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# Polyurethane Tread on Steel Keyed Drive Wheels

Title	Polyurethane Tread on Steel Keyed Drive Wheels
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## Description

Polyurethane drive wheels with a metal core are widely used in conveying applications. The tread offers the 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.

**Shock and vibration dampening:** 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.

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

### Key Selection Criteria

hardness based on static and dynamic loads. Choose an appropriate wheel diameter, width, and

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ANSI/ISO DIN) and keyway specification. Match bore and keyway to shaft standards and torque transmission.

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

Operating temperature: Standard nitrile handles higher temperatures - confirm with the supplier.

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

Environment and contaminants: For exposure to oil, chemicals or for food-contact suggest nitrile with shaft diameter and hardness ranges, please contact us.