

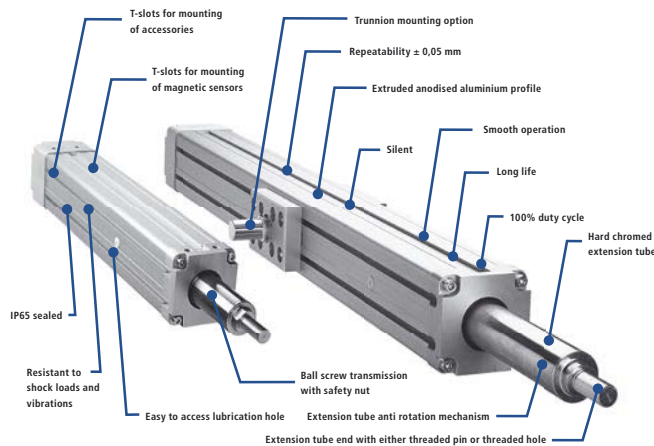
The Thomson Movotrak T90 and T130 range of precision actuators from Danaher Motion offer long life, simple installation and reliable function. The highly accurate Movotrak actuators can handle loads up to 40000 N, speeds up to 2 m/s and strokes up to 2 metres. This makes Movotrak actuators perfect for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



Web site www.DanaherMotion.com

MOVOTRAK PRECISION ACTUATORS AUG 2004

www.DanaherMotion.com

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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FOR IMMEDIATE ASSISTANCE:

Internet: www.LinearActuators.com
 Catalogue request: catalogues@danahermotion.com

France: Danaher Motion
 C.P. 80018
 12, Rue Antoine Becquerel - Z.I. Sud
 Bâtiment Paul Tiger 2
 F-72026 Le Mans Cedex 2
 Tel. +33 (0)243 50 03 30
 Fax. +33 (0)243 50 03 39
 E-mail sales.france@tollo.com

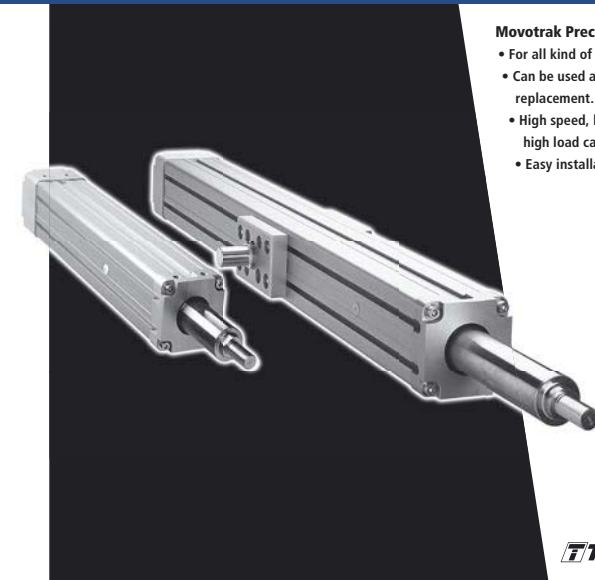
Spain: Danaher Motion
 Tollo Linear Spain
 Badal, 29-31 7th, 1st
 08014 Barcelona
 Tel. +34 (0) 9329 80278
 Fax. +34 (0) 9329 80278
 E-mail helpdesk@tollo.com

UK: Danaher Motion
 Fishleigh Road
 Roundswell Business Park
 Barnstaple, Devon
 EX31 3UD
 Tel. +44 (0) 1271 334500
 Fax. +44 (0) 1271 334502
 E-mail LMSEurope@danahermotion.com

Germany: Danaher Motion GmbH
 Postfach 1153
 D-72645 Wolfschlügen
 Tel. +49 (0)180 5 24 67 90
 Fax. +49 (0)180 5 24 40 85
 E-mail helpdesk@tollo.com

Sweden: Danaher Motion
 Tollo Linear AB
 Box 9053
 SE-291 09 Kristianstad
 Tel. +46 (0)44 24 67 00
 Fax. +46 (0)44 24 40 85
 E-mail helpdesk@tollo.com

U.S.A.: Danaher Motion
 283A West Rock Road
 Radford, VA 24141 USA
 Tel. +1-540-633-3400
 Fax. +1-540-639-4162
 E-mail DMAC@DanaherMotion.com



Movotrak Precision Actuators

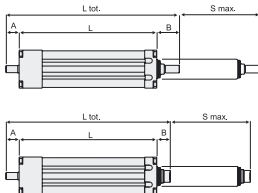
- For all kind of automation tasks.
- Can be used as hydraulic cylinder replacement.
- High speed, high accuracy and high load capacity.
- Easy installation.



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 [µm] | 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 |

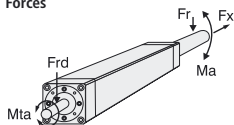
Ordering length in millimetres



| 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 |

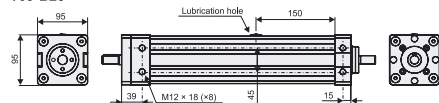
Note! S max. is the stroke hard stop to hard stop. Never drive the unit in to the ends.

Forces

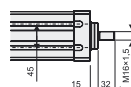


Dimensions

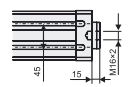
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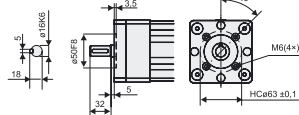
T09-B25••MN•••



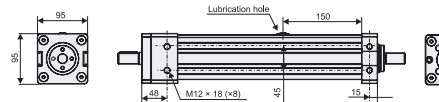
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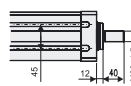
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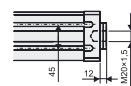
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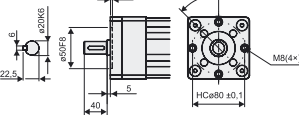
T09-B32••MQ•••



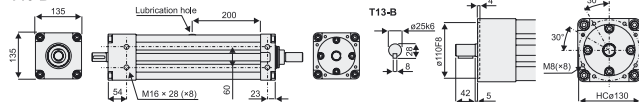
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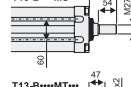
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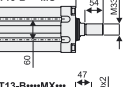
T13-B



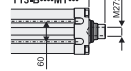
T13-B•••MS•••



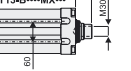
T13-B•••MU•••



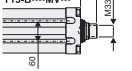
T13-B•••MT•••



T13-B•••MX•••



T13-B•••MV•••



Ordering key

