



telescopic drives TELEMAG 24 V DC

TLG.A / B / C ..

Technical data :	Type	TLG1.-A	TLG1.-B	TLG1.-C
Push force max.	N	4000	2500	1500
Speed	mm/s	10	13	25
Stroke	mm	200-700	200-700	200-700
Retracted height 2-section	mm	380-880	380-880	380-880
Retracted height 3-section	mm	380-880	380-880	380-880
Voltage	VDC	24	24	24
Current consumption	A	6,5	6,5	6,5
Duty cycle: intermittent operation	Int.	1 min./9 min.	1 min./9 min.	1 min./9 min.
Duty cycle: short time operation	KB	2,5 min.	2,5 min.	2,5 min.
Ambient temperature	°C	+10/+40	+10/+40	+10/+40
Degree of protection		IP30	IP30	IP30
Weight	kg	15-30	15-30	15-30
Design of telescopic column		2- or 3-section acc. to type key	2- or 3-section acc. to type key	2- or 3-section acc. to type key

Description

The TELEMAG telescopes consist of two or three square aluminium sections inserted in one another which are telescoped and retracted by an integrated linear drive.

The outer surface of the special aluminium sections is dull anodized. The slide ways which are free of play ensure low-friction retraction and telescoping even with eccentric loading. A special direct current motor with worm gearing, the rotational movement of which is transformed into a linear movement by a lead screw / nut System, is used as drive. The linear drive is self-locking in every position and is designed for intermittent operation. The drive moves into the end positions against stops and does not have limit switches. The mains supply and control are made through the KOM or MCU control unit and control elements separately developed for this. The drives are protected by the control unit against overload by an current cut-off circuit.

If the drive is not operated with a KOM or MCU control unit but with an external control unit or batteries, then the TELEMAG must be equipped with an integrated or external current cut-off board, since otherwise the drive could be damaged.

In operation with overload or on exceeding the specified duty cycle, the drive can be destroyed because of overheating.

The TELEMAG telescopes are available in two versions: 2-section telescope and 3-section telescope: higher eccentric loading.

The TELEMAG telescopes are designed for push operation.

Electrical connection

The electrical connection is made simply with the jack plug on the KOM control unit or on the MCU mobile control unit. Since the telescopic drives have no limit switches, the maximum permissible current is monitored by the control unit and is switched off if necessary. Thus an overload is not possible when a KOM or MCU control unit is used.

Furthermore, it is possible to operate up to two TELEMAG telescopic drives independently of one another with one control unit. An in-step control must be used for parallel running applications, special TELEMAG with pulse encoders are available for this.

Electrical connection or supply cables must be run and fastened so that damage due to crushing, bending or tension is not possible. A long supply cable must have a sufficiently large cross-section to prevent a possible voltage drop.

Control

A large number of modern elegant handheld or foot switches, which have been developed especially for the TELEMAG, are available for controlling the TELEMAG direct current drives, please refer to 530E, 2940.

Installation

The TELEMAG drive is fastened to the structural elements to be moved at the top and bottom of the telescopic column by means of 4 M10 bolts each (strength class 10.9), tightening torque 40 Nm. The thread reach is at least 30 mm.

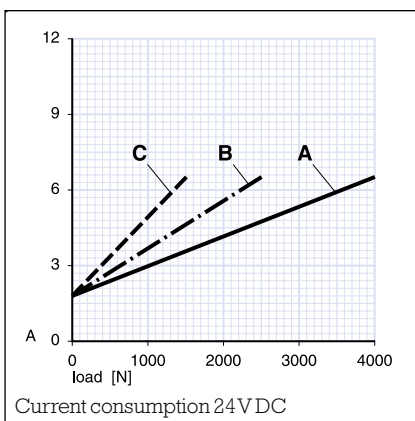
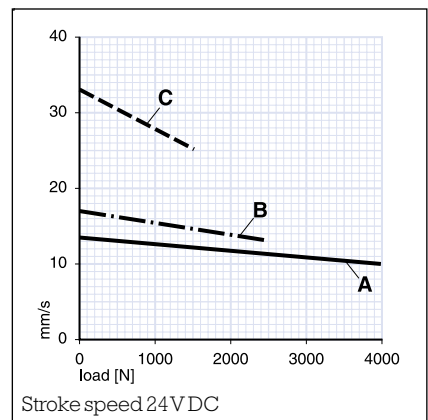
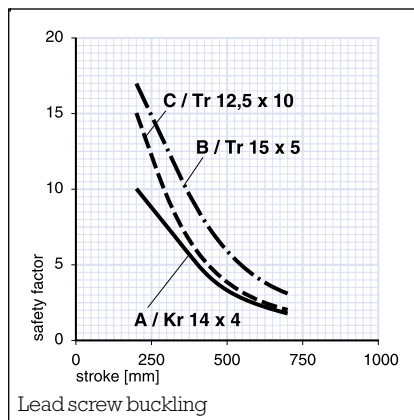
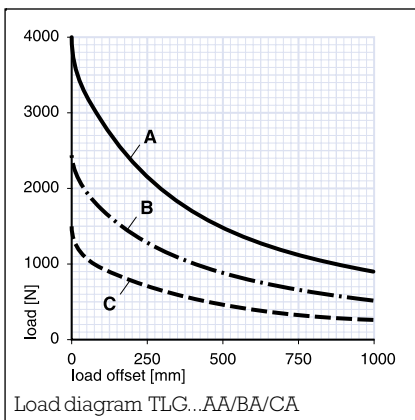
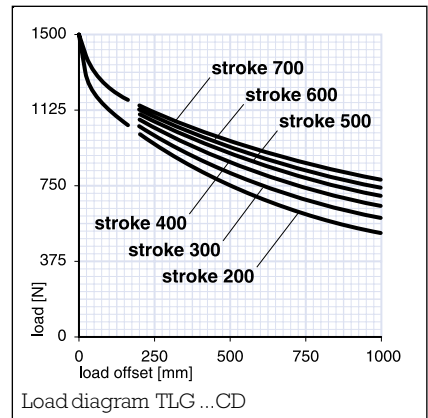
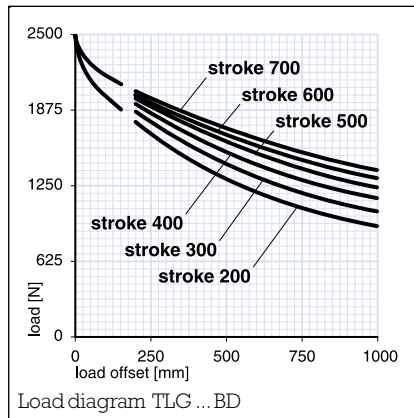
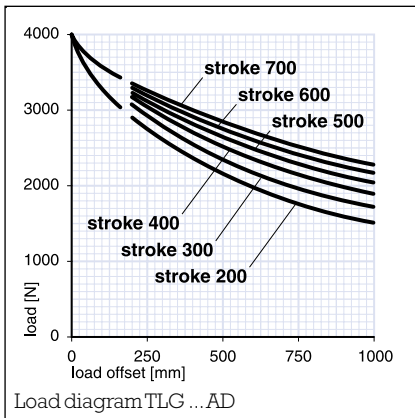
The telescopic column can be installed either directly or with 15 mm thick aluminium mounting plates available as accessories.

The technical notes must be observed on commissioning.

Applications which do not exclude danger to persons must be provided with guards by the user.

Note:

- if no mounting plates are used, the auxiliary plates on the bottom of the TELEMAG must be supported accordingly. (Minimum plate thickness 15 mm)
- If you want to use your own mounting plates, drill these according to the dimension diagram. (Minimum plate thickness 15 mm)
- Both auxiliary plates are bolted on and must not be removed.
- In the case of eccentric loading, you must observe the stroke - force diagram or consult the factory.
- There is a risk of injury by crushing between the mounting plate and tube end in the retracted end position.



Maintenance

The sliding surfaces of the telescopic tubes can be lubricated with BP Energol GR-XP 220 (150) special lubricant. Defective drives may be repaired only in our factory.

Accessories

Pulse encoder (Hall sensor), potentiometer, special stroke settings, mounting plates etc. are available on request, refer to the type key.

