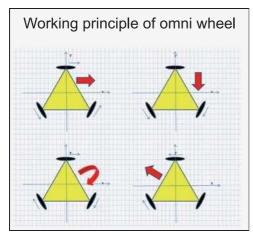


## 3WD 100mm omni wheel robot kit 10003







A omni-wheel robot can instantaneously move in any direction. It does not need to do any complex motions to achieve a particular heading. This type of robot would have 2 degrees of freedom in that it can move in both the X and Y plane freely.

	Appearance	Triangle
	Max Width	330mm
	Height	108mm
	Chassis Height	24mm
	Wheel Base	275mm
	Radius	175mm
01	Coupled Mode	Compaction
Chassis	Material	Aluminum
	Color	Yellow, Black
	Speed	0.6m/s
	Drive Mode	3 wheel drive
	Climbing Capacity	20 degree
	Load Capacityity	15kg
	Mini-ITX Compatible	No
	Туре	90 degree Omni Wheel
Wheel	Diameter	100mm
11	Thickness	38mm
	Material	Aluminum
	Load Capacity	10kg
	Material	Nylon
	Diameter of Roller	19mm
	Length of Roller	19mm
	Coupled Mode	2 603 bearings

Motor	Туре	Faulhaber 12V DC Coreless Motor
	Power	17W
	RPM	120rpm
	Diameter	30mm
	Length	42mm
	Total Length	85mm
	Diameter of Shaft	6mm
	Length of Shaft	35mm
	No Load Current	75m
	Load Current	1400mA
	Gearbox Ratio	64:1
Encoder	Туре	Optical
	Encoder Phase	AB
	Encoder Resolution	12CPR
Battery and Charger	Battery	12V Ni-Mh
	Slow Charger	100~240V In, 2.4~12V Out
	Duration of Charge	2 hours
	Running Time	0.5 hour

	Atmega328
	14 Channels Digital I/O
	6 PWM Channels (Pin11,Pin10,Pin9,Pin6,Pin5,Pin3)
	8 Channels 10-bit Analog I/O
	USB interface
Microcontroller	Auto sensing/switching power input
Specification	ICSP header for direct program download
l .	Serial Interface TTL Level
	Support AREF
	Support Male and Female Pin Header
	Integrated sockets for APC220 RF Module
	Five IIC Interface Pin Sets
	Two way Motor Drive with 2A maximum current
	7 key inputs
	DC Supply:USB Powered or External 7V~12V DC
	DC Output:5V /3.3V DC and External Power Output
	Dimension:90x80mm
IO expansion board	To support RS485 interface or dirve 4 motors

