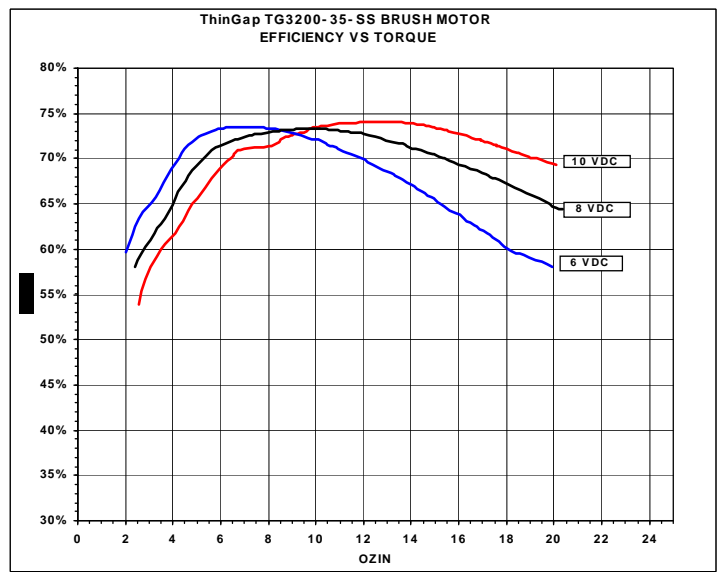
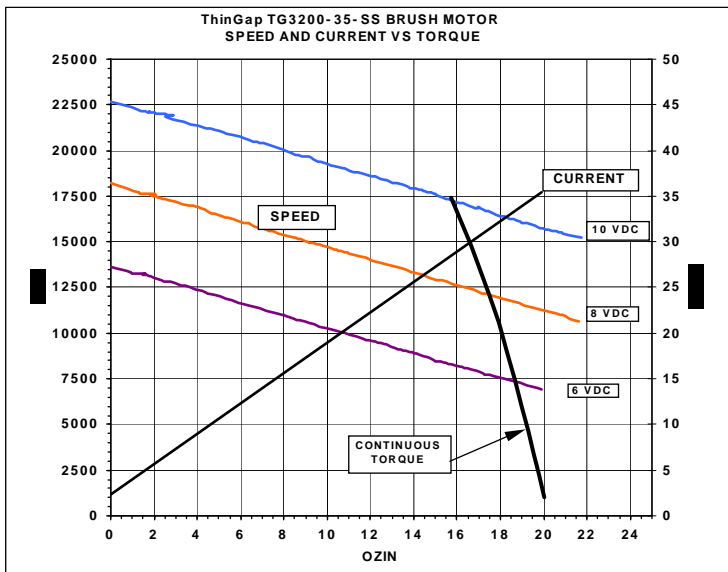
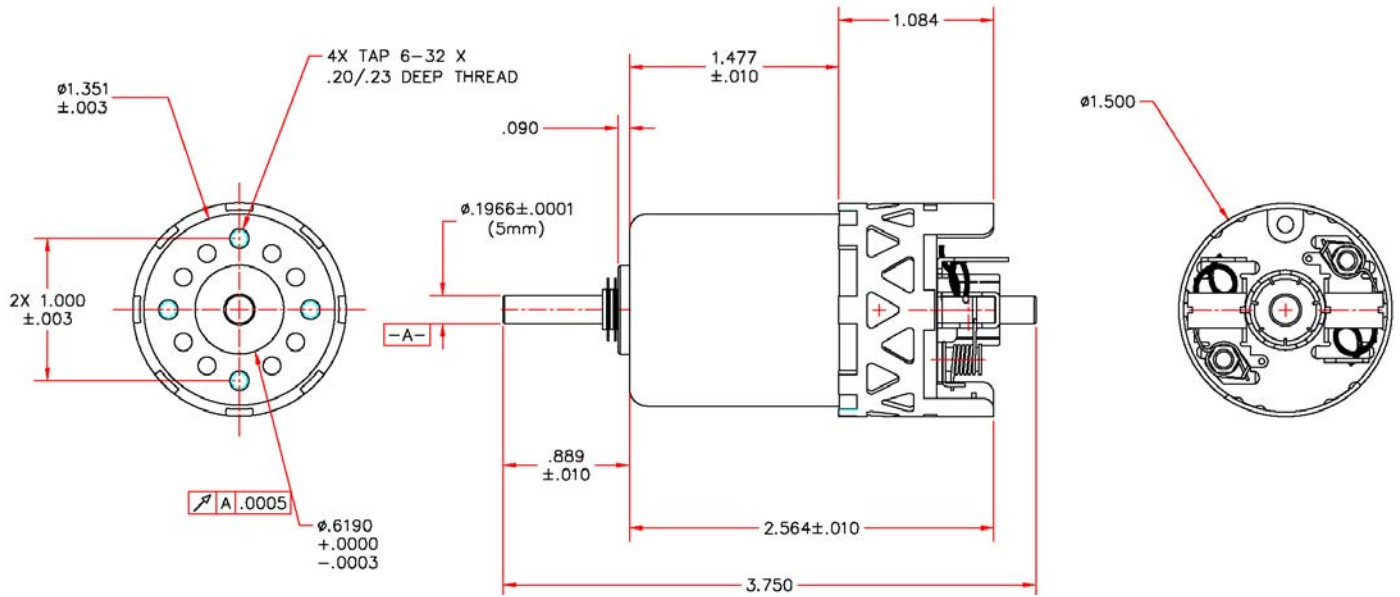


- Autoclavable medical device motor
- Stainless steel housing and components
- High temperature capability
- High power density
- High efficiency
- No cogging or hysteresis
- Compact and lightweight



TGB1620-SS Brush Motor		-
Peak torque (T_{peak})		80 oz-in.
Continuous shaft power (P_{cont})		197 W
Torque (T_{cont})		16 oz-in.
Current (I_{cont})		30 amps
Speed		16,630 rpm
Voltage		10 V _{DC}
Max efficiency @ 25 °C		74%
Max speed (ω_{max})		24,000 rpm
No load speed (ω)		22,500 rpm @ 10 V _{DC}
Motor constant (K_m)		2.5 oz-in./sqrt (W)
Torque constant (K_t)		0.58 oz-in./amp.
Back EMF constant (K_e)		2,332 rpm/V _{DC}
No load current (I_o)		3.0 amps
Terminal resistance. (R_t)		0.054 Ω
Cogging and hysteresis torque (T_c)		0 oz-in.
Viscous drag torque (T_{ac})		0.060 oz-in./krpm
Friction torque (T_{fr})		0.6 oz-in.
Max armature winding temperature*		130 °C
Thermal resistance (TPR)		1.34 °C/W
Armature inductance (L)		<10 μ H
Starting current		1.4 amps
Armature weight (W_a)		1.8 oz
Motor weight (W_t)		10 oz
Armature inertia (J)		9.96×10^{-4} oz-in.-s ²
<p>*Max continuous winding temperature is limited by maximum magnet temperature of 120 °C. Peak power is limited by the temperature rise of the armature. Motor contains integrated fan for cooling. Magnet Material – Samarium Cobalt, Bearing Type – Ball, Brush – Silver Graphite Motor testing performed at 25 °C ambient mounted on heat sink of 3" x 3/8" x 8" aluminum.</p>		



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