



Carefully crafted to serve the world

LuoYang IDM Metallurgy Trading Co., Ltd.

IDM METALLURGY

LuoYang IDM is committed to the development of industries such as smelting and casting equipment in China, and has its own unique advantages in this field. For many years, the company has always prioritized technological research and development, and has carried out a series of upgrades and improvements to its products, enhancing their competitiveness. Currently, we have maintained friendly cooperative relationships with many countries in Central Asia, the Commonwealth of Independent States, South America, and more.


Heat treatment furnace

Melting furnace

Rolling mill

Foundry equipment

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Mesh Belt Furnace

Mesh Belt Furnace uses a mechanically driven mesh belt that moves intermittently or continuously to pass the workpiece through the temperature-controlled heating zone, and then meets the technical requirements for heat treatment. The furnace type is collectively called Mesh Belt Furnace. It is a continuous heat treatment equipment that is widely used in steel, non-ferrous metals, ceramics, building materials and other industries.



Rated temperature
1200°C

Rated Power
12 ~ 1000Kw

Rated Voltage
380V

What is Mesh Belt Furnace

Mesh Belt Furnace is a widely used heat treatment equipment, mainly used for heating and heat preservation of objects. It is used for the sintering of powder metallurgy products, the reduction of metal powder, and the pre-sintering and firing of electronic products in a protective atmosphere or air. The object is placed on the steel mesh belt and undergoes heat treatment with a special heating process to achieve changes in specific physical properties. Mesh belt furnaces are widely used in industrial production, especially in the processing and heat treatment of metal and non-metallic materials. They have the characteristics of high temperature, long-term heating, uniform heating, energy saving and

environmental protection, good stability, and high degree of automation. They are suitable for the high volume continuous production and processing of workpieces.



Introduction to Mesh Belt Furnace

Mesh Belt Furnace consists of three parts: the furnace body, the mesh belt transmission system and the temperature control system. The furnace body consists of a feeding part, a pre-burning part, a sintering part, a slow cooling part, a water cooling part and a discharging part. The mesh belt transmission system consists of a high-temperature resistant mesh belt and a transmission device. The running speed of the mesh belt is adjusted through a frequency converter, and is equipped with a digital display mesh belt speed measuring device that can directly read the mesh belt speed. The temperature control system consists of thermocouples, digital display intelligent PID regulators and thyristors, forming a closed-loop control system to achieve automatic and precise temperature control.

According to different heating installations, mesh belt furnace can be divided into Electric Heating Mesh Belt Furnace and Gas Heating Mesh Belt Furnace.

Electric Heating Mesh Belt Furnace uses electric heating tubes as heating elements and are commonly used in situations with high process requirements. Gas Heating Mesh Belt Furnace uses natural gas liquefied gas, etc. as fuel to heat the combustion chamber in the furnace, and heats the steel mesh belt through heat conduction.

The furnace body usually consists of two relatively independent furnace chamber, which are responsible for preheating and heating respectively. The heating element is the main equipment for generating heat in the mesh belt furnace. It is generally divided into two forms: resistance wire and electric heating tube.

High Quality

It can realize fully automated production control, reduce manual intervention and improve production efficiency. The conveyor belt speed and tension can be adjusted and controlled to ensure the stability and uniformity of the production process.



Good Performance

Adopting continuous production method, it has high thermal efficiency, low energy consumption and obvious energy saving effect. The air temperature in the furnace is high, combustion releases less harmful gases, and causes less environmental pollution.



Product Features

The heating element uses FEC ceramic heating plate or ceramic heating rod. The temperature control system is controlled by an imported multi-stage intelligent program temperature controller. The heat-resistant steel mesh belt is used for transmission to ensure smooth product transportation.



Customized Design

Customized design according to the actual needs of customers.

Working Principle

During the working process of the Mesh Belt Furnace, objects are placed on the steel mesh belt through the conveyor system, pass through the preheating zone and enter the main heating zone for heating, and then are evenly cooled in the cooling zone. Therefore, the entire workflow of the mesh belt furnace is divided into three main stages: preheating, heating and cooling. Among them, the heating stage is the core link of the entire workflow, and it is generally necessary to control the heating temperature and time.



Furnace Type	Furnace Chamber Size	Rated Voltage	Rated Power	Rated Temp.
	mm	V	KW	°C
RCM-75-9	3700×300×50	380	75	920
RCM-90-9	4700×300×50	380	90	920
RCM-105-9	4200×400×80	380	105	920
RCM-120-9	4700×400×80	380	120	920
RCM-150-9	5200×450×80	380	150	920

Heat treatment furnace factory

Factory Introduction

In order to continuously improve the quality of thermal treatment furnace, we have carried out unremitting research in the four aspects of safety, stability, efficiency, and energy saving for many years, and conducted experiments and explorations around the two major topics of reducing power consumption and reducing heat loss. Today, IDM's thermal processing furnace has an excellent performance in terms of product performance, and has established trust with customers from all over the world to meet their needs for high quality products.



Melting furnace factory

Factory Introduction

The development, production and technical upgrade of the intermediate frequency induction furnace and the sensing heating control system is one of the operating projects of IDM Metallurgy Group. The R & D Center is located in Cangzhou City and Factory of Hebei Province, China, and is located in Tangshan City Hebei Province, China. It covers an area of more than 15,000 square meters. It has a complete sales and after-sales service system. The products are sold to more than 70 countries and have been well received by customers.



Rolling mill factory

Factory Introduction

The IDM Metallurgy Group's rolling machine is located in the industrial park of Tangshan City, Hebei Province, China. It covers an area of more than 20,000 square meters. It integrates production, research and development, and sales. The comprehensive strength is among the top domestic industry. In 2016 technical cooperation with many universities in China, in -depth research in the safety and stability of the rolling machine, continuously improved product quality, and won the recognition of customers at home and abroad.



Foundry equipment factory

Factory Introduction

As the core product of the IDM Industrial Group, the casting equipment has a large proportion in the annual export share. Resin Sand Casting Line, Static Pressure Automatic Molding Line, Iron Mold Sand Coated Casting Plant and other equipment were exported to South America Eastern Europe, Africa, and West Asia, and were widely used in automotive, ships, steel, and aerospace and other fields. Mature production technology and thoughtful after sales service are important guarantees for overseas customers to establish a cooperative relationship with IDM.

