
Skid Conveyor Rollers

Title	Skid Conveyor Rollers
Thumb	
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Description

Skid conveyor rollers feature a steel core and high-strength polyurethane overlay, achieving a hardness of A85-A95 and a thickness of 8-25mm. Each wheel has a load capacity of 500kg to 2 t. These wheels offer high load capacity, wear resistance, noise reduction, and corrosion resistance, making them widely used in automotive manufacturing, heavy industrial assembly lines, and paint shops.



What is a skid conveyor?

A skid conveyor system is a computer-controlled material handling system that utilizes specialized tracks and wheel trains to provide automated, flexible, and precise transport of heavy goods.

Functions of the skid system PU wheel

- Supporting heavy loads – Carrying loads
- Directing – Precise guidance
- Effort saving – Reducing friction

Structural features of skid conveyor wheels

- Wheel structure

The inner wheel core is typically made of steel or cast iron to ensure overall strength.

The outer wheel ring is coated with a highly wear-resistant polyurethane layer for reduced vibration, noise, and protection.

- Bearing Design

Equipped with high-precision deep groove ball bearings or tapered roller bearings, the bearings maintain smooth operation under high loads and continuous operation.

- Mounting Method

Bolt fixing or bearing seat mounting is commonly used, making replacement and maintenance easy.

Polyurethane hardness

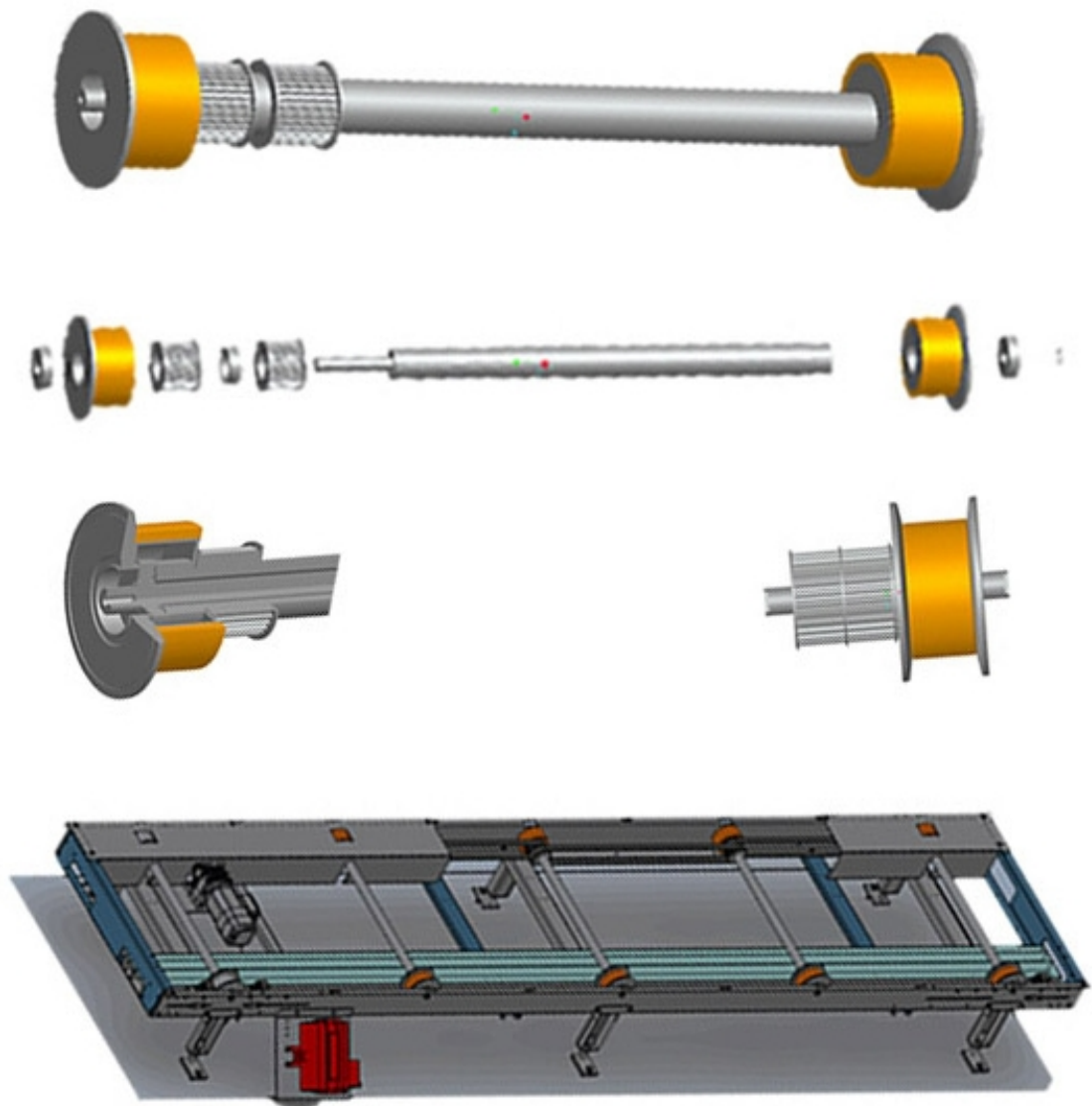
- Commonly used Shore A85-A95 or Shore D50-D70 grades, depending on the operating conditions.
- High hardness (A95/D70) → More wear-resistant, suitable for high loads.
- Medium hardness (A85) → Balanced vibration reduction and noise control, suitable for welding and coating lines.

Polyurethane thickness

- Common overmolding thicknesses range from 8mm to 25mm.
- Thicker thickness → Greater elasticity and vibration absorption.

Load capacity

- A single skid pulley can carry 500kg to 2 tons.
- Varies depending on wheel diameter, polyurethane hardness, thickness, and core material.
- Customizable to suit the overall load of the skid conveyor line.



Advantages

- High Load Capacity → The steel core combined with high-strength polyurethane can withstand the weight of large components such as automobile bodies for extended periods.
- Wear-Resistant & Long Life → The polyurethane coating reduces metal friction and extends service life.
- Noise Reduction & Protection → The polyurethane layer absorbs shock and vibration, reduces noise, and protects the workpiece surface.

- Adaptable to Complex Environments → Oil-resistant, corrosion-resistant, and high-temperature resistant (customizable up to 120°C).

- Easy Maintenance → Modular design allows for easy installation and replacement.

Applications

- Automotive Manufacturing

Widely used in skid conveyor systems for welding lines, final assembly lines, and painting lines.

Carrying automobile bodies and complete assemblies.

- Heavy Machinery & Engineering Equipment

Workpiece transport in large equipment and construction machinery production lines.

- Painting & Paint Shops

The polyurethane coating is corrosion-resistant and adaptable to chemicals and high-temperature environments.

- Logistics & Warehousing

For automated handling of pallets, steel structures, and large components.

- Ship & Rail Transit Manufacturing

Handling and assembly lines for large vehicle bodies and ship hull components.

Philson is a manufacturer specializing in the production of polyurethane wheels. We have our own factory, equipment, design, and production staff. For more information, please contact our customer service at sale06@kfqizhongji.com for a quote or more information.

