

# HEAT TREATMENT PROCESS

HARDENING.BRAZING.ANNEALING.CARBURIZING.CARBONITRIDING **NITRIDING.OTHERS HEAT TREATMENT PROCESS** 



DESIGNED WITH CIRCULAR CONSTRUCTION. WITH INSULATED COVER WHICH IS HYDRAULICALLY LIFTED FOR CHARGING OR **REMOVING THE PRODUCTS INTO AND FROM** THE FURNACE. THE PRODUCTS CAN BE LOADED INTO THE PIT FURNACE WITH CRANE **OR SUITABLE LOADING MACHINE.** 

### INDUSTRY

- . Aircraft
- . Automotive
- . Metals Parts
- . Forging
- . Foundry
- . Heavy Machinery Manufacturing . Heat Treatment
- Services



TO IMPROVE TOUGHNESS OF MATERIAL, INCREASE HARDNESS, REFINE GRAIN STRUCTURE, TO REMOVE RESIDUAL STRESS, IMPROVE WEAR RESISTANCE

## **CONTINUOUS FURNACE SYSTEM**





**BOGIE HEARTH FURNACE** 





**BOGIES WITH FLANGED WHEELS RUNNING ON RAILS FOR EASY AND** PRECISE MOVEMENT OF HEAVY LOADS

### TEMPERING, STRESS RELIEF FURNACE

### TITLING CRUCIBLE FURNACE : OIL OR GAS



FOR APPLICATION OF RELIEVE THE INTERNAL STRESSES AND REDUCE BRITTLENESS OF METAL PARTS AFTER HARDENING.



WITH HIGH MELTING OUTPUT, MOSTLY USED FOR MELTING COPPER ALLOYS, ALUMINIUM ALLOYS, ZINC ALLOYS AND ETC. IN PRODUCTION.

## SPECIFICATIONS :

MAX TEMPERATURE 1400°C, VACUUM UP TO 10<sup>-5</sup> MBAR. WITH HIGH PURITY GRAPHITE AND CFC INSULATION, TEMPERATURE UNIFORMITY ±10°C AND SYSTEM ACCURACY ACCORDING TO AMS2750,

### HORIZONTAL VACUUM FURNACE



**VERTICAL VACUUM FURNACE** 

### **HEAT TREATMENT SPARE PARTS, CONVEYOR BELTING**



Nabertherm develops and produces laboratory and industrial furnaces for various applications for over 60 years. Nabertherm has the widest and deepest range of furnace in the world with large worldwide customer references. Its furnace is well-known in the market for its durability, excellent design, good quality and cost efficiency.



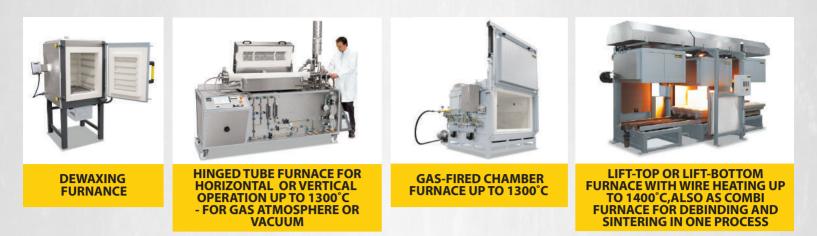
### LABORATORY





KE IOKT FURNACES HOT-WALL RETORT FURNACE UP TO 1100°C PIT-TYPE COLD-WALL RETORT FURNACE UP TO 2400°C OR UP TO 3000°C COLD-WALL RETORT FURNACES UP TO 2400°C

AIR CIRCULATION BOGIE HEARTH FURNACE ROTARY HEARTH FURNACE UP TO 1300°C WITH AND WITHOUT AIR CIRCULATION





### **ARTS AND CRAFTS**

