# NEXUS robot

# 4WD 58mm Omni Wheel Robot Kit 10020

This Arduino Robot Kit is a 4WD 58mm Omni Wheel mobile robot kit for autonomous and research applications. It's capable of moving in any direction continuously without changing the direction of the wheels. The 4WD 48mm Omni Wheel Arduino Robot Kit supports programmable in C, C++ and especially developed for hobby, professional and educational use. The 58mm Omni Wheel arduino robot kit includes Arduino microcontroller, IO expansion and DC motor with encoders, and can be programmable with the open source Arduino language. It makes you add more levels much easily as there are pre-drilled holes of screw and firm aluminum alloy body.
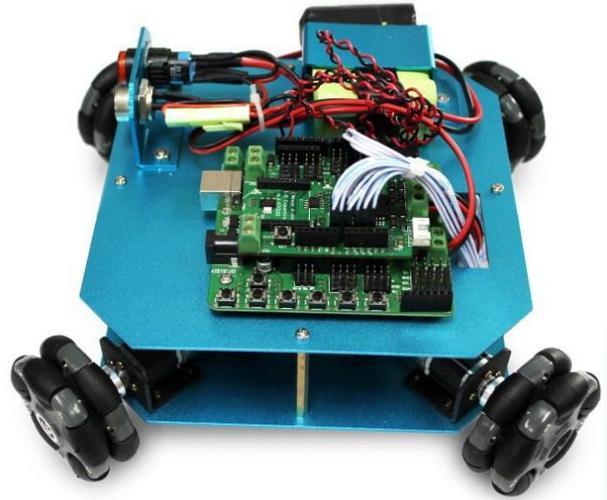


## Features:

- 4 wheel drive
- 58mm Omni wheel
- Aluminum alloy fram
- Easy to assemble
- DC motor with encoder
- Capable of moving omni direction and rotating

## Parts included

- 58mm Plastic Omni-wheel X 4
- Namiki DC Motor with encoders X 4
- Arduino 328 Controller X1
- Arduino IO ExpansionX1
- 12V NI-MH Battery X 1
- 12V ChargerX1

## Parts Description
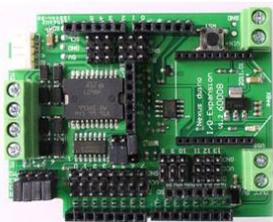


Arduino IO Expansion is a sensor expansion board. The controller board is programmed from the PC in C, C++ programming language.
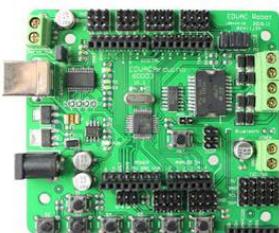


Arduino 328 is a microcontroller board. The USB port can be used for download of own programs and for transmitting data to the PC.

With the help of omni wheels, robot kit can move to all direction.

## Specifications:

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|---|---|---|---|
| Product Name | 58mm Omni wheel mobile robot kit | Speed | 0.2m/s |
| Part Number | 10020 | Power | 17W |
| Appearance | Square | Drive Mode | 4 Wheels Drive |
| Max Width | 170mm | Color | Blue |
| Height | 60mm | Net Weight | 1.5 kg |
| Body Material | Aluminum Alloy | Load Capacity | 2kg |

Co-effect of 4 omni wheels