



**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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# Steel Plate Mill

Steel Plate Mill is a mechanical equipment used for rolling steel plates. Its structure includes rollers bearing seats, transmission devices, frames and other parts. It is widely used in steel production construction, machinery manufacturing and other fields.



## What is Steel Plate Mill

The mill roll is the main working part and consists of three parts: the roller body, the roll neck and the bearing seat. The roller body is made of high-strength alloy steel, and the surface is finely machined and ground to ensure good contact with the the steel plate surface. The roll neck is fixed on the frame through the bearing seat and driven to rotate by the transmission device. It can be used to produce plates of various thicknesses and widths, such as metal plates, galvanized plate, color-coated plates etc. At the same time, due to its high efficiency and high-quality production capabilities, it can also be used in large-scale production and processing industries.

## Introduction to Steel Plate Mill

The number and arrangement of the rollers depend on the required shape and size of the finished



product. During the rolling process, the rollers are rotated by a motor to feed the metal material between the rollers. The distance between the rollers can be controlled by adjusting the position of the rollers, to achieve the required finished size.

The main part of a rolling mill are the rollers, which are usually made of steel and have high strength and wear resistance. The number and arrangement of rollers depends on the required shape and size of the finished product.



## High Quality

Using high-precision mechanical components and control systems, the thickness and shape accuracy of the strips can be ensured.

## Good Performance

Equipped with various complete auxiliary systems such as accurate automatic strip centering system safe and reliable CO2 automatic fire extinguishing system lubrication system, dry air purging device smoke recovery device, etc., providing a reliable guarantee for the production of excellent products.

## Product Features

Due to the rollers are made of high-strength alloy steel, long-term use and reliable operation can be guaranteed.

## Customized Design

Customized design according to the actual needs of customers.



# Working Principle

The steel plate is fed into the roller gap in the rolling mill. Under the rotation pressure of the roller the steel plate is continuously thinned and formed into a strip with the required width and thickness. The rotation direction and speed of the roller can be adjusted to control the thickness and shape of the strip. In the preliminary rolling stage, the metal material is fed between the rollers, and the rollers exert pressure to flatten it into a certain shape. During the finish rolling stage, the metal material is fed between smaller rollers for further compression and shaping. The temperature of the metal material is also an important factor during the entire rolling process.



Type	Max.rolling thickness	Max.plate width	Main motor power
	mm	mm	KW
W12NC-60x3000	60	3000	75
W12NC-70x3000	70	3000	75
W12NC-80x3000	80	3000	90
W12NC-90x3000	90	3000	90
W12NC-100x3000	100	3000	110



# 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.

