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# HS-7950TH Servo



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Price

**\$119.99 - \$149.99**

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Part

**37950S**

Status

**In stock**

Direction\*

Choose an Option...

Rotation\*

Choose an Option...

\* Required Fields

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Hitec's strongest servo period, the "Ultra Torque" HS-7950TH is designed to operate on a two cell LiPo Pack. Featuring high resolution "G2" second generation programmable digital circuit and

indestructible Titanium gears, the HS-7950TH has the performance and durability you've come to expect from a Hitec servo. Other features in the HS-7950TH include a 7.4V optimized coreless motor, integrated heat sink case, and a top case with two hardened steel gear pins supported by axial brass bushing. The HS-7950TH has been designed for the most demanding hobby applications including the largest aircraft and monster trucks. Featuring a titanic 403 oz./in. of torque at 6.0 volts, while still maintaining a respectable 0.15 second transit time.

## SPECS

### Programable Features:

- Dead Band Width
- Direction of Rotation
- Speed of Rotation (slower)
- End Points
- Neutral Points
- Fail Safe On/Off
- Fail Safe Points
- Resolution (default is set at high)
- Overload Protection (default is off)

<b>Dimensions</b>	1.57" x 0.79"x 1.50" (40 x 20 x 38mm)
<b>Product Weight</b>	2.40oz (68g)
<b>Output Shaft Style</b>	24 tooth (C1) spline
<b>Voltage Range</b>	6.0V - 7.4V
<b>No-Load Speed (4.8V)</b>	0.18 sec/60°
<b>No-Load Speed (6.0V)</b>	0.15 sec/60°
<b>No-Load Speed (7.4V)</b>	0.13 sec/60°
<b>Stall Torque (4.8V)</b>	344oz/in. (22kg.cm)
<b>Stall Torque (6.0V)</b>	402oz/in. (29kg.cm)
<b>Stall Torque (7.4V)</b>	486oz/in. (35kg.cm)
<b>Max PWM Signal Range (Standard)</b>	750-2250µsec
<b>Travel per µs (out of box)</b>	.080°/µsec
<b>Travel per µs (reprogrammed normal res)</b>	.132°/µsec
<b>Travel per µs (reprogrammed high res)</b>	.075°/µsec

<b>Max Travel (out of box)</b>	120°
<b>Max Travel (reprogrammed normal res)</b>	198°
<b>Max Travel (reprogrammed high res)</b>	112°
<b>Pulse Amplitude</b>	3-5V
<b>Operating Temperature</b>	-20°C to +60°C
<b>Current Drain - idle (4.8V)</b>	9mA
<b>Current Drain - idle (6.0V)</b>	9mA
<b>Current Drain - no-load (4.8V)</b>	220mA
<b>Current Drain - no-load (6V)</b>	300mA
<b>Current Drain - stall (4.8V)</b>	3.8A
<b>Current Drain - stall (6V)</b>	4.8A
<b>Continuous Rotation Modifiable</b>	Yes
<b>Direction w/ Increasing PWM Signal</b>	Clockwise
<b>Deadband Width</b>	1µs
<b>Motor Type</b>	Coreless Carbon Brush
<b>Potentiometer Drive</b>	6 Slider Indirect Drive
<b>Feedback Style</b>	5KΩ Potentiometer
<b>Output Shaft Support</b>	Dual Ball Bearing MR106
<b>Gear Type</b>	Straight Cut Spur
<b>Gear Material</b>	Titanium Gears
<b>Wire Length</b>	11.81" (300mm)
<b>Wire Gauge</b>	22AWG

## TECH TIPS

## Recommended Products



32P, 24T C1 Spline Servo Mount Gears  
(Metal)



DDT500 Tilt Kit



2.6mm Socket Head Servo Screw 8mm  
long



HFP-30 Servo Programmer



DPC-11 Servo Programmer



55353 Hitec OEM Replacement Gear Set



32P, 24T C1 Spline Servo Mount Gears  
(Acetyl)



DDP155 Base Pan



C1 Spline Servo to 1/4" Shaft Coupler (Set Screw)



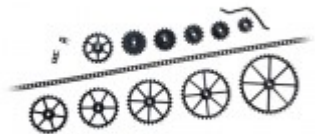
Servo Protractor



Standard Servo Plate B



24 Tooth Spline Servo to Shaft Couplers



0.1227" Pitch, Nylon Servo Sprockets



SPT200 Pan & Tilt Kit



Standard Servo Plate D



Servo Grease



Vertical Aluminum Servo Mount



24 Tooth 0.500" Servo Shaft



Standard Plain Shaft ServoBlock™ (24T Spline)



4 Servo Recorder



56407 Hitec OEM Replacement Case Set



C1 Spline Actobotics Servo Arm



DDT540 4" Tilt



24 Tooth 0.375" x 0.280" Servo Shaft



Dual Servo Driver



Direct Mount Servo Wheel (2 pack)



48P, 24T C1 Spline Servo Mount Gears (Metal)



HPP-21 Servo Programmer



Standard Metal Gear Servo Screw



24T Lightweight Hub Horn



DDT560 6" Tilt



55326 Hitec OEM Replacement 1st Gear (3 pack)



48P, 24T C1 Spline Servo Mount Gears  
(Acetyl)



DDP125 Standard Pan



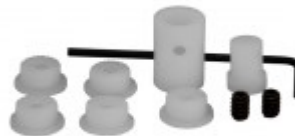
2 Servo Joystick



Standard Hitec Hub Horn



Standard Servo Plate A



Servo Rotary Driver



SPT100 Pan & Tilt Kit



Standard Servo Plate C





0.250" Pitch, 10 Tooth Aluminum Servo Sprocket with 24 Tooth Spline



C1 Spline Actobotics Dual Servo Arm



HPP-21 Plus+ Servo Programmer



24 Tooth 0.375" x 1.00" Servo Shaft



Standard Hub Shaft ServoBlock™ (24T Spline)



Actobotics® Servo Controller



OEM Hitec Male (Gold Pin)

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