

Industrial Furnace

Technical Specification:

- Max. temperature :1200°C/1400°C/1600°
- Shuttles within the furnace.
- Temperature Controller: Microprocessor Based PID Temperature Controller.
- Heating Element: FeCrAl/ SiC /MoSi₂.
- Insulation: High insulating refractory light bricks/Ceramic Fiber Boards.
- Thermocouple with NABL certificate.
- Furnace close: Swivel door, hinged to the left, Vertical door.
- Shuttle guide: Rails in the furnace.
- Power control through thyristor or SSR unit..

Optional Features

- Provision for gas/vacuum purging application (Ar, N₂, O₂, H₂, CO₂ etc.
- Programmable PID Controller with RS-232/RS485/Ethernet & Data Logging Software.
- Available in standard or as per customer size requirement)

Standard Application

- Annealing
- Stress Relieving
- Hardening
- Tempering
- Normalizing
- Post Weld Heat Treatment
- Heat Treatment
- Wire Annealing
- Case Hardening

BOGIE HEARTH FURNACE - BHF



Bogie hearth furnace or simply Bogie furnace used mainly for heat treatment processes such as annealing, tempering, hardening, and stress relieving of materials like metals and ceramics. The term "bogie" refers to a wheeled carriage or platform that supports the materials being processed. The bogie hearth furnace operates by loading materials onto the bogie, which is then pushed into the furnace chamber. Once inside, the heating elements are activated, and the furnace temperature is raised to the desired level. The materials are subjected to the prescribed temperature and hold times to achieve the desired metallurgical or heat treatment outcomes. After the process is complete, the bogie can be withdrawn from the furnace to remove the treated materials.

The furnace consists of a solid housing made of a profile steel/steel sheet construction. The insulation is according to the application as well as to the maximum temperature and mainly consists of high insulating refractory light bricks. The heating spirals made of MoSi₂, heating element or Silicon Carbide heating element or FeCrAl heating wire on supporting tubes which are located on the three walls. The furnace bottom is constructed as shuttle, covered with well heat conducting boards and is being moved trackless with a steering gear. Below the furnace guiding rails are installed for facilitate the running in of the shuttle.

Standard Model

Model	Max Temp.(°C)	Effective Inner Dimensions HxWxD	Effective Inner Dimensions	Heating Element
BHF-900	900	Customized Size as Per Request	K Type	NiCr
BHF-1200	1200		N Type	FeCrAl
BHF-1400	1400		R Type	SiC
BHF-1600	1600		B Type	MoSi ₂

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