

Technical Manual _DICTAMAT 50 KW

DICTAMAT 50 KW

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/

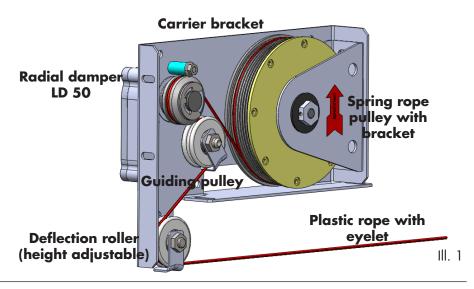


A) Safety Instructions / Components Included

1)Safety Instructions	When installing and using the DICTAMAT 50 KW 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 for some reason no longer works 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 otnerwise the rope may slip.
	The closing speed has to be adjusted on the radial damper so that the door can easily be stopped by hand in every position, making sure nobody will be put in danger.
	IMPORTANT : Both components of the compact unit may never be installed without the carrier bracket or with altered positions, as this might cause malfunction by slack rope.

2) Components Included (III. 1)

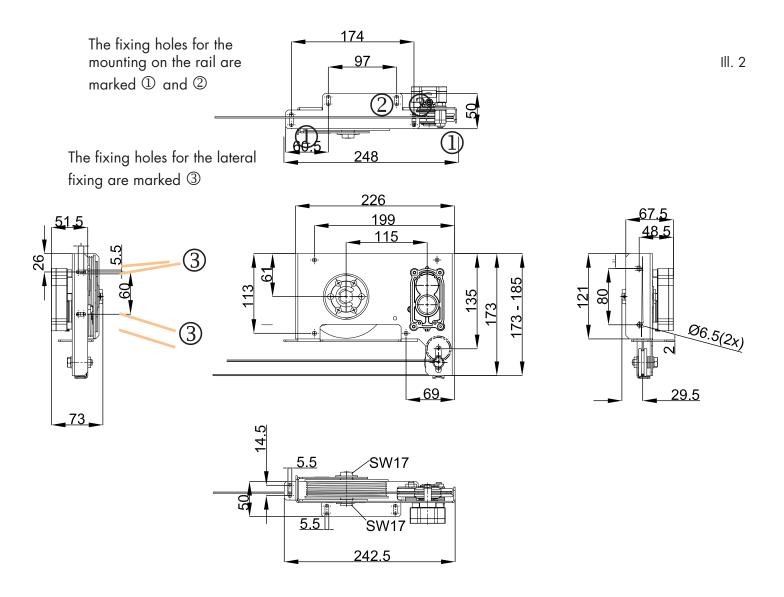
DICTAMAT 50 KW consisting of the carrier bracket with spring rope pulley with 2 m of plastic rope with eyelet guiding pulley with rope coming-off prevention device radial damper LD 50 with rope pulley deflection roller (height adjustable)





B) Dimensions

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





C) Mounting of the DICTAMAT 50 KW

1) Determining the Mounting Position

The DICTAMAT 50 KW is a compact unit with single pull rope and carrier bracket for mounting on top of the rail. Usually it is mounted on the side of the rail where the door is closed as then the pull rope can directly be fixed to the door leaf. The DICTAMAT 50 KW can be used without changing for doors closing

to the right or left.



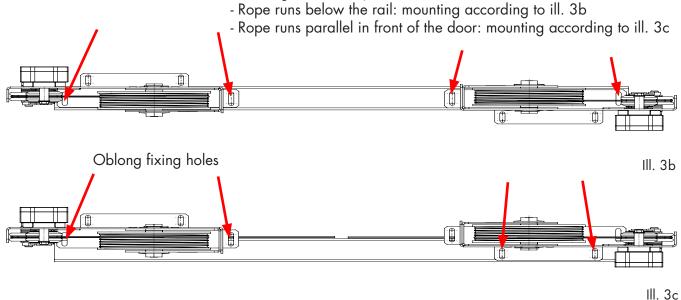
DICTAMAT 50 KW mounted at the left, door closes to the left

DICTAMAT 50 KW mounted at the right, door closes to the right



III. 3a

For the fixing you have to take into consideration where the rope shall run. This decides which of the oblong holes of the carrier bracket (marked by the red arrows) have to be used for the fixing (see ill. 3a and the following illustrations).





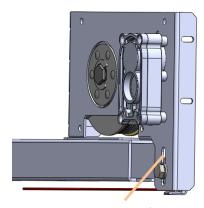
2) Mounting

C) Mounting of the DICTAMAT 50 KW - continuation

The DICTAMAT 50 KW is fixed to the rail via the oblong holes described on the previous page. For further stabilization the carrier bracket of the DICTAMAT 50 KW can additionally be fixed with the oblong holes ③ according to ill. 2.

ATTENTION: Do not yet tighten the screws completely, only after the Kevlar rope has been fixed.

3) Adjusting the Deflection Roller



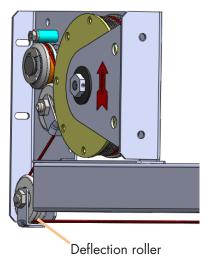
Oblong hole for adjusting the height of III. 4b the deflection roller

4) Fixing the Kevlar Rope to the Door

The height of the pull rope is determined by means of the deflection roller. This makes the DICTAMAT 50 KW independant of the used rail.

The oblong hole allows for an 30 mm adjusting range.

IMPORTANT: the deflection roller has to be positioned in a way that the pull rope runs horizontally! The deflection roller has to move freely and may not touch the rope coming-off prevention device or the rail.



III. 4a

For an easy fixing to the door the Kevlar rope of the spring rope pulley is provided with 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 horizontally as possible and may not chafe on sharp edges.

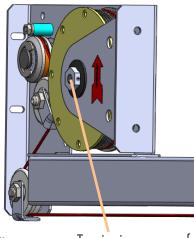
If necessary the position of the DICTAMAT 50 KW has to be adjusted.

As soon as the DICTAMAT 50 KW has been positioned correctly all fixing screws are finally tightened.

ATTENTION: In case the Kevlar rope has accidentally disengaged from the guiding pulleys of the DICTAMAT 50, it is compulsory to guide the rope corresponding to the illustration 4a and to make sure it runs beneath the rope coming-off prevention device!



1) Adjusting the Closing Force on the Spring Rope Pulley



III. 5 Tensioning screw of the spring rope pulley

D) Adjusting the Closing Force and Speed

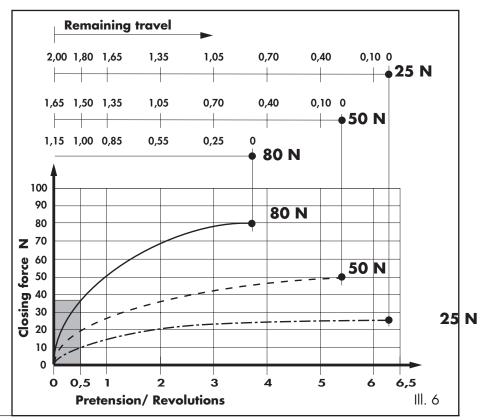
Open the door completely (max. opening 1.5 m) - there must re-main min. 1.5 loops of rope on the spring rope pulley. The spring is tensioned with the tensioning screw SW17 that is accessible from both sides. The correct sense for the tensioning is indicated by the red arrows "Spannen" (see ill. 5). Maximum pretension: depending on the type of the spring rope pulley (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/detensioning the spring: 25 N: about 12 Nm, 50 N: about 15 Nm, 80 N: about 17 Nm

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 (ill. 6) indicates the closing force of the spring in relation to the pretension and the door width.



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D) Adjusting the Closing Force and Speed (cont.)

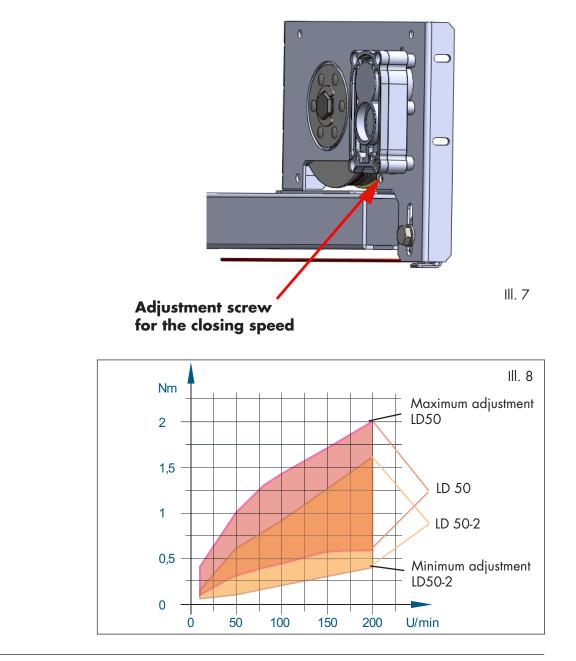
2) Adjusting the Closing Speed

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

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!)



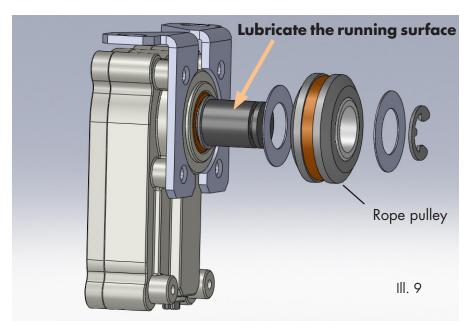
Damping Force



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.

