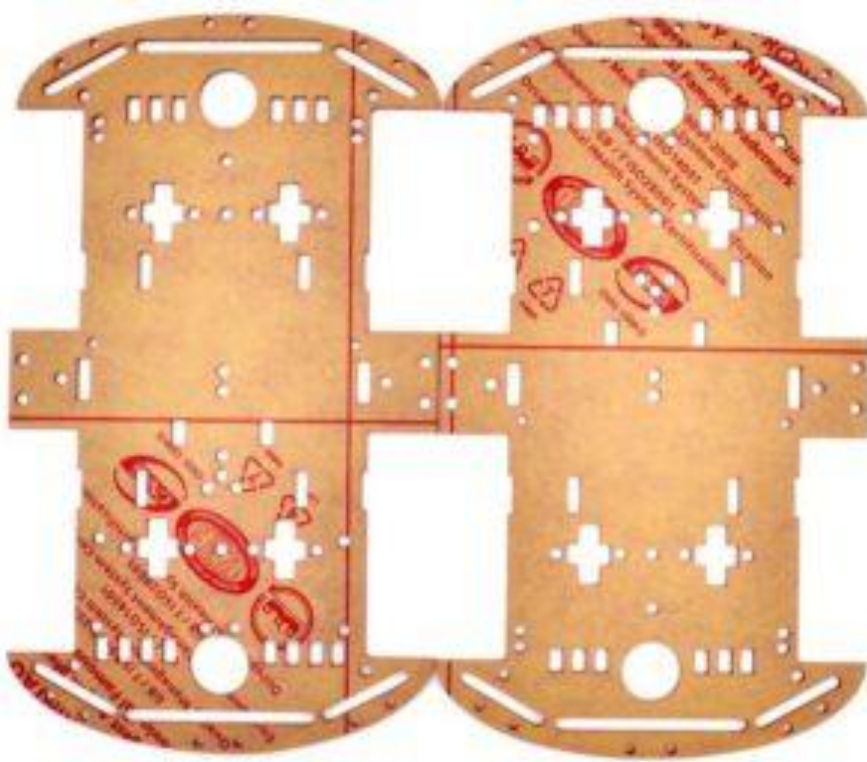


# 4WD Robot Chassis (Acrylic, 2-Pack) – Product Description

The **4WD Robot Chassis (Acrylic, 2-Pack)** is a premium, durable, and versatile platform designed for robotics enthusiasts, hobbyists, and students. This set provides **two high-quality acrylic chassis**, each capable of supporting a 4-wheel drive (4WD) configuration, making it perfect for building robust mobile robots, smart car projects, and educational experiments.

Crafted from high-strength acrylic, these chassis are lightweight yet sturdy, providing stability and durability for various robotics applications. Each chassis offers ample space for mounting motors, wheels, sensors, and microcontroller boards such as Arduino, Raspberry Pi, or ESP32. With this 2-pack set, you can build multiple robots simultaneously, ideal for group projects, classroom settings, or hobbyist experimentation.



## Key Features

- **Material:** High-quality acrylic for lightweight yet strong construction.
- **4WD Compatibility:** Supports four-wheel drive configurations for enhanced mobility and stability.

- **🔧 2-Pack Set:** Build two robots or have a backup chassis for experimentation.
- **↖ Versatile Mounting:** Plenty of space for DC motors, gear motors, wheels, sensors, and controllers.
- **🔩 Easy Assembly:** Pre-drilled holes for simple installation of motors and wheels.
- **🎓 Educational and Hobby Use:** Ideal for classroom projects, DIY robotics, and prototyping.
- **🦋 Lightweight Design:** Easy to handle while maintaining stability for small robots.

## Why Choose the 4WD Robot Chassis (Acrylic, 2-Pack)?

A robust robot chassis is the foundation of any successful mobile robot project. The **4WD Robot Chassis** offers the perfect combination of durability, space, and adaptability. Its acrylic construction is lightweight yet rigid, allowing it to support 4 motors and additional components without compromising stability.

The 4-wheel drive configuration ensures smooth and balanced movement across various surfaces, making it ideal for line-following robots, obstacle-avoiding vehicles, and autonomous smart cars. The 2-pack set provides extra flexibility, allowing users to build multiple projects or keep a spare chassis for experimentation.

## Applications

The **4WD Robot Chassis (Acrylic, 2-Pack)** is suitable for a wide range of robotics and educational projects:

1. **Arduino Robotics Projects** – Perfect for line-following, maze-solving, or obstacle-avoiding robots.
2. **Raspberry Pi Robots** – Integrate AI, computer vision, or automation modules.
3. **DIY Robotics Kits** – Build custom mobile robots for hobbyist experimentation.
4. **Educational Use** – Teach students about robotics, mechanics, and electronics.
5. **Prototyping Platforms** – Test new sensors, motor configurations, and robot designs.



## Technical Specifications

- **Product Name:** 4WD Robot Chassis (Acrylic, 2-Pack)
- **Material:** High-strength acrylic
- **Drive Type:** 4-wheel drive (4WD)
- **Pack:** 2 chassis included
- **Motor Compatibility:** Supports DC and gear motors
- **Controller Compatibility:** Arduino, Raspberry Pi, ESP32, and similar microcontroller boards
- **Mounting:** Pre-drilled holes for motors, wheels, and sensors
- **Dimensions:** Compact yet spacious for component installation
- **Weight:** Lightweight for easy handling and mobility

## Benefits for Hobbyists and Students

This 2-pack 4WD robot chassis set is ideal for both beginners and advanced hobbyists. Its sturdy acrylic construction ensures durability, while the 4WD setup offers smooth, stable, and balanced movement for all types of robot projects.

For students and educators, the chassis provides an excellent hands-on learning platform. It allows learners to experiment with motion control, motor integration, and sensor-based robotics projects, fostering creativity and practical understanding of robotics principles.

Hobbyists can use this 2-pack to build multiple robots, try different designs, or create a backup for ongoing projects. Its lightweight yet durable design ensures long-lasting use while keeping your robots agile and responsive.

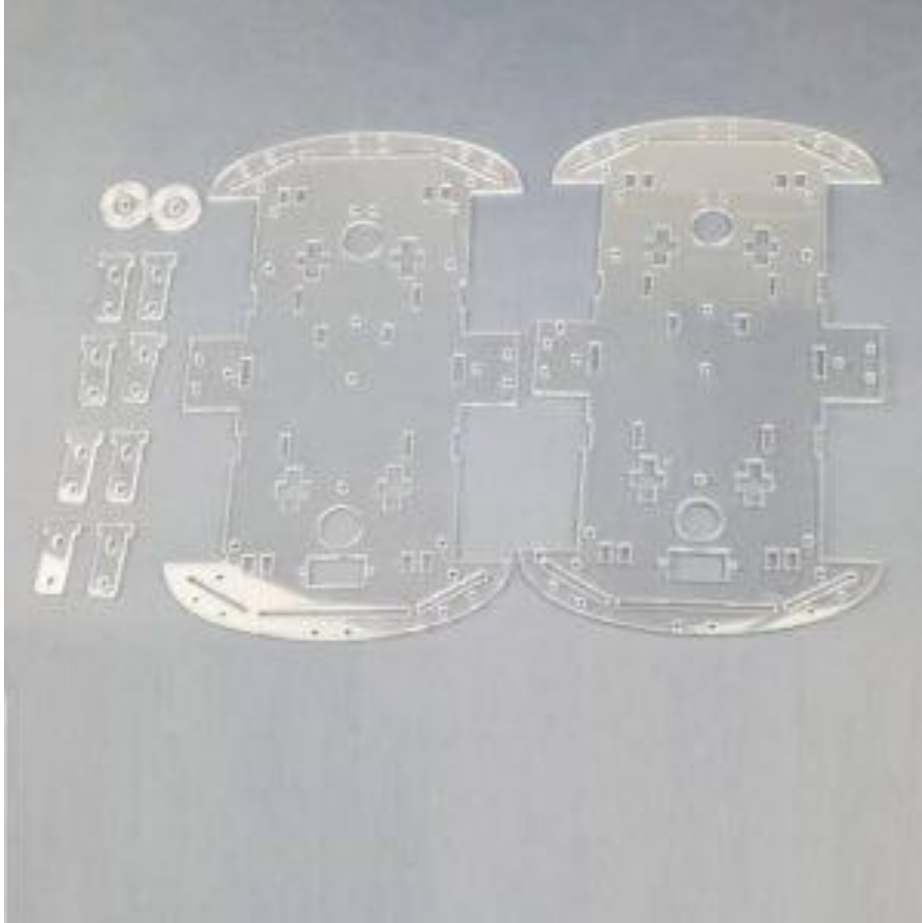
## **Safety and Usage Considerations**

- Ensure proper mounting of motors and wheels to avoid instability.
- Avoid excessive load beyond the motors' and chassis' capacity to maintain smooth operation.
- Handle the acrylic chassis carefully to prevent scratches or cracks.
- Supervise students during assembly and electrical connections for safe use.

## **Why Add It to Your Robotics Toolkit?**

The **4WD Robot Chassis (Acrylic, 2-Pack)** provides a complete, versatile, and reliable foundation for building mobile robots. Its durable design, 4-wheel drive capability, and spacious layout make it a must-have for hobbyists, educators, and students looking to create functional and stable robots.

By adding this chassis set to your toolkit, you gain the flexibility to build multiple robots, experiment with motor and sensor configurations, and explore a wide range of robotics projects with ease and confidence.



## Conclusion

The **4WD Robot Chassis (Acrylic, 2-Pack)** is a robust, lightweight, and versatile platform for robotics enthusiasts, students, and makers. Its 4-wheel drive capability, high-quality acrylic construction, and spacious design make it ideal for Arduino, Raspberry Pi, and DIY robot projects.

Whether you are teaching robotics, building hobbyist robots, or prototyping new designs, this 2-pack chassis set delivers the durability, stability, and flexibility needed to bring your robotic ideas to life.