

HS-5085MG Premium Metal Gear Micro Servo

A digital version of one of Hitec's most popular microi servos the HS-5085MG offers excellent centering, resolution and durability for those looking to save weight without sacrificing performance. A popular servo for smaller airplanes, heli's, boats, cars and trucks, the HS-5085MG offers a fine balance between speed and torque.

The upgraded version of this servo is now available : D85MG

Features

- Standard Servo Performance from a Micro Servo
- Rugged Metal Gears
- Ball Bearing-Supported Output Shaft
- Standard Programmable Digital Circuit
- Stronger Holding Power than the Analog Version

Programmable Functions

- End Point Adjustments
- Direction
- Fail Safe
- Dead Band
- Speed (Slower)
- Data Save / Load
- Program Reset

Accessories

- Metal Gear Set | [Link](#) |
- Plastic Case Set | [Link](#) |
- Applicable Horns

HS-5085MG Servo Specifications

Performance Specifications

Operating Voltage Range (Volts DC)	4.8V ~ 6.0V
Speed (Second @ 60°)	0.17 ~ 0.13
Maximum Torque Range oz. / in.	50 ~ 60
Maximum Torque Range kg. / cm.	3.6 ~ 4.3
Current Draw at Idle	3 mA
No Load Operating Current Draw	290 mA
Stall Current Draw	2150 mA
Dead Band Width	2 μs

Physical Specifications

Dimensions (Inches)	1.14 x 0.51 x 1.18
Dimensions (Metric)	29.0 x 13.0 x 30.0
Weight (Ounces)	0.77
Weight (Gram)	21.9
Circuit Type	G1 Programable Digital
Motor Type	3 Pole Metal Brush Ferrite
Gear Material	Metal
Bearing Type	Top Ball Bearing
Output Shaft (type / Ømm)	Standard 24
Case Material	Plastic
Dust / Water Resistance	N / A
Connector Gauge (AWG) / Strand Count	28 / 20

Radio Control Applications

Parkflyer	< 50 oz.
Sport Plane	42 - 50 oz.
Sailplane	<2 meter / DLG
3D Performance	N / A
Scale	N / A
Electric Helicopter	N / A
Gas Helicopter	N / A
On Road	1/16th
Monster Truck	N / A
Buggies	1/16th
Truggies	N / A
Short Course / Truck	1/16th
Crawlers	N / A
Sail Boat	N / A
Power Boat	1/16th