

Hitec HS-645MG Super Torque Servo



Accessories Bag



Product Description

The powerful HS-645MG is one of Hitec's most popular servos. It's the perfect choice for those projects requiring a durable high torque servo. Featuring Hitec's unique M/P and metal gear train technology, the HS-645MG offers one of the strongest gear trains available in any RC servo.

RC servos are hobbyist remote control servos typically used in radio-controlled models, where they provide actuation for various mechanical systems such as the steering of a car, the flaps on a plane, or the rudder of a boat. These servos are not industrial grade and are not recommended for continuous heavy use.

Resources

- Servo Motor and Controller Primer
- Data Sheet
- Service Manual

Product Specifications

Motor Properties

Motor Type	Limited Rotation Servo
Range of Rotation	180°
Maximum Speed at Rated Voltage	300°/s
Rated Torque	7.7 kg·cm

Physical Properties

Gear Train Material	Metal
Bearing Type	Dual Ball Bearing
Motor Length	37.7 mm
Motor Width	40.6 mm
Motor Depth	19.8 mm
Weight	55.2 g

Electrical Properties

Rated Voltage	5 V DC
Rated Current (on 1061 controller)	230 mA
Rated Current (on 1066 controller)	120 mA
Stall Current (on 1061 controller)	1.8 A
Stall Current (on 1066 controller)	480 mA

These product specifications are based on our own tests using the HS-645 motor with the Phidgets 1061 and 1066 motor controllers.

Motor Controllers

The 3204 – Super Torque Servo can be used with the following Phidget motor controllers:

- 1066 – PhidgetAdvancedServo 1-Motor
- 1061 – PhidgetAdvancedServo 8-Motor

You must use the 1061 if you want to get the maximum torque out of your motor.

