

Sliding guide shoes

Operating instructions

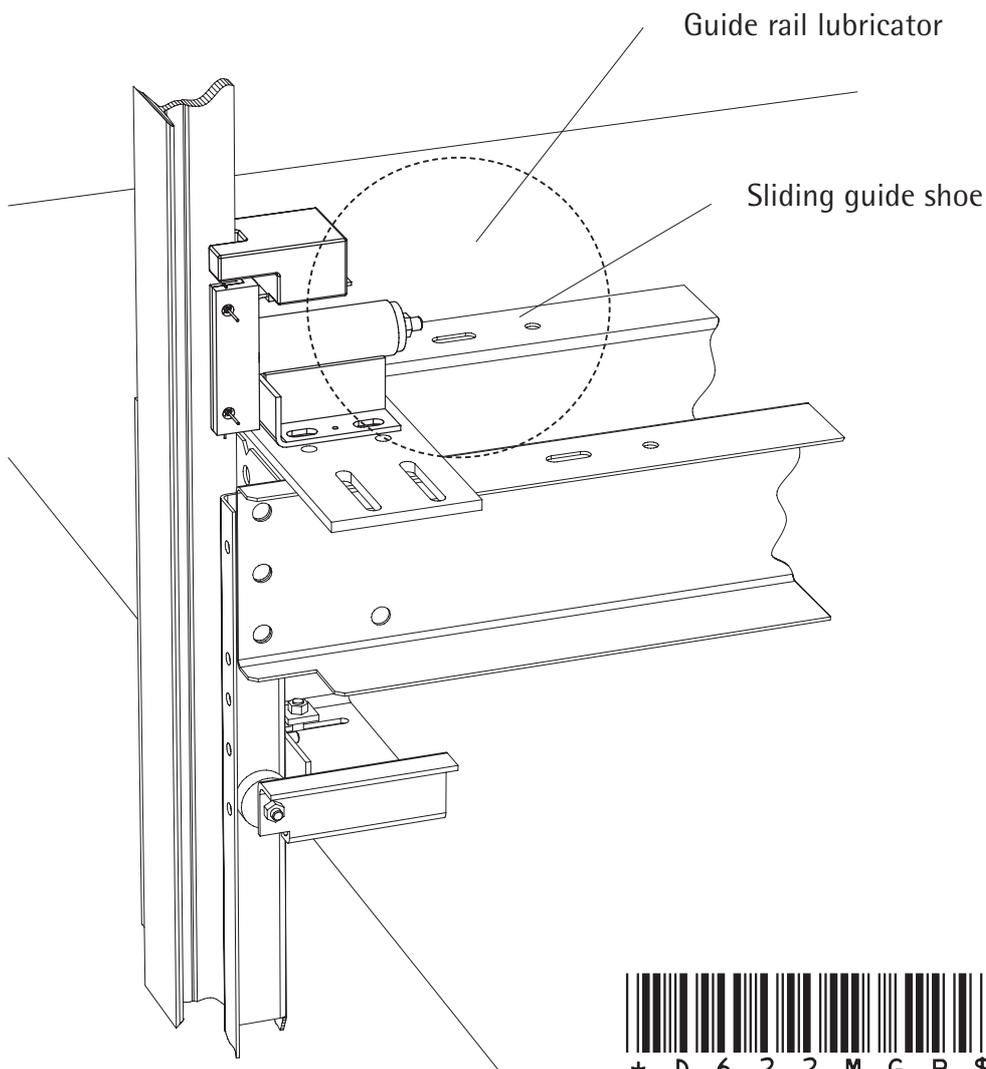


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Sliding guide shoes for car frame and counterweight

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D622MGB



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Blatt/sheet D622MGB.001
Datum/date 24.01.2002
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Operating instructions

Contents	Page
1 General information	
1.1 Description	D622MGB.002
1.2 Liability and guarantee	D622MGB.002
1.3 Safety precautions	D622MGB.003
1.4 Preparation	D622MGB.003
1.5 Content of delivery	D622MGB.003
2 Installation	
2.1 General	D622MGB.004
2.2 Installation to car frame or counterweight	D622MGB.005
2.2.1 Adjustment of sliding guide Type A	D622MGB.005
2.2.2 Adjustment of sliding guide Type B	D622MGB.006
3 Function testing	D622MGB.007
3.1 Function testing of sliding guide shoes	D622MGB.007
4 Maintenance, inspection and repair	
4.1 Maintenance and inspection	D622MGB.008
4.2 Carrying out repairs	D622MGB.009
4.2.1 Changing of sliding inlays	D622MGB.009
4.3 Spare parts	D622MGB.010
5 Revision table	

Operating instructions

1 General information

1.1 Description

The WITTUR sliding guide shoes are suited for use at car frames and counterweights. A big variety of different sliding guide shoe types is available (see technical catalogue D600CDEGB).

For fixing to the car frame or counterweight see corresponding operating instructions.



All sliding guide shoes have to be used lubricated on principle. Guide rail lubricators are included in the content of delivery of car frame or counterweight. The used oil must not affect the function of the safety gear!

1.2 Liability and guarantee

This instruction handbook is written for people who are familiar with lift servicing and installation. Sufficient knowledge of lifts is essential.

WITTUR accepts no responsibility for damage caused by improper handling, or for damage caused as a result of actions other than those stated in these operating instructions.

The WITTUR guarantee may be voided if parts other than those described in these instructions are installed.

Unless stated otherwise, the following are not permissible due to technical safety reasons:

- use other means of fixation than prescribed
- install the sliding guide shoes in another way than described in this operating manual
- Carrying out modifications, of any kind

further

- Carrying out faulty or improper maintenance, maintenance or inspection checks
- using unsuitable accessories, spare parts or operating material which has neither been released by the WITTUR Company nor consists of original WITTUR spare parts

Operating instructions

1.3 Safety precautions

WITTUR machine installation or repair engineers are chiefly responsible for the safe operation of machinery.

It is essential to comply with and keep abreast of all safety rules and legal obligations in order to avoid personal / product damage during installation, maintenance and repair work.

Important safety advice and danger warnings are emphasized with the following symbols:



General danger warning



High danger risk warning (i.e. crushing edge, cutting edge etc.).



Risk of damage to machinery parts (i.e. due to incorrect installation, or such like).



Important information sign

These operating instructions belong with the whole installation and must be kept in a safe place at all times (i.e. drive room).

The proper assembly and installation of WITTUR braking systems requires correspondingly well trained fitting engineers. The responsibility of training lies with the company appointed to carry out the work.

1.4 Preparation

Before beginning installation work it is in your own interest to ascertain the constructional and spatial conditions. Where (workshop or on site) and when which installation operations can or must be carried out. It is recommended therefore, taking into account all the given circumstances, to plan the various operational sequences in advance, rather than carrying them out prematurely and in an unconsidered manner.

Note the safety regulations for working on elevators.

1.5 Content of delivery



On receipt of the delivery, the goods or components should be checked for correctness and completeness with the order sheet.

Especially compare article number, quantity and type specification with the ordering data.

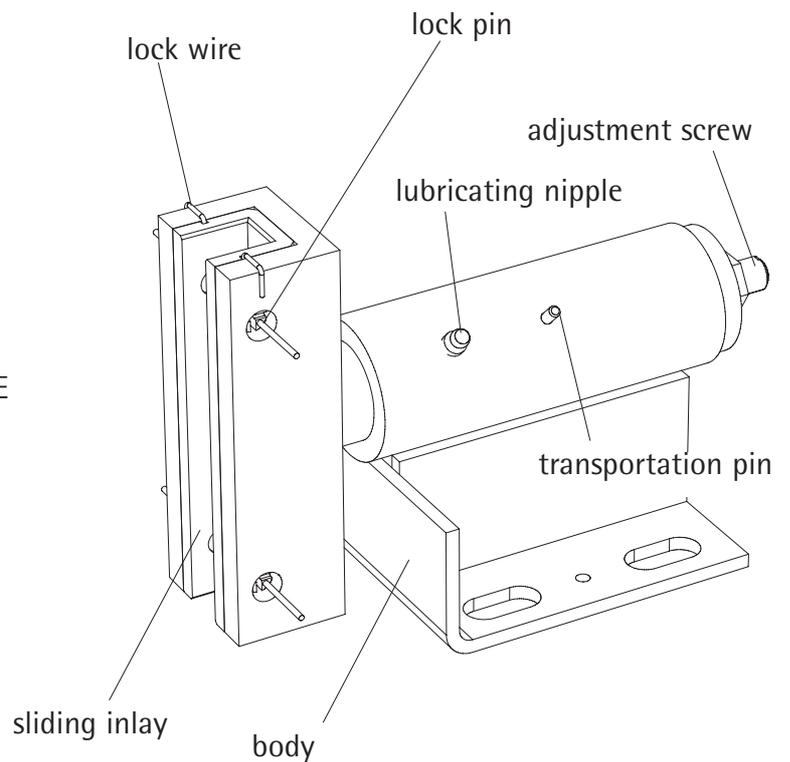
Operating instructions

2 Installation

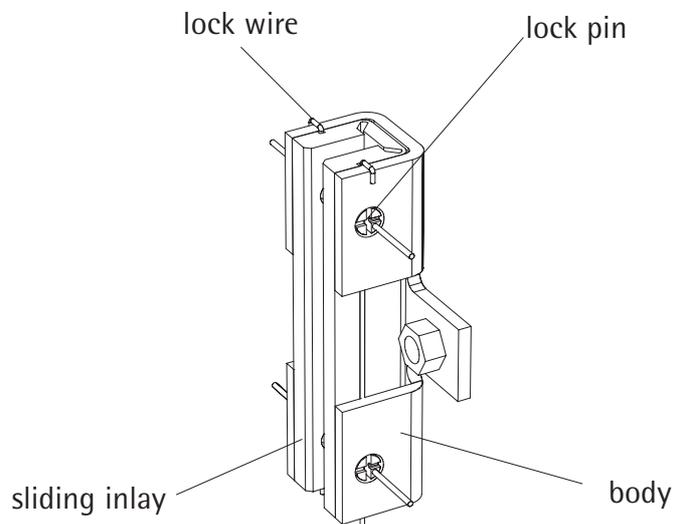
2.1 General

A big variety of different WITTUR sliding guide shoe types is available (see technical catalogue D600CDEGB).

Type A ... isolated (spring loaded) guides:
 SLG1, SLG1N, SLG1A, SLG1S, SLG1SE
 SLG2, SLG2N, SLG2A
 SLG3, SLG3N, SLG3A
 SLG4, SLG4A



Type B ... rigid guides:
 SLG6, SLG6N, SLG6A
 SLG7, SLG7E
 SLG11, SLG11A, SLG11E
 SLG11H, SLG11HA, SLG11HE



Operating instructions

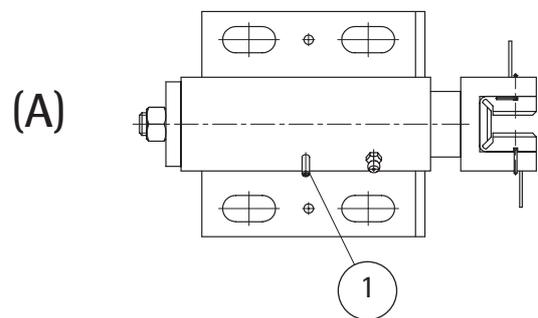
2.2 Installation to car frame or counterweight

The installation of sliding guide shoes is carried out in the course of the installation of the car frame or counterweight.

 The guide shoes have to be aligned parallel with the guide rail (deviation 0,5mm).

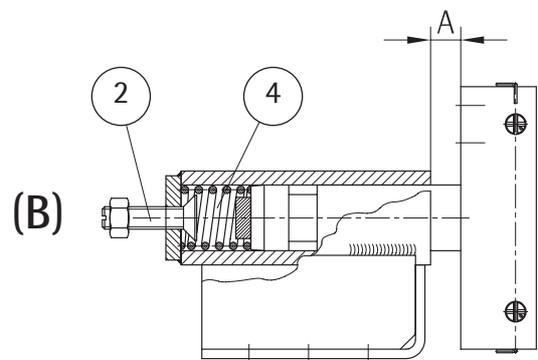
2.2.1 Adjusting of sliding guides Type A

(A) Remove the transportation pin (1), which prevents the guide piece from falling during transportation and storage



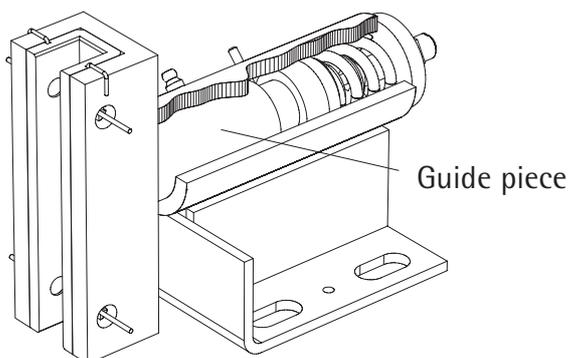
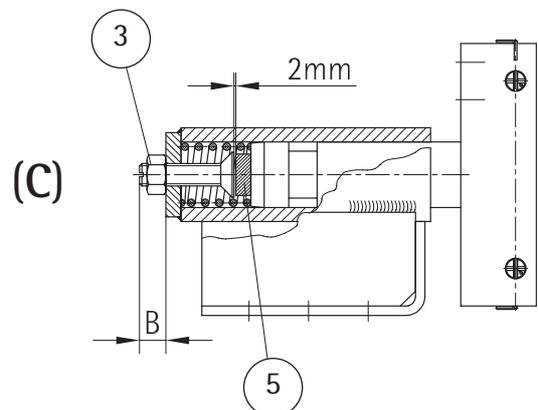
(B) Open the gap adjusting screw (2) fully. The spring (4) should get compressed 3...4mm in order to guarantee a good running clearance

 The easiest way to check the compression is to measure the gap "A" before and after pushing the guide shoe to the guide rail.



(C) Now turn the adjustment screw (2) until it blocks at the rubber puffer (5) and then return it for 2mm. Secure it with a lock-nut (3). Therefore the distance "B" should be measured

 The clearance in the direction of the DBG is limited to 2mm by the adjusting screw. Otherwise there could be problems with the safety gear function!



Operating instructions

2.2.2 Adjustment of sliding guides Type B

Adjusting is done in general according to the corresponding operating instruction of car frame or counterweight.

Since the sliding guide shoes Type B are stiff guides, adjusting can only be carried out by adding of shims.

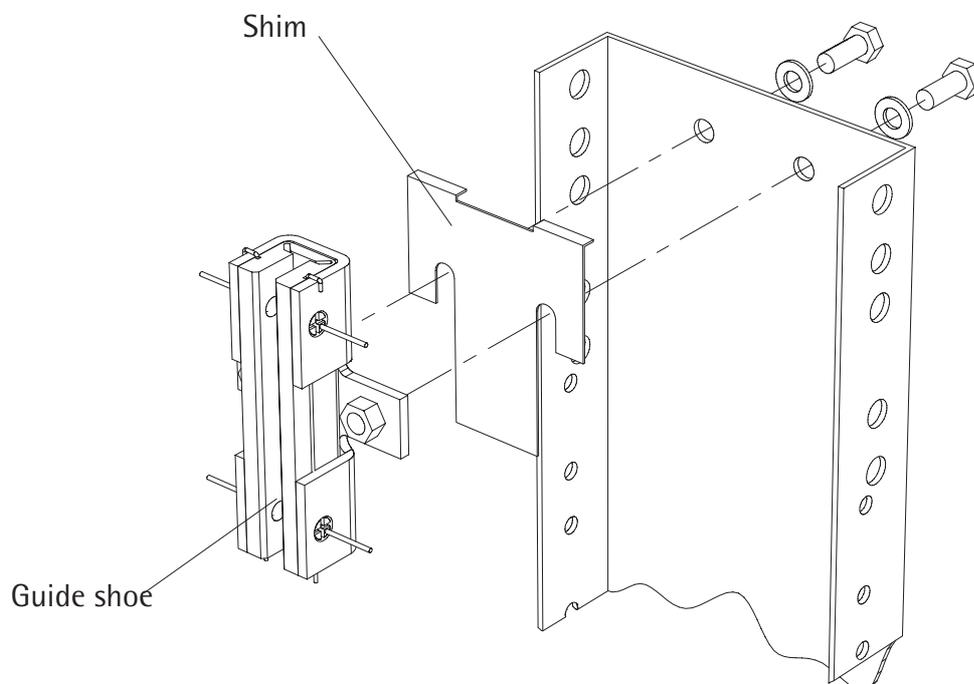
Adjusting in other directions is done by means of long-holes.

 The clearance in the direction of the DBG should be 1-2mm. Otherwise there could be problems with the safety gear function!

Installation steps:

- (A) Stick the guide shoe on the rail and the corresponding fixing place
- (B) Adjust car frame or counterweight in the centre between the guide rails
- (C) Add shims if necessary (shims are delivered in different strengths)
- (D) Tighten guide shoes

 The guide shoes have to be aligned parallel with the guide rail (deviation 0,5mm).



Operating instructions

3 Function testing

Provided that the system has been properly installed in accordance with all guidelines, it can be assumed the proper functioning of the sliding guide shoes is guaranteed.

The individual components are strictly checked for quality and function and are tested before leaving our factory.

 Check that the guide shoes are tightly screwed to the car frame or counterweight before starting the function test.

Test run after installation

 Prior to first test run
Clean the guide rails!

 Clear all people and objects from the lift shaft before commencing the test run
Risk of crushing injuries!

The entire lift travel path should be slowly travelled (in inspection mode) before the functions tests. Attention should be paid to the clearance of all fastened parts, especially with regards to the guide brackets/safety gear devices. Find and remove any protruding bolts or other dangerous restrictions well in advance.

3.1 Function testing of sliding guide shoes

For the function testing the car frame is driven in inspection mode.

 The guide shoes must not stick and should easily move.

 All sliding guide shoes have to be used lubricated on principle. The used oil must not affect the function of the safety gear!

Guide shoe type A:

Drive the lift at service drive speed and sway the car at the guide fixings and between them. Make sure that the clearance between the guide rails and the guide shoe is at least $\pm 2\text{mm}$ at every point in DBG-direction.

 All running clearances of the lift must be as big as possible so that the spring effect works in the planned manner. Maximum movement allowance must be provided at upper and lower guide shoes.

Guide shoe type B:

Make sure that the clearance between the guide rails and the guide shoe is at least $\pm 2\text{mm}$ at every point in DBG-direction.

4 Maintenance, inspection and repair

4.1 Maintenance and inspection

Inspection checks must be carried out at regular intervals (minimum once a year with each service) to guarantee safe operation.

Alterations, damage or other irregularities should be reported, and repaired if possible. Frequent servicing and control checks not only make operation of the installation safer, but also ensure long and reliable service life.

It is recommended that control checks and servicing be carried out before legally prescribed functional tests (e.g. before TÜV tests).



The lift installation must be immediately taken out of use should any damage or irregularities to the lift car frame arise which could possibly impair operational safety.



Please contact us at WITTUR if you have any problems or queries.



Maintenance work should be expertly carried out with utmost care in order to guarantee safe installation operation.

Maintenance and inspection plan

General:

- Visual control of general condition for irregularity (e.g. contamination, corrosion, deformation, splitting)
- Check of screw connections of guide shoes and guide rail lubricator
- A gap of between 1 - 2mm must be maintained between guide rail and guide shoe. Gaps of up to 3mm can be readjusted to the above allowance, but if a gap is excess of 3mm is found, then the sliding inlay must be replaced (see chapter "Carrying out repairs")
- At sliding guide shoes type A the guide of the sliding jaw must be lubricated at least once a year (lubricating nipple).
- Check the guide rail lubricator function and the oil level. If necessary adjust the lubricator (cup position, felt stripe adjustment) or refill oil.

Reasons for insufficient function of sliding guide:

- Unevenness of guide rails
- Dirty guide rails
- Bad lubrication or usage of wrong oil at lubricator

4.2 Carrying out repairs



Damaged parts of the guide shoe cannot be repaired. The damaged parts must be replaced. Only use WITTUR spare parts.



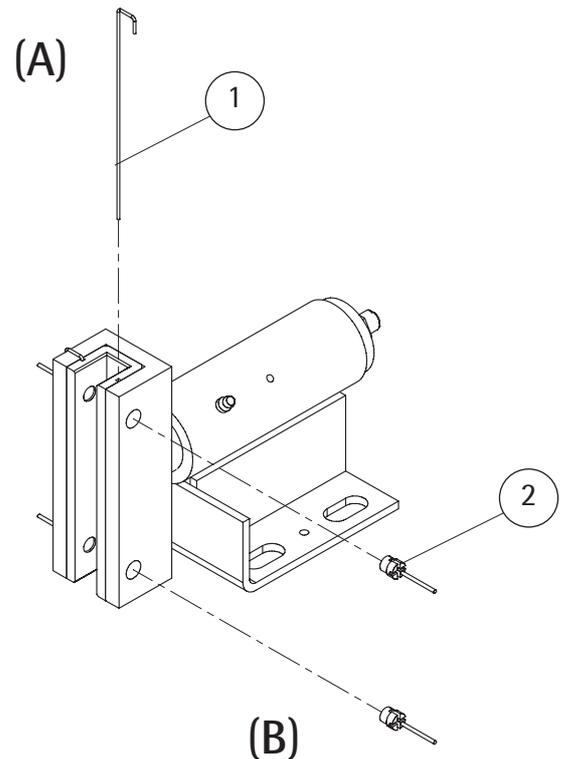
Repairs should be expertly carried out with utmost care in order to guarantee safe installation operation.



Follow all the local safety instructions during the maintenance work.



Please contact WITTUR if for any reason something is unclear, or you encounter damage that cannot be repaired with the help of these instructions.



4.2.1 Changing of sliding inlays

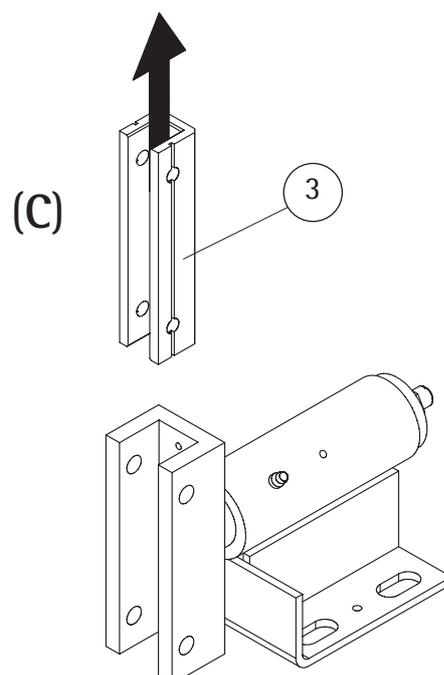
The sliding inlays can be changed without dismantle the guide shoe body.

(A) Open the lock wire (1) and pull it out

(B) Remove the lock pins (2)

(C) Pull out the sliding inlays (3) along the guide rails

(D) The installation of sliding inlays is done in reverse order





Sliding guide shoes

Blatt/sheet D622MGB.010
 Datum/date 24.01.2002
 Stand/version E-10.10.2013
 Geprüft/approved WAT/MZE

Operating instructions

4.3 Spare parts

spare part	Art. No.	guide rail [k]	used in...	quantity/article	
sliding inlay	652437	G05	5 mm	SLG0, SLG7	1 piece
		G06	6 mm	SLG0	1 piece
		G09	9 mm	SLG0, SLG7	1 piece
	85119	G08	8 mm	SLG1, SLG2, SLG6, SLG11	1 piece
		G09	9 mm	SLG1, SLG1A, SLG1S, SLG2, SLG2L, SLG6, SLG6A, SLG11, SLG11A	1 piece
		G09N*)	9 mm	SLG1N, SLG2N, SLG6N	1 piece
		G10	10 mm	SLG1, SLG1A, SLG2, SLG2A, SLG6,, SLG11, SLG11A	1 piece
		G12	12 mm	SLG1, SLG1A, SLG2, SLG2A, SLG2L, SLG6, SLG11, SLG11A	1 piece
		G14	14 mm	SLG1, SLG1A, SLG2, SLG2A, SLG2L, SLG11, SLG11A	1 piece
		G15	15 mm	SLG1, SLG1A, SLG2, SLG2A, SLG11, SLG11A	1 piece
		G16	16 mm	SLG1, SLG1A, SLG1S, SLG2, SLG2A, SLG2-H, SLG2L, SLG6, SLG6A, SLG8A, SLG11, SLG11A	1 piece
		G16N*)	16 mm	SLG1N, SLG2N	1 piece
		G16H	16 mm	SLG2H, SLG3, SLG3A, SLG8H, SLG11H, SLG11HA	2 pieces
		G16HN*)	16 mm	SLG2HN, SLG3N	2 pieces
		G19	19 mm	SLG1S, SLG2, SLG2A, SLG9, SLG11, SLG11A	1 piece
		G19H	19 mm	SLG3, SLG3A, SLG4, SLG4A, SLG8H, SLG11H, SLG11HA	2 pieces
	903712	H09*)	9 mm	SLG1SE, SLG11E	1 piece
		H16*)	16 mm	SLG1SE, SLG11E, SLG11HE	1 piece
	433373	G29	29 mm	SLG2H, SLG3A, SLG4A	2 pieces
	433374	G32	32 mm	SLG2H, SLG3A, SLG4A	2 pieces
	88711	H08	8 mm	SLG5	1 piece
		H09	9 mm	SLG5	1 piece
		H12	12 mm	SLG5	1 piece
		H15	15 mm	SLG5	1 piece
		H16	16 mm	SLG5	1 piece
	600641	H16	16 mm	SLG7	1 piece
904425	H09*)	9 mm	SLG7E	1 piece	
	H16*)	16 mm	SLG7E	1 piece	
guide rail lubricator	605596	G99	5-19mm	top fixing (9mm preadjusted)	2 pieces
		G99U	5-19mm	bottom fixing (9mm preadjusted)	2 pieces

*) for dry guide rails (lubrication 1x per year)

Sliding guide shoes

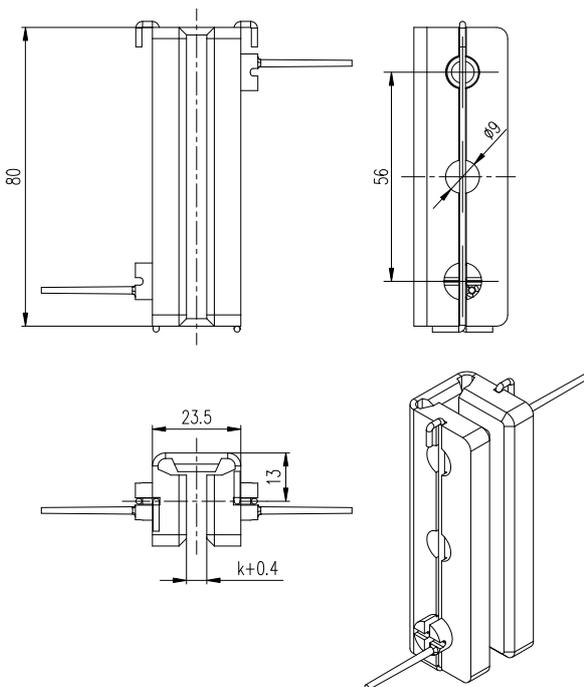
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 Datum/date 24.01.2002
 Stand/version E-10.10.2013
 Geprüft/approved WAT/MZE

Operating instructions

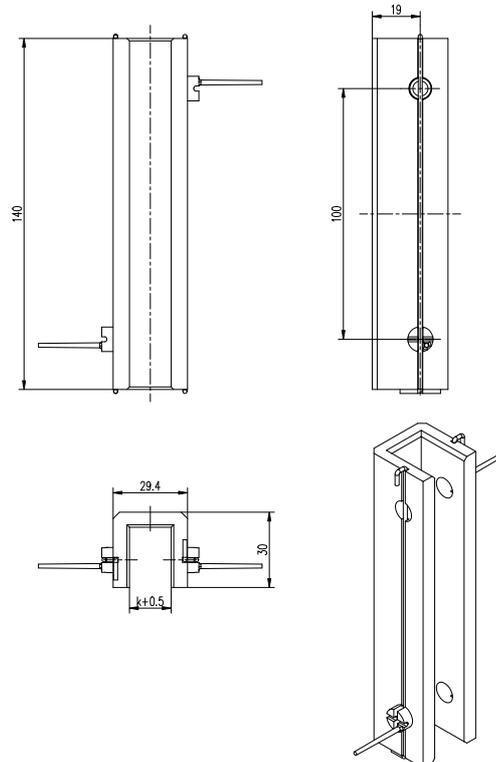
guide rail lubricator	86375	G05	5 mm	top fixing (preadjusted)	1 piece
		G09	9 mm	top fixing (preadjusted)	1 piece
		G10	10 mm	top fixing (preadjusted)	1 piece
		G16	16 mm	top fixing (preadjusted)	1 piece
		G19	19 mm	top fixing (preadjusted)	1 piece
		G05U	5 mm	bottom fixing (preadjusted)	1 piece
		G09U	9 mm	bottom fixing (preadjusted)	1 piece
		G10U	10 mm	bottom fixing (preadjusted)	1 piece
		G16U	16 mm	bottom fixing (preadjusted)	1 piece
	G19U	19 mm	bottom fixing (preadjusted)	1 piece	
	89870	G29	29 mm	top fixing (preadjusted)	1 piece
		G32	32 mm	top fixing (preadjusted)	1 piece
		G29U	29 mm	bottom fixing (preadjusted)	1 piece
		G32U	32 mm	bottom fixing (preadjusted)	1 piece

E

sliding insert 652437G..



sliding insert 85119G..

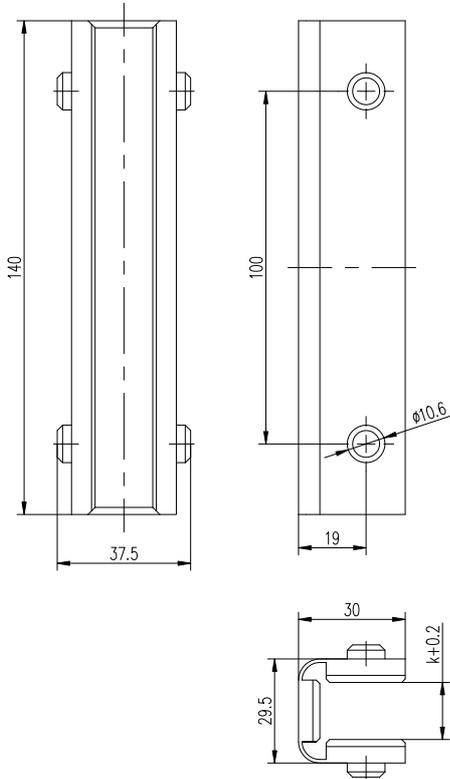


Sliding guide shoes

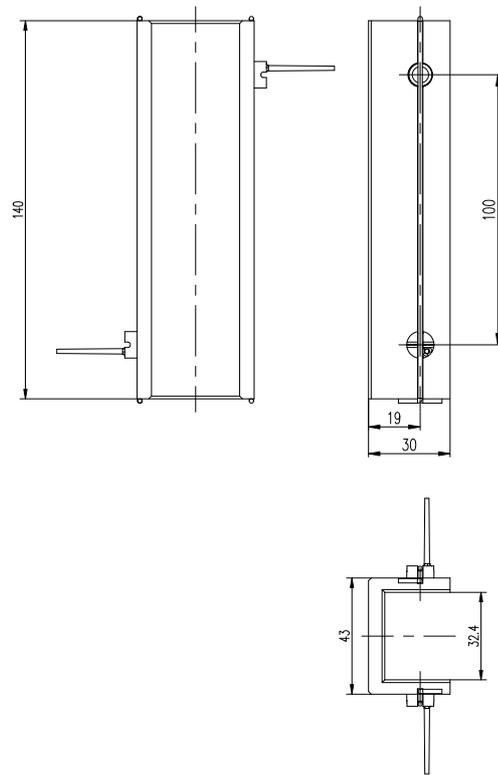
Operating instructions

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 Stand/version E-10.10.2013
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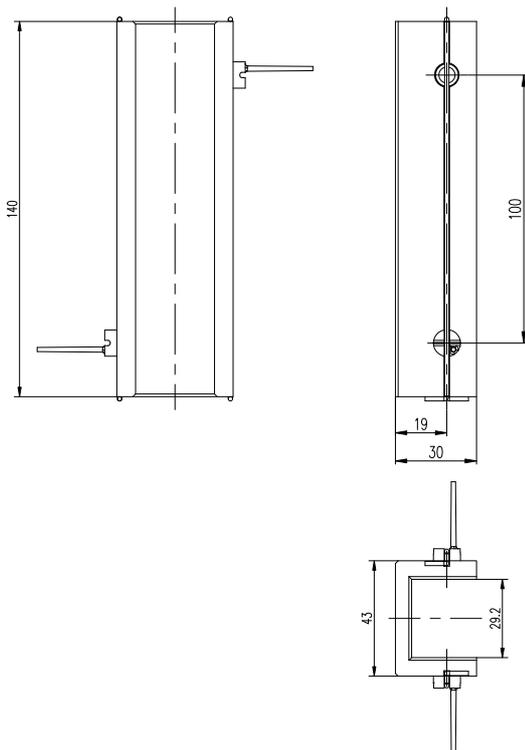
sliding insert 903712H..



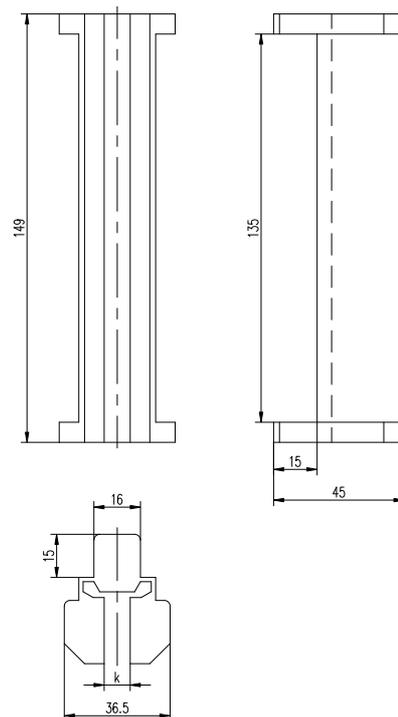
sliding insert 433374G32



sliding insert 433373G29



sliding insert 88711H..



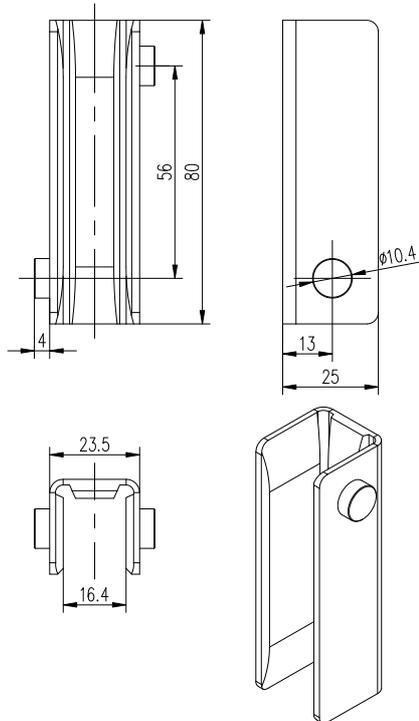
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Sliding guide shoes

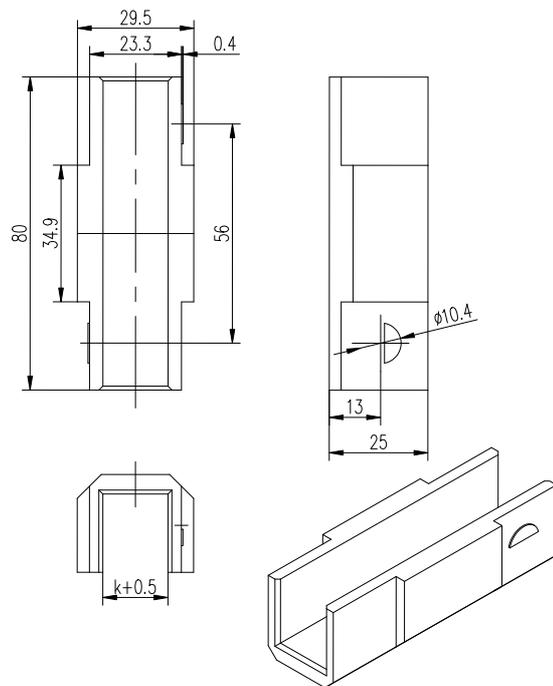
Operating instructions

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 Stand/version E-10.10.2013
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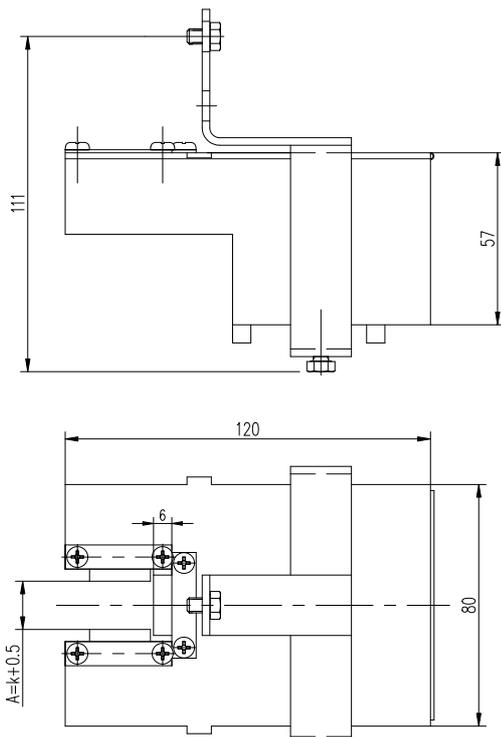
sliding insert 600641H16



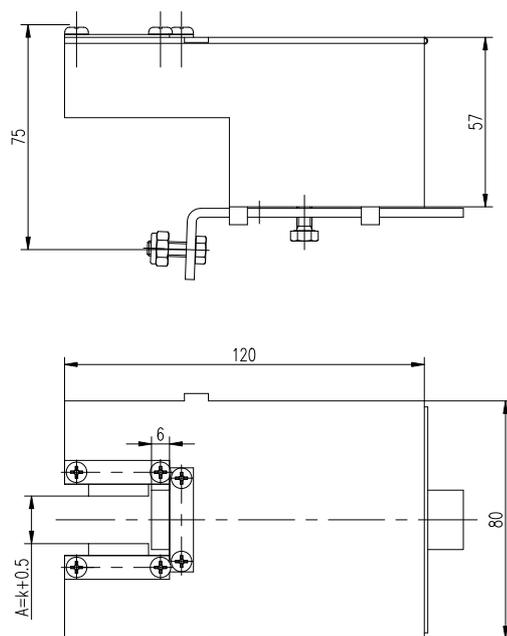
sliding insert 904425H..



E guide rail oiler 605596G99 and 86375G..



guide rail oiler 605596G99U and 86375G..U



Sliding guide shoes

Operating instructions

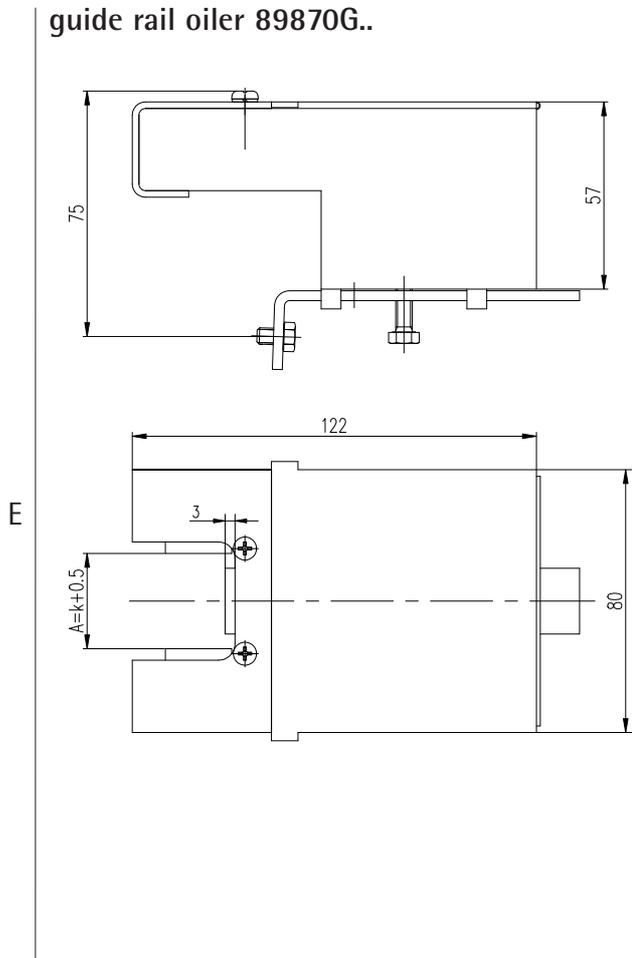
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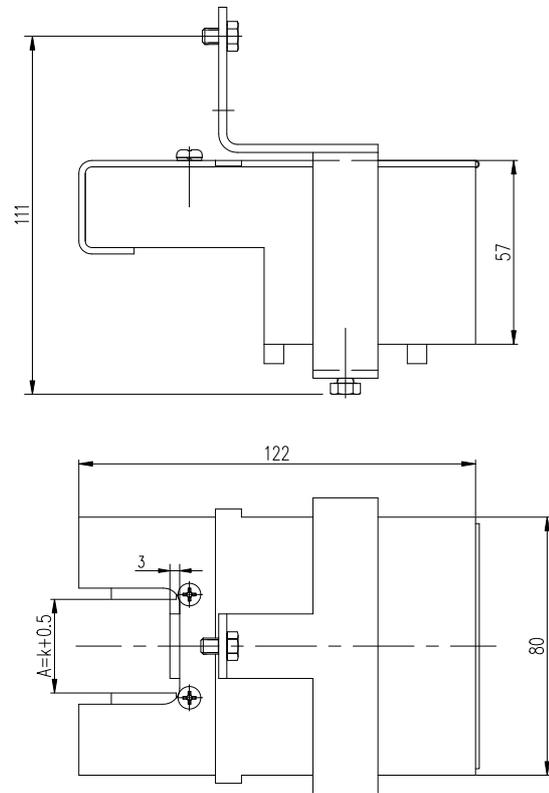
Stand/version E-10.10.2013

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guide rail oiler 89870G..



guide rail oiler 89870G..U





Sliding guide shoes

Operating instructions

Blatt/sheet D622MGB.015
Datum/date 24.01.2002
Stand/version E-10.10.2013
Geprüft/approved WAT/MZE

5 Revision table

E

Issue	Date	Description of change	CR
E	10.10.2013	spare parts updated, revision table added	CRW-4518