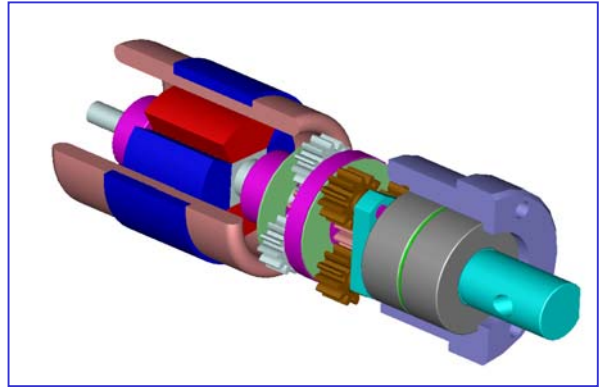
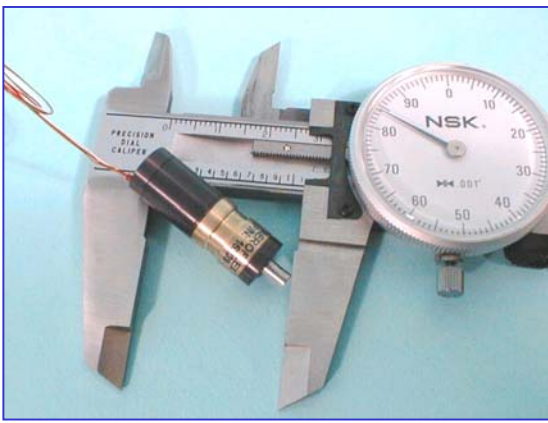


# 10 mm Stepper Motor/Gearheads



<b>Motor Parameters</b>	<b>with 16:1 Gearhead</b>		<b>with 256:1 Gearhead</b>	
	<b>English</b>	<b>SI</b>	<b>English</b>	<b>SI</b>
• Holding Torque (@ 0.5 watts)	1.47 in-oz	10.4 mNm	18.4 in-oz	130 mNm
• Running Torque (0.5 watts @ 100 PPS)	1.1 in-oz	7.7 mNm	13.5 in-oz	95 mNm
• Km (Motor)	0.17 in-oz/ $\sqrt{W}$	1.2 mNm/ $\sqrt{W}$	0.17 in-oz/ $\sqrt{W}$	1.2 mNm/ $\sqrt{W}$
• Pulse Rate	1 to 100	1 to 100	1 to 100	1 to 100
• Detent Torque	0.3 in-oz	2.1 mNm	6 in-oz	42 mNm
• Resistance	9 ohms	9 ohms	9 ohms	9 ohms
• Diameter	0.394 in	10 mm	0.394 in	10 mm
• Length	1.063 in	27 mm	1.268 in	32.2 mm
• Output Shaft	.125 in	3.175 mm	.125 in	3.175 mm
• Weight	0.32 oz	9.4 grams	0.35 oz	10 grams

All performance parameters are nominal values at room temperature.

## Winding Parameters

Dash Number – XXX	W1
Voltage, Holding Torque (Volts)	2.2
Peak Current (Amps)	0.25
$K_T$ (in-oz/amp) +/- 10%	0.52
R (ohms)	9.0

## Features

- Available standard ratios are 16:1, 256:1, auxiliary gear boxes are available
- Super low weight - < 10 grams with gearhead (256:1)
- Zero-cogging design, Detent added for step applications, adjustment upon request
- Available in standard temperature ranges from -70°C to +85°C. Other ranges available.
- Space Qualified - All materials meet NASA outgassing criteria
- Customized drive and control electronics are available

## *Motion Control Systems Division*

350 Kennedy Drive  
 Hauppauge, NY 11788  
 Phone: (631) 231-9100  
 E-Mail [sales-motion@aeroflex.com](mailto:sales-motion@aeroflex.com)

