

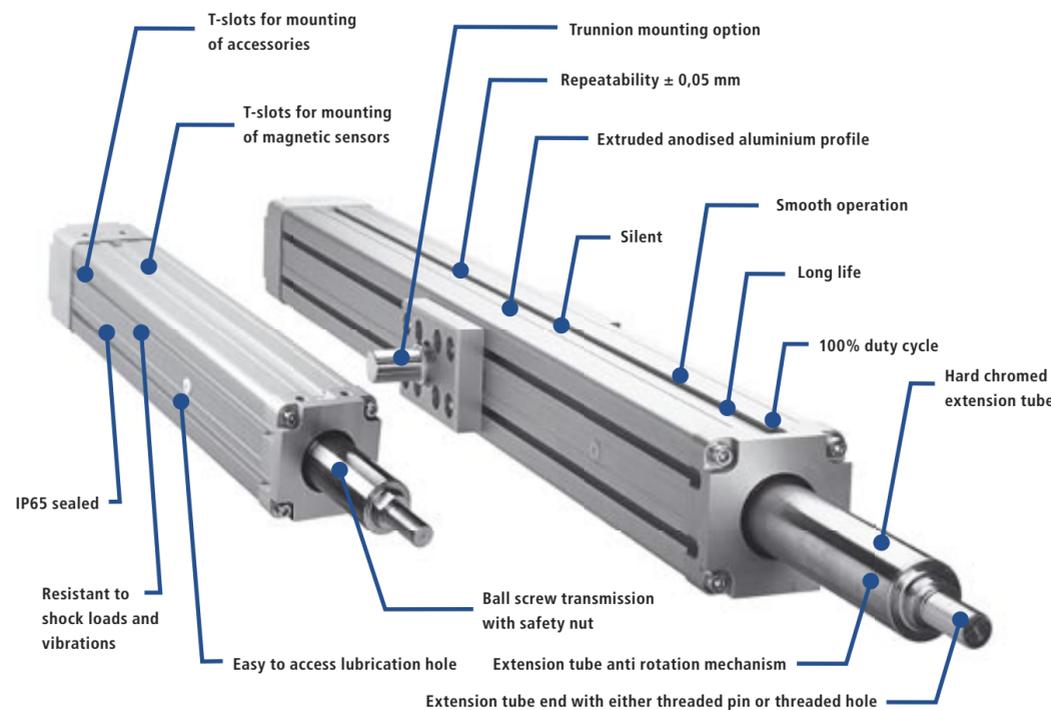
The Thomson Movotrak T90 and T130 range of precision actuators from Danaher Motion offer long life, simple installation and reliable function. The highly accurate Movotrak actuators can handle loads up to 40000 N, speeds up to 2 m/s and strokes up to 2 metres. This makes Movotrak actuators perfect for hydraulic cylinder replacement and all kind of industrial automation tasks.

Movotrak can be equipped with many types of gears and motors to match the actuator to the application. Belt gears, worm gears, planetary gears and AC or DC motors of all types all works equally well.

Movotrak is as standard mounted by using the mounting holes in the rear and front housing, but trunnion and clevis-to-clevis mounting kits are also available.

Typical applications for Movotrak includes:

- Welding, moulding and saw equipment
- Labelling, embossing and engraving machines
- Cutting, drilling and other types of machining
- Valve, hatch and materials flow control
- Loading, unloading and indexing applications.



New Name, Established Brands

Danaher Motion's wide range of motion control systems and components offer customers an unprecedented choice in selecting the right solution to match their particular application requirements. Our product innovations have been improving the efficiency and productivity of complex manufacturing operations for over 60 years through trusted brand names such as Dover, Kollmorgen, Pacific Scientific, Portescap and Thomson in industries as diverse as semiconductor, aerospace and defence, mobile-off-highway, packaging, medical and robotics.

In addition, Danaher Motion, through Motion Engineering (MEI), offers powerful integrated motion control solutions with its industry-leading, multi-axis motion platforms and SynqNet™ communications network for ultra-reliable machine performance. From software and controller, through the communications network to drives and I/O devices, to mechanical and electro-mechanical products, Danaher Motion differentiates itself in the marketplace by designing standard and custom solutions to satisfy the most demanding application requirements.

Our growing family of leading motion control products and application expertise tells only half the story. With a worldwide service and support infrastructure, our field service engineers and support teams are available to assist whenever they are needed. It is part of Danaher Corporation's unrelenting focus on its customer. That's why more and more design engineers are turning to Danaher Motion to meet their motion control requirements.

Danaher Motion Values

- Application Expertise
- Broad & Innovative Motion Control Products and Systems
- Customer Focus
- Customisable Products and Services
- Motion Control Pioneers with Global Staying Power
- Operational Excellence



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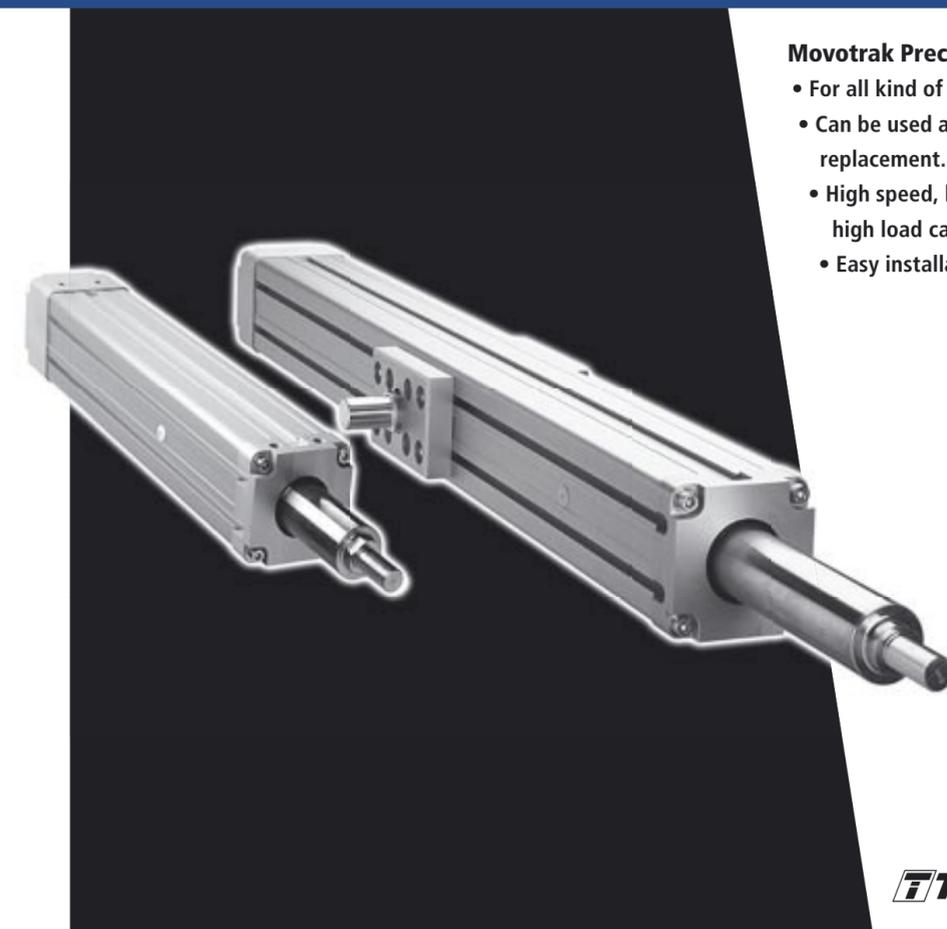
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MOVOTRAK PRECISION ACTUATORS AUG 2004

www.DanaherMotion.com



Movotrak Precision Actuators

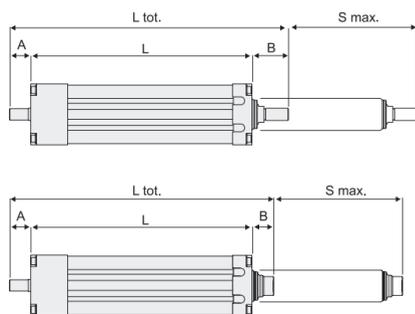
- For all kind of automation tasks.
- Can be used as hydraulic cylinder replacement.
- High speed, high accuracy and high load capacity.
- Easy installation.



Technical data

Designation	T90					T130		
	T09-B2505M***	T09-B2510M***	T09-B2525M***	T09-B3220M***	T09-B3232M***	T13-B4010M***	T13-B4020M***	T13-B4040M***
Max. stroke [m]	1,5	1,5	1,5	1,5	1,5	2	2	2
Max. speed [m/s]	0,3	0,8	2	1,25	2	0,4	1	2
Max. input speed [rpm]	4000	4800	4800	3750	3750	2500	3000	3000
Temperature range [°C]	-20 – +70	-20 – +70	-20 – +70	-20 – +70	-20 – +70	-20 – +70	-20 – +70	-20 – +70
Weight (L in m) [kg]	5 + (16,2 × L)	5 + (16,2 × L)	5 + (16,2 × L)	6,5 + (18 × L)	6,5 + (18 × L)	18,5 + (30 × (L - 0,293))	18,5 + (30 × (L - 0,293))	18,5 + (30 × (L - 0,293))
Max. dynamic load Fx [N]	10000	10000	10000	20000	20000	40000	35000	15000
Max. static load Fx [N]	15000	15000	15000	25000	25000	45000	45000	45000
Max. load Fr [N]	300	300	300	500	500	800	800	800
Max. torque Ma [Nm]	150	150	150	150	150	300	300	300
Max. torque Mta [Nm]	48	48	48	93	93	140	140	140
Max. force Frd [N]	1000	1000	1000	1300	1300	3000	3000	3000
Screw diameter [mm]	25	25	25	32	32	40	40	40
Screw lead [mm/rev.]	5	10	25	20	32	10	20	40
Repeatability [± mm]	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05
Resolution [mm]	0,1	0,1	0,1	0,1	0,1	0,1	0,1	0,1

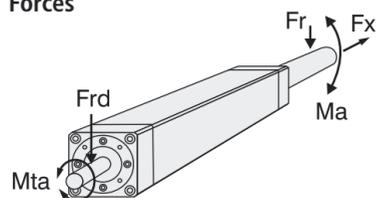
Ordering length in millimetres



Designation	A	B	Total length	Length to order
T09-B2505(10/25)***MN***	37	47	L tot. = L + 279	L = S max. + 195
T09-B2505(10/25)***MP***	37	15	L tot. = L + 247	L = S max. + 195
T09-B3220(32)***MQ***	45	52	L tot. = L + 327	L = S max. + 230
T09-B3220(32)***MR***	45	12	L tot. = L + 287	L = S max. + 230
T13-B***MS(U)***	47	81	L tot. = L + 421	L = S max. + 293
T13-B***MT(V/X)***	47	47	L tot. = L + 387	L = S max. + 293

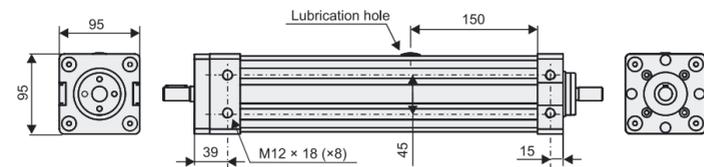
Note! S max. is the stroke hard stop to hard stop. Never drive the unit in to the ends.

Forces

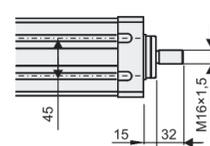


Dimensions

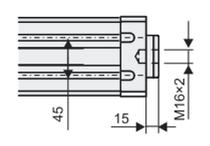
T09-B25



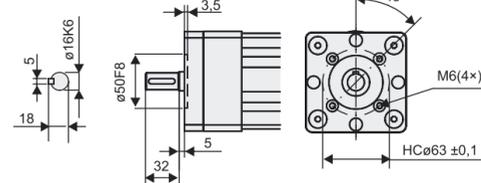
T09-B25**MN***



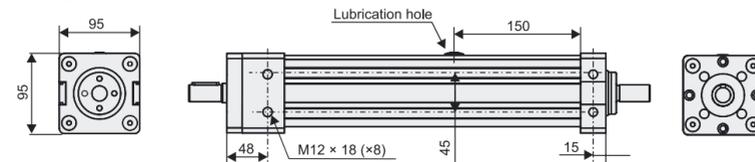
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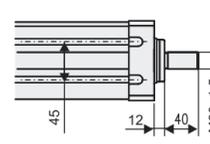
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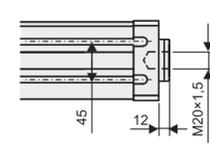
T09-B32



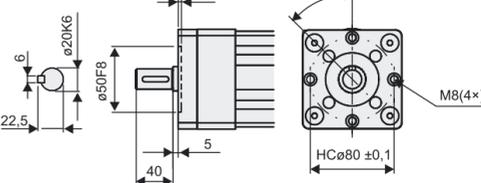
T09-B32**MQ***



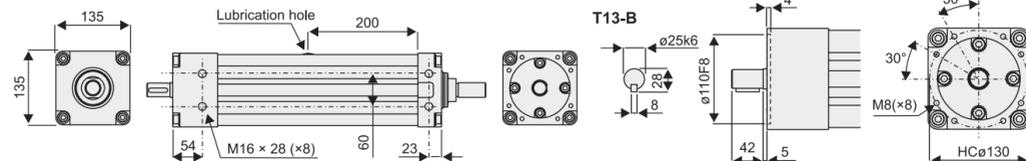
T09-B32**MR***



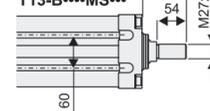
T09-B32



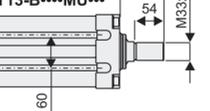
T13-B



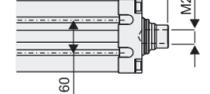
T13-B***MS***



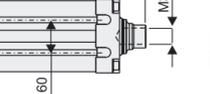
T13-B***MU***



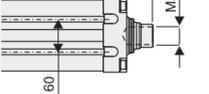
T13-B***MT***



T13-B***MX***



T13-B***MV***



Ordering key

