



SPARKY: TT Motor Wheels



DesignLabX

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Summary

Wheels for use with TT motors for use in robotics.

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These are wheels for use with TT motors in robotics. The wheels use a nut and screw (M3 nut & M3x8mm screw) in a set screw configuration to remain attached to the motor axle. Wheels use O-Rings (330 Nitrile O-Rings, 70A Durometer, Black) for traction. [TPU does not provide traction.]

These will provide more consistency in shape and size than the wheels that often come with the TT motors.

The model is available in 59mm, 60mm, and 61mm sizes to provide for height adjustment of the driven wheels when used in conjunction with non-driven wheels. Indicated size is the diameter of the 3D printed part. Add 8mm for the O-ring in calculating working diameter (e.g., 60mm → ~68mm).

Additional Materials:

- 330 Nitrile O-Rings, 70A Durometer, Black
- M3x8mm screw & M3 nut (one each per wheel)

Important: When purchasing O-rings, be sure to check the size (330), material (nitrile) and hardness (70A durometer).

Required tools:

- 2.5mm hex driver for M3 screw

Slicer Settings:

Models were printed on a Bambu X1C in PLA at 0.2mm layer height with no supports.

Part of the [SPARKY open academic robotics platform](#).

Model files



wheel-screw-hub-60mm.3mf

☐ Default



wheel-screw-hub-59mm.3mf



wheels-screw-hub-61mm.3mf

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