

MiniQ Motor Wheel Set (Motor + Wheel 6mm + Bracket)
for N20 Gear Motor



When building small robots, smart cars, or automated prototypes, having the right motor set makes all the difference. The **MiniQ Motor Wheel Set** has been designed to provide makers, students, engineers, and hobbyists with a compact, durable, and efficient solution for powering lightweight robotic platforms. This complete package includes a **DC N20 gear motor**, a **6mm high-traction wheel**, and a **sturdy mounting bracket**, ensuring that you have everything needed for a stable and functional motor assembly.

Unlike buying separate components that may not always fit together properly, the MiniQ Motor Wheel Set is specifically engineered to work seamlessly as a unit. From torque delivery to wheel grip and bracket support, each part is optimized to provide the best possible performance for educational robotics, DIY projects, and even small-scale commercial prototypes.

High-Quality N20 Gear Motor

At the heart of the MiniQ Motor Wheel Set is the **N20 DC gear motor**. Widely recognized for its compact size and powerful performance, the N20 motor is commonly used in robotics and automation projects where space is limited but efficiency is critical. It delivers excellent torque, reliable speed, and smooth operation, making it ideal for small robotic platforms.

The motor is energy-efficient, ensuring longer operational life when powered by batteries, and it integrates seamlessly with controllers like **Arduino, Raspberry Pi, ESP32, and other microcontroller boards**. This makes it a versatile choice for both beginners learning about robotics and advanced users creating innovative designs.

Durable 6mm Wheel

The **6mm wheel** included in the set has been designed with strength and stability in mind. Despite its small size, it provides excellent traction and smooth rolling capabilities, ensuring your robot can move consistently across different surfaces. Whether your project involves a line-following robot on a smooth track or a prototype vehicle moving across uneven ground, the wheel ensures balanced and stable movement.

Its lightweight construction reduces the load on the motor while still being sturdy enough to handle repeated use. This balance of durability and efficiency makes the wheel perfect for classroom projects, competitions, and DIY robotics experiments.

Sturdy Mounting Bracket

To complete the set, a **precision-engineered metal bracket** is included. This bracket ensures the motor and wheel are securely mounted, providing accurate alignment and long-term stability. Without a strong bracket, motors often shift or misalign during operation, which can negatively impact performance. The MiniQ bracket eliminates this issue, keeping your motor in place and allowing your robot to run smoothly without interruptions.

The bracket is easy to install and works well with different chassis designs, giving makers the flexibility to customize their robotic projects with minimal effort.

Key Features at a Glance

- **Complete set:** Includes motor, wheel, and bracket for an all-in-one solution.
- **Compact design:** Perfect for small robots and lightweight applications.

- **Powerful N20 motor:** Reliable torque and speed for efficient movement.
 - **Durable wheel:** Provides stability, traction, and smooth rolling.
 - **Secure mounting bracket:** Prevents misalignment and ensures reliable operation.
 - **Versatile compatibility:** Works with Arduino, Raspberry Pi, and most robotic platforms.
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Applications of the MiniQ Motor Wheel Set

The MiniQ Motor Wheel Set is a versatile package suitable for a wide range of robotics and electronics applications. Some of the most popular uses include:

- **DIY Robotics Projects:** Ideal for hobbyists and makers building small robots at home.
 - **Educational Kits:** Widely used in classrooms and workshops to teach students about robotics, electronics, and motor control.
 - **Line-Following Robots:** Perfect for beginner and intermediate projects where precision movement is essential.
 - **Obstacle-Avoidance Cars:** Can be integrated with sensors to create smart robotic vehicles.
 - **Prototype Automation Systems:** Useful for testing automated movement in research and development projects.
 - **RC Models and Toys:** Provides reliable motorization for miniature remote-controlled vehicles.
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Why Choose the MiniQ Motor Wheel Set?

Instead of spending time searching for individual motors, wheels, and brackets that may or may not fit together, the MiniQ Motor Wheel Set offers a **ready-to-use, compatible solution**. It saves time, ensures reliability, and gives peace of mind to both beginners and professionals.

For **students**, it serves as an excellent introduction to robotics and mechanical design. For **makers and hobbyists**, it simplifies the process of building functional robotic vehicles. For **engineers and developers**, it provides a dependable option for testing and prototyping automated systems.

In short, the MiniQ Motor Wheel Set combines **quality, performance, and ease of use**—all in a compact, affordable package.

Specifications

- **Motor Type:** N20 DC Gear Motor
- **Wheel Size:** 6mm diameter, durable plastic construction
- **Bracket Material:** High-strength metal for secure mounting
- **Compatibility:** Arduino, Raspberry Pi, ESP32, and other robotics platforms
- **Applications:** Robotics, automation, DIY electronics, RC models, educational kits