



Wheel 42x19mm

☹ ROB-08899 ROHS ✓

DESCRIPTION

This custom-designed plastic wheel from Pololu has a rubber tire measuring 1.65" (42 mm) in diameter and is designed to fit the output shafts on our micro and mini metal gearmotors as well as the Solarbotics metal gear motors. Teeth on the hub optionally allow a reflectance sensor to be used for encoder feedback.

This rugged wheel is designed to fit securely on the output shafts of the micro and mini metal gearmotors. These gearmotors should be mounted onto the side of the hub with the protruding teeth. The output shaft will slide into the socket easily at first but will achieve a snug fit when pressed through to the other edge of the hub.

The output shafts on the Solarbotics metal gear motors will also fit these wheels, but because they are shorter they will have to be mounted onto the other side of the wheel where the fit is tighter.

The Micro Metal Gearmotor Bracket Extended is specifically designed to work with this wheel. **Please note that the non-extended version of our mounting bracket will not work well with this wheel.**

Sold in pairs. You get two wheels.



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Wheel 42x19mm Product Help and Resources

SKILLS NEEDED

Core Skill: Robotics

This skill concerns mechanical and robotics knowledge. You may need to know how mechanical parts interact, how motors work, or how to use motor drivers and controllers.



Skill Level: Noob - You will be required to put together a robotics kit. Necessary parts are included and steps will be easy to follow. You also might encounter basic robotics components like bearings, mounts, or other hardware and need a general idea of how it goes together.

[See all skill levels](#)

Core Skill: DIY

Whether it's for assembling a kit, hacking an enclosure, or creating your own parts; the DIY skill is all about knowing how to use tools and the techniques associated with them.



Skill Level: Noob - Basic assembly is required. You may need to provide your own basic tools like a screwdriver, hammer or scissors. Power tools or custom parts are not required. Instructions will be included and easy to follow. Sewing may be required, but only with included patterns.

[See all skill levels](#)

Customer Comments

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Member #916454 / last year / ★ 0

This product contains 2 pieces of wheels or a single piece?



Member #589153 / about 4 years ago / ★ 2

It would be very helpful if a link to an item being recommended would be provided in the spiel above. I'm going around in circles looking for these 'extended brackets' for the gear motor.



Member #556395 / about 4 years ago / ★ 1

this item should be called wheels...



Member #916454 / last year / ★ 1

Does this item contain 2 pieces of wheels, so you specified that?



Member #435690 / about 5 years ago / ★ 1

would this work with servos



Member #357628 / about 5 years ago / ★ 1

can i use them on a rover 5 ?



Member #218146 / about 7 years ago / ★ 1

Can these wheels fit the Rover 5 platform?



RobertC. / about 7 years ago / ★ 1

No, they are far too small. Check the Rover's related products for all the wheels that will fit it.



Member #218146 / about 7 years ago / ★ 1

Thank for the response. I don't see any other wheels except for Mecanum wheels, but I want traditional wheels. Does Sparkfun sell them for Rover 5?



RobertC. / about 7 years ago / ★ 1

We only have the tank treads (which come with it) and the large off-road tires. However, with the large off-road tires, you need some pretty powerful motor drivers to make everything work, and that's why they're not related.



Member #166804 / about 7 years ago / ★ 1

What are the dimensions of the motor/wheel interface? I'd like to put together a free axle and those dims aren't included!



Bughy / about 8 years ago / ★ 1

Hey!

I have a question. In the product info it says that the size diameter of the wheel is 42mm which is in contradiction with the picture where we can clearly see that the diameter is 35mm. So.. what is the real diameter ?



Ben9 / about 8 years ago / ★ 1

The diameter of the plastic hub is 35mm (as shown in the dimension diagram), and the diameter of the wheel with the tire on it is 42mm. The size indicators in Sparkfun's pictures are wrong for this product.



Single T / about 8 years ago / ★ 1

That picture is showing a detail of the hub. The dimensions would be correct if you consider that the tire will change the final dimensions. The hub, and tire are 42mm.



Ben9 / about 8 years ago / ★ 1



I know the dimension diagram just shows the hub, but your top- and bottom-view pictures have size indicators that say the wheel (with tire) is only 35mm in diameter. These are the pictures I was pointing out as incorrect.

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In 2003, CU student Nate Seidle blew a power supply in his dorm room and, in lieu of a way to order easy replacements, decided to start his own company. Since then, SparkFun has been committed to sustainably helping our world achieve electronics literacy from our headquarters in Boulder, Colorado.

No matter your vision, SparkFun's products and resources are designed to make the world of electronics more accessible. In addition to over 2,000 open source components and widgets, SparkFun offers curriculum, training and online tutorials designed to help demystify the wonderful world of embedded electronics. We're here to help you start something.

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