MTC Series Linear Thrust Cylinders

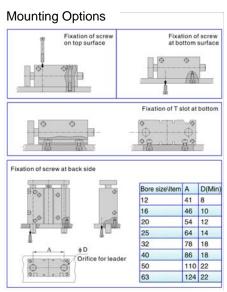
The MTC - Series Linear Thrust Cylinders, with a triple rod construction and heavy duty bronze or precise linear ball bearings, provide a range of products suitable for manufacturing processes. Available in eight bore sizes, the compact design can be easily installed. All cylinders have magnetic pistons as standard and may be used with a variety of position sensors.

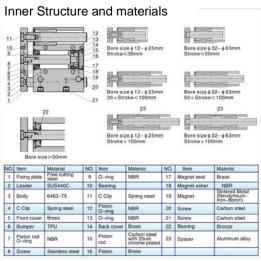
Installation and application

- 1. Cylinders should be selected to match the load requirements
- 2. Cylinders should be used within specification.
- Necessary protection measure shall be taken when used in environments with high humidity, dust, water and oil drips and welding slag.
- Tubing must be clean and free of loose particle before connecting to avoid ingress into the cylinder.
- 5. The medium used by cylinder shall be filtered to at least 40µM
- Do not apply side loads on the cylinder rods, during operation, to maintain the normal function and extend the service life.
- 7. Anti-freezing measures shall be adopted when used at low temperature to prevent moisture freezing.
- If the cylinder is dismantled and stored for a long time, take necessary precaution to avoid corrosion and dirt ingress.

Product Features

- 1. Conforming to JIS standards.
- 2. Linear ball bearing for low friction and high precision applications.
- 3. Bronze bearings for rigidity and side load conditions.
- 4. Easy to install with options of port positions.
- 5. Four extruded slots for position sensors.
- Multiple threaded holes to assist with installation and provide many mounting configurations.





Safe Load and Torque







Specification

Bore size (mm)		12 1	6 20	25	32	40	50	63	
Acting type		Double acting type							
Fluid		Air(to be filtered by 40um filter element)							
Operating pressure		0.1~1.0MPa(14~145Psi)							
Proof pressure		1.5MPa(213Psi)							
Temperature ℃		-20~70							
Speed range mm/s		30~500							
Stroke tolerance		+1.0							
Cushion type		Bumper							
Non-rotate tolerance ①	Linear bearing	± 0.08°	±	0.07°	± 0.00	6°	± 0.	05°	
	Bronze bearing	± 0.10°	±	0.09°	± 0.08	8°	± 0.	06°	
Port size	(2)	M5 × 0.8	1/8"		1/	4"			

1. Non-rotating tolerance is with the cylinder fully retracted.

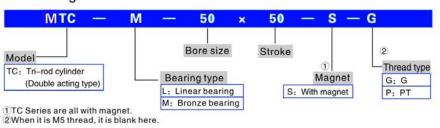
Note: All MTC products are equiped with a magnetic piston ring.

Stroke

Bore size (mm)	Standard stroke (mm)	Max. stroke	Available stroke	
12	10 20 25 30 40 50 60 70 75 80 90 100 125 150	150	200	
16	10 20 25 30 40 50 60 70 75 80 90 100 125 150 175 200	200	250	
20、25	20 25 30 40 50 60 70 75 80 90 100 125 150 175 200 225 250	250	300	
32~63	25 30 40 50 60 70 75 80 90 100 125 150 175 200 225 250	250	300	

Note: If non-standard stroke is ordered, backing plate will be added in the cylinder of standard stroke if the gap of the standard stroke and non-standard stroke is 1mm (ϕ 12- ϕ 32) or 5mm (ϕ 40- ϕ 63). For example, the non-standard stroke cylinder with a stroke of 28mm is transformed from the standard cylinder whose standard stroke is 30mm through adding a pad and their shape and dimension are the same.

Ordering code



AUG12/RW/A

Mead Engineering Services Ltd.

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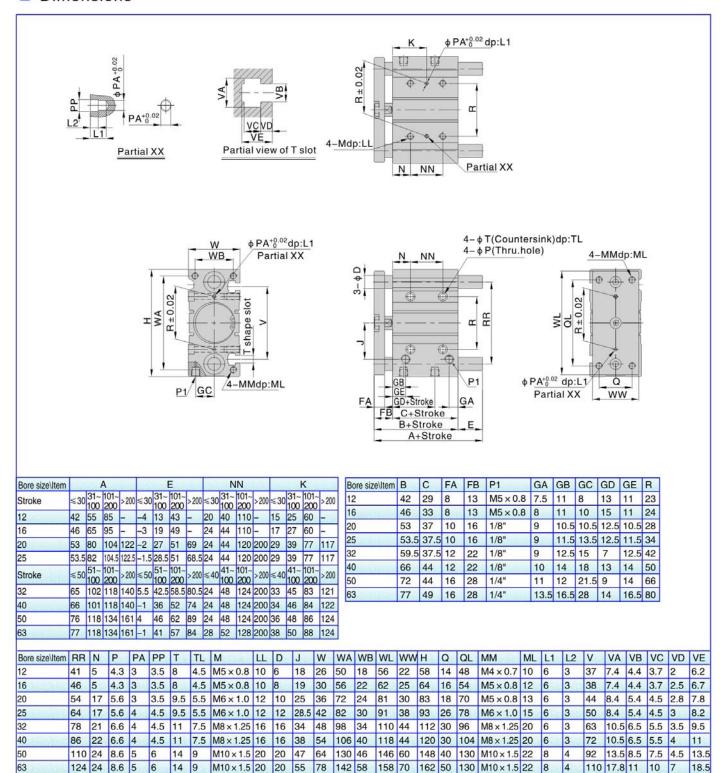
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Dimensions



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