



HUADING

Jingjiang Huading Machinery Manufacturing Co., Ltd

+86 15996030208

aya@hdcoupling.com

www.huadingmachine.com

ROLLER PRODUCT CATALOG

Professional roller manufacturer



We have rich practical experience in supporting mechanical processing for European and American companies for many years.

COMPANY INTRODUCTION

Jingjiang Huading Machinery Manufacturing Co., Ltd. specializes in the production and development of various precision rollers, including steel rollers, rubber rollers, stainless steel rollers, conveyor rollers, mirror rollers, heating rollers and chrome-plated rollers. Our company has passed ISO 9001:2015 quality management system certification and has the right to import and export. Currently, 80% of our products are exported to Europe and the United States.

Our company has rich practical experience in supporting mechanical processing for European and American companies for many years, and is familiar with the selection and design of domestic material substitution. Excellent quality, strict and punctual delivery and competitive prices are our consistent commitments. Adhering to the concept of providing customers with better roller solutions, Futian Roller is willing to work with our customers to create a better future!

ISO9001:2015

ISO 9001:2015 quality management system certification

80%

80% of rollers are exported to Europe, America and other markets

8000 +

The workshop covers an area of 8,000 square meters



Dimensional accuracy



Wear resistance

PRODUCT CATALOG

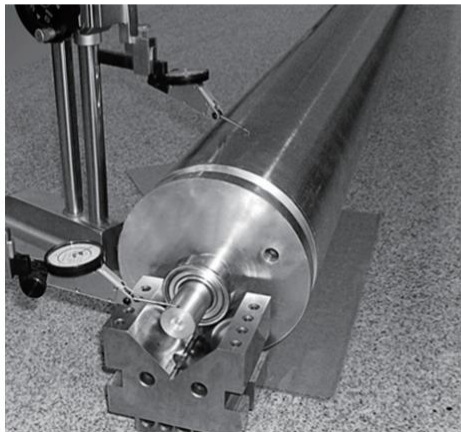
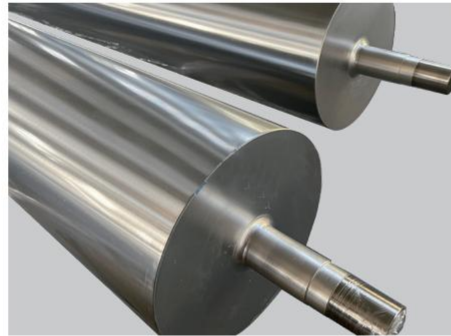
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STEEL ROD

PRODUCT DESCRIPTION

Steel rollers have different names according to their use occasions and functions, such as unpowered rollers, driving rollers, idler rollers, heated rollers, galvanized rollers, mirror rollers, galvanized rollers, special air dragon rollers, chemical nickel plated rollers, feeding roller, laminating roller and printing roller, etc.



Balance correction



Heat Treatment



Surface treatment

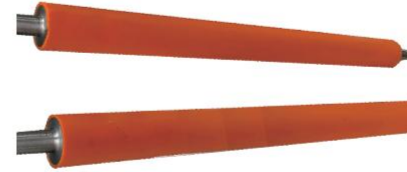
All rollers are precisely calibrated for static balance; for rollers with high design line speeds, dynamic balance calibration is required.

The rollers can be subjected to annealing, tempering, quenching and carburizing heat treatment according to customer requirements.

In order to achieve anti-rust, beautiful appearance, increase surface hardness, improve friction and other effects, the surface of the roller can be spray-painted, galvanized, chrome-plated, rubber-coated and spray-coated with Teflon, etc., depending on the roller design and application environment requirements.



RUBBER ROLLER



Rubber Type

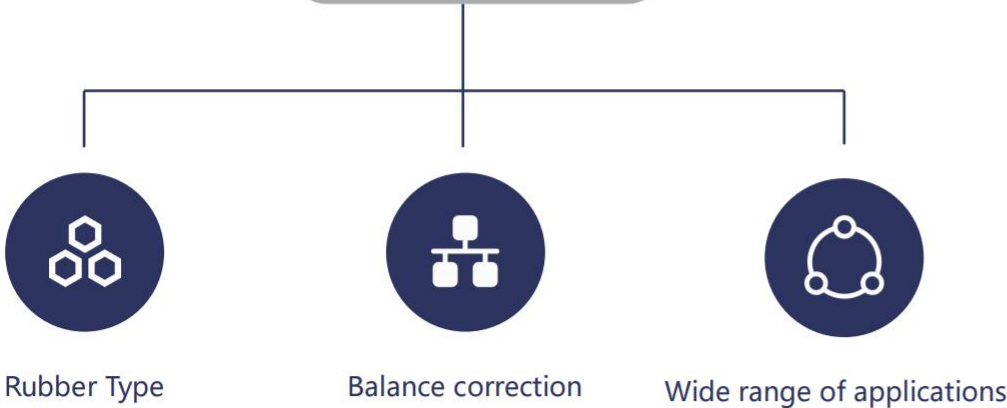
Natural rubber, polyurethane (PU), nitrile rubber (NBR), styrene butadiene rubber (SBR), EPDM terpolymer rubber, Hypalon rubber, silicone rubber, etc.
All rubber rollers are precisely calibrated for static balance; for rubber rollers with high design line speed, on the one hand, the inner cavity of the roller should be bored to improve the uniformity of wall thickness, and on the other hand, dynamic balance should be precisely calibrated.

Wide range of applications

Rubber rollers are widely used in textile, paper mills, wide format digital printing, tissue converting, film, laminating, packaging, plywood processing, food, mining and various conveyor industries.



PRODUCT DESCRIPTION

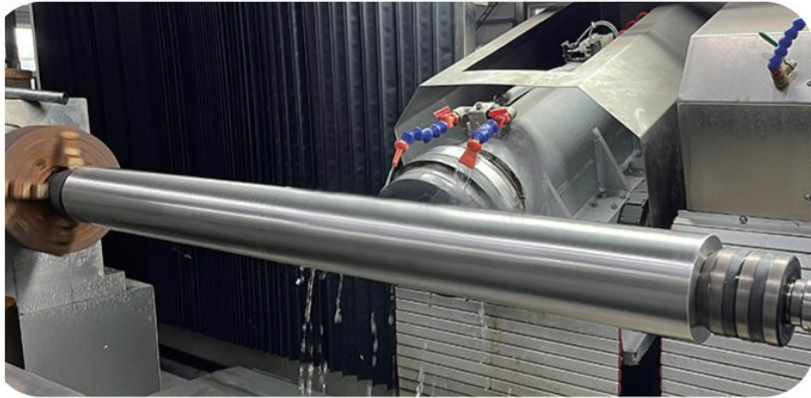


PRODUCT DESCRIPTION

According to different use environments and functions, customers can customize the production of polyurethane rubber rollers, nitrile rubber rollers, styrene-butadiene rubber rollers, EPDM rubber rollers and silicone rollers. We provide hot-vulcanized and cold-vulcanized rubber coatings, and can also meet some special requirements of customers such as friction and antistatic properties according to their requirements. In addition, we also provide inspection reports for each rubber roller shipped out of the factory. Our company has passed the ISO 9001:2015 quality management system certification and is the designated roller supplier for world-renowned companies such as HP, EF1, and RPA.

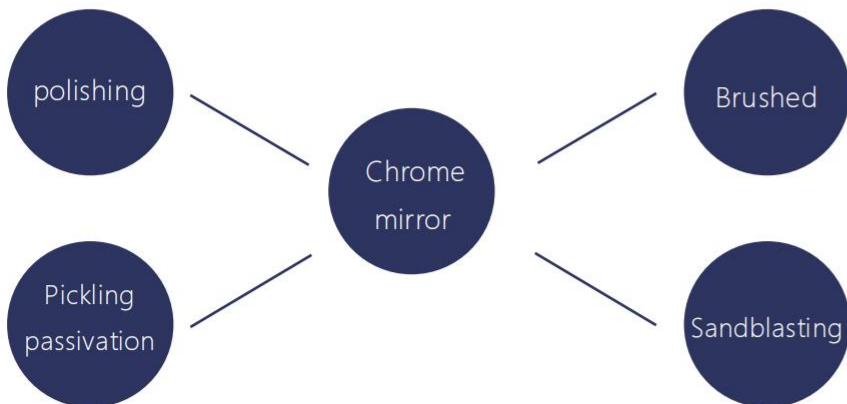


STAINLESS STEEL ROLLER



Stainless steel is notable for its corrosion resistance and is available in a variety of specifications and properties. Corrosion and stain resistance, low maintenance costs and cosmetic quality make stainless steel an ideal material for many industries.

CONVENTIONAL SURFACE TREATMENT



Product application areas



Stainless steel rollers are widely used in equipment in industries such as new energy, medicine, seawater treatment, chemical industry, textile and food.



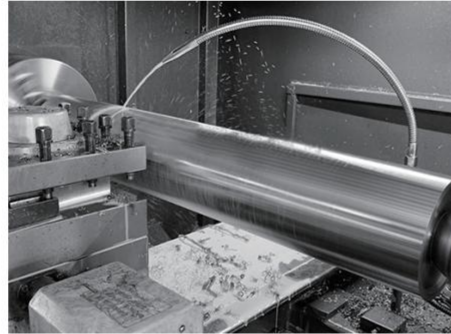
The materials of the stainless steel rollers we produce include austenitic stainless steel such as 304L and 316L, duplex stainless steel such as 2205 and 904L super stainless steel, etc. The choice of stainless steel roller material depends on the use environment of the roller and customer requirements.



CONVEYOR ROLLER

PRODUCT DESCRIPTION

Focusing on the production of precision conveyor rollers, conveyor rollers are widely used in conveying equipment, automation equipment, warehousing and logistics conveyor lines, packaging machinery, airport baggage conveyor lines, sorting machines, industrial manufacturing machinery and other industries



Material: SAE1020, 1045, S355J2H, Q355B, 38CrNiMo, 40Cr, 304L/316L stainless steel, 6063/6061T651 aluminum alloy, etc.

Specifications: Non-standard customization

Surface treatment: spray painting, plastic spraying, galvanizing, encapsulation, etc.

Assembly: Assembly can be carried out according to customer requirements.



Balance correction



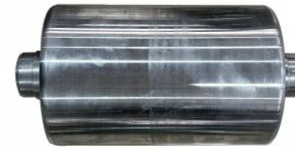
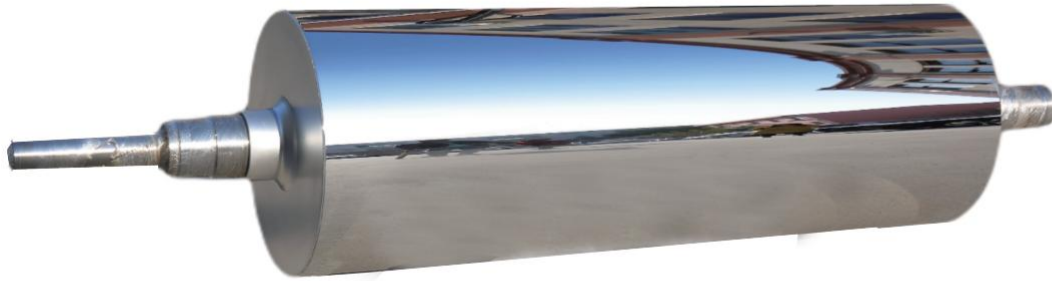
Heat Treatment



Surface treatment



MIRROR ROLLER



Product parameters

Material: The material is made of high-quality carbon steel, stainless steel or alloy steel. It is made by heat treatment, tempering and mechanical processing.

Structure: Various structural designs such as inner tank spiral flow channel and jacket type

Wide range of applications

Application: Mirror rollers are widely used in surface calendering and calendering of various plastic sheets, plates, leather, paper, metal, films, clothing fabrics and other materials.



PRODUCT DESCRIPTION



Corrosion resistance



High hardness



Smooth surface

PRODUCT PROCESSING

Processing: Introduce advanced grinding and polishing facilities, use high-quality 3M abrasives, precision grinding, and finish Ra0.01um (i.e. grade 14).

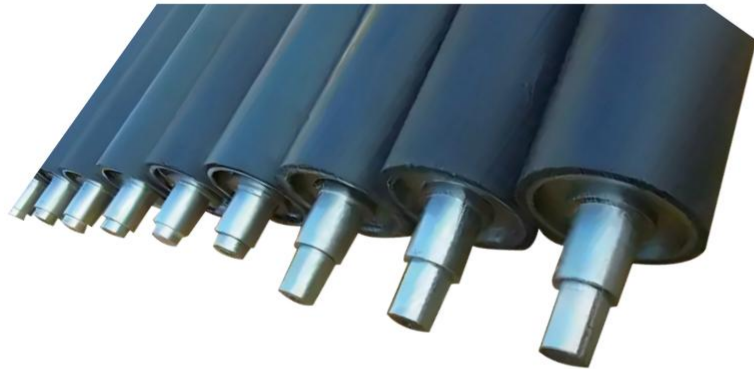
Parameters: straightness, runout, coaxiality <0.005mm, cooling or heating temperature difference $\leq \pm 1^\circ\text{C}$, thermal deformation <0.01mm. Roller surface hardness after quenching is HRC55~58, chrome plated

The hardness after polishing is HRC62.

Surface treatment: hard chrome plating, ceramic spraying, polishing, grinding, etc.



POLYURETHANE ROLLERS



Stainless steel is notable for its corrosion resistance and is available in a variety of specifications and properties. Corrosion and stain resistance, low maintenance costs and cosmetic quality make stainless steel an ideal material for many industries.

ADVANTAGES OF POLYURETHANE ROLLER



Product application areas



Stainless steel rollers are widely used in equipment in industries such as new energy, medicine, seawater treatment, chemical industry, textile and food.



Polyurethane roller is a roller-shaped product made of polyurethane material. It has excellent wear resistance, fatigue resistance and oil resistance. It is widely used in printing, coating, calendering, steel smelting and other industries. Polyurethane rollers can be designed into different shapes, sizes and hardnesses according to different uses and working environments to adapt to different process requirements



CHROME PLATED ROLLER

PRODUCT DESCRIPTION

Chrome-plated roller is a roller electroplated with a layer of chromium on the metal surface, mainly used to enhance its wear resistance and corrosion resistance. Chrome-plated rollers are widely used in various fields such as printing, leather, and plastics for processing, printing, embossing, etc.



Balance correction



Heat Treatment



Surface treatment



Material: SAE1020, 1045, S355J2H, Q355B, 38CrNiMo, 40Cr, 304L/316L stainless steel, 6063/6061T651 aluminum alloy, etc.

Specifications: Non-standard customization

Surface treatment: spray painting, plastic spraying, galvanizing, encapsulation, etc.

Assembly: Assembly can be carried out according to customer requirements.



TEFLON ROLLER



Product parameters

Non-stickiness: Almost all substances do not adhere to Teflon coating film. The surface of the special air dragon roller has very good non-stick properties and can be widely used in anti-stick and easy-to-clean equipment.



Wide range of applications

In food processing, Teflon rollers can effectively prevent materials from sticking and keep the production line running smoothly
In the chemical and automotive industries, Teflon rollers are used to handle strong acids, strong bases and organic solvents to protect equipment and pipelines from corrosion
In the field of electronics and electrical appliances, Teflon coating is used as the insulation layer of wires and cables to ensure the safe operation of electrical systems

PRODUCT DESCRIPTION



Corrosion resistance



High hardness



Smooth surface

PRODUCT PROCESSING

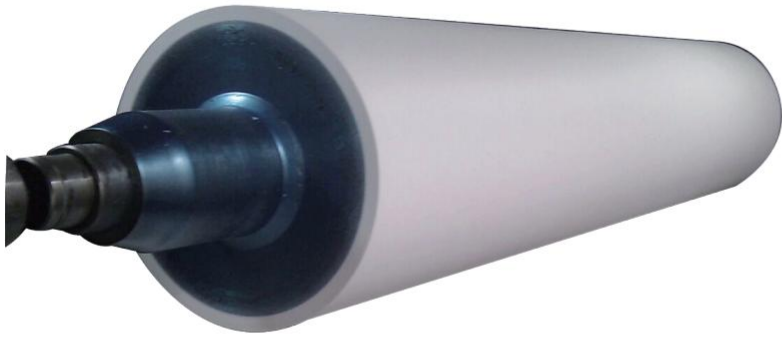
Wear resistance: The friction coefficient of Teflon coating is extremely low, so the surface roughness of the Teflon roller is small, which can effectively reduce the friction between the roller and the parts.

Heat resistance: Due to the high melting point and low thermal conductivity of Teflon spray, the Teflon spray roller has extremely high temperature resistance and cold resistance.

Corrosion resistance: Teflon is almost impervious to chemicals and can effectively protect workpieces from any kind of chemical corrosion.

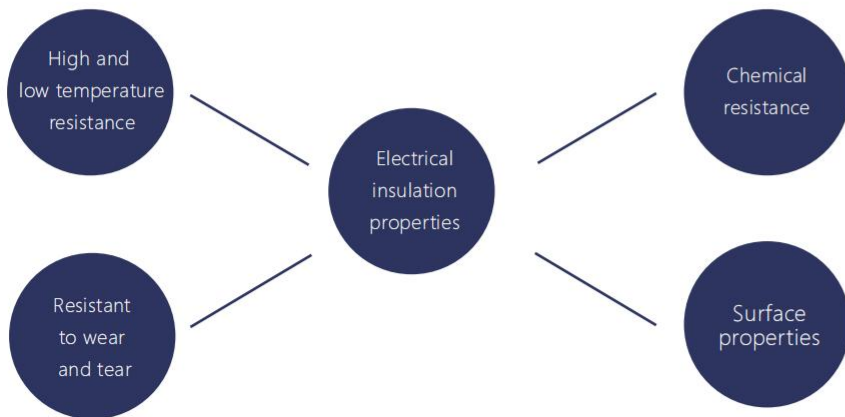


SILICONE ROLLER



Silicone rollers are usually made of steel or other metals as the roller core, and the surface is wrapped with silicone rubber. Temperature and pressure are strictly controlled during the manufacturing process to ensure the uniformity and durability of the rollers.

ADVANTAGES OF POLYURETHANE ROLLER



Product application areas



Performance: High temperature resistance, ozone resistance, chemical inertness and non-adhesion to plastics. Application: Silicone rollers are widely used in plastic coating, corona treatment, rubber and plastic machinery and other industries.



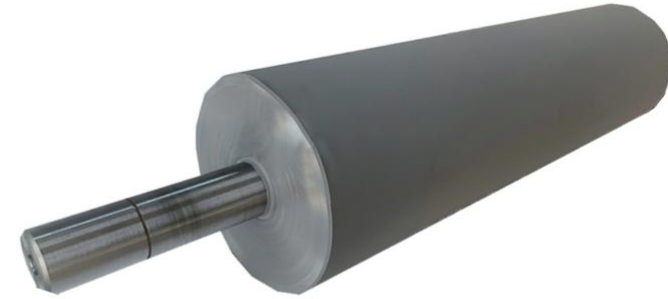
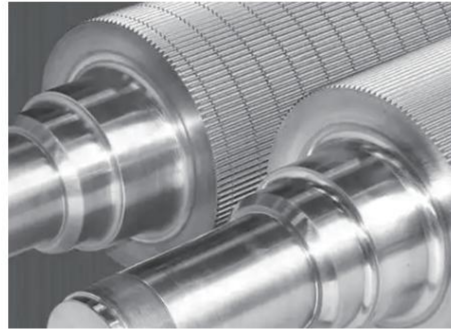
□Silicon roller is a roller made of silicone rubber, which is widely used in various industrial fields and is popular for its excellent performance.



TUNGSTEN CARBIDE ROLLERS

PRODUCT DESCRIPTION

Tungsten carbide roller is a component made of tungsten carbide (WC), which has the characteristics of high hardness, excellent wear resistance and chemical stability. Tungsten carbide rollers are usually prepared by thermal spraying processes, such as supersonic flame spraying and plasma spraying. These processes can ensure that the coating has high density and bonding strength



Balance correction



Heat Treatment



Surface treatment

Tungsten carbide rollers are widely used in the following fields:

□Paper Industry□: Used in press rollers, drying cylinders and other components of paper machines, which can withstand the pressure and friction of paper and felts while preventing chemical substances in the pulp from corroding the rollers□

□Printing and Steel Industry□: Also widely used in rollers of printing presses and conveyor rollers in the hot-rolled steel industry□



NON-STANDARD CUSTOMIZATION

We provide non-standard customization services. According to the specific needs of customers, we produce non-standard products that meet their personalized needs. Emphasizing personalization and differentiation, each product is designed and manufactured according to the customer's specific requirements



1. Personalization: The biggest feature of non-standard customization is that it can meet the personalized needs of customers. Customers can customize products according to their own wishes and requirements.



2. Flexibility: The non-standard customized production method is extremely flexible and can adapt to the needs of customers in different industries, fields and sizes.



3. Professionalism: Since it involves the specific needs of customers, non-standard customization often requires a high degree of professional technical support to ensure product quality and performance.

NON-STANDARD CUSTOMIZATION PROCESS

