# **ETT - Electric Tubular Motor**

Linear Handling and Pick & Place Applications 6 - 128 N Continuous force 24 - 512 N Peak force

## Highly dynamic:

ETT is a direct thrust linear motor actuator, ideally suited for all kind of linear handling and pick & place applications. It is a cost-effective and energy-efficient alternative to pneumatic cylinders in applications that demand greater flexibility and control. The ETT's linear motion is directly generated without the need for mechanical transmission elements like ball screws, toothed belts and gearboxes. The tubular motor has two main components; the rod (shaft) and the stator with the integrated feedback (body). The shaft is made of a stainless steel tube with built in neodymium magnets, that thanks to their high performance, are able to deliver significant thrust values up to 512 N. The main body comprises the stator winding, the feedback electronics and high performance bearings. A major benefit of the ETT design is that long and/or heavy duty cycles are possible without additional cooling. The IP67 protection class allows the ETT tubular motor to be used even under harsh environmental conditions.

## **Contact Information**

EMEA Product Information Centre Free phone: 00 800 27 27 5374 (from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA) US Product Information Centre Toll-free number: 1-800-27 27 537 www.parker.com

www.parker.com/eme/ett





## **Product Features**

- Three lengths and three sizes conforming to pneumatic ISO flange norm (DIN ISO 15552:2005-12) for simplified mechanical integration
- Swivelling electrical connectors and extensive accessory options allow flexible mounting
- Reduced mechanical complexity delivers a high energy efficiency and reduces maintenance
- AISI304 stainless steel shaft permits use in "clean" environments

- 1 Vpp Sine/Cosine encoder feedback for precise control
- High Force range up to 128 N continuous and 512 N of peak force makes ETT ideal for a wide range of applications
- High thermal efficiency improves reliability and increases mechanical life



# **Technical Specifications**

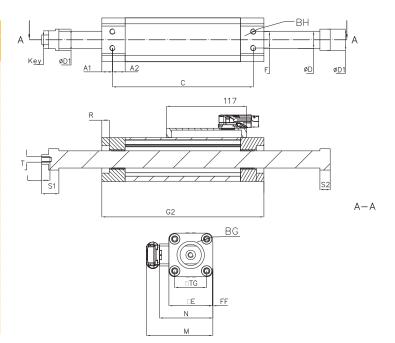
- Rated force 6 to 128 N
- Peak force 24 to 512 N
- Protection class IP67
- Max speed 4 m/s
- Acceleration up to 200 m/s<sup>2</sup>
- Accuracy bi-directional ±0.05 mm

ETT type	Rated Force	Peak Force	Stroke *	Actuator Length	Rod Length without stop	Rod Diameter	Position Repeatability	
	[N]	[N]	[mm]	[mm]	[mm]	[mm]	[mm]	
ETT025S1	6	24						
ETT025S2	9	36	30360	162	215545	12	±0.05	
ETT025S3	12	48						
ETT032S1	13	52	30660	179		16	±0.05	
ETT032S2	19	76	30630	209	221851			
ETT032S3	25	100	30600	239				
ETT050S1	32	128	30720	206		25	±0.05	
ETT050S2	48	192	30690	236	254944			
ETT050S3	128	512	30540	386				

\* different values on request

#### Dimensions

	ETT025			ETT032			ETT050			
Screw lead	S1 [mm]	S2 [mm]	S3 [mm]	S1 [mm]	S2 [mm]	S3 [mm]	S1 [mm]	S2 [mm]	S3 [mm]	
D	12			16			25			
A <sub>1</sub>	n.a.			12.5			15.5			
A <sub>2</sub>	n.a.			12.5			18.5			
С	n.a.			154	184	214	175	205	355	
Key	12			16			26			
D <sub>1</sub>	16			21			31			
BH	n.a.			M6x9			M8x12			
BG	n.a.			M6x16			M8x25			
FF	n.a.			0.5						
F	12			16			24			
TG	n.a.			32.5			46.5			
E	ø 30			46.5			63.5			
Ν	48,7			60.7			77.7			
М		n.a.			82	82		98		
G <sub>2</sub>		162		179	209	239	206	236	386	
Т		M4			M6		M8			
S <sub>1</sub>		23		25						
<b>S</b> <sub>2</sub>		15		15						



### Options

#### Rod End

With External Thread







Rod Clevis







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