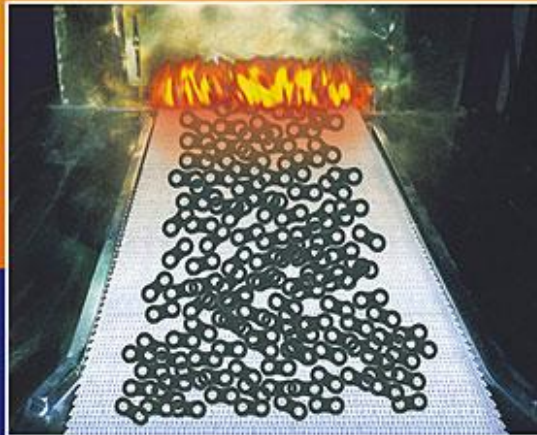


CONTINUOUS
CONVEYOR
&
BATCH FURNACES

*For The
Auto, Powder
Metallurgy
& Other
Various
Industries*



*Quality
In Process
and Product*



BAJAJ FURNACES & HEATING SYSTEMS

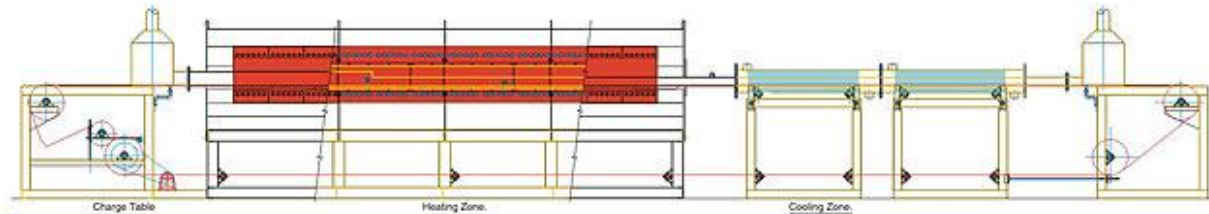


CONTINUOUS SINTERING/BRAZING FURNACES

Continuous Sintering Furnace can be offered up to temperature of 1100°C with Electrically Heating system. We have the expertise to configure a furnace system to your heat treating application, optimizing the design for economy, flexibility, throughput, and efficiency. Continuous belt designs offer uniformity in process, resulting in less variability in your product.

THERMAL PROCESS SPECIALISTS

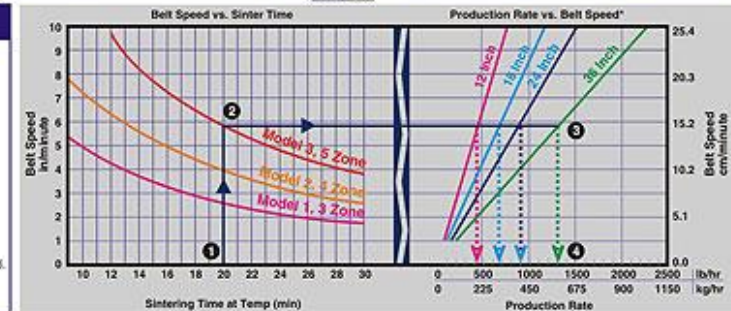
Sintering is a continuous process furnace for your metallurgical application, including: Annealing, Tempering, Brazing, Metallizing and Coating, Glass to Metal Bonding, Lubricant Burn-off, Oxidizing/Steam Treating, Powder Metal Sintering.



FURNACE CAPACITY CHART

- 1 Select sintering time at temperature based on desired properties.
- 2 Determine speed of the belt based on selected furnace model.
- 3 Follow belt speed to choose right available belts widths.
- 4 Read estimated production rate from the horizontal scale.

* Production rate is based on a uniform 15 lbs/ft² or 75 kg/m² belt load.
Note: Values are representatives.
Results may vary based upon specific conditions.

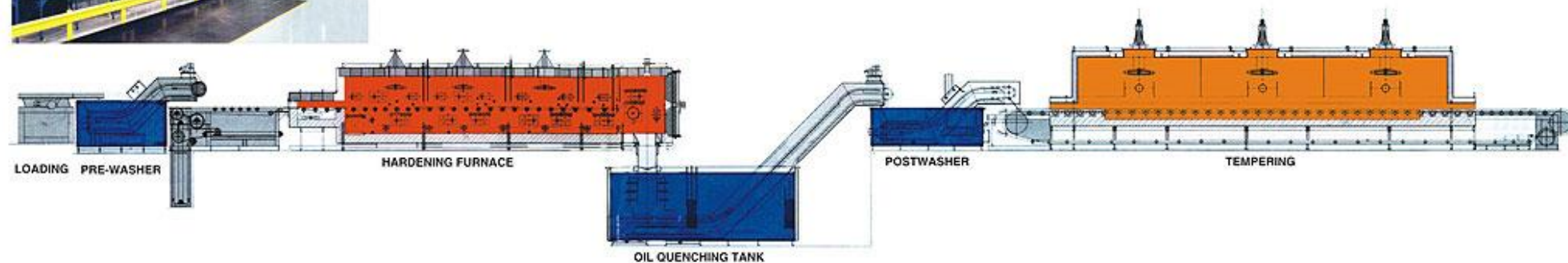


CONTINUOUS MESH BELT TYPE FURNACES

The Continuous Mesh/Conveyor Belt Type Furnace can be used up to temperature of 1000°C for hardening, quenching & tempering for various components like fasteners, bearings, automobile components, chain components & various other components. The furnace is offered with Electrically heating system complete with controls. The furnace is offered with inert atmosphere to get the product scale free as well as to avoid the D-carb. The furnace is provided with latest technology by using the ceramic fiber modules/board. The speed of the belt can be varied by means of variable drive.

Features/Benefits :

- Consistent Results of product being heat treated
- Total data monitoring and control
- Conventional endothermic or nitrogen-methanol atmosphere designs
- Easily manageable by single operator
- Low maintenance, Low production cost.
- Heavy-duty mesh belt quench conveyor





BOX TYPE/BOGIE HEARTH FURNACES

These types of furnaces are versatile furnaces having fixed hearth or movable hearth. The furnace can be offered for a maximum temperature of 1100°C with control system. This furnace can be used for neutral hardening, carburising, annealing, normalizing, tempering etc. Furnace can be offered with Electrically Heating/Gas/Oil Firing system.



VERTICAL RETORT/PIT TYPE FURNACES

Vertical Retort/Pit Type Furnace is a universal furnace for heat treatment under protective gas atmosphere or vacuum. With this furnace even a small heat treatment shop can heat treat materials under special and varying atmosphere. This Furnace is suitable up to temperature of 1000°C and can be used for various application like; Gas Carburising, Gas Nitriding, Bright Annealing, Hardening & Tempering, etc.



CHAMBER TYPE OVENS

Chamber Type Ovens are designed for industrial application up to temperature of 400°C. The oven is complete with automatic control system, Force Air Circulation arrangement for temperature uniformity. The Oven can be offered as per the requirement of customer. This oven can be used for drying, heating, baking, ageing and curing of components of various industries associated with chemical plastic, paint & rubber etc. The oven can be offered with thyristor control for better uniformity of temperature.



CONTINUOUS OVENS

Continuous Ovens are meant for higher production as well as for better result. The Oven is provided with endless conveyor complete with variable control system for controlling the soaking period as well as the speed of conveyor. The material of conveyor can be carbon steel/SS-304 depending upon the application. The Oven can be used for various applications for drying of powder, plastic material, food processing, automobiles, ceramics, electronics, rubber and various industries. The Oven is offered up to temperature of 400°C with Electrically Heating, Gas & Oil Firing System.



CONTINUOUS FURNACES

Continuous Furnace /Conveyor Furnaces are used for various applications up to temperature of 950°C like ; Hardening, Normalising, Annealing, Tempering, Age Hardening & Solution Treatment.

The furnace is offered with Automatic/Thyrister control system and can be supplied with movable system so that the furnace can be easily moved from one to other place. The furnaces are offered with variable drive so that the soaking period/speed of the belt can be adjusted as per the heat treatment result required.



CONTINUOUS/ BATCH TYPE WASHING MACHINES

We can offer Washing Machines with batch/continuous system. In case of continuous we offer Three Zones i.e. Degreasing, Rinsing & Drying prior to entering the hardening furnace. Similarly batch type washing machines are provided with degreasing and rinsing system only. The Washing machines are used to remove carbon/oil before carburising/hardening of components. As well as the Washers are used after quenching of the component to remove the oil etc. The machines are offered with complete control system.



ENDO GAS GENERATOR

Endo Gas Generator consists of pressure reducing station, flow meter, mixing unit, cracking retort, electrically heated furnace, cracked gas cooler, electrical control gear and dew point control system. All of these components are accommodated in a single compact unit. The two stage pressure reducing station is used to reduce the LPG pressure to 25mm wc. then the source gas i.e. LPG + Air is further drawn by a Booster and fed through a mixture line to the cracking retort. Where as the flow and ratio of LPG/Air can be maintain with the individual flow meters of LPG and Air. Conversion of mixture to endo gas takes place in the presence of high-activity catalysts of Ni at a working temperature of about 1000°C to 1050°C. This product gas is further cooled down to ambient temperature in shell and tube type heat exchanger.



ROTARY RETORT FURNACES

Rotary Retort Furnaces are offered with Electrically heating, Oil & Gas Firing system consisting of control system, Ammonia feeding & diesel feeding system for carbonitriding process. The furnace is lined with ceramic fiber modules fitted with variable speed drive arrangement for rotating the retort, which is in octagonal shape. Due to this shape each and every components being treated in the furnace is fully exposed to the heat & atmosphere which in turns gives the better heat treatment results as well as uniform hardness throughout the component. This is a very versatile furnace and can be used for various processing like carbonitriding, carburising, normalizing, tempering and annealing of various small components like nuts, bolts, bearing components, needles, rollers, steel balls and other automotive components. The furnace is offered up to temperature of 950°C.



BFHS offer special purpose machines fabricated out of SS-304 / SS-316 / SS-310 for various industries like:

1. Food processing Industry
2. Chemical Industry
3. Foot wear Industry
4. Breweries
5. Any other industries requiring special purpose machines for material / powder handling.



BFHS

BAJAJ FURNACES & HEATING SYSTEMS are leading manufacturers of Industrial Furnaces, Ovens, Endo Gas Generators, Protective Gas producing plants. They have been supplying equipment to many engineering industries.

BFHS offers latest technology in furnaces and other special equipments based on their 35 years of long experience and technical expertise. **BFHS** believes in serving the industries by offering quality and reliable products at very competitive prices.

BFHS - RANGE OF ELECTRICALLY HEATED, GAS OIL FIRED FURNACES, HEATING SYSTEMS AND ACCESSORIES

- | | |
|--|--|
| ❖ Bogie Hearth / Chamber Furnaces. | ❖ Pull Through Furnaces. |
| ❖ Roller Hearth Furnaces. | ❖ Forging / Normalizing / Malleabilising Furnaces. |
| ❖ Pit Pot Furnaces. | ❖ Batch / Continuous ovens. |
| ❖ Salt Bath Furnaces. | ❖ Gas Generator. |
| ❖ Forced Air Circulation Tempering Furnaces. | ❖ Quenching Tanks. |
| ❖ Holding / Melting Furnaces. | ❖ Washing Machines. |
| ❖ Bell / Elevator Furnaces. | ❖ Controls Panels. |
| ❖ Gas Carbursing Furnaces. | ❖ Oil Burning & Controlling Equipments & Accessories |
| ❖ Continuous Conveyorised Furnaces. | ❖ Complete & Custom Built Heat Treatment Systems with Consultancy. |
| ❖ Pusher Furnaces. | ❖ Spares for Furnaces as per your Drawings. |

Lab Furnaces up to 1600°C temperature.



BAJAJ FURNACES & HEATING SYSTEMS

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