

Robot Wheel 65mm x 26mm with Metal Coupler – Durable & Precise Motion

The **Robot Wheel 65mm x 26mm + Metal Coupler** is a **high-quality wheel set** designed for **robotics projects, DIY mobile robots, and educational kits**. This wheel and coupler combination provides **reliable, precise motion and easy integration** with various motor shafts, making it ideal for **Arduino, Raspberry Pi, or other microcontroller-based robotics projects**.

With its **durable construction, optimal size, and metal coupler**, this wheel set ensures **smooth and stable movement** for your robot, whether it's a **line-following robot, obstacle-avoiding vehicle, or custom robotic platform**.



Key Features

- **Wheel Size:** 65mm diameter x 26mm width, providing stability and sufficient traction.
- **Material:** High-quality durable plastic wheel for lightweight and long-lasting performance.

- **Metal Coupler Included:** Ensures secure connection between wheel and motor shaft.
- **Easy Assembly:** Quick installation on DC or stepper motor shafts.
- **Versatile Use:** Compatible with various robot platforms and microcontroller projects.
- **Stable Motion:** Provides smooth and consistent rotation for precise robot control.
- **Lightweight Design:** Reduces overall robot weight while maintaining durability.

Technical Specifications

- **Wheel Diameter:** 65mm
- **Wheel Width:** 26mm
- **Coupler Material:** Metal, durable and corrosion-resistant
- **Compatible Shaft Diameter:** Typically 3mm to 6mm (check motor specifications)
- **Material:** ABS or reinforced plastic wheel
- **Applications:** Robotics, DIY projects, educational kits, RC vehicles
- **Weight:** Lightweight for efficient motor performance
- **Included Components:** 1 wheel + 1 metal coupler (per set)

Advantages of the Robot Wheel with Metal Coupler

1. **Durable Construction:** High-quality plastic wheel and metal coupler ensure long-lasting performance.
 2. **Secure Connection:** The metal coupler firmly attaches the wheel to the motor shaft, preventing slippage.
 3. **Smooth Motion:** Optimal wheel size and balanced design provide stable and precise rotation.
 4. **Easy Integration:** Works seamlessly with Arduino, Raspberry Pi, or other microcontroller-based robotics projects.
 5. **Versatile Applications:** Suitable for **line-following robots, obstacle-avoiding vehicles, RC cars, and small robotic platforms.**
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Applications

The **Robot Wheel 65mm x 26mm + Metal Coupler** is ideal for a wide range of projects:

- **Line-Following Robots:** Provides smooth rotation and traction for accurate path following.
- **Obstacle-Avoiding Robots:** Stable wheel motion ensures precise maneuvering.
- **DIY Mobile Robots:** Lightweight and durable wheel for various DIY robotics projects.

- **Educational Kits:** Perfect for teaching students about robotics, motion, and motor control.
- **RC Vehicles:** Compatible with small electric motors for hobbyist vehicles and custom RC builds.
- **Prototyping Robots:** Allows quick assembly and testing of new robotic designs.

How It Works

The wheel attaches to a **DC or stepper motor shaft** via the included **metal coupler**, which ensures a secure and stable connection. As the motor rotates, the wheel provides **smooth and precise movement**, allowing your robot to move forward, backward, or turn accurately.

The **65mm x 26mm wheel size** provides the **perfect balance between traction, stability, and lightweight design**, making it suitable for most small to medium robotics projects. The metal coupler reduces wobbling and improves **overall motion reliability**, especially for robots that require precise maneuvering.



Example Project

A typical project using this wheel is a **2WD or 4WD line-following robot**. The wheels provide **smooth rotation**, while the metal couplers ensure **secure attachment to DC motors**. With proper motor control via Arduino or Raspberry Pi, the robot can **follow black-and-white tracks or avoid obstacles** reliably.

Another example is a **mini robotic car** for educational purposes. The lightweight wheels and secure couplers allow the robot to move efficiently while carrying sensors, microcontrollers, and batteries.

Why Choose the Robot Wheel with Metal Coupler

The **Robot Wheel 65mm x 26mm + Metal Coupler** is a **highly reliable and versatile solution** for robotics enthusiasts. Its **durable construction, stable motion, and easy integration** make it perfect for **educational, hobbyist, and DIY projects**.

Whether building a **line-following robot, obstacle-avoiding vehicle, or custom RC robot**, this wheel set ensures **smooth, stable, and precise motion** for all your robotic applications.

Conclusion

The **Robot Wheel 65mm x 26mm + Metal Coupler** is an **essential accessory for mobile robotics projects**. With its **durable wheel, secure metal coupler, and versatile design**, it provides **stable and reliable motion** for robots, educational kits, and DIY robotics applications.

Upgrade your robotics projects with this **high-quality wheel set** for **precise, efficient, and dependable movement**.