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# Custom Polyurethane Guide Rollers & Wheels

Title	Custom Polyurethane Guide Rollers & Wheels
Thumb	
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## Description

Our polyurethane guide rollers and wheels are precision-engineered components designed for high-performance industrial guiding, tracking, and conveying systems. By chemically bonding premium polyurethane treads to heavy-duty steel, aluminum, or iron hubs, our rollers offer the perfect synergy of metal's structural integrity and polyurethane's elastomeric advantages. Compared to traditional rubber or nylon alternatives, our polyurethane guide rollers and wheels provide higher load-bearing capacity, exceptional wear resistance, and superior track protection for demanding, high-speed industrial environments.



## **Key Features of Polyurethane Guide Rollers and Wheels**

Polyurethane has emerged as the industry standard for rollers and wheels, consistently outperforming traditional metal and rubber materials in mechanical performance and versatility.

**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.

**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.

**Excellent Noise & Vibration Damping:** The inherent elasticity of polyurethane absorbs shocks, dampens structural vibrations, and ensures smooth, silent machinery movement.

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High Load-Bearing Capacity: Our rollers maintain their shape and resist permanent deformation (flat-spotting), even under heavy static or dynamic loads for extended periods.

## Custom Engineering & Specifications for Urethane Guide Rollers and Wheels

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

OD (mm)	Hub OD (mm)	Width (mm)	Max Load (kgf)	Shore Hardness
50	37	15	800	95A
60	50	40	2500	95A
62	52	22	1100	95A
65	55	26	1800	95A
70	57	25	1600	95A
75	62	25	1800	95A

Philson specializes in polyurethane guide rollers and wheels engineered for heavy-duty performance. By combining high wear resistance, superior vibration damping, and an anti-delamination guarantee, we deliver a reliable, long-lasting rolling solution. Custom Industrial Solutions - Engineered and Manufactured in China. Contact our technical team today.