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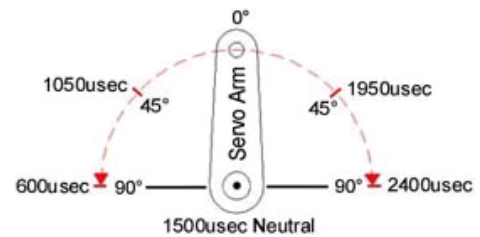
## HS-322HD Standard Deluxe

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**MAXIMUM TORQUE** → **51 oz-in.**
**MAXIMUM SPEED** → **0.15 sec/60°**

The key to the great performance and durability of the HS-322HD servo is linked to its Karbonite geartrain and one piece circuit board. Karbonite gears are nearly 4 times stronger than nylon gears and provide virtually wear-free performance. The HS-322HD servo is also the most powerful servo under \$10! Great gears, great electronics and a great price equal a great servo.

**→ Analog Servo**


This servo can operate 180° when given a pulse signal ranging from 600µsec to 2400µsec. Since most R/C controllers cannot generate this wide of signal range, you will need to use our [servo stretcher](#) for 180° operation.

### Detailed Specifications

**Control System:** +Pulse Width Control 1500µsec Neutral  
**Required Pulse:** 3-5 Volt Peak to Peak Square Wave  
**Operating Voltage:** 4.8-6.0 Volts  
**Operating Temperature Range:** -20 to +60 Degree C  
**Operating Speed (4.8V):** 0.19sec/60° at no load  
**Operating Speed (6.0V):** 0.15sec/60° at no load  
**Stall Torque (4.8V):** 42 oz/in (3.0 kg/cm)  
**Stall Torque (6.0V):** 51 oz/in (3.7 kg/cm)  
**Current Drain (4.8V):** 7.4mA/idle and 160mA no load operating  
**Current Drain (6.0V):** 7.7mA/idle and 180mA no load operating  
**Dead Band Width:** 5µsec  
**Operating Angle:** 40 Deg. one side pulse traveling 400µsec  
**Direction:** Clockwise/Pulse Traveling 1500 to 1900µsec  
**Motor Type:** Cored Metal Brush  
**Potentiometer Drive:** 4 Slider/Direct Drive  
**Bearing Type:** Top/Resin Bushing  
**Gear Type:** Heavy Duty Resin  
**360 Modifiable:** Yes  
**Connector Wire Length:** 11.81" (300mm)  
**Dimensions:** See Schematics  
**Weight:** 1.52oz (43g)

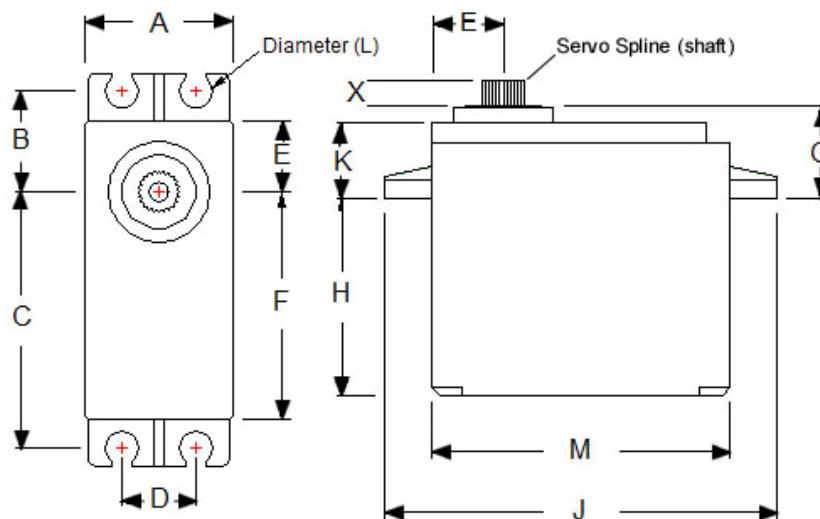
 Price: **\$9.99**

 Part: **33322S**

 Status: **→ In-Stock**

 Rotation: **90° Rotation (Stock)**

 Direction: **Clockwise (Stock)**

 Qty: **1** **Add to Cart**


A = .780" (19.82mm)  
 B = .530" (13.47mm)  
 C = 1.33" (33.79mm)  
 D = .400" (10.17mm)  
 E = .380" (9.66mm)  
 F = 1.19" (30.22mm)  
 G = .460" (11.68mm)  
 H = 1.05" (26.67mm)  
 J = 2.08" (52.84mm)  
 K = .368" (9.35mm)  
 L = .172" (4.38mm)  
 M = 1.57" (39.88mm)  
 X = .120" (3.05mm)

