



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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Copper Cold Rolling Mill

Copper Cold Rolling Mill is an important metal processing equipment and is widely used in metallurgy machinery, construction and other industries. It processes copper strips into products of required thickness and size by cold rolling.



What is Copper Cold Rolling Mill

Copper Cold Rolling Mill is a piece of equipment specially used for cold processing of copper strips. It can prepare high-precision thin film resistors, magnetic materials, flexible circuit boards, high frequency wires and connectors, and various mechanical parts. This powerful equipment can not only improve the surface quality and mechanical properties of copper strips, but also extend its service life. Therefore, it has been widely used and promoted in many fields.

Introduction to Ribbed Rebar Steel Rolling Mill

Feeding and Cutting

Feed the copper strip into the cold rolling mill and cut it into appropriate length for the next step.

Primary Rolling

The cut copper strip is subjected to the pressure of the blooming mill roll to cause preliminary deformation. Primary rolling can eliminate the internal stress of the material, improve the plasticity of the material, and prepare for subsequent rolling.

Intermediate Rolling

After primary rolling, the copper strip passes through the pressure of the intermediate rollers to further adjust the thickness and size. Intermediate rolling generally uses multiple roller tables in series to gradually reduce the gap between the roller tables, so that the thickness of the copper strip can be more carefully controlled.

Finishing Rolling

After intermediate rolling, the copper strip enters the action area of the finishing roll. The finishing roll usually rotates at high speed and uses a large rolling force to deform the copper strip again so that it reaches the required thickness and size.

Discharging

After finishing rolling, the copper strip is sent out of the cold rolling mill and enters subsequent processes or becomes the final product.



High Quality

Through the cold rolling process, the surface of the copper strip is smoothed and brightened. This treatment can effectively improve the defects and oxide skin problems on the surface of the copper strip and improve the surface quality of the copper strip.



Good Performance

The Copper Cold Rolling Mill can perform various treatments such as stretching, compression, and bending on the copper strip. These treatments can improve the mechanical properties of the copper strip, increase its strength and toughness, and make it more suitable for use in different fields.



Product features

After the copper strip is cold-rolled, its internal grain structure is changed and refined, making it more corrosion-resistant and fatigue-resistant, and extending the service life of the copper strip. After being processed by a copper strip cold rolling mill, the dimensional error of the copper strip can be effectively reduced, making it more in line with customer requirements.



Customized Design

Customized design according to the actual requirement of customers.

Working Principle

The rolling principle of the copper cold rolling mill is based on the law of metal plastic deformation. During the cold rolling process, the copper strip is squeezed and stretched by the machine's rollers, causing it to undergo plastic deformation after multiple rollings to achieve the required size and shape.



Type	Coil Width	Coil Thickness	Backup Roll Diameter	Work roll diameter
	mm	mm	mm	mm
GXG-750	550~650	3~0.2	Ø650	Ø160
GXG-850	650~750	3~0.2	Ø730	Ø165
GXG-950	750~850	3~0.2	Ø800	Ø175
GXG-1150	800~950	3.5~0.3	Ø950	Ø300
GXG-1450	900~1250	4~0.3	Ø1250	Ø450

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.

