



MHM602 & MHM603

EnerTrac is pleased to offer, arguably the most powerful hub motor currently for sale to the upgrade market and readily available to the general public for gas to electric motorcycle conversions. This motor was designed to make the gas to electric motorcycle conversion easy, with such features as a 60mm O.D. hollow axle designed to accept the standard bolt axle used in almost all motorcycles. What is required with a motorcycle conversion using a hub motor is the design of a torque arm that prevents the axle from rotating. This Torque Arm was designed for direct integration into most motorcycles swing arms. Other features of this design that stand out when compared with other hub motors are large mounting area and easy mounting of a Disc Rotor, and high efficiency design.

No other hub motor on the market today is design exclusively for the motorcycle conversion market. The motor uses a higher voltage, lower current design to minimize losses from wire heating. It is able to achieve 10KW continuous and up to 30KW peak. The motor is thermally protected when using the recommended Kelly Controller to prevent overheating and burn out. The Hub motor is designed for motorcycles weighing less than 400 pounds with the batteries (dry weight, no rider).

The Hub motor will come laced to DOT compliant rim, WM3 style 36 hole, 18 X 2.15, other sizes available on special order, or order just the motor and have a rim of your choice spoked onto the motor.

Product Specifications:

MHM602: Two turn winding motor

MHM603: Three turn winding motor

Power output: 10KW continuous @ 25c ambient temperature

Protection: thermally protected with kelly controller

Typical voltage needed:

MHM602:

10 RPM/Volt

72 volts for 45 MPH with 18 X 3.5 tire

96 volts for 60 plus MPH with 18 X 3.5 tire

MHM603:

7 RPM/Volt

72 volts for 30 MPH with 18 X 3.5 tire

96 volts for 45 plus MPH with 18 X 3.5 tire

Typical current demand:

MHM602:

At 72 volts and 45 MPH < 50 amps

At 96 volts and 60 MPH < 95 amps

MHM603:

At 72 volts and 30 MPH < 33 amps

At 96 volts and 45 MPH < 50 amps

Note: *These voltage and current results were obtained using a 325 pound motorcycle with a 170 pound rider on a flat road with little to no headwind your results will vary depending on motorcycle, rider weight, and conditions. EnerTrac does not guarantee voltage and current specifications, but provide them as a guide to help the customer chose the correct battery for their build.*

Swing arm width needed: 7.5 inches needed for installation with torque arm

Wheel size: WM3 style 36 hole 18 X 2.15

Color: Motor Black, Rim Silver

Installation:

Purchasing the MHM602 from EnerTrac will give the buyer the full engineering support of the EnerTrac team. We will try to ensure that the customer has a successful outcome to their build. This support includes free design and manufacture of a custom torque arm, free interface of an approved disc rotor (disc rotor not included) and all engineering support needed. Of course Enertrac can't guarantee a successful build and in the end it will depend on your skills to make a successful build happen but if you have the skills EnerTrac is there for you to answer any questions that may come up in the course of your project.

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