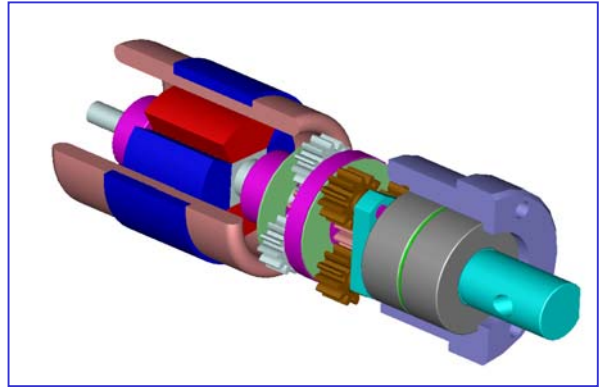
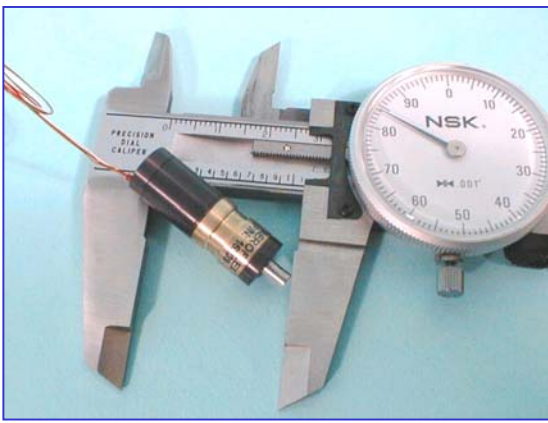


10 mm Stepper Motor/Gearheads



| Motor Parameters | with 16:1 Gearhead | | with 256:1 Gearhead | |
|--|---------------------------|---------------------|----------------------------|---------------------|
| | English | SI | English | SI |
| • 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

