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# Polyurethane Guide Rollers

Title	Polyurethane Guide Rollers
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## Description

Our Polyurethane Guide Rollers are high-precision components engineered for industrial guiding, tracking, and conveying systems. By chemically bonding a premium polyurethane tread to a heavy-duty steel, aluminum, or iron hub, these rollers offer the perfect combination of metal's structural strength and polyurethane's elastomeric benefits.

Compared to traditional rubber or nylon rollers, our polyurethane guide rollers provide significantly higher load-bearing capacity, exceptional wear resistance, and superior floor/track protection, making them the ideal choice for high-load, high-speed industrial environments.



### Technical Specifications

We offer fully customized manufacturing to meet your exact machinery specifications. Please provide the following parameters for a fast quote:

Outer Diameter (mm)	Hub Outer Diameter (mm)	Width (mm)	Maximum Load (kg)
35	18	20	500
40	34	15	550
50	37	15	800
60	50	35	2500
60	50	40	2500
62	52	22	1100

65	55	26	1800
70	57	25	1600
75	62	25	1800

## Key Features

- 1. Advanced Anti-Delamination Bonding:** Utilizing industry-leading chemical bonding agents and rigorous surface preparation, our polyurethane tread is permanently fused to the metal core. We guarantee zero delamination or peeling under extreme radial and shear loads.
- 2. High Wear & Abrasion Resistance:** Our specialized PU formulation outlasts standard rubber by up to 4 times under continuous friction, drastically reducing equipment downtime and replacement costs.
- 3. Excellent Noise & Vibration Damping:** The inherent elasticity of polyurethane absorbs shocks, dampens structural vibrations, and reduces operational noise, ensuring smooth and quiet machinery movement.
- 4. High Load-Bearing Capacity:** While maintaining elasticity, our PU rollers resist permanent deformation (flat-spotting) even when subjected to high static or dynamic loads for extended periods.

## Common Industrial Applications

Thanks to their exceptional load-bearing capacity, shock absorption, and chemical resistance, our polyurethane guide rollers are high-performance alternatives to traditional rubber, nylon, and metal wheels. They are widely specified across a diverse range of demanding industries:

- 1. Elevator Roller Guide Shoes:** Serving as high-rebound replacement wheels for both car and counterweight roller guides. They eliminate cabin jitter, dampen track imperfections, and guarantee an ultra-quiet, stable ride for passenger and freight elevators.
- 2. High-Speed Sorting Lines:** Ideal for automated parcel sorting systems and baggage handling at airports, where rollers must withstand 24/7 high-frequency rolling without flat-spotting or overheating.

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3. Amusement Park Rides & Roller Coasters: Used as main running wheels, side guide rollers, and bottom upstop wheels on roller coasters and themed dark rides.

## Conclusion

Engineered for heavy-duty performance, our premium polyurethane guide rollers combine high wear resistance, superior vibration damping, and an anti-delamination guarantee to deliver a smooth, high-load, and long-lasting rolling solution across demanding global industries.