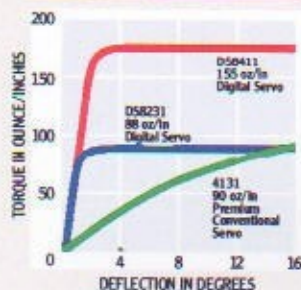


DIGITAL

JR's new Digital Servo series once again advances technology for modellers seeking the highest performance possible. Using a JR-designed Mitsubishi digital amplifier, this extraordinary chip sends

**HOLDING TORQUE COMPARISON**

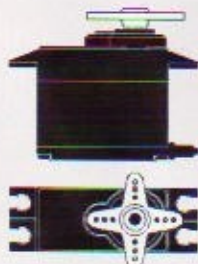


power pulses to the motor through ultra-fast FETs at 6 times the normal frequency rate, for substantially enhanced holding torque with only a modest increase in idle current consumption. What's more, DS series servos offer increased resolution and imperceptible deadband, way beyond the

capabilities of conventional coreless servos. And with the new, reconfigured gear train and doubled output shaft-bearing spacing, these mechanics have proven to maintain tighter tolerances longer. They're an unbeatable investment!

**Digital Servo Specifications**

<b>Resolution:</b> 13 bit A/D converter (8,000 steps per 1.20°)	<b>Voltage:</b> 4.8-6.0V
<b>Holding Torque:</b> 3X (plastic gear), 5X (metal gear)	<b>Deadband:</b> Less than 1us
<b>Motor:</b> Ring capacitor coreless	<b>PWM:</b> 300 Hz



**DS8411 Digital Ultra Torque** Premium Digital

Torque: 155 oz/in@4.8V Speed: .18 sec/60°  
 Weight: 2.03 oz Size: 0.73" x 1.52" x 1.32"  
 Motor: Coreless Ball Bearing: Dual

With 155 oz/in of unbridled brute strength, the DS8411 is currently the world's most powerful standard-size servo. Alloy gears assure that the gear train will hold up to tremendous loads, while offering substantially improved wear over conventional brass units.

**DS8417 Digital Ultra Speed** Premium Digital

Torque: 82 oz/in@4.8V Speed: .10 sec/60°  
 Weight: 2.03 oz Size: 0.73" x 1.52" x 1.32"  
 Motor: Coreless Ball Bearing: Dual

With lightning-fast speed and substantial torque, the DS8417 helicopter enthusiasts looking for improved gyro authority and fixed wing pilots looking for instantaneous control will find their answer in this servo. Utilizes alloy gear train. Makes an ideal tail rotor servo for helis.

**DS8231 Digital Ultra Precision**

Torque: 88 oz/in@4.8V Speed: .22 sec/60°  
 Weight: 1.76 oz Size: 0.73" x 1.52" x 1.32"  
 Motor: Coreless Ball Bearing: Dual

Comparable to the 4131, the DS8231 brings owners the enhanced precision, resolution and holding torque only a digital servo can provide. Nylon gears.



JR's new digital amplifier features a high-frequency 300 Hz output and high power FET transistors for the ultimate in response and holding torque.



Composite metal gears consisting of a hard anodized output gear and hardened steel and brass counter gears give a virtually unstrippable backlash-free gear train.



**DS368 Digital Ultra Torque Micro** Premium Digital

Torque: 53 oz/in@4.8V Speed: .21 sec/60°  
 Weight: .80 oz Size: 0.50" x 1.12" x 1.17"

Motor: Five pole core-d Ball Bearing: Dual  
 Imagine 30% more torque than a standard servo, from a micro-sized package! Now, it's a reality thanks to the new DS368. Factor in the composite alloy gears that'll assure reliability and digital holding torque, and you have a servo that'll go where others have never gone before! Scale modellers might use these to control rudders of a twin aircraft for short, precise linkages. Jet modellers might use them for rudder control to save critical weight. Aerobatic flyers will find these perfect for small-medium size planes. And sailplane modellers are going to love them for wing servos in a wide variety of machines.



**DS3421 Digital Ultra Torque Mini** Premium Digital

Torque: 65 oz/in@4.8V Speed: .18 sec/60°  
 Weight: 1.04 oz Size: 0.58" x 1.30" x 1.02"

Motor: Coreless Ball Bearing: Dual  
 When the micro servo is a little too small, and the mid too big, the mini is the servo that'll be perfect for the job. Team JR flyers have tested these extensively in 180 mph Formula 40 racers and found that they took control to noticeably higher levels. In a high speed plane, or one with large surfaces, the increased holding torque from the digital system makes a considerable difference.



**DS9411 Digital Ultra Torque Mid** Premium Digital

Torque: 82 oz/in@4.8V Speed: .15 sec/60°  
 Weight: 1.36 oz Size: 0.75" x 1.41" x 1.03"

Motor: Coreless Ball Bearing: Dual  
 With composite alloy metal gears, 82 oz/in of torque, and JR's high digital holding torque, the new 9411 will be a popular choice for aerobatic mid-size models, scale modellers, and sailplane enthusiasts.



**DS3301 Digital Wing Servo**

Torque: 56 oz/in@4.8V Speed: .22 sec/60°  
 Weight: 1 oz Size: 0.58" x 1.30" x 1.30"

Motor: Coreless Ball Bearing: Dual  
 New thin-profile aileron servo is vastly improved sailplanes or jet servo has not only superb holding torque, but 50% higher speed than previous generation unit. Retained are ample gears, making this an even more ideal servo for flap installation.