



建恒工业  
JianHeng Industry

## Aluminum Melting and Holding Crucible Furnace

### Aluminum Melting and Holding Crucible Furnace (Energy: Electricity)

#### Forklift type



#### Stationary type



#### Tilting type



#### Suspensory type



## Aluminum Melting and Holding Crucible Furnace (Energy: Gas)

### Stationary type



### Suspensory type



### Tilting type





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## Usage:

Used for melting and holding of aluminum alloy. Suitable for such process as metal casting, pouring, degassing and slag before die forging of liquid, preparing alloy, homogeneous structure, and adjusting temperature.

Crucible capacity: 10-3000kg (AL)

Energy: Electricity, gas

Crucible: graphite, casting iron, casting steel

## Equipment features:

Molten aluminum of high quality (accurate temperature and uniform ingredients) can be obtained for the need of premium castings.

Flexible production organization and easy installation and commissioning. In producing different kinds of alloy, change of crucible may achieve that goal without polluting molten aluminum. It can be directly placed on the ground. Operation begins as soon as power is connected.

Less burning loss. Due to the isolation between the molten metal and heating components, crucible heating is used to avoid local high temperature, reducing the oxidation loss and high temperature volatilization of noble alloy elements. The metal loss is below 1.2%.

The furnace body has leakage opening. Once the crucible breaks, the molten aluminum may flow outside the furnace.

The temperature control of furnace roof and molten aluminum adopts loop series to guarantee sufficient heating efficiency and prevent furnace roof from overheating.

Molten aluminum thermocouple protective tubes use silicon nitride protective tubes of Kyocera and Hitachi brands with good thermal conductivity, erosion resistance in molten aluminum, thermal shock resistance and high intensity. The tubes can be directly dipped in molten aluminum to measure its temperature and their service life exceeds two years.

Complete alarm protection. The alarm includes molten aluminum temperature alarm, furnace roof temperature alarm, and crucible leakage alarm. Power will be cut off when alarm works to protect the heating components and furnace roof.

## Technical parameters:

Crucible capacity: 200-5000 kg (AL)

Rated temperature of the furnace roof: 900°C

Rated temperature of molten aluminum: 800°C

Thermal accuracy of molten aluminum:  $\pm 2^{\circ}\text{C}$

Surface (lateral wall and floor) temperature rise is less than  $\leq 25^{\circ}\text{C}$