog and many other prime manufacturers



With multiple technologies and processes we give independent advice on the best treatment process for each application

Using equipment of different capacities we can undertake work and easily scale-up production once the process is proven to meet your technical goals and commercial targets. Our furnaces are able to process (\*) components up to 1.6m diameter. We also run one of the UK's largest vacuum furnaces of processing up to 2m in length.

All sites are fully equipped with QA laboratories for verification of process with full documentation and traceability. Each site has accreditation from NADCAP, BSI and other leading certification bodies.

In addition the company has specific approvals from Airbus, BAe Systems, Moog and many other prime manufacturers.

## Heat treatments

Anneal*	Induction Harden	Shot
Ageing	Manganese Phosphate Coating	Sol
Austemper*	Marquench	Stre
Carbon Restoration	Martemper	Sut
Case Harden	Nitride	Tuf
Carburise*	Nitrocarburise	Vac
Carbonitride	Normalise*	Vac
Chemical Blacking	Plasma Nitride	Vag
Cryogenic Treatment	Precipitation Harden	Zin
Hardening*	Salt Bath Processes	Co

## Materials Commonly Treated

Cast Iron, Mild Steel, Case Hardening Steel, Alloy Steel, Tool Steel, High Speed Steel.

Aluminium Alloys, Magnesium Alloys, Titanium Alloys, Nickel and Copper Alloys.

walwork

Hot Isostatic Pressing



## New 2nd HIP – Doubling Capacity

- £20 million invested
- State-of-art Quintus HIPs
- Equipped with Uniform Rapid Cooling
- Nadcap & EN9100 approved



EN 9100 Certified

[www.wallworkht.co.uk](http://www.wallworkht.co.uk)

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Hot Isostatic Pressing



## Densification, Porosity & Void Removal

- Castings
- Additive manufacturing
- Powder metallurgy / fabrication
- Near-net-shape
- Diffusion bonding



EN 9100 Certified

[www.wallworkht.co.uk](http://www.wallworkht.co.uk)

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Hot Isostatic Pressing



## One-Stop Shop

- Combined HIP and heat treatment
- 30 vacuum furnaces available
- 60 years of experience
- Technical support and expertise



EN 9100 Certified

[www.wallworkht.co.uk](http://www.wallworkht.co.uk)

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Hot Isostatic Pressing



## Fast Reliable Lead Times

- Own transport for pick-up/delivery
- Across 4 UK sites
- Servicing customers in Europe
- Online booking portal



EN 9100 Certified

[www.wallworkht.co.uk](http://www.wallworkht.co.uk)



BUSINESS THE  
ICAL STRATEGY

# FINANCE

...the ground already makes  
...monitoring systems  
...to predictive  
...reporting system  
...International Air Transport  
...that new technologies  
...aircraft, could reduce sea-  
...percent.  
...parts may be required,  
...and maintenance teams to be  
...lands. This improves the  
...critical turn times.  
...for connectivity  
...the competitive and  
...aircraft health.  
...Sr. Director.

## wallwork

Deep Pit Heat Treatment  
for Large Components



Quick Turnaround,  
Trusted Quality

- Age hardening
- Annealing
- Case hardening
- Carburising
- Hardening & tempering
- Normalising & tempering
- Precipitation hardening

### Wallwork for Industry

AEROSPACE	POWER	TOOLING
AUTOMOTIVE	MEDICAL	METALLURGY



Furnace capacities  
1.7m deep  
1140mm diameter



Dedicated transport  
for pick-up/delivery  
Call Now!



Competitive  
pricing and  
green results



Follow us on LinkedIn



CALL +44 (0) 161 797 9111

VISIT [www.wallworkht.co.uk](http://www.wallworkht.co.uk)

> **Farnborough  
International  
Airshow**



Unmatched  
Excellence by  
Land, Sea & Air



Approved  
Aerospace  
Substrates, Slings  
and more



ITAD  
Compliant

Industry Leading Equipment,  
Service and Quality

HOT ISOSTATIC PRESSING



PVD & DLC COATINGS



VACUUM BRACING



HEAT TREATMENT



www.walworkplc.co.uk



## LOW VOLUME CASTINGS

Serving customers in:

- Wind turbines & offshore
- Chemical
- Aerospace
- Glass melting
- Decorative castings
- Metal printing build plates



[www.wallworkcastalloys.com](http://www.wallworkcastalloys.com)

+44 (0)161 763 7494

- ISO 9001 accredited processes
- Capacity 0.5kg up to 500kg
- One-off or multiple batches
- CAD design or we can design
- Short delivery times
- Competitive pricing

[www.wallworkcastalloys.com](http://www.wallworkcastalloys.com)

## FURNACE FURNITURE & FIXINGS

- 30 years' experience in nickel chromium casting
- Comprehensive range of patterns held
- Customer bespoke patterns stored
- Make from your drawings
- CAD / Solidworks design available
- Emergency delivery on request



[www.wallworkcastalloys.com](http://www.wallworkcastalloys.com)

+44 (0)161 763 7494

## HEAT RESISTANT CASTINGS

- ISO 9001 accredited processes
- Capacity 0.5kg up to 500kg
- One-off or multiple batches
- CAD design or we can design
- Short delivery times
- Competitive pricing



Industry Leading Equipment,  
Service and Quality





## Trade Exhibitions

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Designed and developed bespoke exhibition stands and display environment, creating engaging and impactful spaces for major industry exhibitions.

**Farnborough Air Show**  
**Paris Air Show**  
**Southern Manufacturing**  
**Space-Comm Expo Europe**  
**Motorsport Expo**  
**Manufacturing Solutions**  
**Ireland**

# TURN UP THE HEAT



Contact our team  
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WhatsApp  
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[www.redchillidesign.co.uk](http://www.redchillidesign.co.uk)

