



Ball Caster Omni-Directional Metal

ROB-00320

DESCRIPTION FEATURES

A metal caster used for omni-directional robots. Omni-what? Imagine a robot with the dual-motor gear box. The robot can pivot in one spot, but it must also allow the other wheels on the drive train to move or slide during a turn. This caster allows the robot to rotate and pivot in all directions - omni-directional - without the need for complex steering mechanisms.

two complete casters



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Ball Caster Omni-Directional Metal 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](#)

COMMENTS 6 **REVIEWS** 0

Customer Comments

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Member #325501 / about 5 years ago / ★ 2

As far as I can see there is no hole pattern info anywhere on the web, so...

This caster has two base configurations with different hole patterns. In the 11-16mm height range there is a triangular hole pattern of approx ~16.5mm O.C. and in the 25-37mm range there is a square hole pattern of 20mm O.C.

Hope this helps.

Member #194384 / about 7 years ago / ★ 2

Anybody have dimensions on this thing? I'm trying to do a model in Solidworks, but I won't have mine for another couple of days.

Macduino / about 7 years ago / ★ 1

Surprised with really great customizability and quality. Say goodbye to caster wheels! :)

Thrive / about 8 years ago / ★ 1

I was wondering how much weight one of these can hold up?

NXTreme / about 8 years ago / ★ 1

I don't have one of these but by the looks of it in the picture, it will probably hold up at least two, maybe three, kilos.

Chiel / about 9 years ago / ★ 1

very usefull caster for a most engines/wheels. the assembly is pretty easy and the ball rolls smoothly over most surfaces. im very satisfied with these casters.



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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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For which department?

Please include your email address if you'd like us to respond to a specific question.