
Keyed Drive Wheels for Rail-guided Vehicle (RGV) Systems

Title	Keyed Drive Wheels for Rail-guided Vehicle (RGV) Systems
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Description

A keyed drive wheel is an active wheel that achieves synchronous rotation with the drive shaft. It can be used for forward, backward, or enables precise braking. The traction force that drives the RGV forward.



Compared to connection methods such as friction drive or press fits, the keyed drive system has become the preferred solution for heavy-duty, highly precise rail-guided systems.

Why Must an RGV Drive System Utilize Keyed Drive Wheels?

- **Zero-Slip Precision Positioning:** In applications requiring docking and precise positioning, the keyed drive system ensures unparalleled repeatability in positioning accuracy. The wheel, thereby, eliminates any slippage during operation.
- **Handling Heavy Loads and Impact Forces:** During RGV startup, braking, and emergency stops, the wheel does not deform or wear, ensuring operational reliability under heavy-duty conditions.
- **Exceptional Reliability and Long Service Life:** The keyed connection features a high contact area, reducing the risk of unplanned downtime and significantly reducing maintenance frequency.
- **Facilitated Installation, Maintenance, and Replacement:** The standardized drive wheel design allows for quick installation and replacement, thereby enhancing the overall availability of the logistics system.

Core Advantages of Our Keyed Drive Wheel Products

Our products are specifically designed to exceed standards in RGV and various rail-guided transport equipment.

- **Precision Manufacturing, Perfect Fit:** The wheel hub bore and keyway are precision-machined to match standard shafts and keys, enabling zero backlash power transmission.
- **Material Science, Proven Durability:** The wheel utilizes high-strength alloy steel treatment for exceptional shear fatigue resistance. It also features special reinforcement for the contact surface.
- **Diverse Design, Comprehensive Compatibility:** We offer a variety of wheel and shaft sizes, ranging from high-speed light loads to low-speed heavy loads, full range of

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- **One-Stop Solution:** We not only supply the drive wheel unit but can also provide system components, saving customers integration time and costs.

To select a customer size the most suitable drive wheel professional technical support and product services on standby to provide you with professional technical support and