



shop online or call 620-221-0123

WE HAVE THE PARTS FOR YOUR IDEAS!

[ServoCity- Servos & Accessories- Hitec Servos- HSR-5990TG Servo-](#)

HSR-5990TG Servo

[Shopping Cart](#)

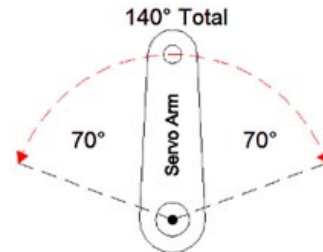
[Radios & Accessories](#)
[Servos & Accessories](#)
[Pan/Tilt/Roll & Accessories](#)
[Robots & Accessories](#)
[Motors & Accessories](#)
[Mechanicals & Accessories](#)
[Electronics & Accessories](#)
[Software & Accessories](#)
[Batteries & Accessories](#)
[Wire/Connectors & Access.](#)
[Web Specials](#)
[Questions and Comments](#)

MAXIMUM TORQUE **417 oz-in.****MAXIMUM SPEED** **0.12 sec/60°**

The replacement for the amazing HSR-5995TG is finally here and is the new HSR-5990TG. This servo raises the bar even higher when it comes to servo technology. Now with an aluminum heat-sink case that offers a longer duty-cycle for those really tough applications. The performance is still staggering for a servo this size especially when installed in our ServoPower Gearbox (over 2,000 oz-in. or torque). Right out of the box, this servo operates a full 120° (140° full trims). A full set of titanium gears (a first in the servo industry) offers 48 times the strength of nylon gears. Each gearset shaft rides in bronze bushings for durability and strength. We offer the HSR-5990TG servo in two configurations, continuous rotation (potentiometer is left outside the servo case) and reverse rotation. We know that this is not a cheap servo but you definitely get what you pay for - you will be impressed!

Digital Servo
Programmable

*Digital servos do not need to be programmed to operate. They work great right out of the box and purchasing a programmer is not necessary.



120° no trims, 140° using full trims

This servo can operate 180° by sending a pulse signal ranging from 600usec to 2400usec.

Detailed Specifications

Control System: +Pulse Width Control 1500usec Neutral
Required Pulse: 3.3-7.4 Volt Peak to Peak Square Wave
Operating Voltage Range: 4.8-7.4 Volts
Operating Temperature Range: -20 to +60 Degree C (-68F to +140F)
Operating Speed (6.0V): 0.15 sec/60° at no load
Operating Speed (7.4V): 0.12sec/60° at no load
Stall Torque (6.0V): 333.29 oz-in. (24kg.cm)
Stall Torque (7.4V): 416.61 oz-in. (30kg.cm)
Standing Torque (6.0V): 433.27 oz-in. (31.2kg.cm) 5 degree deflection
Standing Torque (7.4V): 541.59 oz-in. (39kg.cm) 5 degree deflection
Operating Angle: 60 Deg. one side pulse traveling 450usec
360 Modifiable: Yes
Direction: Clockwise/Pulse Traveling 1500 to 1950usec
Idle Current Drain (6.0V): 3mA at stop
Idle Current Drain (7.4V): 3mA at stop
Current Drain (6.0V): 300mA/Idle and 4.2 amps at lock/stall
Current Drain (7.4V): 380mA/Idle and 5.2 amps at lock/stall
Dead Band Width: 2usec
Motor Type: Coreless Metal Brush
Potentiometer Drive: 6 Slider Indirect Drive
Bearing Type: Dual Ball Bearing MR106
Gear Type: 4 Titanium Gears
Connector Wire Length: 11.81" (300mm)
Dimensions: 1.57" x 0.78" x 1.45" (40 x 20 x 37mm)
Weight: 2.18oz (62g)

Price: **\$124.99**

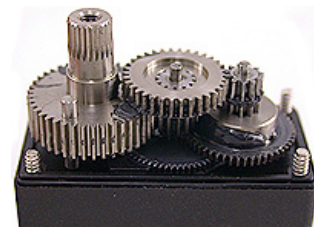
Part: 35990S

Status: **In-Stock**

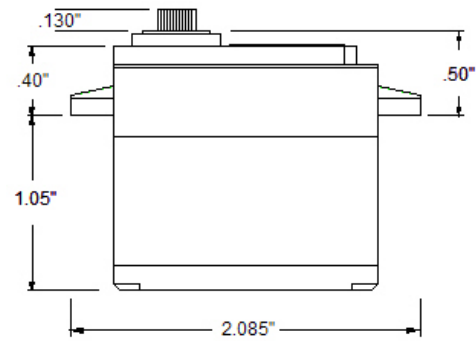
Rotation: 120° Rotation (Stock)

Direction: Clockwise (Stock)

Qty: 1

[Add to Cart](#)

Ultra strong Titanium gears offer unbeatable strength and tight mesh over thousands of cycles.



Programmability features and state of the art hardware make the HSR-5990TG servo one of the most advanced in any industry.



The bottom offers a pivot point that is inline with the output drive on the opposite side.



The HSR-5990TG upper case incorporates brass bushings for the servo gear shafts for longevity and smooth operation.

Copyright 1999-2008 Robotzone, LLC. - All Rights Reserved
ServoCity is a registered trademark of Robotzone, LLC.