



Tamiya 72002 High-Speed Gearbox Kit

The Tamiya 72002 high-speed gearbox can be assembled in 11.6:1 and 18:1 gear ratios. The high-efficiency gearbox is therefore suited for very fast vehicles or other fast mechanisms that do not require high torque.

The low-voltage motors in the high-speed gearbox run on 1.5-4.5 volts and draw up to a few amps, making them perfect candidates for the Pololu low-voltage dual serial motor controller and the DRV8833 motor driver carrier. Motor overheating can be caused by excessive stalling, even at very low voltages. We recommend that you use stall-detection sensors, or just watch your robot, to make sure that it doesn't stall for more than a few seconds at a time.

This gearbox has a 4 mm diameter, round output shaft, which works with the wheels that are compatible with Tamiya 4 mm, round shafts. Our 3 mm universal mounting hub also fits on the smaller threaded end of the shaft, although it is not specifically intended to work with this type of shaft (the hub's set screw could damage the thread on the shaft).

For motor specs, see the Mabuchi motor RE-260 (#2295) data sheet (59k pdf). To compare all Tamiya gear box kits, see the Tamiya Gearbox Gear Ratio Comparison.



Note: The high-speed gearbox is a kit; assembly is required. To use the kit in robotics projects, you need to connect the motors to your own robot controller.

[Documentation on producer website.](#)