PRODUCT NAME : 4" Black Track Wheel Screw Mount for Arduino/R aspberry-Pi/Robotics

PRICE : Rs 65.00
SKU : RM0756

DESCRIPTION

A **wheel** is a circular component that is intended to rotate on an axial bearing. The wheel is one of the main components of the wheel and axle which is one of the six simple machines. Wheels, in conjunction with axles, allow heavy objects to be moved easily facilitating movement or transportation while supporting a load, or performing labor in machines.

A **tire** (or **tyre**) is a ring-shaped covering that fits around a wheel's rim to protect it and enable better vehicle performance The materials of modern pneumatic tires are synthetic rubber, natural rubber, fabric and wire, along with carbon black and other chemical compounds. They consist of a tread and a body. The tread provides traction while the body provides containment for a quantity of compressed air.

Performance characteristics

· Balance

When a wheel and tire rotate, they exert a centrifugal force on the axle that depends on the location of their center of mass and the orientation of their moment of inertia.

· Rolling resistance

Rolling resistance is the resistance to rolling caused by deformation of the tire in contact with the road surface. As the tire rolls, tread enters the contact area and is deformed flat to conform to the roadway. The energy required to make the deformation depends on the inflation pressure, rotating speed, and numerous physical properties of the tire structure, such as spring force and stiffness.

Compatible Motor With the wheel:

· 10 RPM Center Shaft Metal Gear

· 100 RPM Center Shaft Metal Gear

· 10 RPM JOHNSON GEARED MOTOR

· 100 RPM JOHNSON GEARED MOTOR

· 1000 RPM JOHNSON GEARED MOTOR

· Round shape Stepper Motor (Low Torque)

· Small Stepper Motor (Mid Torque)

Specifications:

· Width of the tire : 20 mm

· Diameter of the tire : 100 mm

· Diameter of the Shaft Hole : 6 mm