
Industrial 200mm (8-inch) Polyurethane Wheels

Title	Industrial 200mm (8-inch) Polyurethane Wheels
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Description

In heavy-duty industrial applications, 200mm (8-inch) polyurethane (PU) wheels are often balancing load capacity and maneuverability. As a critical specification for bulk procurement, how can you identify high-quality products amidst varying tread thicknesses and inconsistent core materials? This guide covers everything from technical parameters to practical applications to help you master the procurement of 8-inch polyurethane wheels.

I. Core Specifications

A 200mm wheel diameter represents the dividing line between medium-heavy and extra-heavy industrial duty. They are specifically designed for stable movement under high loads.

Superior Obstacle Clearance: Compared to 4-inch or 6-inch wheels, 8-inch wheels easily navigate elevator gaps, floor cables, and minor potholes, significantly reducing cargo

jostling.

Load Capacity Ranges:

Standard Type: Dynamic load capacity of 400 - 600kg per wheel.

Reinforced Type (Cast Iron Core): Can exceed 800 - 1.200kg per wheel.

Installation Note: Total mounting height typically ranges between 240mm and 250mm. Ensure sufficient chassis clearance when selecting your model.

II. Why Choose Polyurethane?

For factory and warehouse end-users, polyurethane offers an incomparable price-to-performance ratio compared to rubber or nylon:

Floor Protection (Non-marking): PU combines the hardness of plastic with the elasticity of rubber. It won't crack epoxy floors like nylon wheels under heavy loads, nor will it leave black skid marks like rubber.

Noise Reduction: It effectively absorbs vibrations during operation, improving the factory acoustic environment and protecting sensitive precision instruments.

Extreme Wear Resistance: The tear strength of polyurethane is 3 to 5 times that of natural rubber. This significantly extends replacement cycles for bulk orders and lowers long-term maintenance costs.

III. Typical Application Scenarios

If your operations fall into the following industries, the 200mm specification is usually your optimal choice:

Heavy Machinery Manufacturing: Mobile bases for large welding platforms and assembly lines.

Automotive Logistics: Heavy-duty dollies for transporting engine or transmission assemblies.

Automated Warehousing (AGV/AMR): Acting as driven or load-bearing wheels for heavy-duty robots to ensure stable tracking.

Construction & Public Utilities: Mobile scaffolding and support systems for large generator sets.

IV. Procurement Guide: How to Identify High-Quality Wheels?

When purchasing in bulk, price shouldn't be the only factor. End-users should focus on these three critical points:

Core Material:

Nylon/Plastic Core: Lightweight; ideal for humid/wet environments.

Cast Iron/Steel Core: High creep resistance; best for heavy equipment that remains stationary for long periods.

Aluminum Core: A balance of lightweight and high strength; excellent heat dissipation for continuous high-speed movement.

Bearing Configuration: Ensure wheels are equipped with precision double ball bearings. Inferior bearings create massive starting resistance when fully loaded, increasing the physical strain on workers.

Tread Thickness: High-quality 8-inch wheels typically feature a PU layer of 10mm or more. A tread that is too thin results in poor shock absorption and a higher risk of debonding (peeling).

V. Bulk Customization & Services

We understand the rigorous demands for stability and consistency in enterprise-level procurement. For our 200mm polyurethane wheels, we offer:

Versatile Configurations: Fixed, Swivel, Total Brake, and Side Brake options available.

Specialized Customization: Anti-static, high-temperature resistant, or chemical-resistant coatings.

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