

# Polyurethane Tread on Steel Keyed Drive Wheels

Title	Polyurethane Tread on Steel Keyed Drive Wheels
Thumb	
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## Description

Polyurethane drive wheels with keyways are widely used in conveying machines. The tread strength of a keyed hub with the performance advantages of polyurethane



### What Makes Polyurethane Drive Wheels Valuable

**High load and wear resistance:** Polyurethane typically outlasts rubber in abrasive and high load conditions.

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Shock and vibration damping: Polyurethane reduces noise and impact while maintaining drive efficiency.

Traction and non-marking options: Formulations can provide high grip or non-marking properties to protect floors.

Customizable hardness: Wheel hardness (Shore A) typically ranges from about 60A to 90A for improved grip or shock absorption, or harder for heavy loads.

Backing to a metal: Polyurethane can be chemically bonded, cast-in-place, or mechanically bolted to a metal core to ensure secure, long-lasting adhesion.

Key Selection Criteria

Load capacity and safety factor: Choose appropriate wheel diameter, width, and hardness based on static and dynamic loads.

ANSI/ISO D19 and service specification: Match bore and keyway to shaft standards (ANSI/ISO D19) to ensure correct fit for proper transmission.

Hardness and chemical resistance: Balance wear life and traction; consider oil, solvent, and temperature resistance.

Operating temperature: Some specialty formulations can handle higher temperatures—confirm with the supplier.

Speed and RPM limits: Consider centrifugal forces and heat buildup at high speeds.

Applications: Choose oil/chemical resistant urethane for oil grade polyurethane or for food-contact applications.

If you'd like more wheel types and hardness ranges, please contact us.