
Cleanroom Polyurethane Travel Wheels

Title	Cleanroom Polyurethane Travel Wheels
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Address	Anfeng Industrial Park, Dongtai City, Jiangsu, China
Website	https://www.poly-wheels.com/
Email	sale06@kfqizhongji.com

Description

Cleanroom polyurethane travel wheels are made of 304, 316L stainless steel, or an aluminum wheel core. They are anti-static and pollution-free while also being wear-resistant, precise, and load-bearing. They are widely used in semiconductors, GMP workshops, food processing industries, etc.

Main features of cleanroom polyurethane wheels

- Marking-free and low particle generation: The polyurethane tread is carefully designed to prevent marking on sensitive floors and prevent the generation of suspended particles, ensuring compliance with ISO Class 1-8 cleanroom standards.
- Electrostatic discharge (ESD) protection: Some cleanroom wheels are designed with anti-static (ESD) materials to effectively discharge static electricity and protect sensitive

electronic components from potential damage.

- **Temperature resistance:** These wheels can operate effectively in high or low temperature ranges to adapt to a variety of conditions in different cleanroom applications.
- **Chemical and moisture resistance:** These wheels can withstand a variety of chemicals, oils, and detergents, ensuring long-term durability and reliable operation even after frequent disinfection.
- **Corrosion-resistant components:** These wheels are usually made of stainless steel or other corrosion-resistant materials to withstand the rigorous cleaning procedures common in cleanroom environments.
- **Sealed bearings:** To keep out contaminants and maintain smooth operation, cleanroom wheels are equipped with sealed bearings, which reduce maintenance requirements.



Application scenarios of cleanroom poly-covered wheels

- **Pharmaceutical manufacturing:** For equipment and carts to transport materials without disrupting the sterile environment.
- **Electronics and semiconductor production:** For wafer handling robots, photolithography

equipment, and assembly lines, where tiny particles or static discharges may damage microchips or circuits.

- Biotechnology and laboratory environments: Mobile carts, bioreactors, and cleanroom carts for transporting sterile materials, vaccines, or laboratory samples under ISO/GMP standards.
- Food processing facilities: Hygienic rollers for conveyor systems or mobile shelves in USDA/FDA-compliant facilities are moisture-proof, oil-proof, and can be disinfected frequently.

Philson can customize the wheel size, load, color, and performance according to actual cleanroom needs, providing precision, speed, friction-resistant, and flexible polyurethane wheels.