6514 TT Motor Free Wheel Cross Shaft Robot 65mm

The **6514 TT Motor Free Wheel Cross Shaft Robot 65mm** is a high-quality, lightweight, and durable wheel designed specifically for **robotics, DIY projects, and smart car kits**. Engineered with precision and built from robust materials, this wheel is the perfect match for **TT motors** and is widely used in **Arduino, Raspberry Pi, STEM, and educational robotics projects**.

Whether you're working on a **line-following robot, obstacle avoidance car, Bluetooth/IoT-controlled robot, or any custom robotic system**, this wheel ensures smooth motion, excellent grip, and reliable performance.

Key Features

- **Size:** 65mm diameter (outer) with a standard width suitable for small to medium robot platforms.

- **Material:** Strong plastic hub with a **durable rubber tire** for high traction and long-lasting use.
- **Compatibility:** Designed for **TT DC motors** with a **cross shaft mount**, ensuring easy installation and a secure fit.
- **Lightweight Design:** Ensures efficient motor performance without unnecessary load.
- **Grip & Stability:** The **rubber tire surface** provides excellent friction on a variety of surfaces including wood, tiles, plastic mats, and more.

65MM

Why Choose the 6514 TT Motor Free Wheel?

1. **Perfect Fit for TT Motors**
   This wheel is designed specifically to fit standard TT DC motors with a **cross shaft design**. The secure connection ensures smooth power transfer, minimizing slippage and maximizing efficiency.
2. **Durable & Reliable**
   Made from **high-quality ABS plastic and rubber**, this wheel can withstand repeated use, making it ideal for long-term robotics projects and classroom environments where durability is essential.
3. **Excellent Traction**
   The rubber tire is engineered with a patterned surface that provides strong grip. This makes it suitable for both **indoor and light outdoor use**, allowing your robot to move smoothly and handle small obstacles.
4. **Educational Value**
   Perfect for **STEM education**, this wheel allows students and hobbyists to learn about mechanics, motion, and robotics in a hands-on way. It's commonly used in **Arduino and Raspberry Pi robotics kits**, making it an essential part of DIY learning projects.

Applications

The **6514 TT Motor Free Wheel Cross Shaft Robot 65mm** can be used in a wide variety of robotics and DIY applications, such as:

- **Line-following robots** 🚗
- **Obstacle-avoiding robots** 🚧
- **Smart car kits** for Arduino and Raspberry Pi
- **Bluetooth/Wi-Fi controlled robots** 📱
- **IoT and AI projects** 🌐
- **STEM and educational robotics kits** for schools, colleges, and training centers
- **Prototyping autonomous vehicles** and automation systems

Technical Specifications

- **Model:** 6514 TT Motor Free Wheel
- **Diameter:** 65mm
- **Width:** ~26mm (approx.)
- **Mount Type:** Cross shaft (suitable for TT motors)
- **Material:** Plastic hub + Rubber tire
- **Color:** Typically gray hub with black rubber tire
- **Weight:** Lightweight, ideal for portable robotics projects

Advantages for DIY and Robotics Projects

- **Easy Installation:** Simply push the wheel onto the TT motor shaft and it locks securely.

- **Versatile Use:** Compatible with a wide range of robot chassis kits and motor driver systems.
- **Stable Performance:** Reduces wobble and maintains consistent motion.
- **Budget-Friendly:** High quality at an affordable price, making it accessible for students, hobbyists, and professionals.

Why It's a Must-Have for Robotics Enthusiasts

The **6514 TT Motor Free Wheel Cross Shaft Robot 65mm** is more than just a wheel – it's an essential component that determines the **efficiency, stability, and performance** of your robot. With its **durable build, secure fit, and reliable grip**, it ensures your robotic projects perform at their best.

Whether you're a **student building your first Arduino car, a teacher designing STEM projects for the classroom, or a hobbyist experimenting with autonomous robotics**, this wheel is the perfect choice to bring your ideas to life.