

Bottom Loading Furnace >>



Overview of Bottom Loading Furnace

Saftherm ceramic bottom loading furnace mainly experts in 1200°C furnace as well as 1400°C and 1700°C Furnace. Also a customized bottom loading system furnace is available to meet clients individual needs. Mainly provides high-temperature heat treatment environment for, scientific research institutes and other industrial laboratories. Widely used for zirconia sintering in the denture processing industry, and can also be used for sintering and annealing of high-temperature materials in the powder metallurgy industry.

What is the advantage by choosing SAFTHERM Bottom Loading Furnace ?

- > High-tech heating materials equally inside the firing chamber for better heat surroundings
- > The most advanced insulation chamber materials provide excellent firing system results
- > Temperature operating accuracy stable at +/-1°C
- > Automatic temperature operating store functions release operator on duty
- > Vacuum pump is flexible chosen depends on experiment
- > LCD touch Screen with soft manual equipped
- > Double shell design with cooling fan function ensures end-user safety
- > USB interface optional for upgrading to connect computer programmable

The factors to select a suitable bottom loading furnace :

What is the Operating temperature ?

- > SAFTHERM bottom loading furnace mainly supply 1200°C, 1400°C, 1700°C choice based on the special technology request.
- > When real operating lower than 1200°C, we generally use high grade HRE spiral wire coils as heating element.
- > When real operating lower than 1400°C, we generally use high grade SIC (Silicon Carbide Heaters) as heating element.
- > When real operating lower than 1700°C, we generally use high grade MoSi2 (Molybdenum Disilicide Heaters) heating element.
- > Continuous operating temp will be 100 °C below the max temp design and right using will extend the furnace service life.
- > Furnaces are designed to operate at high temperatures. Operation below temperatures of approximately 600 °C will be less accurate and continuous use at low temperatures may reduce the element life of some furnaces, ie MoSi2 heated furnaces.

What is the heating diameter and height of the Bottom Loading Furnace ?

SAFTHERM manufactures different heating chamber bottom loading furnace based on the tray size.
 The most popular size of the tray in the field is ϕ 120mm ϕ 150mm ϕ 200mm ϕ 300mm.
 The height for the qty of the trays differs among 120mm, 150mm, 200mm, 300mm.
 Simply choose standard compact size which can meet you request and system with superb cost-effectiveness.
 Thanks to SAFTHERM strong technical support, the innovative concept enables users to achieve the perfect custom solution when considering their own firing system.

SAFTHERM is constantly to improve what is required by the hard-working on technology and service.



Larger Bottom Loading Furnace >>



The Overview Of Larger Bottom Loading Furnace

Bottom Loading Furnace are mainly used for the most demanding annealing of coiled wires and sheets, as well as of small forgings and pressings made of steel and nonferrous metals.

Electrical resistance bell furnace are more economic and less heat loss, more efficient and cost effective. Its bottom floor is available to load in all sides and smoothly moved to the correct position along the track by using the manual or automatic crane. The bottom floor rises into the furnace chamber and lifts the load into the heated zone. The crane is strong enough to support the weight of the loaded bottom floor, which will help operators do their job far more efficiently, cost-effectively and safely.



1200°C Bell Furnace

Main Features

- > Manual Elevator or Electric lift bell type.
- > Integrated Structure with elegant design.
- > Vacuum forming ceramic fiber chamber or high solid refractory brick as chamber materials.
- > Heaters: HRE resistance wire/SiC Rod /Mosi2 rod with different operating temperature.
- > SHIMADEN (Japan) Microprocessor Digital PID controller or any brand controller are available.
- > Exhaust chimney valve is available for gas emission.
- > Bottom floor available for all sides loading.
- > CE compliant.



1400°C Lift bell furnace



1700°C Lift Furnace

Model No.	Chamber size (mm)(W × L × H)	Volume(L)	Max Temp	Operate Temp	Voltage	Heating Element
STS-96-12	400X600X400	96L	1200°C	1100°C	380 V	HRE
STS-288-12	600X800X600	288L	1200°C	1100°C	380 V	HRE
STS-640-12	800X1000X800	640L	1200°C	1100°C	380 V	HRE
STS-1200-12	1000X1200X1000	1200L	1200°C	1100°C	380 V	HRE
STS-96-14	400X600X400	96L	1400°C	1300°C	380 V	SiC rod
STS-288-14	600X800X600	288L	1400°C	1300°C	380 V	SiC rod
STS-640-14	800X1000X800	640L	1400°C	1300°C	380 V	SiC rod
STS-1200-14	1000X1200X1000	1200L	1700°C	1600°C	380 V	SiC rod
STS-96-17	400X600X400	96L	1700°C	1600°C	380 V	MoSi2 rod
STS-288-17	600X800X600	288L	1700°C	1600°C	380 V	MoSi2 rod
STS-640-17	800X1000X800	640L	1700°C	1600°C	380 V	MoSi2 rod