



**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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# Wire Rod Mill

Wire Rod Mill is a rolling mill specially used for rolling wire rod. Wire rod is the product with the smallest cross-section size among all profiles. It is rolled from the blank into the finished product. The total elongation coefficient is large. The rolled pieces are usually rolled only once on each rolling mill. Therefore, the Wire Rod Mill is the rolling mill with the largest number of mill frame and the finest division of labor among hot-rolled profiles.



## What is Wire Rod Mill

Wire Rod Mill is a kind of equipment used for metal processing, mainly used for rolling processing of steel, copper, aluminum, stainless steel and other materials. The metal is extruded, stretched and deformed using rollers to form the wire. Wire Rod Mills are divided into: rough rolling, intermediate rolling and finish rolling. The layout forms of roughing mill, intermediate rolling mill and finishing mill include horizontal, semi-continuous and continuous. It has the characteristics of fast rolling speed, high efficiency and high forming accuracy, and is widely used in modern industrial production.





## **Introduction to Wire Rod Mill**

Wire Rod Mill adopts continuous rolling technology, which can rapidly deform the steel billet and continuously roll it to produce high-quality precision copper wire, aluminum wire and various steel wires. At the same time, according to different needs, Wire Rod Mill can also process steel wire aluminum wire and others into products of different specifications and materials, thereby meeting the diversified needs of the market.

During the production process of wire rod mills, repeated processing is not required. Due to its high efficiency continuous rolling technology, its production efficiency is very high, which can not only improve production efficiency, but more importantly, can reduce production costs. In addition, the use of wire rod mills can also reduce labor costs and material costs, and use resources more efficiently.

The rolling process of the wire rod mill has a high degree of stability and precision. The rolled products have high surface finish, and the dimensional accuracy and shape accuracy are highly guaranteed. Not only that, the wire rod mill can also process different materials according to production needs, making the steel wire, copper wire and other products produced become popular products in the market.

Wire Rod Mill has a high level of automation and is safer and more reliable during operation. A variety of advanced safety measures are used to ensure operator safety. During the operation of the wire rod mill, the operating status of the equipment can also be monitored to provide timely alarm for accidents.

## **Customized Design**

Customized design according to the actual needs of customers.



## High Quality

The material of the roller body generally use high strength alloy steel or hard surface-coated steel to withstand greater rolling pressure and wear.

## Good Performance

The transmission system adopts electric transmission mode, which has high precision and strong stability. The bearings have strong wear resistance and toughness and can adapt to high-speed rotation and high impact loads.

## Product Features

Using multi-stage reducer, high-speed and high-efficiency rolling processing can be achieved. The control system adopts PLC and computer linkage control technology to realize automatic control of the rolls and improve control accuracy and production efficiency. Suitable for rolling a variety of materials, including steel, copper, aluminum, etc. And different sizes and shapes can be designed by replacing different rollers.

## Working Principle

Through the rotational motion of the roller and the feeding motion of the wire, the wire can be gradually pressed into the required shape and size through rollers of different sizes. The metal wire is passed through a series of rollers and deformed during the rolling process, gradually reducing the cross-sectional area and dimensional accuracy of the wire, thereby achieving the required specifications and accuracy requirements. At the same time, the wire being rolled can be also affected by the friction and force of the rollers, which changes the internal structure of the material and further improves the strength and toughness of the wire rod.

Type	Power	Rolling Speed	Feed section	Rolling specification
	KW	M/S	mm	
H250-4	240	2.5-4	60*60	Ø8-32
H250-5	500	2.5-5	50*50	Ø6.5-32
H280-5	630	2-2.5	70*70	Ø6.5-32
H300-5	680	2-2.5	90*90	Ø6.5-32
H350-5	800	2-2.5	90*90	Ø6.5-32



# 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.

