

**Servo Motor:**

23 Frame flange mount 1/4" Shaft  
Max RPM @ 60VDC = 4700  
Continuous Torque = 50 oz-in  
Continuous Current = 3.5A @ 50 oz-in  
Peak Torque = 328 oz-in @ 20A

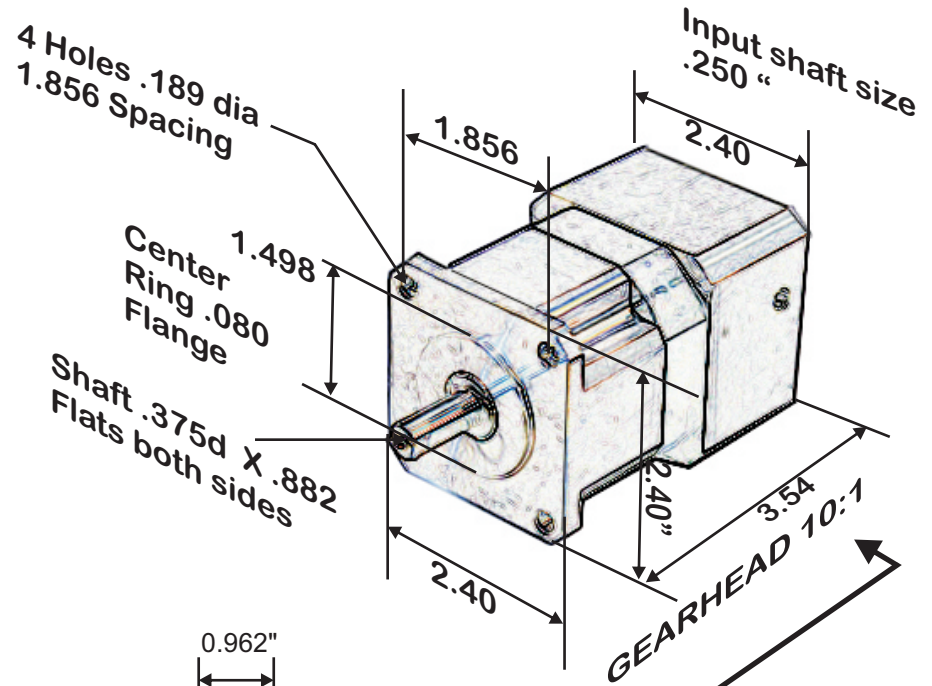
**Gearhead:**

Input (female) = .250 Output (Shaft) = .375 dia  
Ratio : 10:1 reduction  
RPM Max = 470 RPM  
Torque Continuous = 450 oz-in  
Torque Peak = 3200 oz-in  
Radial backlash 10 Arc-minutes max

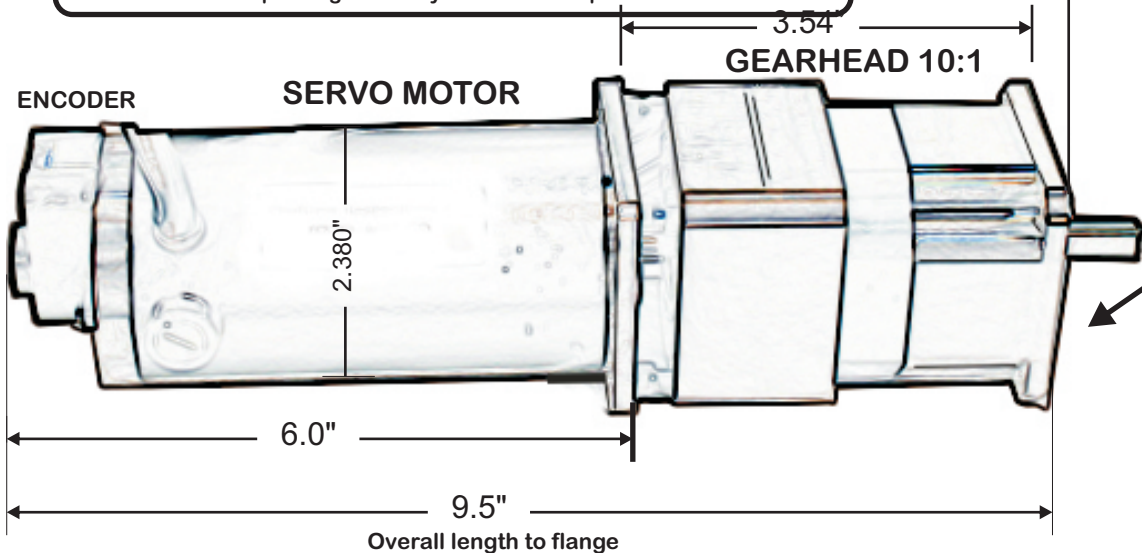
**Direct drive to 1" DP Pinion Gear:**

Linear Speed = 1200 IPM max  
Linear Force Cont = 900 oz-in per motor (4.69 Ft-lbs)  
Linear Backlash at gear = <.0015"  
Linear Resolution = .0003"

Different diameter pinion gears will yield different Speed and Force numbers



**Planetary Gearhead Front View**



**PHYSICAL**

Combined Overall length 10.5 "  
Diameter (max) 2.5 inches  
Weight (combined 5.4 lbs)

Encoder Line Count = 250  
Pulses per Rev = 1000  
Resolution = .0001 per step

Approx Steps per Inch with 1"  
DP Pinion gear to rack = 3183