

T-Series Motors

Limited Angle, Direct Drive



The Bental T-Series motors are the perfect choice for direct drive, limited rotation angle as required for precise applications such as sights and fire control. These motors are toroidally wound on a slotless stator for low friction and low hysteresis losses necessary for accurate control systems, laser applications etc. High-quality Samarium Cobalt magnets are incorporated for maximum performance. Windings are encapsulated in thermal conductive epoxy for cool running. These motors are virtually noiseless, as there is no connection between rotor and stator. Due to the large air gap and non-varying reluctance path from the toroidal winding, there is no cogging.

Built to Need

T-Series Motors

Limited Angle, Direct Drive

Features

- Infinite resolution for precise positioning and actuation
- High torque to power ratio
- Large angular excursion
- Smooth, quiet output torque
- High acceleration response
- No cogging
- Zero backlash

Applications

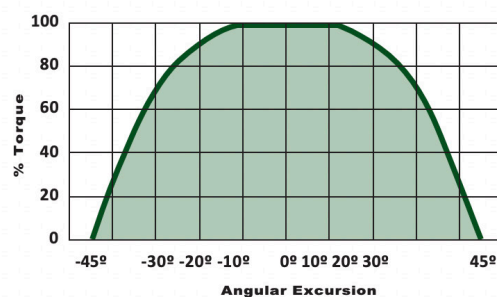
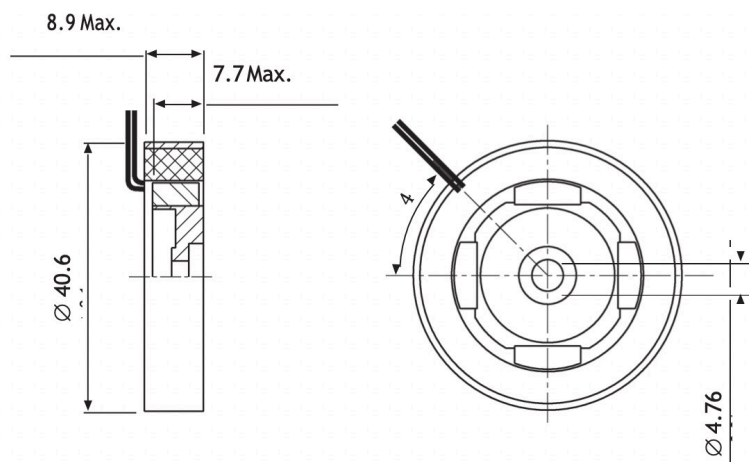
- Gimbal drives
- Stabilizers
- Laser applications
- Medical equipment

Performance

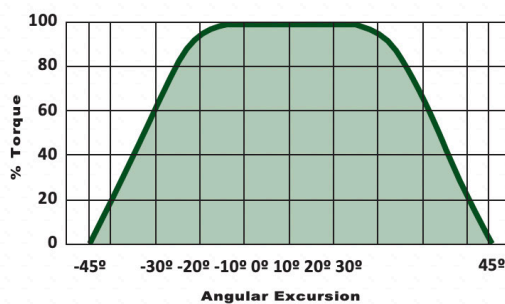
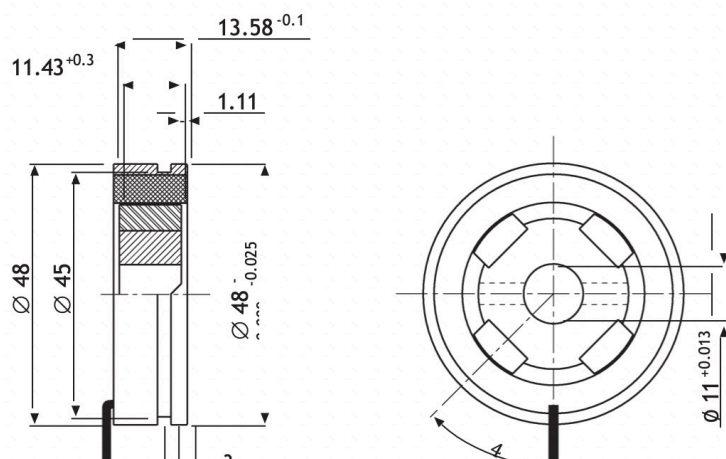
Specifications	Unit	T-020-007	T-024-010	T-032-012	T-054-016	T-063-015
Peak Torque	Nm	0.044	0.12	0.353	2.47	3.53
Continuous Stall Torque	Nm	0.0175	0.05	0.141	0.56	0.85
Torque Constant	Nm/A	0.02	0.085	0.4	0.367	0.58
Back EMF	V/rad/sec	0.02	0.085	0.4	0.367	0.58
Resistance @ 20°C	Ω	5.7	24	65	5	5.8
Inductance	mH	1.6	8.5	90	10	15
Current @ Peak Torque	A	2.2	1.4	0.88	6.75	6.1
Current @ Cont. Stall Torque	A	0.875	0.59	0.35	1.57	1.5
No. of Poles (2p Constant)		4	4	4	6	6
Weight - Max.	gr	60	105	445	1160	1600

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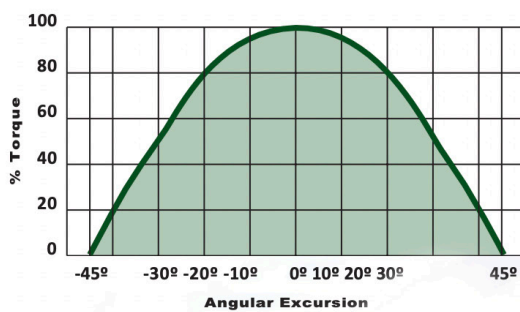
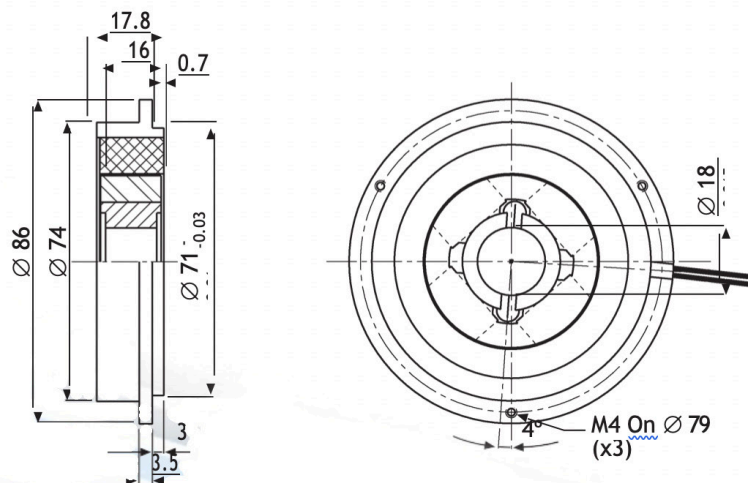
T-020-007



T-024-010



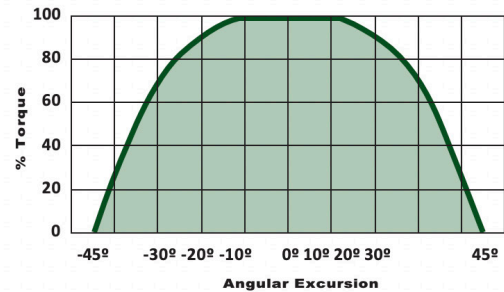
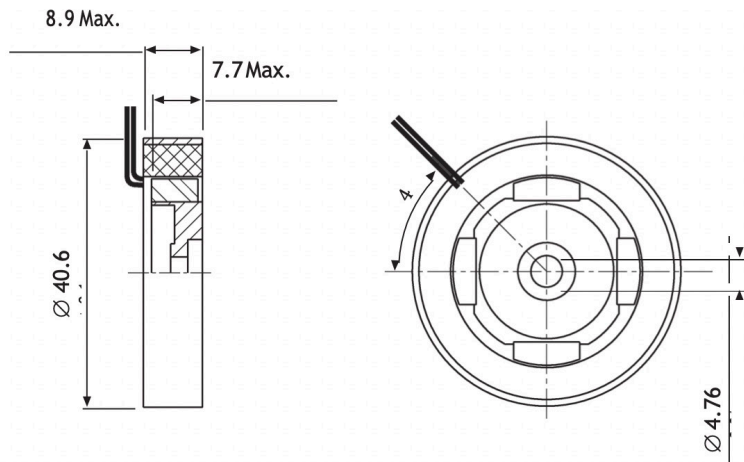
T-032-012



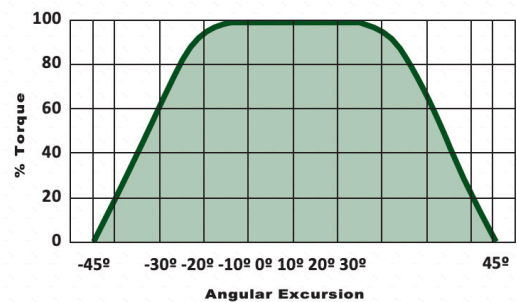
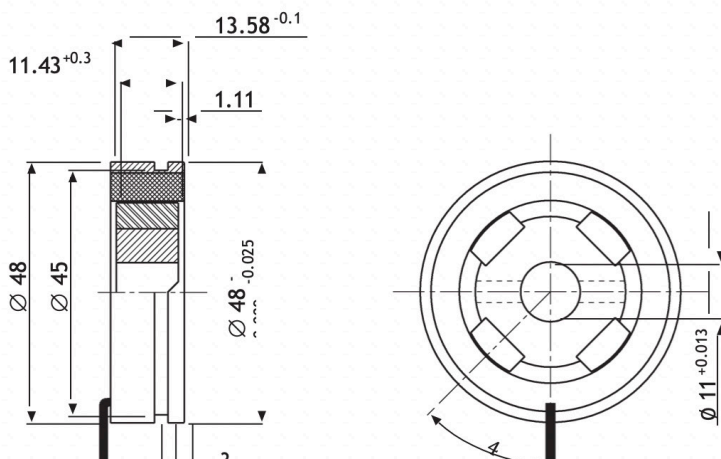
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Built to Need

T-054-016



T-063-015



Gevasol Group

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Gevasol is a group of companies, oriented toward developing and producing customized and tailored solutions, developed together with its customers. Gevasol' diverse disciplines skilled engineers and operational teams allow us to turn an idea into a product quickly. The design process starts with listening to the customer and fully understanding his needs. Our customers rely on our responsiveness.

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