Hubless wheel drive

A single wheeled vehicle inside the ball, but not statically attached to the ball

Having a part that hangs down like a pendulum, and is swung to either side is how turning is performed

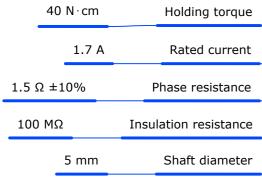
A large flywheel serves as the pendulum's mass

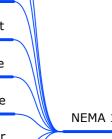
The ball is rolled when the pendulum is tilted by a motor

The vehicle moves back and forth for back-and-forth stability

The suspended mass is moved side to side for side-toside stability

	RM39.00		Price	
	1.8°		Step angle	
40 N∙cr	n	Holding torque		
		_		





Hardware components

Basic motion principle

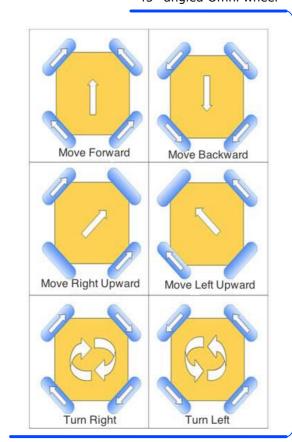
NEMA 17HS4401 bipolar stepper motor

Basic motion principle

Basic motion principle

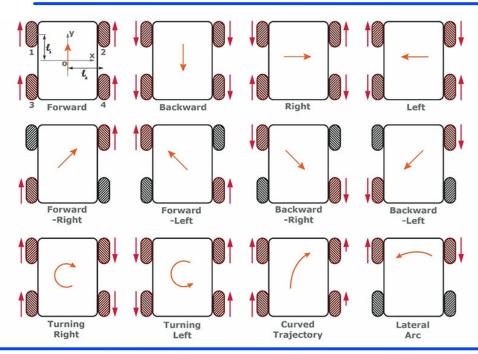
45° angled Omni wheel

Weight





Omni wheel

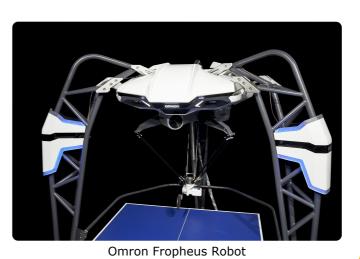


4WD Omni-directional Mobile Robot

Single Wheel BB-8



Stationary Robots **Actuators** Wheeled Robots & Tracked Robots



3000 min⁻¹ 230 V Voltage 0.318 Nm Rated torque 100 W Capacity R88M-1M10030T R88D-1SN01H-ECT Omron 1S Servo Motor 100 W RM 5525.77 Price Hardware components Speed 2000 min⁻¹ 230 V Voltage Rated torque 7.16 Nm 1500 W Capacity R88M-1M1K520T Driver R88D-1SN15H-ECT Omron 1S Servo Motor 1.5 kW

RM 11204.32

Price

Parallel joint linkage

Basic motion principle