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EB FURNACE

PRODUCT LIST

- Belt Type Carburizing Quenching Production Line
- High Temperature Continuous Brazing Furnaces
- Bogie Hearth Resistance Furnaces
- Push Rod Type Resistance Furnaces
- Pit Furnaces
- Heat-treatment Fixture
- Radiant Tubes for Heat-treatment Furnaces
- Furnace Rollers

Application

The production line is mainly used for carburizing, carbonitriding, quenching and tempering for bolts, nuts, hardware tools, bearings, chains.

Production Line Layout

Automatic loader, carburizing furnace, quenching oil tank, washing machine, tempering furnace, cooling machine, and electrical controlling system.

Features

High efficiency and cost saving: specially designed internal circulation keeps the low energy consumption and increases the furnace temperature more easily.

Steady running condition: famous brand electrical apparatus are adopted to keep the line running at a smooth and stable condition.

High automatic level: all the line is controlled by PLC.

Quality warranty: multi-point SCR/PID control. With the high-precision and heat-resistant oxygen probe, the furnace temperature is easily controlled and supervised.

RCW Net Belt Type Quenching Furnaces

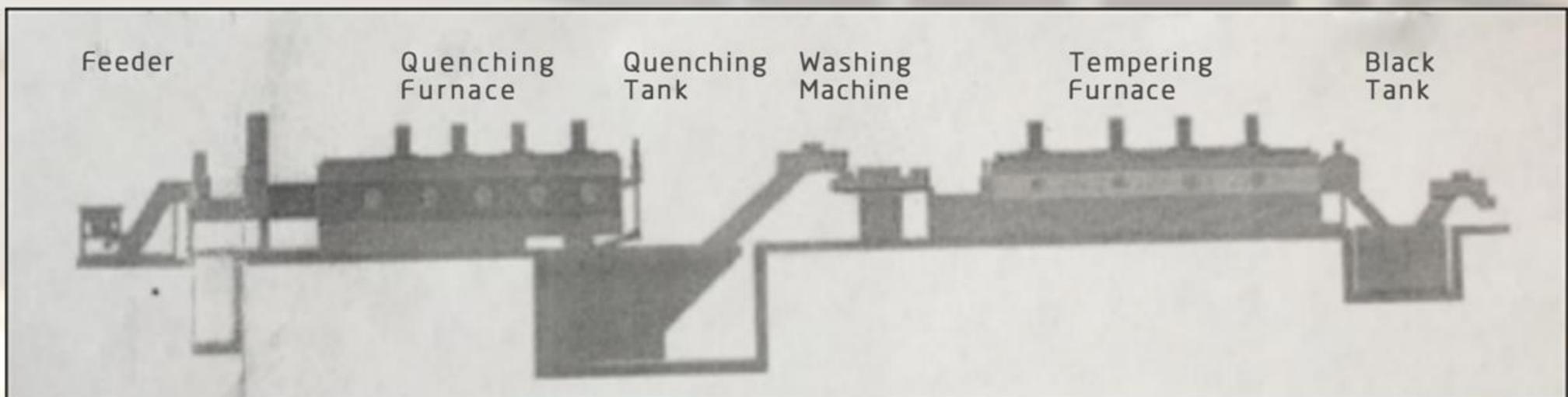
Model	Working Dimensions (mm)	Rated Power (KW)	Maximum Capacity (kg/h)		
			Quenching	Carburizing 0.1-0.2mm	Carbonitriding
RCW-20	1300×150×50	20	30	15	10
RCW-45	2400×220×50	45	60	30	20
RCW-60	2400×300×50	60	100	40	30
RCW-75	3600×300×50	75	150	60	45
RCW-90	4700×400×80	90	200	90	60
RCW-120	4700×400×80	120	250	120	90
RCW-150	5000×500×80	150	300	150	120

RCW Net Belt Type Tempering Furnaces

Model	Rated Power (KW)	Maximum Capacity (kg/h)	Rated temperature (°C)	Working Dimensions (mm)
RCW-25	25	40	600	3000×400×120
RCW-35	35	60	600	4500×450×120
RCW-45	45	150	600	5500×600×150
RCW-60	60	200	600	5000×600×150
RCW-90	90	300	600	6000×600×150



Diagram for Process Layout



High Temperature Continuous Brazing Furnaces

Application:

It is widely used for brazing and bright heat treatment of stainless steel, carbon steel, brass, copper, ceramic parts in industries of automobile, diesel engine, aerospace & aviation, air conditioning, refrigeration, electron and microwave magnetic control tube, etc .

Features:

- 1.High strength,small thermal deformation ,longer service life with the latest design about muffle furnace.
- 2.Heat exchanger in cooling section improves the cooling rate of workpieces greatly.
3. We use a variety of automatic alarm and interlock circuit protection devices to ensure the safety by unique explosion-proof design.

Model	Rated Power (KW)	Rated Temperature (°C)	Width of Net Belt (mm)	Working Dimensions (mm)
EB-30	30	1150	130	160×1800×80
EB-45	45	1150	180	210×2600×160
EB-60-1	60	1150	220	260×2600×160
EB-60-2	60	1150	220	260×3000×160
EB-90-1	90	950	310	350×2800×300
EB-90-2	90	1150	310	350×3000×160
EB-100-1	100	1150	310	350×3000×220
EB-100-2	100	1150	350	390×3500×200
EB-110	110	1150	400	450×3500×245
EB-120-1	120	950	420	460×3500×300
EB-120-2	120	1150	120	460×4500×160
EB-145-1	145	1150	450	490×4500×160
EB-145-2	145	1150	450	490×3500×300
EB-168	168	650	580	630×6500×100
EB-150	150	1150	600	660×4600×160
EB-200	200	1150	650	700×4500×140



Bogie Hearth Resistance Furnaces Push Rod Type Resistance Furnaces Pit Furnaces

Application: Normalizing, Annealing, Quenching & Tempering

Rated Power: 25 - 400KW

Working Temperature: Up to 1250 °C

Features: Design, Manufacture & Installation Supervision as per Specific Requirements from Customers.

The radiant heater warms all solid objects and surfaces in its path. They are mounted overhead and produce infra-red radiant heat that is directed downward by a reflector.

Types: W-Type Radiant Tube; U-type Radiant Tube, I-type Radiant Tube and Electrical Radiant Tube

Size: OD50 to OD1500mm

Production Process: Centrifugal Cast Process, Investment Cast Process, Welding Process.

Quality Control: UT,MT,RT,PT,Chemical Analysis Report, Mechanical Property Test,etc.

Surface Treatment: shot blasting,painting,plating,polishing,black oxide,transparent anti-rust oil.

■ ASTM A297 Heat Resistant Steel Castings

Grade	Nominal Chemical Composition (W%)								
	Type	C	Mn max	Si max	P max	S max	Cr	Ni	Mo max
HF	19 Chromium,9 Nickel	0.20-0.40	2	2	0.04	0.04	18.0-23.0	8.0-12.0	0.5
HH	25 Chromium,12 Nickel	0.20-0.50	2	2	0.04	0.04	24.0-28.0	11.0-14.0	0.5
HI	28 Chromium,15 Nickel	0.20-0.50	2	2	0.04	0.04	26.0-30.0	14.0-18.0	0.5
HK	25 Chromium,20 Nickel	0.20-0.60	2	2	0.04	0.04	24.0-28.0	18.0-22.0	0.5
HE	29 Chromium,9 Nickel	0.20-0.50	2	2	0.04	0.04	26.0-30.0	8.0-11.0	0.5
HT	15 Chromium,35 Nickel	0.35-0.75	2	2.5	0.04	0.04	15.0-19.0	33.0-37.0	0.5
HU	19 Chromium,39 Nickel	0.35-0.75	2	2.5	0.04	0.04	17.0-21.0	37.0-41.0	0.5

HW	12 Chromium,60 Nickel	0.35-0.75	2	2.5	0.04	0.04	10.0-14.0	58.0-62.0	0.5
HX	17 Chromium,66 Nickel	0.35-0.75	2	2.5	0.04	0.04	15.0-19.0	64.0-68.0	0.5
HC	28 Chromium,	0.5 max	1	2	0.04	0.04	26.0-30.0	4.00 max	0.5
HD	28 Chromium,5 Nickel	0.5 max	1	2	0.04	0.04	26.0-30.0	4.0-7.0	0.5
HL	29 Chromium,20 Nickel	0.20-0.60	2	2	0.04	0.04	28.0-32.0	18.0-22.0	0.5
HN	20 Chromium,25 Nickel	0.20-0.50	2	2	0.04	0.04	19.0-23.0	23.0-27.0	0.5
HP	26 Chromium,35 Nickel	0.35-0.75	2	2.5	0.04	0.04	24.0-28.0	33.0-37.0	0.5



Galvanizing Line Radiant Tube Centrifugal Castings Electric Heating System



W-type Thin Wall Radiant Tube Centrifugal Castings



Bend Elbow Investment Casting for Radiant Tube



Heat-resistant Cast Alloy Steel Radiant Heating Tubes for Industrial Electric Furnaces



Spuncast Radiant Tube Parts

Application :

EB' s furnace rollers are made for different heat treatment processes for steel, aluminium, Zinc Alloy and other metallic materials, which have been widely used in the following applications:

- Quenching furnaces
- Annealing furnaces
- Carburizing furnaces
- Galvanizing furnaces
- Sintering furnaces
- Hardening furnaces

Features:

1. Resistance to high temperature: Up to 1600°C;
2. Resistance to deformation in carburizing, nitriding, neutral and oxidizing atmospheres
3. Maximizing heat flux
4. Shortening the process time
5. Longer service life and better installation effects because of more scientific process design

Package of Furnace Rollers by Polywood Cases



Machined Furnace Rollers



Big High Alloy Furnace Rollers



Small Alloy Steel Furnace Rollers



Application :

Auto, Precision Gear, Heat-treating Industries.

Features:

1. Resistance to high temperature: Up to 1300°C;
2. A large number of Existing Patterns of fixture for Standard. Famous Brand Heat-treatment Furnaces.
3. Rich experience in design of Trays & Baskets to suit the specific working condition.
4. More production process available: Wax lost cast process, EPC cast process, Sand cast process.

Heat-treatment Fixture with Pins

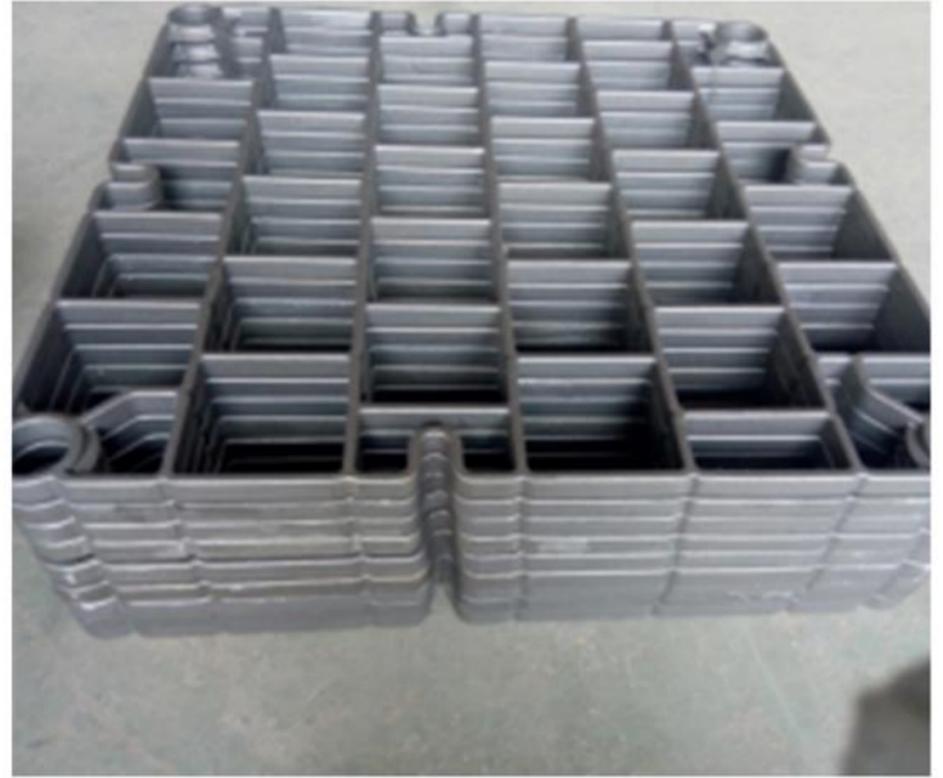


Circular Stackle Basket with HI Material





High Alloy Material Baskets



Grid Base Trays Size 600 X 400 X 40mm for Vacuum Sintering Furnaces



Vacuum Brazing Furnace Base Trays Available Size 1200 X 800 X 50mm



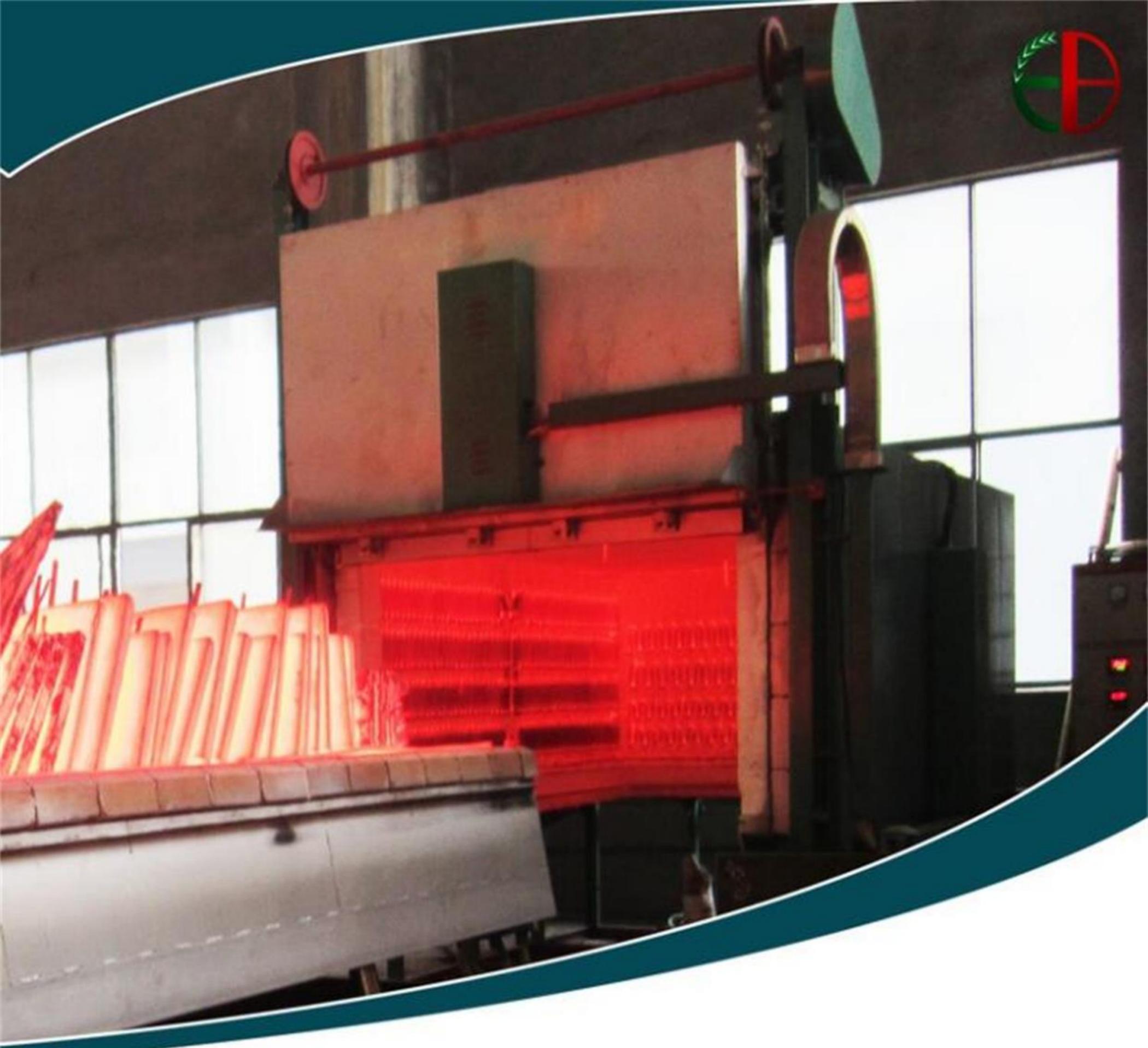
Combined Material Trays 1352x754x50mm



Heat treating Furnace Tray Components Precision Cast Process



Charging Baskets with Stainless Steel Mesh



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