TEMPSENS

# INDUSTRIAL BOTTOM LOADING FURNACE - BLF

Industrial Bottom Loading Furnace is suitable for 1600 degree C as well as 1800 degree C application. The Industrial Bottom Loading Furnace is a kind of user friendly operating system that comes with smooth bottom lifting arrangement. The Industrial Bottom Loading is widely used for firing and sintering of advanced ceramics and high temperature glass melting application. Industrial Bottom Loading Furnace offers high temperature accuracy in a range of +/- 1 degree C.

Generally Bottom loading Furnace is used in applications where material for heating is brittle, or to reach molten form, the raising hearth that carries the material is subject to minimal vibration while lifting and lowering. The furnace is placed on a supporting structure with the bottom lifting movement controlled by means of a hydraulic system or ball screw mechanism. High alumina based refractories are used for higher temperatures and low voltage high current transformers direct power.


## Standard features

- Maximum Temperature : 1200 /1400°C/1600°C °C
- Heating Element : SIC, Kanthal APM, MoSi2 heating element
- Insulation: Multiple layers of high temperature fiber insulation boards ensure minimum heat loss.
- Bottom lifting arrangement: Bottom lifting plate fitted with DC motor ensures smooth lifting & lowering.
- 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/RS-485/Ethernet & Data Logging Software
- ✓ Available in standard or as per customer size requirement

## Applications

- ✓ Melting of High Purity Glass, Ceramic Sintering and Firing, thermal shock testing & firing in maintained atmosphere

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