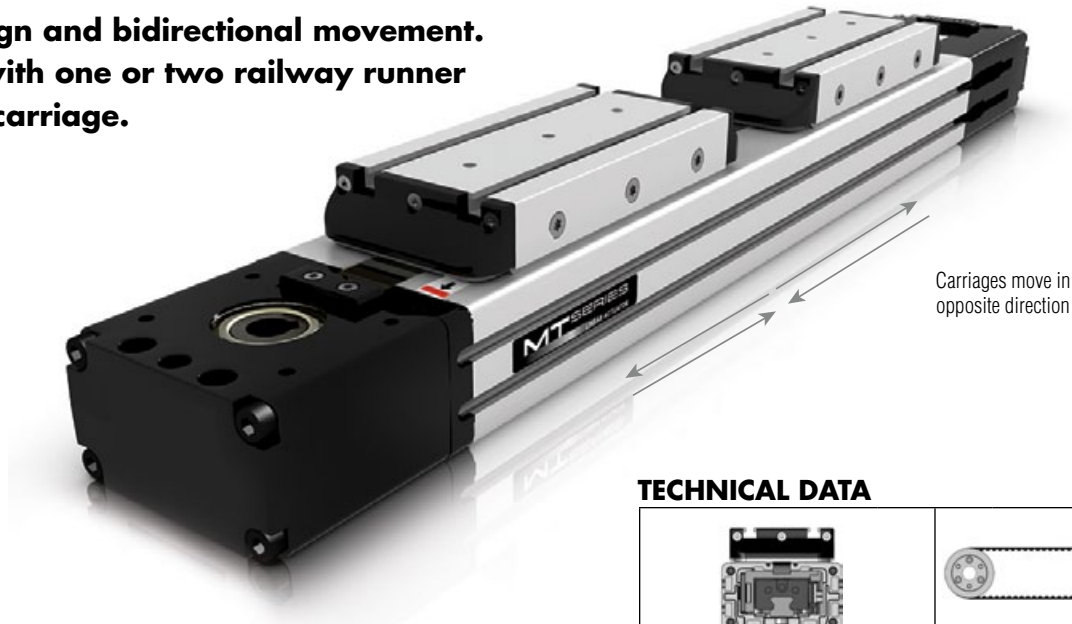


MT Series

MTD 42 BELT DRIVEN LINEAR ACTUATOR



The MTD belt driven unit features a flat profile design and bidirectional movement. Available with one or two railway runner blocks per carriage.



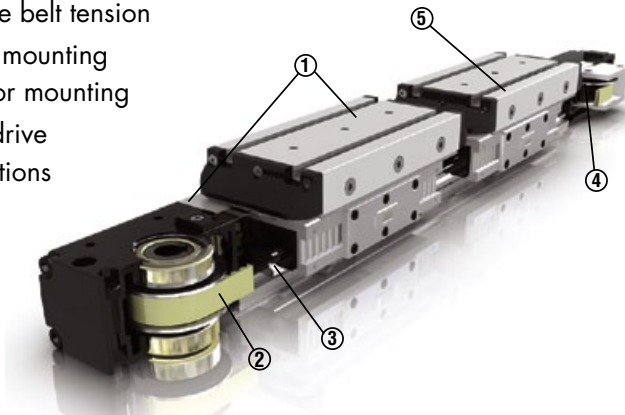
Carriages move in opposite direction

FEATURES & BENEFITS

- High Acceleration, Speed & Rigidity
- Long Travel Length
- Low Friction, Noise & Vibration
- Strong yet Lightweight & Corrosion Resistant

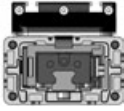
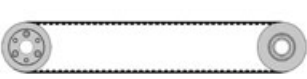
KEY FEATURES

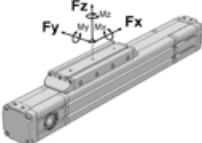
- (1) Anodized aluminum housing and carriage
- (2) Steel reinforced belt capable of handling high loads
- (3) Ball guided rail system
- (4) Adjustable belt tension
- (5) T-slots for mounting and sensor mounting
- (6) Multiple drive configurations



NOTE:
 1. Moment arms for calculating moments should be measured from the centerline of the extrusion.
 2. Limit switches must be used in order to prevent the carriage from contacting the actuator end blocks, resulting in damage.
 3. 25mm of over-travel has been added to the body length in each direction to allow for carriage over-travel. 25 mm is the recommended over-travel; although a minimum of 10mm may be specified for special applications.

TECHNICAL DATA

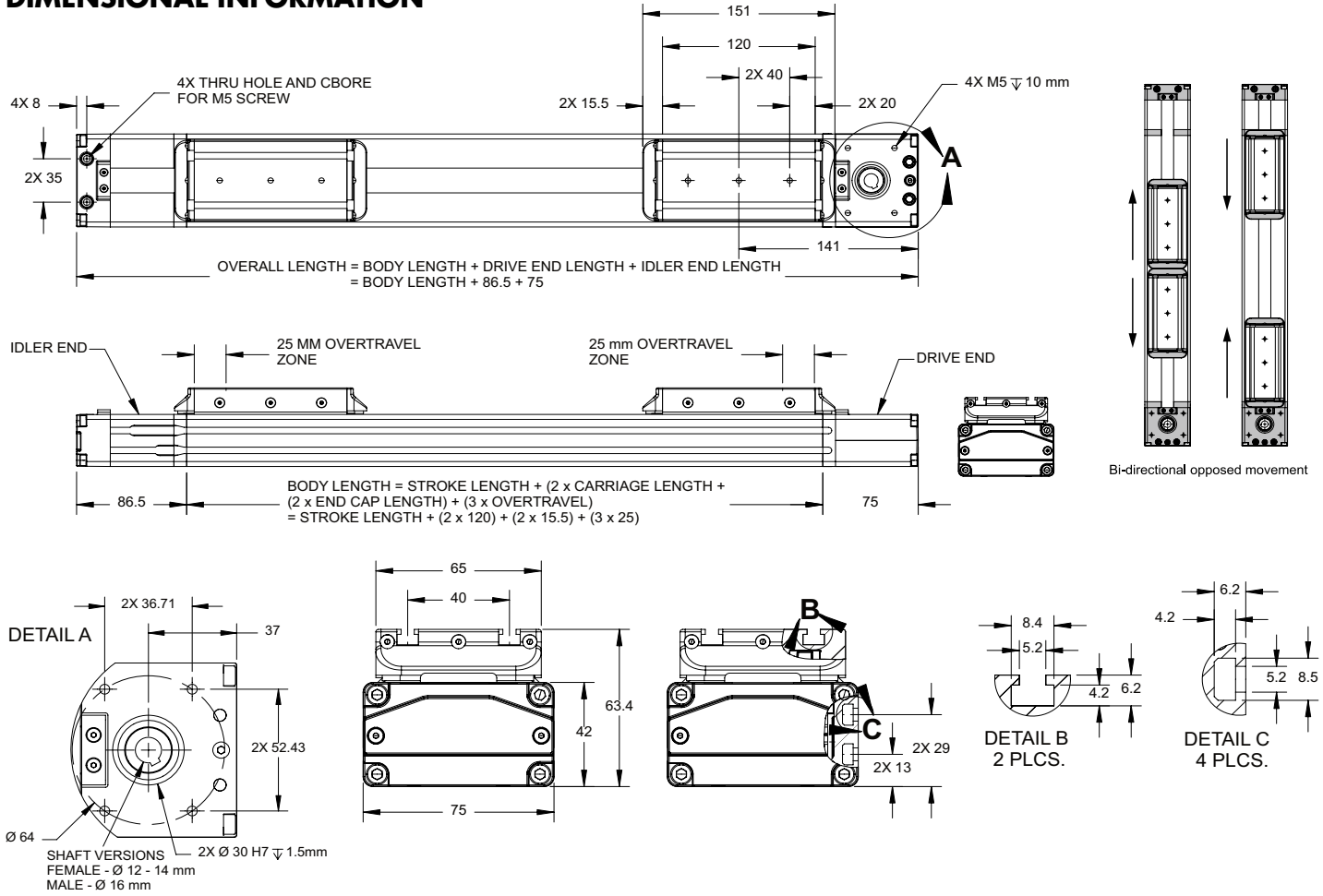
					
Size	mm	42 x 75	in	1.65 x 2.95	
Max. Speed	m/s	3	in/s	118	
Max. Stroke Length	mm	3000	in	118	
Min. Stroke Length	mm	100	in	3.94	
Pulley Drive Ratio	mm	130	in	5.12	
Number of Pulley Teeth	26				
Max RPM	2000				
Base Weight	Kg	3.7	lbf	8.14	
Add for 100 mm or 3.94 in of Stroke	Kg	0.50	lbf	1.10	
Max. Load	F_x	N	615	lbf	138
	F_y	N	1275	lbf	287
	F_z	N	1275	lbf	287
Max. Moments	M_x	Nm	18	lbf-in	159
	M_y	Nm	110	lbf-in	974
	M_z	Nm	110	lbf-in	974
Moment of Inertia	I_x	cm ⁴	28	in ⁴	0.67
	I_y	cm ⁴	37	in ⁴	0.89
Max. Radial Load on Input Shaft	N	250	lbf	56.2	
No Load Torque	Nm	1.4	lbf-in	12.4	



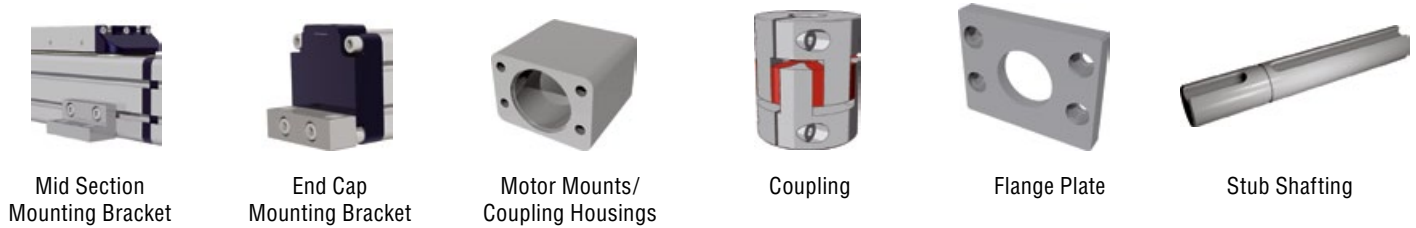
For combined loads, the combined loading cannot exceed the following formula.

$$\frac{F_{yA}}{F_y} + \frac{F_{zA}}{F_z} + \frac{M_{xA}}{M_x} + \frac{M_{yA}}{M_y} + \frac{M_{zA}}{M_z} \leq 1$$

DIMENSIONAL INFORMATION



ACCESSORIES (Available upon request.)



ORDERING INFORMATION

EXAMPLE: MTD42D-1000-12F22

MTD	042	D	- XXXX -	X	X	X	X
Series	Size (mm) (Base x Height)	System Type*	Body Length**	Shaft Diameter	Shaft Type	#Carriage**	Guidance Type
MTD Belt Driven Unit	42 mm x 42mm	N - Undriven D - Driven	6000 mm (max.) Must include 50mm over-travel	00 = No shaft (undriven system) 12 = 12mm 14 = 14mm 16 = 16mm	0 = No shaft (undriven system) F = Female hollow (12, 14) L = Left Male (16) R = Right Male (16) B = Both Male (16)	2 3 4	2 = Profile rail w/2 runner blocks per carriage Future Option C = CRT/VT - V-wheel roller G = GST - Gliding polymer

*No belt or motor mount, contact manufacturer for "N" version.

**Contact manufacturer for other options and availability.



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