WATTS

HEATING EQUIPMENTS (I) PVT.LTD.

AN ISO 9001:2008 ORGANISATION

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Company Profile

We at "WATTS HEATING EQUIPMENTS INDIA PVT. LTD." formerly known as "WATTS ENGINEERING COMPANY, Pune – India", established in 1980, are proud to introduce ourselves as India's Top Industrial Heater designing, manufacturing and exporting organization.

The Chief Designers and Founders of WATTS basically come from a vast experience in the Furnace Technology, and so the bigger picture of producing and customizing the heaters with reference to the client's parameters comes to them as their second nature.

Today, where duplication, lack of after sales service and lack of insight is a bane to the heat treatment industry, WATTS not only assures you of handling these curses, but also promises to deliver better than promised.

We specialize in a variety of Heating Elements, especially in Bayonet Type, Cartridge Type, Bird Cage (Rod) Type, Sinus Loop Type, Wire Wound Type, Infrared Type, Folded N Formed Loop Type, etc. with more than 25,000 heaters currently running successfully all over India and abroad.

The applications for which the heaters are used are in Heat Treatment Industries, Galvanizing Industries, Aluminium Melting and Holding Industries, Glass Annealing Industries, Bearing Industries, Automobile Industries, Forging and Casting Industries,etc.

Here at WATTS, we also give special purpose heating equipment specifically custom designed for your application.

WATTS is an ISO 9001:2008 Organisation and has two certificates from TUVnord ; one is DAR (German Certificate) and the other is an NABCB (Indian Certificate).

Our exports in the past 9 years, have been mainly to USA, South Africa, Mexico, Guatemala, Ukraine, Egypt, Pakistan, Tanzania, Australia and Bangladesh.

Our esteemed clientele in India include : SKF India Ltd., Tata Motors Group, Ashok Leyland Ltd., Hindalco Group, Jindal Group, Bhushan Steels Group, Uttam Galva Ltd., Ispat Industries Ltd., Tube Products of India Ltd., Kennametal India Ltd., Sandvik Asia Ltd. etc. etc. and many furnace manufacturers.

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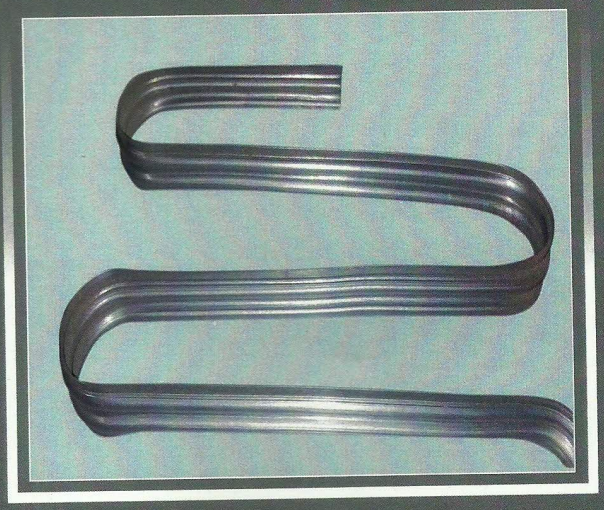
SINUS LOOP OR RIBBON / STRIP HEATING ELEMENTS :

Sinus Loop elements, often called as Ribbon / Strip Heating Elements, are often incorporated in every furnace manufacturer's design. These heaters have been used extensively in the carburizing furnace for the past 4 - 5 decades.

They can be formed into, what we call, multiple passes. i.e. as you can see in our logo, there are two passes, similarly they can be formed into three of four passes also.



MOUNTING :

The mounting of these Ribbon / Strip Heaters is done on the walls, doors, roofs and in some cases even on the floor. The high alumina ceramic / porcelain insulator hooks can be procured from us ex-stock.

SIZE :

The loop sizes are customized as per the dimensions of your furnace. They normally are from 50 mm to 160mm.

STRENGTH :

WATTS has the capability of utilizing the self-strength of the strip to give it extra strength and avoid warpage and sustain high temperatures for a long time. (Please see photos for reference).

TERMINATION :

Terminals can be removed either parallel or perpendicular to the element as per requirement.
They are normally tripled in thickness for decelerating the current flow.
A threaded stud can also be welded in some cases.

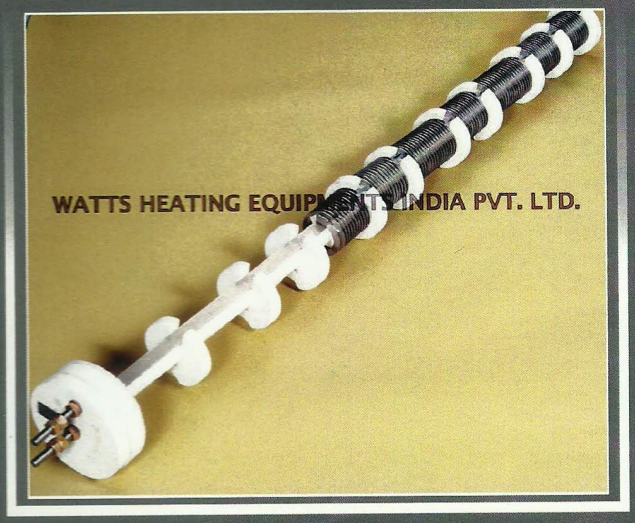
APPLICATIONS IN :

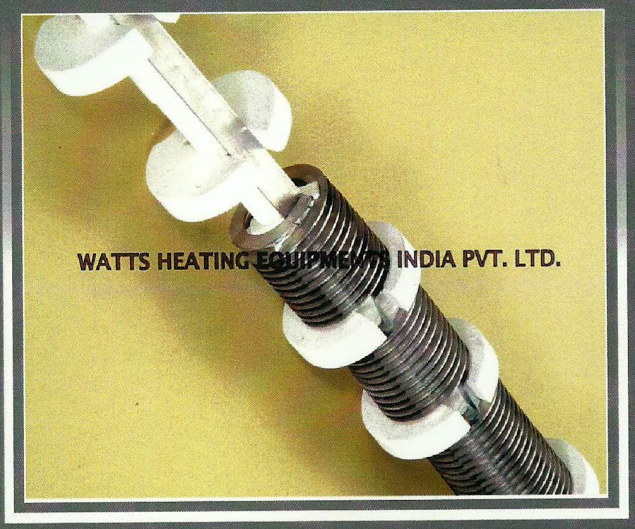
*Aluminum Melting and Holding ovens / Furnaces.
*Galvanizing pots.
*Heat treatment Industry.
*Automotive component heating.

RAW MATERIAL ALLOYS :

Nichrome , Kanthal A1 , Kanthal AF

EDGE WOUND BAYONET / CARTRIDGE TYPE STRIP HEATERS :





Specially designed and developed bayonet type heating elements are our speciality.
WATTS manufactures awide variety of Bayonet / Cartridge type high temperature industrial heaters for various Heat treatment applications.

Material grade used : Nickel 80% Chromium 20% (Nichrome) OR Kanthal A1 / AF strips

These Heaters are customized as per the client's requirements and are used either in horizontal or vertical application, in air or in atmosphere, protective tubes or radiant tubes. Heat distribution is selectively located according to each application's requirements.

They are called Edge wound Heating elements, simply because we wind the strip on the edge and then it is mounted on the high alumina ceramic supports. By doing this, there is maximum radiation of the surface area of the element as there is minimum contact of the strip to the ceramic support.

WATTS also supplies the Radiant tubes required for these heaters, which are either cast or fabricated.

WATTS bayonet / cartridge heaters can be used upto 1500 Deg. C furnace temperatures and depending upon the requirement, the power, voltage strip size etc are designed. In most cases, use of step down transformer is avoided and these bayonet / cartridge heaters can be directly connected in star or delta circuits.
Locating a failed element can be done quickly without cooling the furnace.

WATTS manufactures bayonet / cartridge elements suitable for a max. radiant tube O.D. of 195 - 200 mm. For lower temperatures, as high as 40kw per element rating can be easily supplied. However, for higher temperatures, rating per element is reduced considerably.

WATTS bayonet / cartridge heaters are rugged and robust in construction to last long.
However, in some cases wherein the electrical wiring is not upto the mark, or handling of the elements is not done carefully, and the elements need to be replaced urgently, they can be replaced within 30 minutes without shutting down the furnace.
It means no down time of your costly equipment, in turn no production loss and thus higher productivity.

Today, more than 25,000 of these heaters manufactured by WATTS, are working all over the world.

Applications in :

* Automotive Industry ovens and furnaces.
* Ovens and furnaces for Heat treatment applications like tempering, annealing, soaking
* Bearing Industry.
* Galvanizing lines , pots.
* Aluminum and steel industry.

BIRDCAGE OR BUNDLEROD HEATERS

WATTS manufactures a wide variety of Birdcage or Bundlerod Cartridge type high temperature industrial heaters for various Heat treatment applications.
(They are also called as Tubothal elements or Firebar or Firerod heaters.)TM

Material grade used : Nickel 80% Chromium 20% (Nichrome) OR Kanthal A1 / AF wire ,Kanthal APM , Rescal PRM

These Heaters are customized as per the client's requirements and are used either in horizontal or vertical application, in air or in atmosphere, protective tubes or radiant tubes. Heat distribution is selectively located according to each application's requirements.

WATTS also supplies the Radiant tubes required for these Bundlerod / cartridge heaters, which are either cast or fabricated.

WATTS bundlerod / cartridge heaters can be used upto 1000 Deg. C furnace temperatures and depending upon the requirement, the power, voltage wire size etc are designed.

In most cases, use of step down transformer is avoided and these bayonet / cartridge heaters can be directly connected in star or delta circuits.Locating a failed element can be done quickly without cooling the furnace.

WATTS manufactures birdcage / cartridge elements suitable for a max. radiant tube O.D. of 195 - 200 mm. For lower temperatures, as high as 45kw per element rating can be easily supplied.
However, for higher temperatures, rating per element is reduced considerably.

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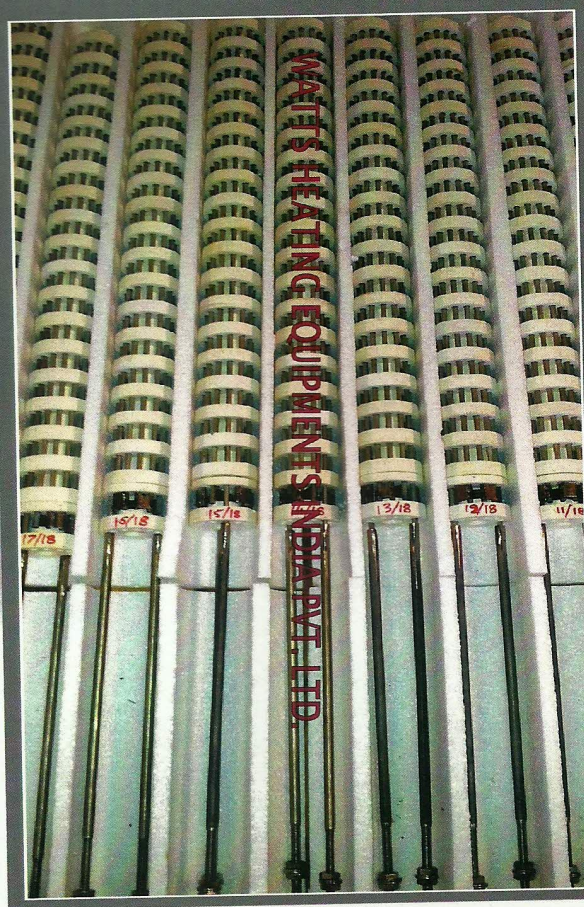
BIRDCAGE OR BUNDLEROD HEATERS



APPLICATIONS IN :

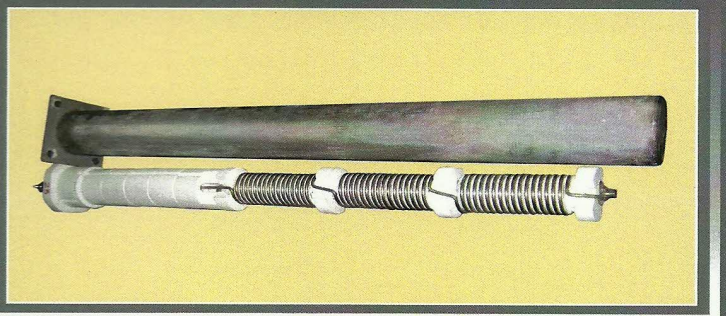
* Automotive Industry ovens and furnaces.
* Ovens and furnaces for Heat treatment applications like tempering, annealing, soaking
* ERTH & Hot Bridle Zones of Galvanizing lines

HELICAL COIL OR COILED WIRE HEATERS :

Material grade used : Nichrome OR Kanthal A1 / AF

Coiled Heating wire is mostly used in many high temperature applications, including electric furnaces, radiation heating and air heating.

WATTS normally customizes the bends (C - Type or S - Type) as per the client's requirement. Coiled Heating elements are usually mounted on grooved bricks or on ceramic tubes which are then mounted on the furnace walls.



Applications in :

* Aluminum Melting and Holding Ovens and Furnaces.
* Heaters for Ammonia Crackers.
* Automotive Industry ovens and furnaces.
* Ovens and furnaces for Heat treatment applications like tempering, annealing, soaking

ELECTRIC INFRA RED HEATERS :

THE WATTS INFRARED HEATER ADVANTAGE :

- Maximum Energy efficiency, hence savings.
- Super fast reaction time (On-OFF).
- No increased start-up current.
- Medium wave energy in the best absorption range
- Continuously controllable from ambient to 800°C
- Watt density up to 4.5 WATTS/ SQ.CM OR an accomodation of 45 kW/sq.m.
- Full area heating / radiating
- Modular sizes and custom made
- Usable at all voltages.Can also be controlled via Phase angle Thyristor control.
- fully controllable

The fast medium wave WATTS INFRARED heaters are way superior to the conventional heaters due to the physical properties of almost all materials which can be treated by infrared.

The medium-wave radiation in the range of 2,5 µm - 3,5 µm gets the best results. This is just the emission range where WATTS INFRARED heaters achieve their highest performance.

These heaters can be supplied in modular formats which are custom designed to suit the client needs in almost all applications.

WATTS INFRARED HEATERS boasts about the shortest reaction (ON/OFF) time i.e. from ambient to 800 deg. C filament temperatures in just 6 seconds. This will ensure highest economical use of your electricity and fastest adaptation to the required temperatures on the surfaces of the products.

The radiations from these heaters are straight line minimizing the Heat losses. They can be designed for a gentle action also hence saving a lot of your energy in the process.

WATTS INFRARED HEATER APPLICATIONS :

- Coating of plastic, textile, paper, etc.
- Thermoforming. Ex. : Car floor mats.
- Core Baking process.
- Lamination process.
- Melting of plastic powder
- Curing of plastics (gelification process.)
- Preheating before embossing.
- Moisture removal.
- Paint drying.
- Die heating etc....
- Basically the WATTS INFRA RED heaters can be used anywhere,
- Where Energy / Power saving is the primary concern,
- Where instant heat adaptation is required.
- Where uniformity in temperature is a must and a
- No-shadowing effect is required.

TECHNICAL INFORMATION :

Electrically-heated infrared heaters radiate up to 86% of their input as radiant energy. Nearly all the electrical energy input is converted into infrared radiant heat in the filament and directed onto the product. Some energy is lost due to conduction or convection.For practical applications, the efficiency of the infrared heater depends on matching the emitted wavelength and the absorption spectrum of the material to be heated. For example, the absorption spectrum for water has its peak at around 3000 nm. This means that emission from medium-wave infrared heaters are much better absorbed by water and water-based coatings than short-wave infrared radiation. The same is true for many plastics like PVC or polyethylene. Their peak absorption is around 3500 nm. On the other hand, some metals absorb only in the short-wave range and show a strong reflectivity in the medium and far infrared. This makes a careful selection of the right infrared heater type important for energy efficiency in the heating process.

QUARTZ TUBE INFRARED HEATERS :

Quartz tube infrared heaters are mostly used for speedy response applications. Quartz tubes have virtually no weight and come up to their full intensity in a very short timespan.
The heating element design governs the actual time required for the heater to come up to it's full intensity, which is generally customized as per requirement.

The quartz tubes can be provided with many different end terminations to meet the needs of the equipment manufacturer. Customization can be done in the termination ceramic, tube diameter (standard size 25mm), tube length (standard sizes from 1250mm - 2000mm). Quartz tubes are either transparent, or milky (opaque). Transparent tubes are preferred for high watt density and faster response applications, while the milky tubes are preferred in lower watt density applications and to hide the heater filament.

CENTRIFUGALLY CAST RADIANT TUBES :

These Protective Radiant tubes are centrifugally cast, blasted and cut to length prior to being welded into Radiant tube assembly.

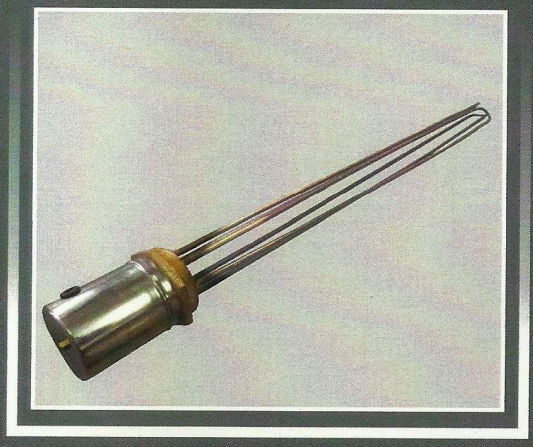
The centrifugally cast radiant tube assemblies are mostly used in continuous galvanizing furnaces.

These radiant tubes are offered in customized diameters, lengths, wall thicknesses and alloy compositions to meet your requirements.

The cast tubes can be used as radiant tube assemblies which help in element protection and enhance the heater life.

OIL / WATER IMMERSION ; AIR OR CHEMICAL HEATING :

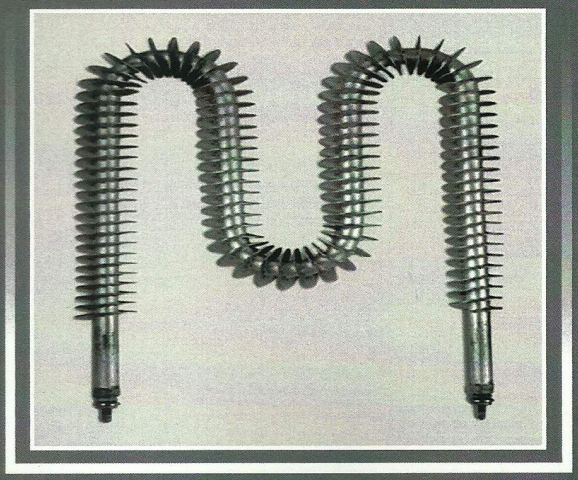
WATTS flanged water / oil / chemical immersion heaters are easy to install and maintain. Designed for heating liquids and gases in small as well as large tanks and pressure vessels, flanged immersion heaters are ideal for applications requiring higher kilowatts.
WATTS flanged water / oil immersion heaters are made with tubular elements brazed or welded to a flange equipped with a general purpose terminal enclosure.



FINNED STRIP OR TUBULAR AIR HEATER :

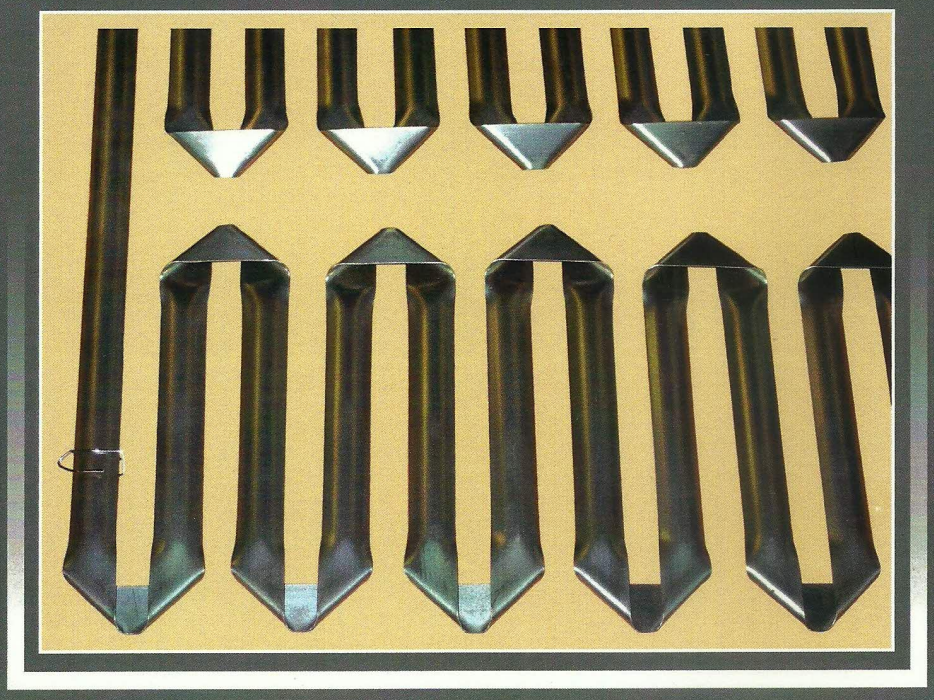
WATTS' finned strip or tubular heaters are constructed of highly-compacted MgO-based insulation, which conducts heat efficiently from the nickel chromium element wire to the sheath.

Steel fins are attached in a way that maximizes surface contact so heat is transferred into the air faster. Lower sheath temperature and element life are all maximized by this finned construction. Finned strip or tubular air heaters com in various l engths as per requirement.



FOLDED N FORMED TYPE HEATING ELEMENTS :

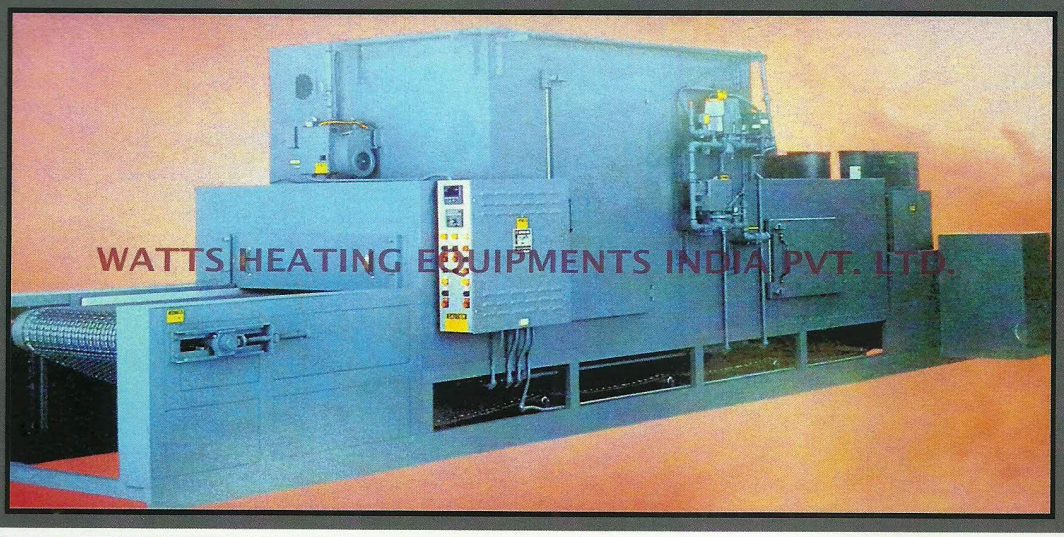
* Excellent element life due to maximum heat dissipation at lower element temperatures.
*Maximum direct radiation on the job.
* Folded N formed heaters have faster Heat dissipation at lower watt densities.
* Heats up and cools down much faster than the conventional heating elements.
* Very cost effective.
* Minimum localized heating since the radiation is directly on the job rather than the neighboring element.
* Folded N Formed heaters improve air circulation efficiency since the air is heated immediately from the flat radiating surfaces with minimum resistance.
* Easy installation.
* Self strengthening structure adds to the stability for a prolonged use.



Oven

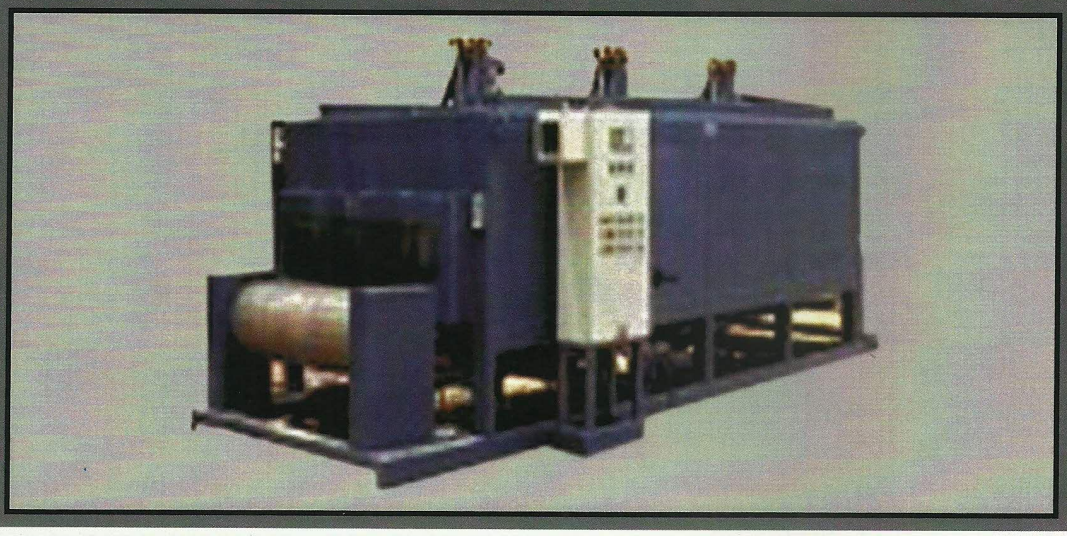
MESH BELT CONVEYOR OVENS :

The size of the conveyor is customised for your application by estimating the heating zone length, production time, soaking time, charge weight etc. Vertical downward air flow between full coverage baffles above and below the conveyor belt are normally provided.
Additionally, Cooling Zones with water jacket cooling, exhaust hoods, with or without axial fans to exhaust heat or fumes from the heating chamber, Multiple Heating Zones, Belt speed Indicator cum controller etc can be incorporated in the designs.



Standard features :

M.S. / S.S. Interior depending upon Maximum temperature rating.
M.S. Exterior with Heat resistant paint finishing.
Heavy duty, completely welded, structural steel slide bed supported by cross angles welded to vertical structural members to transfer load to the bottom.
Heavy duty variable speed belt drive with VFD.
Belt tracking and guidance with rollers to prevent shifting and potential damage.
Exhaust / Dampers for adjusting the heat losses from the Heating zones.
Heat resistant Silver paint used for finishing.



Furnace

CALCINATION FURNACE FOR AMMONIUM PARATUNGSTATE (APT) & REDUCTION FURNACE FOR TUNGSTEN TRIOXIDE (WO3) :

Ammonium paratungstate (or APT) is a white crystalline salt of ammonium and tungsten, with the chemical formula $(NH_4)_{10}(W_{12}O_{41}) \cdot 5H_2O$.

Ammonium paratungstate is produced separating tungsten from its ore. Once the ammonium paratungstate is prepared, it is heated to its decomposition temperature, 600 °C. Left over is WO_3, tungsten(VI) oxide.

This process is usually done in a Box type furnace in a Batch process.

WATTS is the first company in India to design, manufacture and successfully commission a Roller Hearth Calcination furnace for the removal of Ammonia from APT to give an end product of Tungsten Trioxide, that too in a continuous process of 50kgs / hour.

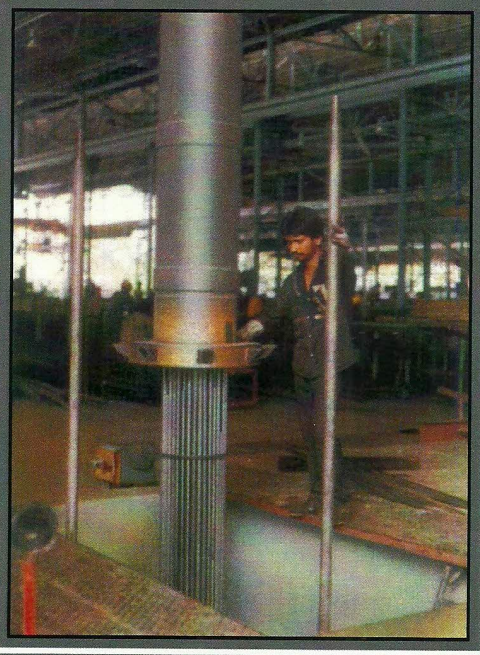
Tungsten trioxide is used for many purposes in everyday life. It is frequently used in industry to manufacture tungstates for x-ray screen phosphors, for fireproofing fabrics and in gas sensors. Due to its rich yellow color, WO_3 is also used as a pigment in ceramics and paints.

Tungsten trioxide is heated in an atmosphere of hydrogen, reducing the tungsten to elemental powder, leaving behind water vapor. From there, the tungsten powder can be fused into any numberof things, from wire to bars to other shapes. WATTS has designed, manufactured and successfully commissioned a Reduction furnace for WO_3 for 6kgs/ hour per Muffle x 4 muffles = 24 kgs. / hour production rate.

The furnace is also fitted with a Hydrogen recovery system which saves @ 30 - 50% hydrogen.

General Furnaces

WATTS is committed to designing and building heat treating furnace systems which meet the widely varying needs of industry.
Even if your application demands operator flexibility and exacting cycle control we have the know-how and engineering expertise to produce the right system for you.
General Furnace installations range from a single heat treating unit to a complete system incorporating the furnace, system controls, gas atmosphere generator, quench tanks, transfer and charge cars, auto loading and washing equipment.
These furnaces are designed to provide consistent results through even and uniform heat distribution, accurate temperature control and constant analysis of furnace atmosphere. Effective insulation reduces heat loss into the work environment and aids in faster heat-up.
General Furnaces utilize varying electric heating elements or gas-fired /oil-fired burners.



APPLICATIONS

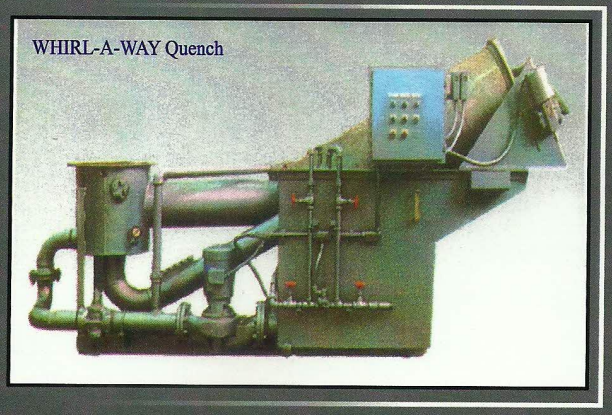
Furnace are used in the processing of parts of all sizes and weights from grams to tons including forgings, tools and dies, busings, gears, springs, bearings, sockets, fasteners, washers and many others. Among the operations typically performed are atmosphere hardening, carbonitriding, carburizing,drawing, tempering, annealing, stress relieving, quenching, brazing and sintering.

Batch Furnaces

Batch type furnaces combine operating flexibility with exacting cycle control, custom engineered to your individual heat treating need. Designs include a wide variety of bell, box, pit and integral quench furnaces. These systems offer a selection of mounting configurations, loading methods, cycle parameters and temperature capabilities from 150^{0}C to 1400^{0}C.

Continuous Furnaces

Continuous-type furnaces are designed to provide the through-put necessary for high volume production operations. These furnaces can be utilized for single applications in an automated production line or multiple applications within a heat treating department. Among the many continuous-type furnaces are belt type conveyors, overhead conveyors, screw conveyors, slat and flight conveyors, roller hearths, shuffle hearths, rotary hearths, walking beam and rotary retorts.



WHIRL-A-WAY Quench

Auxiliary Equipment

Achieving maximum efficiency and productivity of any furnace installation is often reliant upon utilizing the appropriate auxiliary equipment. WHEIPL can furnish a variety of gas atmosphere generators, refrigerant dryers, material handling equipment, charge and transfer cars and load/unload mechanisms for manual or fully automated operation. When planning your new heat treating operation, consult our engineers to ensure your furnace system is as productive as possible.

Controlled Atmosphere roller hearth for Hardening of bearing races

ALUMINIUM PROCESS FURNACES

THE manufacturing applications for aluminium have grown exponentially, while the specification and tolerance requirement have become far more exacting. To improve the processing capabilities of aluminium furnaces, advanced air flow and insulation designs offer significant improvements in process control and equipment productivity.

APPLICATIONS

Aluminium process furnaces satisfy a wide range of applications including coil and foil annealing, ingot preheating and homogenizing, billet and log homogenizing for the extrusion industry and solution treating and ageing.

COIL AND FOIL

Coil and foil annealing furnaces feature energy efficient designs providing exceptional temperature uniformity and innovative charging techniques. Utilizing our air-to-work ratio control system, these annealing furnaces monitor and control the relationship between the load temperature and air temperature in order to produce the shortest possible heating time. These units incorporate a vertical airflow and baffle on each side of the load to control airflow recirculation and increase heat transfer and temperature uniformity. WHEIPL also offers bypass cooling systems providing plunge, programmed or auxiliary cooling.

SOLUTION TREATMENT

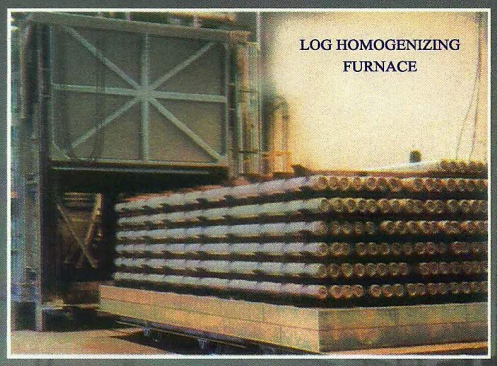
A complete line of custom engineered furnaces for solution heat treating is available. Batch and continuous-type systems are produced in roller hearth, pusher and monorail designs. Batch furnaces utilize convection heating with high velocity air and varying airflow patterns to meet rigid quality and production

INGOT HEATING FURNACE

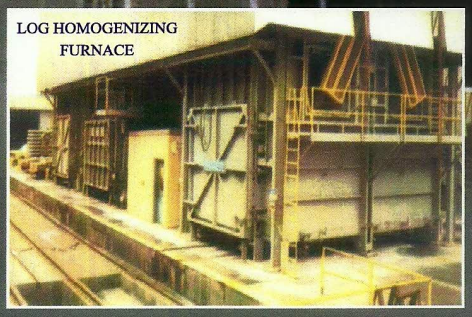
There are three types of furnaces for aluminium ingot preheating and homogenizing pusher, soaking pit and car-type. Ingot preheat furnaces are engineered to optimize heat input, air circulation and furnace efficiency.
This results in achieving fast heat-up rates without compromising load uniformity or thermal efficiency.
Temperature control systems use thermal head heating without load thermocouples and are available for reversing cross-flow airstreams or vertical airflow designs.

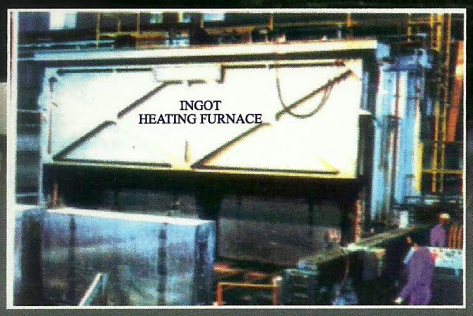
LOG HOMOGENIZING

WHEIPL offers a wide variety of batch and continuous-type furnace designs for aluminium lot homogenizing. These furnaces utilize a reversing airflow system for even heat distribution and increased productivity. As a result of the excellent air and load temperature uniformity provided by the reversing cross-flow system, a higher thermal head temperature can be used, requiring less time for the logs to heat up and reducing the temperature variance along the logs. This process also produces shorter soak times, better homogenization and a more consistent product.


LOG HOMOGENIZING FURNACE

Coil Annealing Furnace


LOG HOMOGENIZING FURNACE


INGOT HEATING FURNACE

COMTRO MODULAR INCINERATION SYSTEM

POT AND CRUCIBLE

WATTS offer abroad line of stationary pot and Crucible melting and holding Furnaces. These furnaces represent a space-efficient and economical means to provide molten metal for casting production. Pot furnaces facilitate easy alloy changes, have a low maintenance requirement and can be gas/oil, dual fuel systems. Crucible furnaces are utilized primarily for aluminum alloys whose metallurgical compositions must be closely monitored. These furnaces also allow for easy alloy changes and are available either electrically gas heated/oil heated.

TILTING FURNACE

CRUCIBLE FURNACE

WATTS offer modular waste combustion systems which provide environ mentally safe waste disposal and offer great flexibility in developing an integrated waste materials. Comtro modular systems also offer heat recovery packages and air quality control equipment to safely convert solid waste into useful energy.

APPLICATIONS

The benefits of a Comtro modular incineration system make it an attractive option for any facility or community which produces a consistent waste stream that needs to be closely controlled. Health care institution represents an excellent application for modular incinerators. The physical properties of waste in this industry, the importance of eliminating infectious matter, and the need for onsite steam energy make comtro systems can be installed in medical/dental facilities, entertainment complexes, manufacturing plants, government installations, retail outlets and many other locations.

INCINERATOR DESIGN

Comtro modular incinerators rely upon a dual chamber to achieve completer thermal destruction of waste materials. These systems utilize Comtro's patented turbo air control system to provide complete Combustion and substantial fuel savings in the secondary chamber relative to conventional designs.

A complete line of auxiliary equipment includes waste loaders, as handling systems, heat recovery modules, special air quality control components, special control inter locks, special stack configurations, multiple fuel systems, liquid waste injection systems, as well as additional hardware for insurance compliance and unique requirements.
All comtro units are completely assembled and tested prior to shipment.

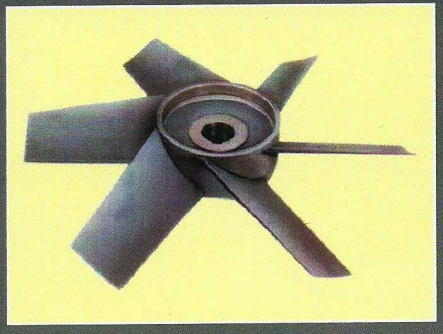
INCINERATOR FOR MEDICAL WASTE FACILITY

AUXILIARY EQUIPMENT AND SERVICES :

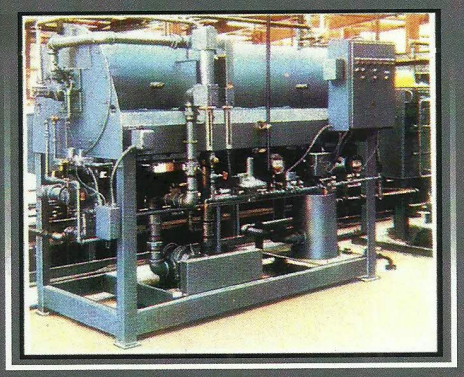
WATTS has dedicated significant resources towards developing all of the equipment and services necessary to install and maintain an efficient furnace system. Complementing the furnaces detailed on the previous pages is a line of atmosphere generators, furnace control packages and replacement spare parts, as well as installation, maintenance and refurbishment services. Whatever your heat treatment problem, let Finishing Furnace Systems turnkey furnace program provide the solution.

EQUIPMENT REFURBISHMENT :

Temporary budget constraints occasionally prohibit purchase of new capital equipment. During these times, equipment refurbishment can represent an attractive option. Economical furnace rebuilding and remanufacturing will increase the service life, productivity, efficiency and safety of your existing furnace. WHEIPL offers both on-site and factory refurbishment programs. In adition to rebuilding, your furnace can be upgraded with state-of-the-art replacement parts and control packages to bring its performance up to current standards.



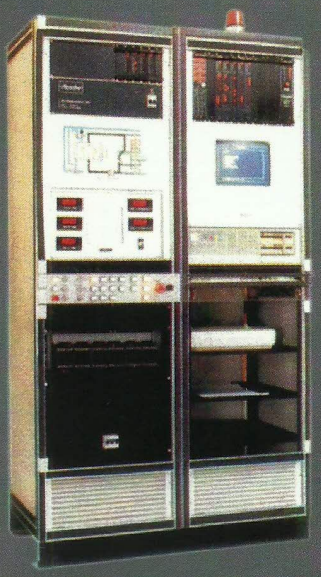
ATMOSPHERE GENERATORS : WHEIPL offers four types of protective gas atmosphere generators : Exogas (Exothermic) , Ammogas (dissociated ammonia), Endogas (Endothermic) and Monogas (Nitrogen). Our standard line of gas generators delivers precise, consistent control of the final gas produced and should be a primary safety consideration for any installation. WHEIPL gas atmosphere generators feature a smaller, more compact design and are capable of output ratings from 5 to 2000 cubic m / hr.



SERVICES AND REPLACEMENT PARTS :

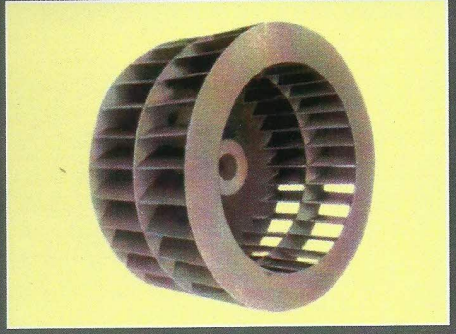
Proper maintenance is an essential element in promoting optimum performance and prolonging the life expectancy of a furnace. WHEIPL field service department is ready to help you maximize the efficiency of your equipment while minimizing its downtime. Our staff of trained technicians will perform scheduled maintenance, as well as troubleshoot and repair inoperable systems.

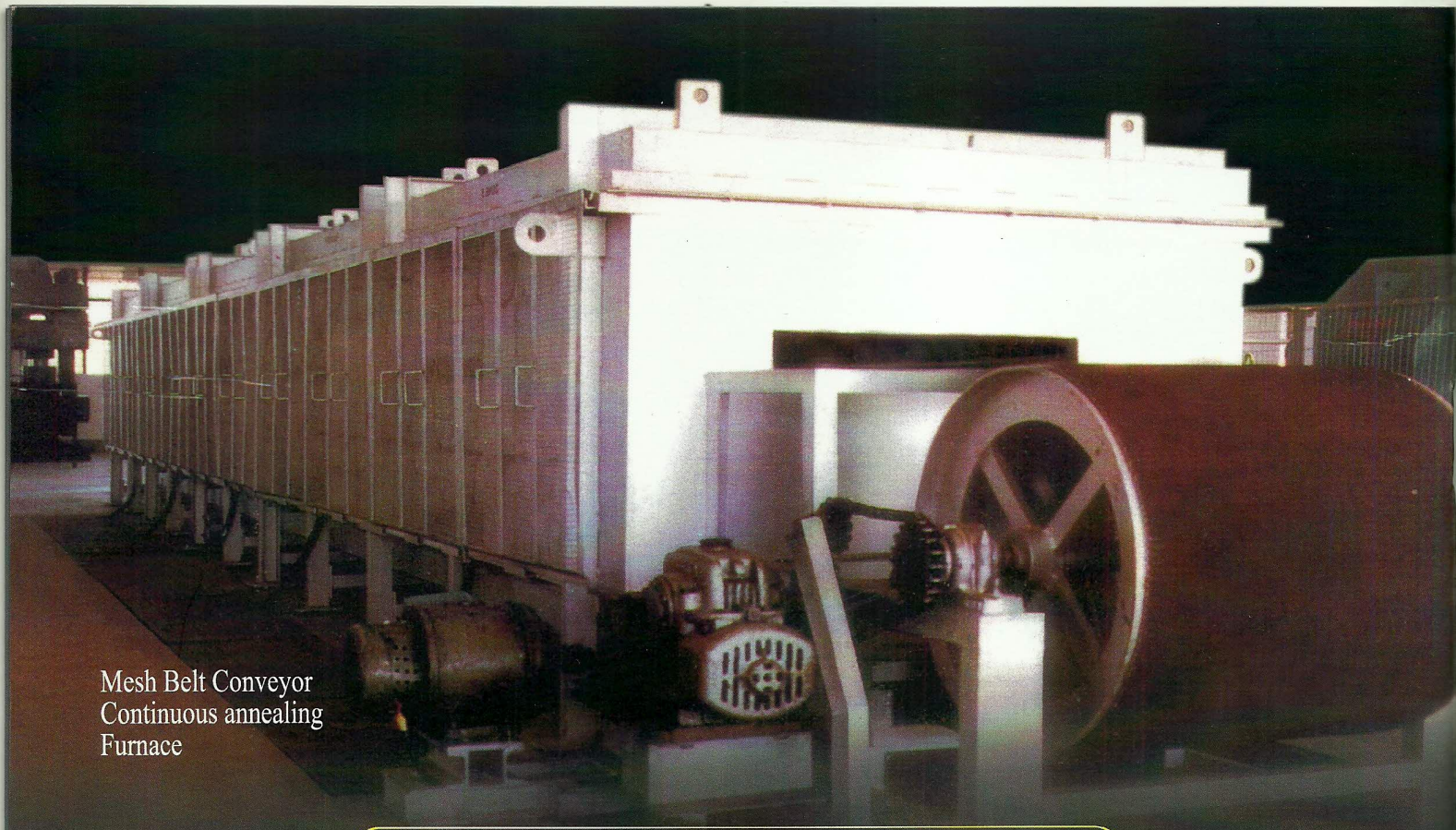
WHEIPL offers a broad range of replacement parts to service damaged or outdated items. These parts are manufactured in accordance with all WHEIPL quality standards and are available for any make of Furnace. Pictured above are our bayonet heating element & axial and radial fan impellers.



FURNACE CONTROLS :

For many furnace installations, achieving the required process accuracy is reliant upon the furnace control system. WHEIPL custom engineered control packages provide all the monitoring, control and data acquisition capabilities you demand. Our computerized control systems utilize sophisticated software to ensure accurate and efficient furnace performance, as well as complete integration of related process equipment. All WHEIPL control packages are engineered, fabricated, wired and tested prior to shipment.

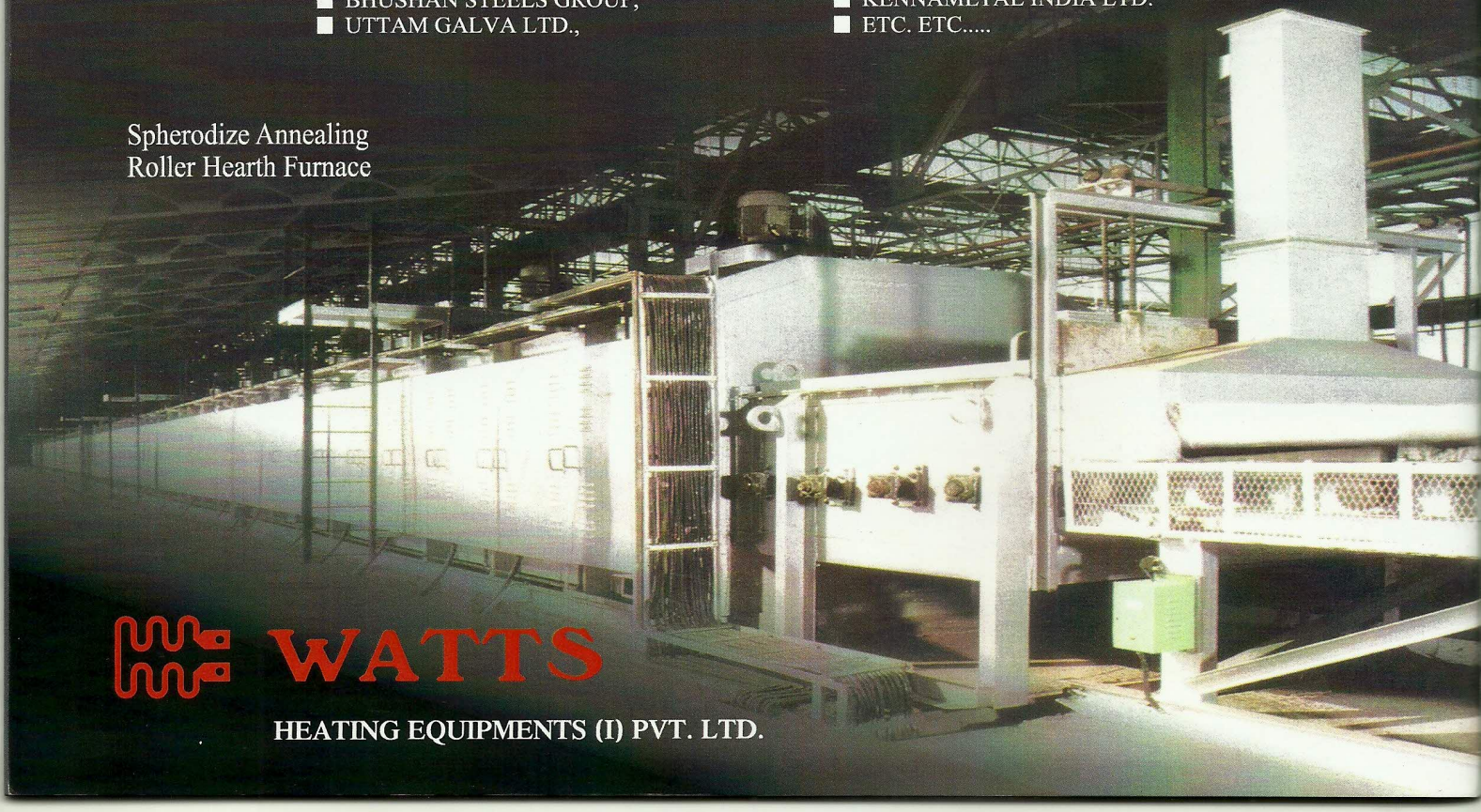




Mesh Belt Conveyor
Continuous annealing
Furnace

SOME OF OUR ESTEEMED CLIENTELE INCLUDE

- SKF BEARING (INDIA) LTD.
- HINDALCO GROUP
- TATA MOTORS GROUP
- ASHOK LEYLAND
- ORDNANCE FACTORY
- THE INDIAN SEAMLESS METAL TUBES LTD.
- JINDAL GROUP,
- BHUSHAN STEELS GROUP,
- UTTAM GALVA LTD.,
- BAJAJ GROUP INDIA
- SANDVIK ASIA LTD.
- GREAVES LTD.
- SAINT GOBIN
- WESMAN ENGINEERING CO.LTD.
- ISPAT INDUSTRIES LTD.,
- TUBE PRODUCTS OF INDIA LTD.,
- KENNAMETAL INDIA LTD.
- ETC. ETC.....



Spherodize Annealing
Roller Hearth Furnace

WATTS

HEATING EQUIPMENTS (I) PVT. LTD.

Company Profile

We at "WATTS HEATING EQUIPMENTS INDIA PVT. LTD."
formerly known as "WATTS ENGINEERING COMPANY, Pune – India", established in 1980, are proud to introduce ourselves as India's Top Industrial Heater designing, manufacturing and exporting organization.

The Chief Designers and Founders of WATTS basically come from a vast experience in the Furnace Technology, and so the bigger picture of producing and customizing the heaters with reference to the client's parameters comes to them as their second nature.

Today, where duplication, lack of after sales service and lack of insight is a bane to the heat treatment industry, WATTS not only assures you of handling these curses, but also promises to deliver better than promised.

We specialize in a variety of Heating Elements, especially in Bayonet Type, Cartridge Type, Bird Cage (Rod) Type, Sinus Loop Type, Wire Wound Type, Infrared Type, Folded N Formed Loop Type, etc. with more than 25,000 heaters currently running successfully all over India and abroad.

The applications for which the heaters are used are in Heat Treatment Industries, Galvanizing Industries, Aluminium Melting and Holding Industries, Glass Annealing Industries, Bearing Industries, Automobile Industries, Forging and Casting Industries,etc.

Here at WATTS, we also give special purpose heating equipment specifically custom designed for your application.

WATTS is an ISO 9001:2008 Organisation and has two certificates from TUVnord ; one is DAR (German Certificate) and the other is an NABCB (Indian Certificate).

Our exports in the past 9 years, have been mainly to USA, South Africa, Mexico, Guatemala, Ukraine, Egypt, Pakistan, Tanzania, Australia and Bangladesh.

Our esteemed clientele in India include : SKF India Ltd., Tata Motors Group, Ashok Leyland Ltd., Hindalco Group, Jindal Group, Bhushan Steels Group, Uttam Galva Ltd., Ispat Industries Ltd., Tube Products of India Ltd., Kennametal India Ltd., Sandvik Asia Ltd. etc. etc. and many furnace manufacturers.

SATISH KIRANE
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Our Marketing & After sales associates :

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