
AGV Drive Wheel And Travel Wheel Replacement

Title	AGV Drive Wheel And Travel Wheel Replacement
Thumb	
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Description

Automated guided vehicles (AGVs) rely on high-performance drive and travel wheels to ensure smooth, efficient, and accurate movement. As AGVs operate continuously in high-demand environments, such as smart warehouses and cleanrooms, their wheels face constant mechanical stress. Our AGV drive wheels and travel wheel replacements are engineered for superior durability, maximum load capacity, and excellent grip—especially when upgraded with VULKOLLAN® material for unmatched performance.



What is an AGV drive or travel wheel?

AGV drive wheels are central to propulsion and direction control. Travel wheels may also serve as load-bearing or guiding wheels, depending on the AGV's chassis design. Over time, these wheels wear due to friction, heavy loads, or floor contaminants, requiring timely replacement to maintain operational accuracy and reduce vibration, noise, and floor damage.

Why choose VULKOLLAN® wheels?

VULKOLLAN®, a high-performance polyurethane elastomer, offers significant advantages over standard PU or rubber:

Superior dynamic load-bearing capacity

Outstanding rebound elasticity and low rolling resistance

Excellent abrasion resistance and longevity

Stable performance in a wide temperature range

When used in agv applications, VULKOLLAN® wheels ensure higher energy efficiency, precise control, and extended service life—making them ideal for critical operations.

Key features of our AGV wheels

High load capacity: Single wheels support up to 2000kg

Smooth operation: Balanced design reduces vibration and protects agv motors

Non-marking treads: Ideal for clean environments like electronics or food processing

Customization ready: Shaft bore, keyway, hub connection, and tread hardness can be tailored

Travel wheel replacement: Upgrade your AGV system

Our travel wheel replacements are compatible with popular AGV models and are available for:

Worn or deformed wheels causing vibration or noise

Increased floor damage or uneven movement

Upgrading to VULKOLLAN® for enhanced performance

We support both like-for-like replacements and performance upgrades tailored to your system's motor torque and route complexity.



Typical specifications

Parameter: Value range

Diameter: 150mm - 400mm

Width: 40mm - 150mm

Tread material: VULKOLLAN®, PU, rubber

Hardness: 92-98 shore a

Load capacity: Up to 2000kg per wheel

Speed rating: Up to 2.5 m/s

Core material: Aluminum, steel, cast iron

Applications

Our AGV drive and travel wheels are trusted across:

Smart warehouses and distribution centers

Automated medical transport robots

Electronics and semiconductor cleanrooms

Factory floor shuttles and RGV systems

Customization and support

We offer full support for:

Custom sizes and materials

Integration with gear reducers or servo motors

Engineering consultation based on floor conditions and vehicle dynamics

Whether you're replacing worn travel wheels or designing a new AGV platform, our team ensures your wheel solution meets industrial demands with precision and performance.