

DICTAMAT 50 KP

Technical Manual

You can find the current version of our manual on our website under «Downloads»:
<https://en.dictator.de/products/door-closing-solutions/door-closers/sliding-door-closer-dictamat50/kp-kw/>

A) Safety Instructions / Components Included

1) Safety Instructions

When installing and using the DICTAMAT 50 KP with pull rope make sure to observe all information and advice of this manual. During the installation we recommend to wear protective gloves to prevent any risk of getting hurt by sheet edges.

The casing of the spring rope pulley may never be opened as the released spring can cause major injuries. If the spring rope pulley should for some reason no longer work properly the complete device has to be replaced!

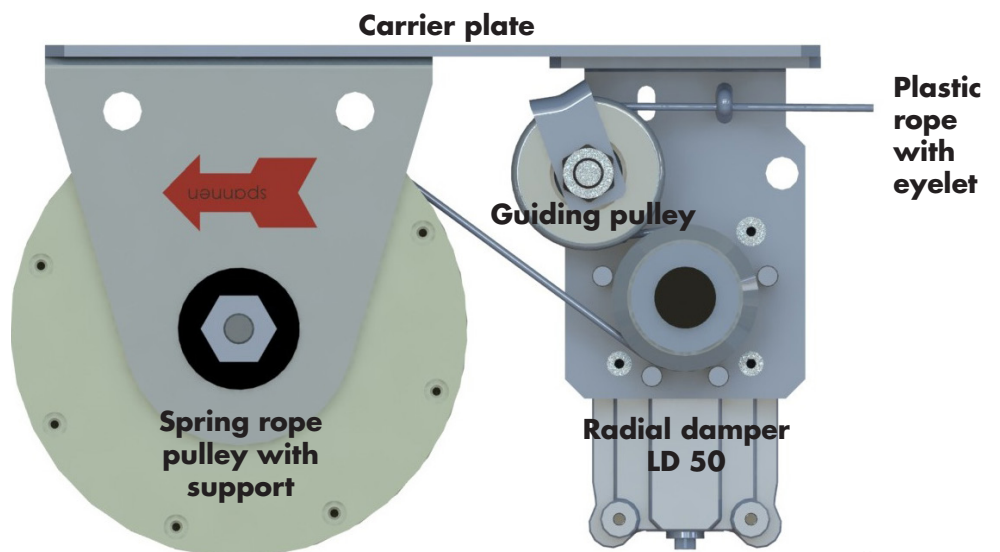
It has also to be assured that the spring rope pulley and the radial damper are protected by a protection cover to prevent fingers getting trapped. Furthermore the rope may not get in touch with fat or oil as otherwise the rope may slip.

The closing speed has to be adjusted at the radial damper so that the door can be stopped by hand without problem at every position, making sure nobody will be put in danger.

IMPORTANT: Both components of the compact unit may never be installed without the carrier plate or in altered positions as this might cause malfunction by slack rope.

2) Components Included (Ill. 1)

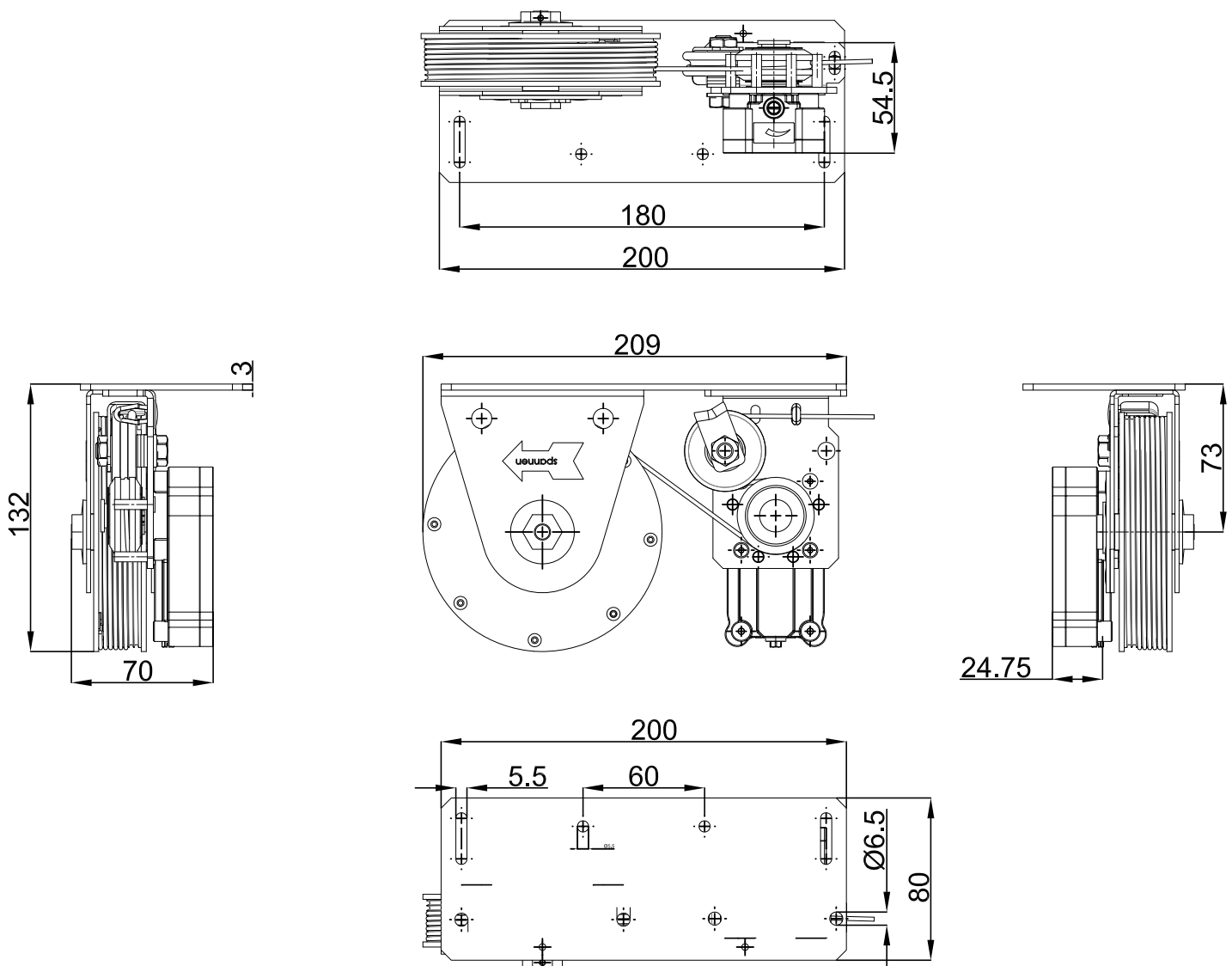
DICTAMAT 50 KP consisting of carrier plate with
spring rope pulley with 2 m plastic rope with eyelet
guiding pulley with rope coming-off prevention device
radial damper LD 50 with rope pulley



Ill. 1

B) Dimensions

The following dimensioned drawing shows the most important dimensions. In case you need further dimensions, we would be happy to provide a Autocad drawing - or you contact our technical customer service.



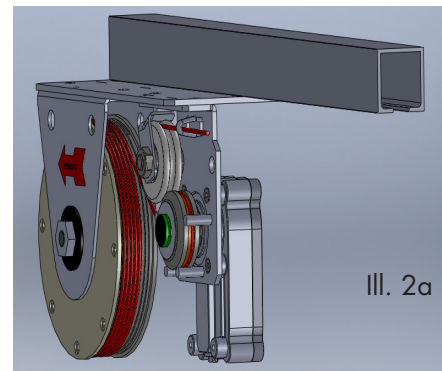
C) Installation of the DICTAMAT 50 KP

1) Determination of the Installation Position - Preparing the DICTAMAT 50 KP for the Mounting

The DICTAMAT 50 KP is a compact unit with single pull rope with carrier plate for mounting either from below to or in the rail, or from above on top of the rail. It is appropriate only for single-leaf doors.

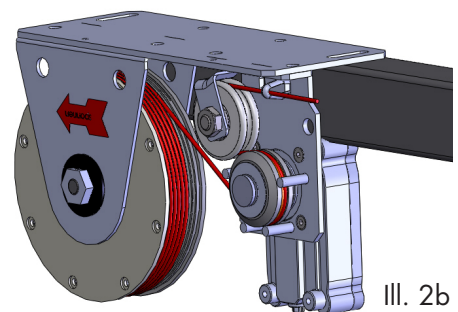
Mounting the DICTAMAT 50 KP from below to the rail:

- either the carrier plate is nested into the rail with the help of M5 screws and nuts, and washers if necessary
- or the carrier plate is screwed directly to the rail.



Mounting the DICTAMAT 50 KP from above on top of the rail:

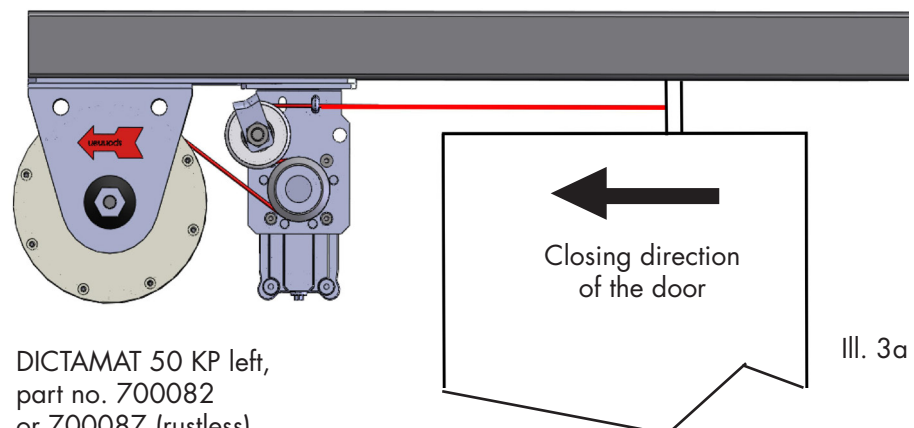
- the carrier plate is screwed from above to the rail (see adjoining illustration).



Normally the DICTAMAT 50 KP is mounted on that side of the rail where the door is closed.

Depending on the mounting place or the closing direction of the door you have to choose the corresponding DICTAMAT 50 KP.

The following illustration 3a shows the installation at the left end of the rail, with a door closing to the left (DICTAMAT 50 KP left).

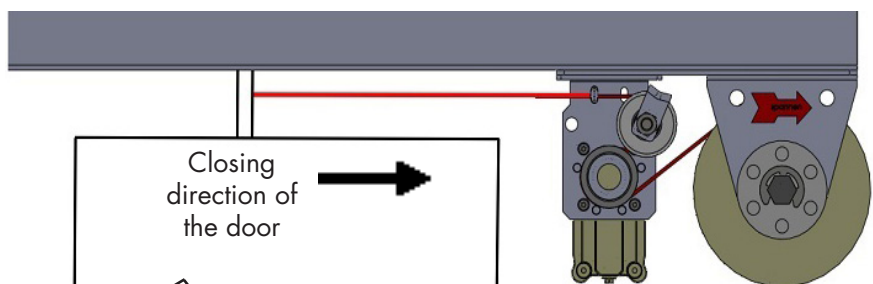


DICTAMAT 50 KP left,
part no. 700082
or 700087 (rustless)

III. 3a

C) Installation of the DICTAMAT 50 KP - continuation

The illustration 3b shows the version of the DICTAMAT 50 KP right, mounted at the right rail end, for doors closing to the right.



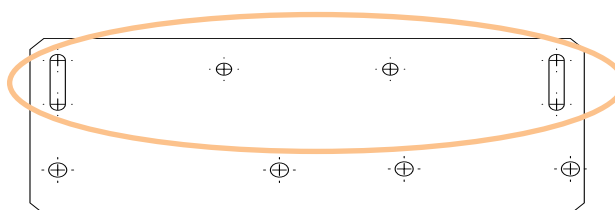
Ill. 3b

DICTAMAT 50 KP right,
part no. 700093 or
700094 (rustless)

In case the DICTAMAT 50 KP you have at hand is not the correct version for your application, please contact our technical department. By telephone we will explain you the necessary steps for changing to the needed version (right or left).

ATTENTION: When changing without technical advice, there may happen a malfunction of the DICTAMAT 50 KP.

To allow for a simple fixing and exact positioning on, in or from below to the rail, the carrier plate has oblong holes.



Fixing oblong holes
for the mounting to
the rail

Ill. 4

3) Fixing the Kevlar Rope to the Door

To make fixing to the door easy the Kevlar rope has an eyelet for M5 screws. The eyelet can be fixed either to the wheel hanger or directly to the door leaf. The rope should run as straight as possible and may not chafe on sharp edges.

Attention: In case the Kevlar rope has accidentally disengaged from the guiding pulleys of the DICTAMAT 50, it is compulsory to observe the guiding of the rope corresponding to the illustrations 3a or 3b and to make sure it runs beneath the rope coming-off prevention device!

D) Adjusting the Closing Force and Speed

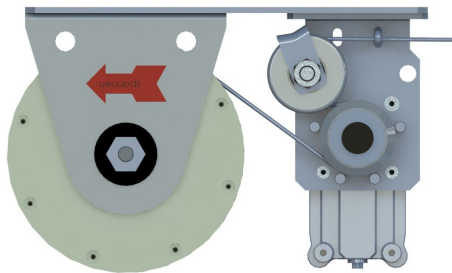
1) Adjusting the Closing Force on the Spring Rope Pulley

Open the door **completely** (max. opening 1.5 m) - there must remain min. 1.5 loops of rope on the spring rope pulley.

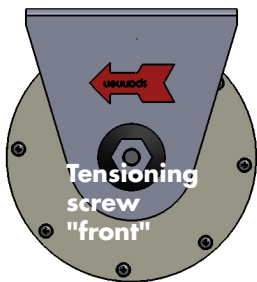
The spring is tensioned with the tensioning screw SW17 that is accessible from both sides. The correct sense for the tensioning is indicated by the red arrows "Spannen" (see ill. 6a - 6c). Maximum pretension: depending on the type of the spring rope pulley 2, 4 or 5 turns (see table below)! Reducing the pretension: if the spring rope pulley has been tensioned too much, the pretension can be reduced by turning the tensioning screw against the direction of the arrows.

Force needed for tensioning/releasing the spring:

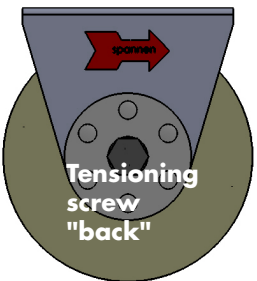
25 N spring: ca. 12 Nm, 50 N: ca. 15 Nm, 80 N: ca. 17 Nm



Ill. 5a



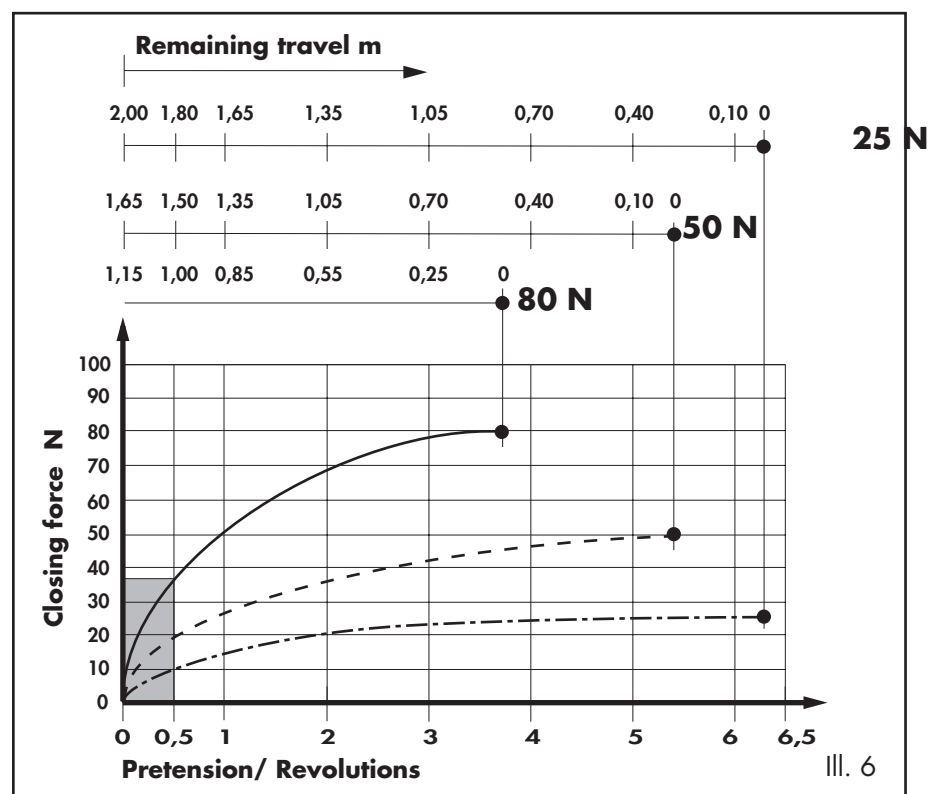
Ill. 5b



Ill. 5c

25 N		50 N		80 N	
Travel	Rev.	Travel	Rev.	Travel	Rev.
1800 mm	0.5	1500 mm	0.5	1000 mm	0.5
1650 mm	1	1350 mm	1	850 mm	1
1350 mm	2	1050 mm	2	550 mm	2
1050 mm	3	730 mm	3		
700 mm	4	400 mm	4		
400 mm	5				

The diagram below (ill. 6) indicates the closing force of the spring rope pulley in relation to the pretension and the door width.



D) Adjustment of the Closing Force and Speed (cont.)

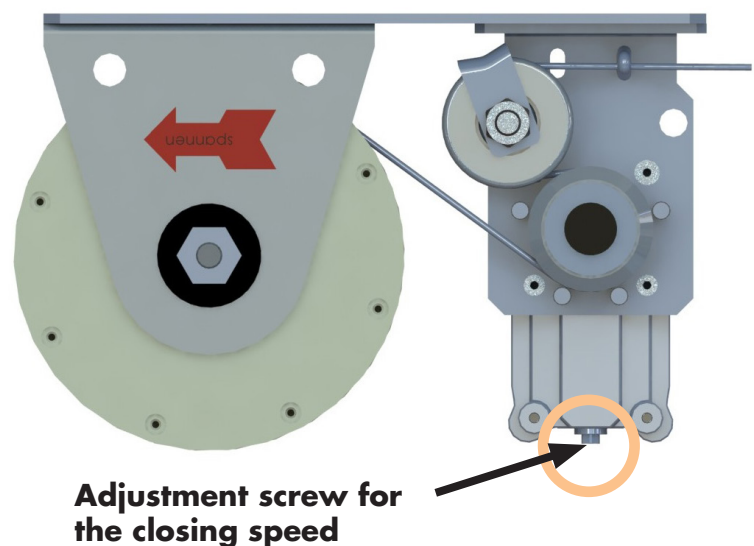
2) Adjustment of the Closing Speed

In order to adjust the closing speed open the door completely.

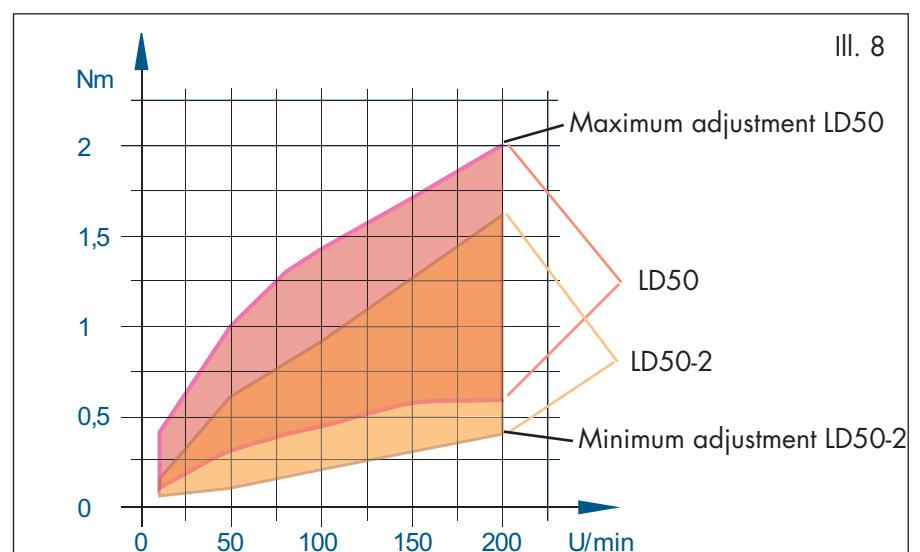
Now adjust the closing speed during the closing of the door by turning the adjustment screw of the radial damper (Allan key 5.5 mm or slotted screw driver) (see ill. 7).

Turning clockwise: reduces the closing speed
Turning anticlockwise: increases the closing speed

Now make sure that the spring closes the door from every position, also the not completely opened door. If necessary increase the pretension (see point 1. **IMPORTANT:** Pretension the spring only when the door is completely opened!)



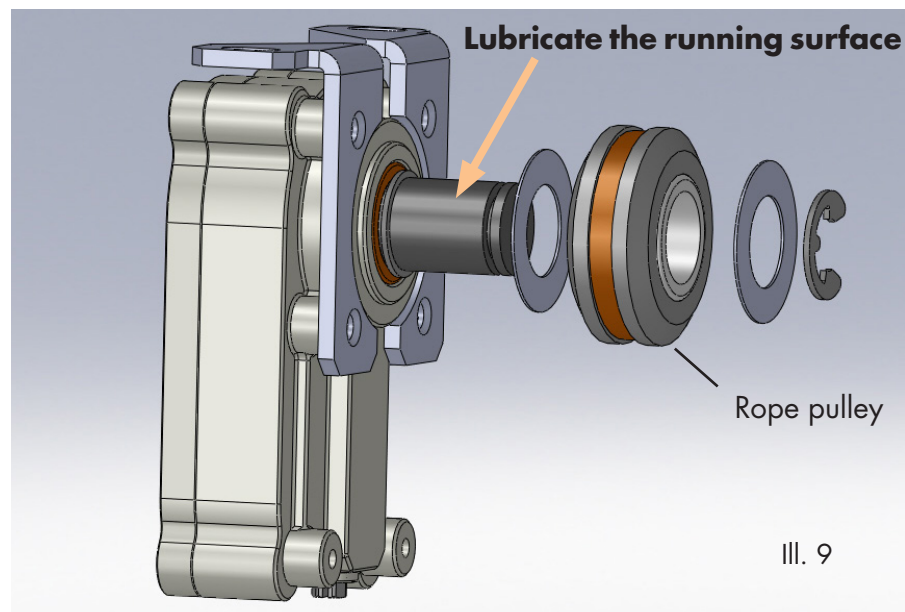
Damping Force



E) Maintenance, Servicing

Annually or at the latest after 30.000 movements:

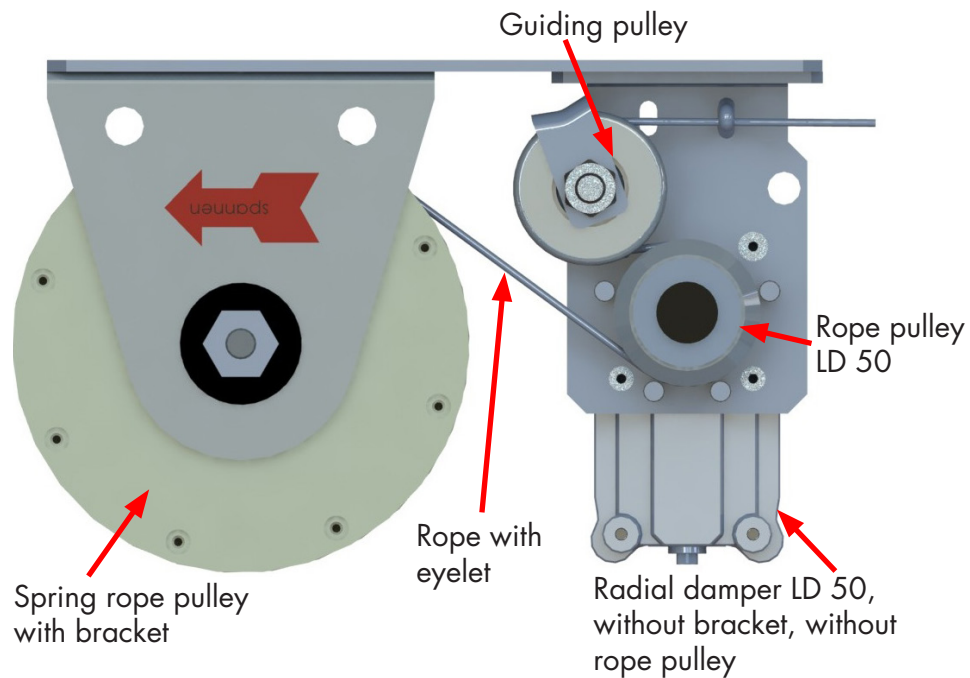
1. Check the door for damages and its smooth operation.
2. Check the fittings for damages and wearing: rail, wheel hanger, door handle etc.
3. Check the secure fixing of all door and operator fittings.
4. Check the complete rope and the lining of the rope pulley for damages and wearing.
5. Check the freewheel of the rope pulley for smooth operation and running noises.
6. Lubricate just the running surface of the freewheel of the rope pulley with vaseline (ill. 9). For this purpose reduce the rope tension, partly pull off the rope pulley and put some vaseline on the shaft.



7. Check the rope tension. The rope may not slip on the rope pulley. If necessary, retension.
8. Check the closing speed and force and, if necessary, adjust it. Too fast doors represent a risk of getting injured.
9. All damaged and worn parts have to be replaced as fast as possible by original spare parts.

F) List of Spare Parts

Below you will find the individual spare parts and their part numbers.



	Part no.
Radial damper LD 50, without bracket, without rope pulley	244045
Rope pulley LD 50	205465
Guiding pulley, without screws	205193
Plastic rope with eyelet, 2.5 m	700058
Plastic rope with eyelet, 3.5 m	700059
Spring rope pulley 25 N with sliding hub, bracket zinc-plated	070102
Spring rope pulley 50 N with sliding hub, bracket zinc-plated	070093
Spring rope pulley 80 N with sliding hub, bracket zinc-plated	070094
Spring rope pulley 25 N with sliding hub, bracket AISI 304	070103
Spring rope pulley 50 N with sliding hub, bracket AISI 304	070098
Spring rope pulley 80 N with sliding hub, bracket AISI 304	070099