

CAPABILITY STATEMENT



PROVIDING EXCELLENCE,
EVERY DAY, EVERY WHERE



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CAPABILITY STATEMENT

OIL & GAS, REFINERY, ENGINEERING AND POWER GENERATION INDUSTRIES

Heat Tech Australia (Heat Tech) is a privately owned Australian company. We have a strong Oil and Gas, Refinery, Mining and Power Generation based business, as a specialist supplier of heat treatment equipment and technical expertise.

To this extent we incorporate our resources to ensure the highest possible level of quality engineering service.

As one of the leading independent companies in the Heat Treatment industry, Heat Tech focus on reliable service, quality equipment, and an effective team of trade qualified and trained service technicians. It's Heat Tech's service level and philosophy that sets us apart!

Heat Tech is a solution driven business supporting companies both internationally and nationally including remote areas. These services include but are not limited to:

- Pre-Heating (Concurrent)
- Post Weld Heat Treatment (Stress Relieving)
- Refractory Dry Outs & Furnace Heat Ups
- Regen Hot Hold Heating & Coke Oven Heat Up
- Annealing
- Normalising
- Solution Heat Treatment
- Portable Furnace Construction & Firings
- Induction Heating
- Technical specialist advice from industry experts
- Formulation of specific and detailed heat treatment procedures
- Professional engineering, project management and quality control
- Plant & Generator Hire

OUR GOALS AND OBJECTIVES

Heat Tech is a code compliant company, complying with AS/NZS, American and British standards from stringently specified procedures, codes and recommendations. This document is detailing Heat Tech's portfolio of specialisation and extensive capabilities. Should you require further information or have any questions we invite you to visit the Heat Tech website: www.heattech.com.au. Alternatively please contact Heat Tech at the branch nearest to you.





BRIEF COMPANY PROFILE

Heat Tech Australia was established in 1995 with the aim to increase the Heat Treatment and associated engineering service levels to support the construction, petrochemical manufacturing, engineering and power generation sectors of industry.

The provision of increased service levels has seen us develop into a progressive and reliable engineering service company throughout the Asia Pacific region. The development of Heat Tech Australia through our Heat Treatment divisions has earned us the reputation as a professional and dedicated service partner and provider.

Our company philosophy and technical service levels have been achieved by combining senior management with many years of heat treatment experience. This experience has been gained throughout Australasia and the Asia Pacific Region



RANGE OF PRODUCTS & SERVICES

Heat Tech's heat treatment divisions are responsible for the provision of all heat treatment services, including pre heat, post weld heat treatment, refractory dry out and specialised services. We are also agents for heat treatment equipment and consumables.

Heat Tech provides an extensive range of services and equipment to the Oil and Gas, Refinery, Mining, engineering and Power Generation Industries, from small workshop companies, port authorities, Department of Defense, large private corporations and government bodies.

6 WAY MAINS CONTROL UNIT 300AMP MAINS BOARD

Mains voltage control units are used on larger jobs where use of low voltage power sources and low voltage elements are uneconomical, such as post-weld heat treatment of closing seams on pressure vessels and powering temporary furnace installations. These units can be used manually or automatic control can be introduced by adding a programmer.



6 WAY LOW VOLTAGE CONTROL UNIT 50KVA LOW VOLTAGE TRANSFORMER

Low voltage control units are ideal for preheating and post-weld heat treatment of pipe work and vessels on refineries, construction sites and in workshops. These units can be used manually or automatic control can be introduced by adding a programmer.



INDUCTION HEATING

Introduction of the ProHeat 35 Induction Heat System is a simple and cost-effective process that can be applied in the following applications to deliver fast and consistent heat: Welding fabrication and construction; Preheating of weld joints, Post-weld heat treatment, Hydrogen bakeout, Coating removal and Shrink Fit. Applications that would typically require hours to heat can be done in minutes.



PACKAGE BURNERS

Package burners come in many different sizes and are ideal for small to medium furnaces, ovens and for stress relief of odd shape jobs where heating elements are not conceived as achievable. Available in both Gas & Diesel.



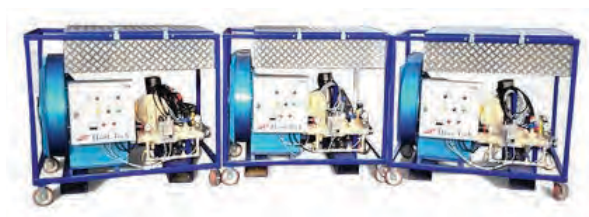


RANGE OF PRODUCTS & SERVICES

GAS SKIDS

GAS HEATING UNIT

Heat Tech's high velocity combustion units are specifically designed for refractory dry outs, temporary furnace and post-weld heat treatment of large fabrications such as vessels. Having an exceptional turn down characteristic it can provide high volume excess air at both low and high temperature conditions that are essential throughout the operational cycle to maintain maximum temperature uniformity.



PORTABLE GENERATORS ON TRAILERS & SKIDS

Our trailer generators are ideal for any job. It helps cut out the expense of an electrician, helps save time on the job, and being on the trailer the technician can bring the generator to and from the job (without the use of cranes). Our Generators with skids come with multiple power outlets making them functional for various applications for site.



SITE VEHICLES

Heat Tech has a range of 4WD Vehicles that are site specified and fitted to adhere to all safety requirements, this includes up to date IVMS (In Vehicle Monitoring System). These Vehicles also have the acquired towing capacity to mobilise our trailered Generators to and from site.



VISION, STRATEGY, PHILOSOPHY, BENEFITS

Our vision is to be the most professional Heat Treatment Company in the southern Hemisphere through our unique and passionate commitment to safety, quality and customer service. Heat Techs' goal is to be of significant contribution to Australia's Oil and Gas, Refinery, Mining, Engineering and Power Generation sectors as the leading specialist supplier of Heat Treatment solutions.

Our strategy is for our Management to judge actions and programs not by the words that describe them but by their actual impact on business results, all this will incorporate;

- The economic impact on both Heat Tech and our customer business.
- The safe effective implementation of any program.
- The right personnel for the action.

The philosophy is quite simple.

By being proactive we provide a different approach regarding the quality and cost effectiveness of our services and aim to maintain our position as number one in the Heat Treatment sector.

We offer a specialised solution coupled with a partnership approach with you. We strive to build a commercial partnership with you, to be your supplier of choice, not necessity.

We pride ourselves that we are constantly updating our equipment and continually training and educating our staff. We have established Heat Tech with the intention of giving you the most outstanding service expected every time.



We want you to remember us for our exceptional level of service. This is not a statement that we take lightly. By employing the best in the business we can in return give you the commitment and results. Heat Tech believes in making a difference. In our client's eyes Heat Tech Australia stands for value for investment; quality; specialist skills, service support and a sense of competitive challenge.

- By Achieving all of this comes direct customer benefits.
- Visible safety and project management expertise.
- Comfort in the knowledge of being supplied with professional services using quality equipment and consumables.
- Reliable and trustworthy relationships between your people and ours.
- Viable economic benefits.

CREDENTIALS

WE ARE DIFFERENT - HERE TO HELP 24/7

After hours/On-site service - maintenance, service and support. At Heat Tech one of the main things we look for when we choose to open a branch or commence a new project, is the ability to secure the most experienced and knowledgeable service technicians. We will not compromise. With the best team our customers receive the best result for their business.



CREDENTIALS

Our personnel have many years of experience in On- Site heat treatment, Furnace building and refractory dry outs. Collectively there is over 280 years of experience available to all our clients and for all the projects we are involved with.

Heat Tech has been involved in many larger projects, mining operations from Queensland's Bowen Basin coking coal down to Victoria's lignite coal for power generation purposes. Since establishing, Heat Tech has been involved in Construction and Shut Down Projects of Refineries and Power Generation Australia wide. Heat Tech has been involved in construction of multiple Gas Compressor facilities throughout Western Australia and Queensland and most recently was the primary Heat Treatment supplier during the construction phase of the INPEX LNG Plant and Power Station in Darwin.

All our equipment is stringently serviced and maintained to the highest possible standards. Our regular scheduled servicing ensures optimum performance.

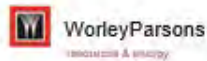
Our team coordinate with site personnel, contractors and subcontractors arranging all necessary requirements for site Heat Treatment services.

We understand the stringent requirements on safety and maximising equipment up time, and working to tight schedules. We work extremely hard on developing innovative solutions to meet these demands.

PROJECT FOCUS

If you're like most of our customers, in the past you may have found dealing with corporate companies that offer Heat Treatment division really frustrating. We realised that a great opportunity existed to provide a different and more specialised solution. We've chosen to focus primarily on providing on-site Heat Treatment. Skilled labour, Low Voltage Transformers, Induction Units, High Voltage Units, Gas and Oil Burners and Generated power for our Equipment. And most importantly, we've established our business with the intention of giving you the most outstanding service possible.

OUR CLIENTS



POWER GENERATION

SWANBANK (QLD)

CYNERGEN POWER (DRY CREEK S.A)

TARONG NORTH POWER STATION (QLD)

TARONG ENERGY (QLD)

OSBOURNE COGENERATION POWER STATION (S.A)

KWINANA POWER STATION (W.A)

GE POWER GENERATION (VIC)

HALLETT POWER STATION (HALLETT A.G.L) S.A

DAMPIER POWER STATION (W.A)

YALLOURN "W" POWER STATION (VIC)

PELICAN POINT POWER STATION (S.A)

COCKBURN POWER STATION (W.A)

LOY YANG A POWER STATION (VIC)

T.X.U TORRENS ISLAND POWER STATION (S.A)

HUNTLEY POWER STATION (N.Z)

TRANSFIELD TECHNOLOGIES (VIC)

COLLIE POWER STATION (W.A)



PRE & POST WELD HEAT TREATMENT

HEAT TECH AUSTRALIA PERFORMS VARIOUS MAINTENANCE SHUTDOWNS ON MARION, P & H AND B.E DRAGLINES.

PRE AND POST WELD HEAT TREATMENT OF :
TUB REPLACEMENT
BOOM POINT ATTACHMENTS
BOOM CHORD ATTACHMENTS
MAST HEAD REPLACEMENTS AND UPGRADES
MAST AND BOOM LUGS
A FRAME LUGS
SWING GEAR BOSS
BUCKET LIP REPLACEMENT AND UPGRADES
CABLE DRUM REPAIRS

PETRO CHEMICAL

EXXON MOBIL ALTONA

VIVA GEELONG

MARSDEN POINT REFINERY

QENOS ALTONA

KWINANA REFINERY

CALTEX LYTTON

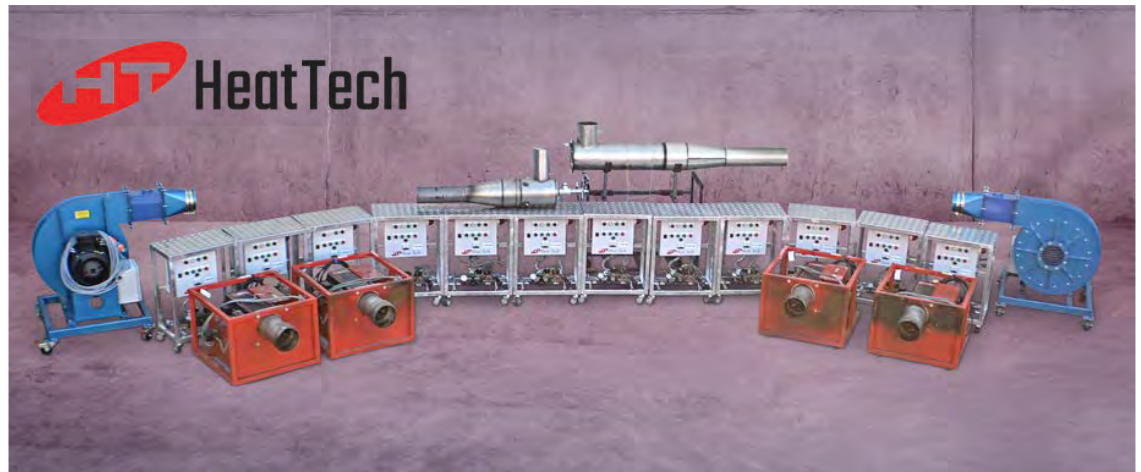
REFRACTORY DRY OUT SERVICES

Over the last 2 decades Heat Tech has expanded its refractory dry out and furnace heat up services throughout Australia, New Zealand and the Pacific Rim, providing the capability of instant mobilisation of equipment and qualified technicians to our clients in all locations.

Heat Tech supports the client's refractory dry out requirements and recognises the need to be flexible to meet the challenges that are involved regarding the varying complexity of components that requires a detailed study to determine the correct method and equipment to suit each individual dry out operation.

Our management team consisting of many years of experience, offer the most suitable equipment for dry out applications, taking into account the most cost effective and optimum heating method to use. This is then encompassed with written procedures containing a detailed safety management system and JSA documentation.

Heat Tech's high velocity oil or gas burners have high air to fuel turn down ratios which are specifically designed and suitable for refractory dry outs for controlled heating rates and holding temperatures as required and detailed within the dry out schedule.



The gas combustion units are manufactured to comply and are certified to AGA statutory safety standards for type "B" gas appliances with safety management controls and flame failure shut down features, whilst the oil combustion units also operate with the management controls and safety flame failure shut down.

Heat Tech as an alternative offers electrical resistance heating systems to suit the component applications and environment.

Heat Tech continues to be proactive and over the last 5 years we have increased our refractory and heat up services in support to the industries with additional services provided as follows:

- A. Heating management for coke oven through wall repairs that requires hot hold heating of regenerators and coke oven heat up complete with data logger constant real time temperature readings and trends.
- B. Metal coating plant melting pot Inductor Heat Up.
- C. Static thermocouple attachment to the refractory surface of rotating kilns during the dry out process, utilising wireless transmitters and receivers providing real time and constant temperature monitoring and logging of the refractory surface.

REFRACTORY DRY OUT SERVICES

Heat Tech is dedicated in its professional approach, continual research and development in order to maintain the highest standard of services for customer benefits.

The benefits are not only cost effective but maintain the integrity of an accurate and efficient refractory dry out operation.

This dedication has ensured that Heat Tech is continually upgrading, improving and increasing its Heat Treatment and Refractory Dry out Services. Our services consist of Management consultancy and planning, Project Management, Trade certified technicians that will assist with or carry out commissioning, reticulation and undertaking of the work scope. We also supply generated power for each application when requested.

No project or component requiring a detailed dry out operation is too large or too small, be it a single, multiple burner or electrical application. The following brief list is some of the successful refractory heat up and dry out projects that Heat Tech have under taken:

- Multiple burner refractory dry out of Incinerators (INPEX LNG project), connecting system and Stack
- Multiple burner refractory dry out of Lithium projects on the rotary kiln and connecting systems
- Multiple burner hot hold and coke oven heat up on Steel plants
- Single and multiple burner refractory dry out and heat up on Aluminum furnaces
- Multiple burner dry out and heat up of furnaces on Steel plants
- Single and multiple burner dry outs on metal coating melting pots and inductors
- Multiple burner dry out of complete Calcine towers on Alumina smelting plants
- Multiple burner dry out and heat up on rotary kilns and towers on Cement plants
- Multiple burner furnace heat ups on Copper smelting plants



REMOTE MONITORING SYSTEM (RMS)

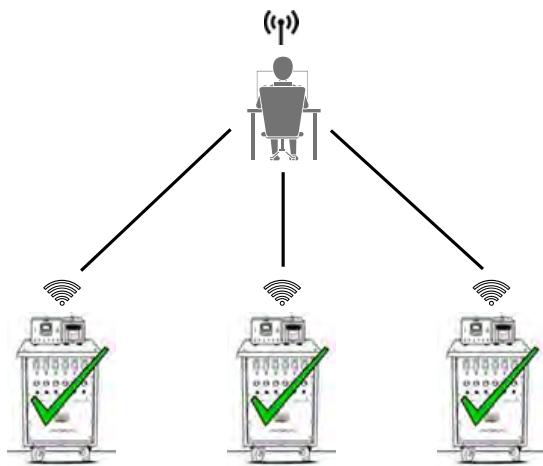
Heat Tech's Remote Monitoring System (RMS) utilises wireless telemetry technology coupled with a custom software application to provide an innovative solution to on-site heat treatment with benefits including:

Cost Reduction

Quality Improvement

Risk Reduction

Increased Control & Reliability



Multiple work fronts can be simultaneously monitored from an on-site remote safe-haven, using a computer connected via Heat Tech's RMS Network. The network consists of long-range Wi-Fi transceivers, which can be installed with repeater stations to suit any on-site application.

The software application is a graphical user interface with programmable alarm features which provide visual and audible alerts in the event of anomalies, resulting in prompt fault rectification and increased quality control.

Features...

- Video monitoring capacity for multiple HDIP cameras installed at work fronts to provide positive fire-watch and activity monitoring.
- Remote shut-down functionality allows the remote computer to shunt trip the power to any individual heat treatment unit in the event of an emergency.

THE RESULT

- Operator efficiency is increased due to remotely monitoring multiple work fronts while technicians move on to the next job, resulting in lower overall labour costs.
- Minimised technician time at the coalface i.e. minimising exposure to hazardous work environments, reducing risks via the Elimination Method – the highest in the hierarchy of risk controls.
- Safe, continuous operation of heat treatment cycles without interruption, even during site events that require personnel evacuation i.e. inclement weather, radiography etc.



SHEQ MANAGEMENT SYSTEM

Equipment Quality Management System

We have developed a comprehensive maintenance, inspection and repair process based on best practices documenting standards that ensure each piece of equipment is inspected, tested, tagged, calibrated and cleaned largely in accordance with AS/NZS standards. All equipment and plant on return is cleaned thoroughly, and if necessary, repaired. All details are recorded as required on inspection sheets, checklists, repair reports and maintenance logs. All versions are then scanned and stored electronically for reference when required.

SHEQ Management System

We aspire to have safety and work practices to the highest standard and part of our team culture. This is particularly so for the higher likelihood of incidents that can occur when working in Construction and Mining with electrical plant and equipment, in the open and often remote locations. Heat Tech has a multi-tiered process in place to ensure all our employees and subcontractors are fully trained and follow industry leading safe work practices.

Jordan CPP

HSE Performers



HEAT TECH CREW

For providing dynamic and proactive construction support allowing the project to set welding production records whilst at all times achieving and exceeding the projects high safety standards. Positive behaviours and attitude onsite contributed to and enhanced the "Can Do" project culture.

Congratulations Heat Tech, keep up the good work!

everyone safe everyday **THIESS**





MEDIA

High quality heat treatment expertise

SEEKING to increase the heat treatment and associated engineering service levels to the construction, petrochemical manufacturing, mining and power generation sectors of industry, Heat Tech Australia was established in 1995.

Since then, the company has grown into a leading engineering service provider.

Offering reliable and high-quality service to industry, Heat Tech's technical service expertise has been achieved by senior management with more than 125 years of combined heat treatment and

leak sealing experience.

Gained throughout Australia and the Asia Pacific region, this experience is now manifest in the Heat Tech Australia/Thermal Hire Australia combined operation, which is the largest on-site heat treatment partnership in the southern hemisphere.

Heat Tech's heat treatment division is responsible for the provision of all heat treatment services including pre-heat, post-weld heat treatment, refractory dry-out and specialised services.

In addition, the company's leak

sealing division deals with the provision of all 'live line leak sealing' services.

Focused on conducting business with a high degree of honesty, fairness and integrity, the company is committed to continually responding to changing requirements in the environment, industry and the community to the benefit of its clients.

Heat treatment partnership responds to changing environment

THE PROVISION of continuous high-quality services has seen Heat Tech Australia develop into a progressive and reliable engineering service company with offices in Victoria, South Australia, Western Australia, Queensland (trading as Thermal Hire Australia) and New Zealand.

Established in 1995, Heat Tech sought to increase heat treatment and associated engineering service levels to the construction, petrochemical manufacturing, mining and power generation sectors of industry.

The company's technical service expertise has been achieved by combining senior management with more than 125 years of combined heat treatment and leak sealing experience.

Gained throughout Australia and the

Asia Pacific region, this experience is now manifest in the Heat Tech Australia/Thermal Hire Australia combined operation, which is the largest on-site heat treatment partnership in the southern hemisphere.

The company's heat treatment division is responsible for the provision of all heat treatment services including pre-heat, post-weld heat treatment, refractory dry-out and specialised services, and the leak sealing division for the provision of all 'live line leak sealing' services.

Dedicated to conducting business with a high degree of honesty, fairness and integrity, the company is devoted to continually responding to changing requirements in the environment, industry and the community, to the benefit of its clients.

SOCIAL MEDIA



[FACEBOOK.COM/HEATTECHAUSTRALIA](https://www.facebook.com/HEATTECHAUSTRALIA)



[INSTAGRAM.COM/HEATTECHAUSTRALIA3016](https://www.instagram.com/HEATTECHAUSTRALIA3016)



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