DICTATOR Solutions for Sliding Doors

Even moving small sliding doors may imply quite a lot of requirements:

- The sliding door should close automatically (sometimes only after a certain time), but an expensive door operator is not required as the door can manually be opened without effort.

- The sliding door moves so effortlessly that a slight push by hand is sufficient to make the door slam against the door frame. This may result in accidents, increased wear and tear of the door, noise and that the door does not stay either completely opened or closed.

- The door should completely disappear in a pocket of the wall, in order to have available the full width of the passage. But this way the door handle disappears as well and the door cannot be closed.

With DICTATOR products you can solve these problems. Combined in different ways the DICTATOR products allow for individual solutions that meet manifold requirements.

The products shown in this chapter are mainly designed for sliding doors up to about 1.50 m door width. For larger sliding doors DICTATOR offers similar solutions. They can be found in the chapter Door and Gate Operators.

### Products

<table>
<thead>
<tr>
<th>Products</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Closing mechanisms</td>
<td>DICTAMAT 50 (adjustable closing speed)</td>
</tr>
<tr>
<td></td>
<td>spring rope pulley (closing without speed control)</td>
</tr>
<tr>
<td>Mechanical timer</td>
<td>delays the beginning of the closing without current</td>
</tr>
<tr>
<td>Release buffer</td>
<td>pushes the completely opened door out of the wall pocket</td>
</tr>
<tr>
<td>Radial damper</td>
<td>controlled closing speed during the whole travel</td>
</tr>
<tr>
<td>Final dampers</td>
<td>damping the movement shortly before the final positions</td>
</tr>
<tr>
<td>Door checks</td>
<td>damping and controlled closing of the door</td>
</tr>
</tbody>
</table>
Damping Systems for Sliding Doors

The products for sliding doors mentioned on the previous page will be presented in detail on the following pages. Only exception are the damping solutions as they are dealt with earlier in this chapter or in the chapter Damping Engineering. Therefore, below you will find just a short overview of possible solutions and where you can find more detailed information.

There are different possibilities to slow down the movement of a sliding door. They either control the speed during the whole closing or they prevent banging in the open or closed position. Further possibilities offer the DICTATOR door checks, which also keep the door safely closed.

Radial Dampers

In case that the closing of the sliding door should be controlled during the whole travel, the LD 50 radial damper is the appropriate solution. The radial damper is integrated in the DICTAMAT 50 closing device, but it can also be installed separately. Information on the LD 50 and adapted accessories can be found beginning on page 02.072.00 and further details in the chapter Damping Engineering.

Final Dampers

In order to dampen the movement of sliding doors just before the final positions a final damper is the best solution. They are available in different sizes and types. For detailed information see the chapter Damping Engineering.

Door Checks

If the door should not only be slowed down but also kept safely in the final position, the DICTATOR door checks are the best choice. They contribute to environmental protection and energy saving. Often small sliding doors are moving that easily, that they are not slowed down in time, bang against the final position and reopen a little. Through this gap energy in form of heat or cold may get lost (e.g. with cold-stores). DICTATOR door checks not only close the door gently and smoothly, but also keep it firmly closed.

There are several models for different sizes of doors. Please see pages 02.003.00 and following. Due to its small size the JUNIOR door check is nearly invisible when being built into the door leaf. We will be happy to assist you in choosing the appropriate door check.
Closing Devices
DICTAMAT 50 Series

DICTATOR offers also for small sliding doors a reliable, mechanical closing device, the DICTAMAT 50.

One of its advantages is that both closing speed and force are exactly adjustable. The door is closed at a controlled speed over the whole travel. This means optimum protection both for people and material. And it also guarantees that the door closes completely and does not reopen a bit as it often happens when being closed manually.

We highly recommend to use the DICTAMAT 50 BK with revolving rope everywhere where it is possible as it provides an absolutely non-positive connection to the door and prevents any malfunction by manual manipulation. Due to its modular structure the modular system (BK) can be adapted to nearly any door situation.

The DICTAMAT 50 BK can also be used for sliding doors with two leaves. The revolving rope facilitates the simultaneous moving of both leaves.

For its use e.g. on ships, in the food processing industry or in hospitals, the DICTAMAT 50 is also available from non-corroding material.

Technical Data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. closing force</td>
<td>50 N (standard); 25 N, 80 N</td>
</tr>
<tr>
<td>Max. working travel</td>
<td>1.0 - 1.5 m (depending on pretension and strength of spring)</td>
</tr>
<tr>
<td>Pull rope</td>
<td>length 2 m, flame retardant plastic rope</td>
</tr>
<tr>
<td>Door weight</td>
<td>10 - 100 kg</td>
</tr>
<tr>
<td>Material</td>
<td>please see table on the following page</td>
</tr>
<tr>
<td></td>
<td>execution from rustless material available</td>
</tr>
</tbody>
</table>
Solutions for Sliding Doors

DICTAMAT 50

DICTAMAT 50 Functional Principle - Overview

The DICTAMAT 50 has been designed as a closing device for sliding doors. It makes sure that they will reliably be closed. The closing speed can exactly be adapted to the requirements on site.

The main components of the DICTAMAT 50 are the spring rope pulley as closing device and the radial damper LD 50 for the controlling and adjusting of the closing speed. When opening the sliding door by hand, the spring of the spring rope pulley is tensioned. When releasing the door, the spring rope pulley closes the door by means of the pull rope. The rope is guided over the radial damper and therefore the door is closed with the speed adjusted on the radial damper.

The DICTAMAT 50 can be mounted to the most different rail systems. If necessary, specially adapted fixing accessories can be provided.

Functional Principle

DICTAMAT 50 KP (spring rope pulley and radial damper on a carrier plate)

Executions

- **DICTAMAT 50 BK**: Modular system, consisting of single components with fixing brackets each and revolving rope with idler pulley. Can also be used for the simultaneous moving of double-leaf doors. Usually this version should be installed.

- **DICTAMAT 50 KP**: Compact unit with carrier plate for the installation underneath the rail, with single pull rope. Suitable for one-leaf doors only.

- **DICTAMAT 50 KW**: Compact unit with carrier bracket for the installation on top of the rail, with single pull rope. Suitable for one-door only.

Material of the Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Standard version</th>
<th>Rustless version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carrier plate/bracket</td>
<td>zinc-plated sheet steel</td>
<td>AISI 304/AISI 316 stainless steel</td>
</tr>
<tr>
<td>Revolving rope</td>
<td>steel rope</td>
<td>AISI 304/AISI 316 stainless steel</td>
</tr>
<tr>
<td>Door actuator</td>
<td>zinc-plated sheet steel</td>
<td>AISI 304/AISI 316 stainless steel</td>
</tr>
<tr>
<td>Rope tensioner</td>
<td>zinc-plated sheet steel</td>
<td>AISI 304/AISI 316 stainless steel</td>
</tr>
<tr>
<td>Mounting bracket</td>
<td>zinc-plated sheet steel</td>
<td>AISI 304/AISI 316 stainless steel</td>
</tr>
<tr>
<td>Spring rope pulley</td>
<td>casing: flame retardant plastic AQUAMID</td>
<td></td>
</tr>
<tr>
<td>Rope spring r. pulley</td>
<td>tensioning screw and sliding hub zinc-plated and greased</td>
<td>flame retardant Kevlar rope with polyester coating</td>
</tr>
<tr>
<td>Radial damper</td>
<td>casing: AQUAMID, rope pulley: aluminium with Vulkollan insert</td>
<td>polyamide</td>
</tr>
<tr>
<td>Idler pulleys</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The DICTAMAT 50 is available from different material.
DICTAMAT 50 BK - Modular System with Revolving Rope

The DICTAMAT 50 BK is the standard version and should always be used. It also can simultaneously move both leaves of double-leaf sliding doors. Furthermore it facilitates, due to its modular structure, to realise space saving solutions. The revolving rope always provides a secure and reliable function. Therefore, the single components of this execution can be installed separately, without running the danger of a malfunction. With the DICTAMAT BK the rope is usually connected directly to the wheel hanger.

Spring rope pulley, radial damper and idler pulley are supplied with the mounting accessories that facilitate the fixing directly to the rail or the ceiling. On demand, there are also available special mounting accessories for the fixing to the wall.

Installation Example DICTAMAT 50 BK

The drawing shows an installation example of the DICTAMAT 50 BK (see next page for further details and the dimensions).

Components DICTAMAT 50 BK

- Spring rope pulley with bracket and plastic rope
- Radial damper LD 50 with mounting bracket set
- Idler pulley with mounting bracket set
- 8 m steel rope Ø 2 mm (revolving rope)
- Door actuator and rope tensioner with bracket

For double-leaf doors an additional actuator for the second leaf has to be ordered.

Dimensions Components DICTAMAT 50 BK
**DICTAMAT 50 BK - continuation**

Depending on the available space, the components of the modular system can be installed at different positions. For designers, there are nearly no limits to develop own object-specific solutions. Of course, DICTATOR will be happy to assist you in realising your ideas.

The mounting bracket set of the radial damper LD 50 allows for horizontal and also vertical mounting. This gives the most flexibility. In addition, for the radial damper and the idler pulley there are available adaptor plates which facilitate an easy mounting of the respective component to the most different rails and positions.

When choosing the mounting position of the LD 50, you should consider besides the available space the accessibility of the regulation screw for later adjustments.

**Dimensions Components**

**DICTAMAT 50 BK - cont.**

<table>
<thead>
<tr>
<th>Component Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radial damper with mounting brackets, part no. 244040</td>
<td></td>
</tr>
<tr>
<td>Vertical installation</td>
<td>56.5 x 32 x 31</td>
</tr>
<tr>
<td>Horizontal installation</td>
<td>70 x 60 x 50</td>
</tr>
</tbody>
</table>

**Components Included**

- Spring rope pulley with bracket and plastic rope, radial damper LD 50 with mounting bracket set, idler pulley with mounting bracket set, 8 m steel rope Ø 2 mm (reeling rope), door actuator with rope tensioner
- Door actuator for second door leaf with additional compensation spring and rope clip
- Adaptor plates and brackets for radial damper LD 50 and idler pulley
DICTAMAT 50 KP - Compact Unit with Pull Rope

The DICTAMAT 50 KP has been designed for the installation underneath the rail. The carrier plate is directly fixed to the rail from below.

The spring rope pulley and the radial damper with pressure roll of the compact unit KP are mounted on a carrier plate. The pull rope of the spring rope pulley is guided over the rope pulley of the radial damper and then directly to the door leaf. The pressure roll on the radial damper ensures the rope to be always guided safely.

Manual manipulation of the closing (additionally pushing the door close) may cause the so-called slack rope.

The DICTAMAT 50 KP is screwed either from above to the rail or fixed from below to or in the rail.

Components Included

- DICTAMAT 50 KP, consisting of carrier plate with spring rope pulley,
- 2 m of plastic rope with eyelet, pressure roll, radial damper with rope pulley

Accessories

- Covers in different executions on demand
Solutions for Sliding Doors

DICTAMAT 50

DICTAMAT 50 KW - Compact Unit with Pull Rope

The DICTAMAT 50 KW is intended for the installation on top of the rail. An universal carrier bracket offers different fixing possibilities.

With the compact unit KW the spring rope pulley, the radial damper with pressure roll and a deflection roll for the rope of the spring rope pulley are mounted on the carrier bracket. The pull rope of the spring rope pulley runs over the rope pulley of the radial damper and the height adjustable deflection roll (regulating range: 30 mm) to the door leaf.

Manual manipulation of the closing (additionally pushing the door close) may cause the so-called slack rope.

Dimensions

<table>
<thead>
<tr>
<th>Oblong fixing holes</th>
<th>4 pieces 5 x 15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laterally:</td>
<td>2 pieces 5 x 13</td>
</tr>
</tbody>
</table>

Installation

Usually the DICTAMAT 50 KW is installed on the side of the door where it is in the closed position, as then the pull rope can directly be fixed to the door leaf. The DICTAMAT 50 KW can be used, without converting, for right and left closing doors. The rope is guided either directly below or in the rail or alternatively parallel to the rail (see page 02.080.00).

Especially for its use together with the DICTATOR rail system for wall pockets (see page 02.079.00), there is available a supporting bracket which facilitates the mounting of the compact unit KW on the supporting system of the rail set.

Components Included

- DICTAMAT 50 KW, consisting of carrier bracket with spring rope pulley, 2 m of plastic rope with eyelet, pressure roll, radial damper with rope pulley, deflection roll

Accessories

- Supporting bracket for rail system
- Complete set for wall pockets
DICTAMAT 50 - Order Information

In the following is listed just the stock program available on short notice. On demand, there can be provided further special executions, e.g. with components of the AISI 316 stainless steel. Furthermore, there can be produced executions of fixing accessories adapted especially to the respective rail system.

DICTATOR also offers a free of charge technical advisory service to support you in developing object related solutions. If required the corresponding drawings of the components are available in different formats.

Order Information

**DICTAMAT 50 BK, modular system**
- DICTAMAT 50 BK, 25 N part no. 700054
- DICTAMAT 50 BK, 50 N part no. 700080
- DICTAMAT 50 BK, 80 N part no. 700081
- DICTAMAT 50 BK, 25 N, rustless part no. 700055
- DICTAMAT 50 BK, 50 N, rustless part no. 700085
- DICTAMAT 50 BK, 80 N, rustless part no. 700086

**Accessories for the modular system**
- Door actuator for second door leaf, zinc-plated steel part no. 700090
  with compensation spring and rope clip
- Door actuator for second door leaf, AISI 304 stainless steel part no. 700091
  with compensation spring and rope clip
- Adaptor plate 75 x 80 mm, zinc-plated part no. 244050
- Adaptor bracket 70 x 25 x 40 mm, zinc-plated part no. 244051
- Adaptor plate 75 x 80 mm, AISI 304 stainless steel part no. 244052
- Adaptor bracket 70 x 25 x 40 mm, AISI 304 stainless steel part no. 244053

**DICTAMAT 50 KP, compact unit with carrier plate**
- DICTAMAT 50 KP, 50 N, left part no. 700082
- DICTAMAT 50 KP, 50 N, left, rustless part no. 700087
- DICTAMAT 50 KP, 50 N, right part no. 700093
- DICTAMAT 50 KP, 50 N, right, rustless part no. 700094

**DICTAMAT 50 KW, compact unit with carrier bracket**
- DICTAMAT 50 KW, 50 N part no. 700083
- DICTAMAT 50 KW, 50 N, rustless part no. 700088

**Accessories for the KW compact unit**
- Supporting bracket for DICTAMAT 50 KW for the rail system "Complete set for wall pockets" part no. 700092

The components of the modular system are also separately available. In case of need please contact us.

Our technicians would be happy to design special variants for your applications.
Technical Information on the DICTAMAT 50

The DICTAMAT 50 is usually delivered with a closing force of 50 N. But it is also available with a spring of 25 N or 80 N. The actual closing force can be adapted by pretensioning the spring rope pulley accordingly. The more the spring is pretensioned, the shorter the available travel becomes (see schema below).

The spring rope pulley of the DICTAMAT 50 is equipped with a sliding hub. This allows to reduce the pretension of the spring without the danger of damaging the spring.

The continuous adjusting of the closing speed is realised by adjusting the damping force of the radial damper (see the diagram at the bottom).

Closing Force/Travel

Damping force

Adjusting of the closing force (from both sides, SW 17)

Adjusting of the damping force (slotted hexagon screw)
Rail Sets for the DICTAMAT 50

As accessories for the DICTAMAT 50 there are available complete rail sets. They are especially designed for sliding doors up to 100 kg. There exist two completely different types of sets:

- Rail with wheel hanger and accessories for the free mounting to the wall or ceiling (see below)
- Assembly set for a wall pocket (hidden mounting) complete with rail, wheel hanger and accessories (see page 02.079.00)

Rail Set with Wheel Hanger

For one sliding door you need:

- Rail type 100 1-12 in the corresponding length
  By default the rail is available in the following lengths: 1.5 m, 1.8 m, 2.1 m, 2.4 m, 3.0 m, 4.0 m. Other lengths are available on demand.

- Components set 100-010 consisting of:
  2 wheel hangers for timber or metal doors (adjustable)
  2 final buffers with catching device
  1 guiding for the sliding door

- If required a set of side fixing brackets.
  There are available two different sets, according to the length of the rail.
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Rail Set with Wheel Hanger - cont.

The rail is provided with bores to allow for its fixing directly to the ceiling (rails up to 2.1 m have 5 bores each, rails of 2.4, 3 and 4 m have 8 bores).

Should the fixing to the ceiling not be possible, there are additional side fixing brackets available. Depending on the length of the rail the kit contains 5 or 8 brackets.

In case two rails have to be assembled because the maximum length of 4 m is not sufficient, the aluminium side wall bracket (1-105) is used on the joint.

Accessories

8 mm fixing screws
Aluminium side wall bracket 1-105
Steel rail 1-12

Technical Data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. door weight</td>
<td>100 kg</td>
</tr>
<tr>
<td>Max. door height</td>
<td>2.5 m</td>
</tr>
<tr>
<td>Door thickness</td>
<td>20 - 50 mm</td>
</tr>
<tr>
<td>Material</td>
<td>zinc-plated steel (aluminium or stainless steel on demand)</td>
</tr>
</tbody>
</table>

Order Information
Rail Set with Wheel Hanger

Rail type 1-12, length 1.5 m part no. 1-12-15
Rail type 1-12, length 1.8 m part no. 1-12-18
Rail type 1-12, length 2.1 m part no. 1-12-21
Rail type 1-12, length 2.4 m part no. 1-12-24
Rail type 1-12, length 3.0 m part no. 1-12-30
Rail type 1-12, length 4.0 m part no. 1-12-40
Components kit 100-010 for one-leaved doors part no. 100-010
Kit of side fixing brackets (5 pieces up to 2.1 m) part no. 1-005
Kit of side fixing brackets (8 pieces up to 4 m) part no. 1-008
Aluminium side wall bracket to join two rails part no. 1-105
Closed end piece for Straightway 100 track (pair) part no. 1-007

Further components on demand, e.g. different floor guidings.
Rail Sets for the DICTAMAT 50 - Complete Set for Wall Pockets

The complete set for wall pockets makes it easy to let disappear open sliding doors in the wall. The set includes the rail with accessories and the complete studs for building the wall pocket. After the installation the stud construction has to be lined with panels to be provided by the customer.

The unique hanger locking clip allows exceptionally easy fitting and removal of the door from the hanger. The stud foot brackets compensate unevenness of the floor.

Together with the complete set for wall pockets, always the DICTAMAT 50 KW should be used (see next page).

Complete Set for Wall Pockets

The complete set consists of the following components:

- 1 header assembly complete with rail (for lengths see table)
- 1 kit of wheel hangers for timber or metal doors (adjustable)
- 1 rubber door stop
- 2 nylon door guides
- 4/6/8 steel cased studs (depending on door width)
- 2/3/4 stud foot brackets (depending on door width)
- 1 adaptor kit for door thickness from 35 - 44 mm (exception H60B)

The complete set is available in different layouts, depending on the dimensions and the weight of the door.

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Max. door width mm</th>
<th>Max. door height mm</th>
<th>Max. door thickness mm</th>
<th>Max. door weight kg</th>
<th>Total frame length mm</th>
<th>Number studs/foot brackets</th>
</tr>
</thead>
<tbody>
<tr>
<td>H30</td>
<td>760</td>
<td>2032</td>
<td>35/44</td>
<td>56</td>
<td>1548</td>
<td>4 / 2</td>
</tr>
<tr>
<td>H36</td>
<td>915</td>
<td>2032</td>
<td>35/44</td>
<td>56</td>
<td>1853</td>
<td>4 / 2</td>
</tr>
<tr>
<td>H42</td>
<td>1067</td>
<td>2032</td>
<td>35/44</td>
<td>56</td>
<td>2158</td>
<td>6 / 3</td>
</tr>
<tr>
<td>H42A</td>
<td>1067</td>
<td>2743</td>
<td>35/44</td>
<td>90</td>
<td>2158</td>
<td>6 / 3</td>
</tr>
<tr>
<td>H48A</td>
<td>1219</td>
<td>2743</td>
<td>35/44</td>
<td>90</td>
<td>2462</td>
<td>8 / 4</td>
</tr>
<tr>
<td>H54</td>
<td>1371</td>
<td>2743</td>
<td>35/44</td>
<td>136</td>
<td>2767</td>
<td>6 / 3</td>
</tr>
<tr>
<td>H48I</td>
<td>1219</td>
<td>2438</td>
<td>35/44</td>
<td>90</td>
<td>2462</td>
<td>8 / 4</td>
</tr>
<tr>
<td>H60B</td>
<td>1524</td>
<td>2743</td>
<td>75</td>
<td>90</td>
<td>3071</td>
<td>8 / 4</td>
</tr>
</tbody>
</table>

Finished thickness of the complete element (without wall boards!):

- 90 mm, or when using the adaptor kit: 95 mm
- Exception: H60B => 140 mm

On demand there are also available complete sets for wider and thicker doors. For two-leafed sliding doors you will need two complete sets and the joining kit for two-leafed doors.

Order Information

<table>
<thead>
<tr>
<th>Rail Sets</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete set for wall pockets</td>
<td>part no. see table</td>
</tr>
<tr>
<td>Joining kit for two-leafed doors</td>
<td>part no. 61-600</td>
</tr>
</tbody>
</table>
Mounting Examples for the DICTAMAT 50 KW

Due to its sophisticated construction the compact unit KW offers a lot of different installation possibilities. The following illustrations just show a small choice of the thinkable mounting options. With the help of the supporting bracket being available as accessories, it’s no problem to mount the DICTAMAT 50 KW directly above the frame of the rail set. That makes the mounting very easy. The drawings on the left and the very bottom show this variant and the corresponding dimensions.

**Mounting Example DICTAMAT 50 KW**

<table>
<thead>
<tr>
<th>DICTAMAT 50 KW</th>
<th>DICTAMAT 50 KW</th>
</tr>
</thead>
<tbody>
<tr>
<td>installed at the left, door closes to the left</td>
<td>installed at the right, door closes to the right</td>
</tr>
</tbody>
</table>

Rope runs in front of the rail

Rope runs in centre below the rail

**Dimensions of DICTAMAT 50 KW including the supporting bracket on the complete set for wall pockets**

All dimensions in mm
Spring rope pulleys are a simple, efficient and cost-effective closing device for sliding doors. During the opening of the door the spring is tensioned and then automatically pulls the sliding door back into the closed position.

The spring rope pulley is available with three different forces: 25 N, 50 N and 80 N.

The closing force can be adjusted by pretensioning the spring accordingly. However, pretensioning reduces the travel. Generally speaking: the higher the force of the spring rope pulley the shorter the travel. The closing speed, however, is not controlled when the spring rope pulley is the only closing device.

The casing of the spring rope pulley is of heat resistant plastics. Due to the guide grooves molded into the plastic casing the Kevlar rope is always coiled properly. This guarantees a very long operational life of the spring rope pulley.

Should the closing speed be controlled during the complete closing, we recommend to use the DICTAMAT 50 (see page 02.069.00 and following).

### Technical Data

<table>
<thead>
<tr>
<th>Material casing</th>
<th>flame retardant AQUAMID plastics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rope</td>
<td>flame retardant Kevlar rope with polyester coat</td>
</tr>
<tr>
<td></td>
<td>about Ø 2 mm, with cable eye stiffener (inner Ø about 5.5 mm)</td>
</tr>
<tr>
<td>Closing force</td>
<td>25 N, 50 N, 80 N, depending on the type</td>
</tr>
<tr>
<td>Material bracket</td>
<td>zinc-plated sheet steel or AISI 304 (only with sliding hub)</td>
</tr>
<tr>
<td>Models</td>
<td>for mounting on square bolt; fixing with bolt with square neck;</td>
</tr>
<tr>
<td></td>
<td>with bracket and integrated sliding hub</td>
</tr>
</tbody>
</table>
Models

There are available different models of the spring rope pulley from plastics, depending on the type of mounting and the handling comfort desired:

- **Spring rope pulley with inner square**
  for mounting on an 8 mm square bolt provided on site

- **Spring rope pulley with square on one side**
  to be mounted with a square necked mushroom head bolt DIN 603 M8

- **Spring rope pulley with sliding hub and bracket**
  It is highly recommended to use this model as due to the tensioning screw it is very easy to tension and if necessary to release the spring. The model without sliding hub can easily be damaged, e.g. by letting go the rope by accident. The sliding hub prevents this. Furthermore the bracket allows for an easy and fast mounting.

Models

<table>
<thead>
<tr>
<th>Model for 8 mm square bolt or M8 bolt with square neck</th>
<th>Model for the mounting with a bolt with square neck DIN 603 M8</th>
<th>Model for 8 mm square bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
</tr>
</tbody>
</table>

Spring rope pulley with sliding hub and bracket

All dimensions in mm
**Force-Travel-Diagram, Order Information**

The maximum possible travel of the respective spring force can be seen in the diagram below.

**Example:**
Spring rope pulley with 50 N spring, pretension 2 revolutions.

The final closing force of the spring rope pulley will be (when the door is closed) about 38 N, the maximum possible travel is 1.05 meters. If the spring rope pulley is pretensioned less you get a longer travel but the final closing force will be minor.

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**Force-Travel-Diagram**

![Force-Travel-Diagram](image)

**Order Information**

- Spring rope pulley 25 N for mounting on square bolt part no. 070110
- Spring rope pulley 50 N for mounting on square bolt part no. 070111
- Spring rope pulley 80 N for mounting on square bolt part no. 070112
- Spring rope pulley 25 N for bolt with square neck part no. 070101
- Spring rope pulley 50 N for bolt with square neck part no. 070091
- Spring rope pulley 80 N for bolt with square neck part no. 070092
- Spring rope pulley 25 N with sliding hub, bracket zinc-plated part no. 070102
- Spring rope pulley 50 N with sliding hub, bracket zinc-plated part no. 070093
- Spring rope pulley 80 N with sliding hub, bracket zinc-plated part no. 070094
- Spring rope pulley 25 N with sliding hub, bracket AISI 304 part no. 070103
- Spring rope pulley 50 N with sliding hub, bracket AISI 304 part no. 070098
- Spring rope pulley 80 N with sliding hub, bracket AISI 304 part no. 070099
Solutions for Sliding Doors
Spring Rope Pulley
Mechanical Timer
Adjustable Hold-Open Time for Sliding Door Closers

Comfortable operation of sliding doors, without power consumption, without electrical installations that often have to be controlled every year: no problem with the DICTATOR solutions for sliding doors.

Sliding doors that are equipped with the sliding door closer DICTAMAT 50 close as soon as they are let go. But if a door should stay open for a while, e.g. in hospitals to push a bed through, DICTATOR provides the mechanical timer which functions completely mechanically and without current.

The mechanical timer is mounted in the open position of the sliding door. It uses the same functional principle as the hydraulic door checks, but with the opposite outcome: a valve in the cylinder limits the flow rate of the oil. This determines the time after which the roller lever will again be turned down completely and isn’t retained by the hook anymore. The door can close.

The delay time is adjustable. The duration depends on the closing force of the mounted closing device.

### Technical Data

<table>
<thead>
<tr>
<th>Delay time</th>
<th>adjustable; duration depends on closing force of closing device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material casing</td>
<td>blue zinc-plated steel</td>
</tr>
<tr>
<td>Material bracket</td>
<td>stainless steel</td>
</tr>
<tr>
<td>Material hook</td>
<td>satin chromed aluminium</td>
</tr>
<tr>
<td>Possible closing devices</td>
<td>DICTAMAT 50, spring rope pulley, counter weight etc.</td>
</tr>
</tbody>
</table>
Solutions for Sliding Doors
Mechanical Timer

Mechanical Timer

Usually the mechanical timer is mounted with a mounting bracket on the lateral wall of the opening direction. The hook is fixed at the back of the door leaf in a way that the roller lever of the mechanical timer enters the hook during opening and is completely folded up when the door is open.

The duration of the delay is adjustable. The adjusting range depends in particular on the closing force of the spring rope pulley in the DICTAMAT 50, the counter weight or the like. The indications of the table below apply at an operating temperature of about 22 °C.

Mounting, Dimensions

Adjusting Range of Delay Time

Components Included

Order Information

Components Included

Order Information
Solutions for Sliding Doors
Release Buffer

DICTATOR Release Buffer for Sliding Doors in Wall Pockets

When opened many sliding doors disappear in so-called wall pockets. This is the optimum solution - if there wasn’t the problem of the door handle for closing the door no longer being accessible. But in case the door is not opened completely, precious width of the passage is lost. In the worst case, especially for barrier-free building this could require a broader, more expensive door.

The DICTATOR release buffer is a simple and reliable solution of this problem.

Usually the release buffer is mounted (invisible) in the opening edge of the door. When opening the door the magnet buffer on the piston rod hits a counter plate. This at the same time keeps the door in the open position. If you want to close the door, you just have to push lightly against its edge and the integrated spring will push the door out of the wall pocket that far that the handle is accessible again.

The release buffer is available with two different spring forces. Usually the model with 85 N will be sufficient. The stronger version should only be choosen if the door is not smooth-running, e.g. when a brush seal is mounted.

Technical Data

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Stroke</td>
<td>20 mm</td>
</tr>
<tr>
<td>Extension force</td>
<td>approx. 85 N / 130 N</td>
</tr>
<tr>
<td>Material tube</td>
<td>aluminium</td>
</tr>
<tr>
<td>Material counter plate, piston rod</td>
<td>zinc-plated steel</td>
</tr>
</tbody>
</table>
Mounting, Dimensions, Order Information

The release buffer is usually mounted in the opening edge of the door leaf. This requires an according boring in the door leaf. Unless it is a frame from steel the included counter plate has to be mounted as a counter part. It is needed for the magnet at the end of the piston rod that keeps the door safely in the open position.

In the wall pocket behind the opened door you only need a space of 25 mm for the release buffer.

Mounting

Dimensions

Components Included

- Release buffer with counter plate and fixing screws

Order Information

- Release buffer with 85 N extension force part no. 500260
- Release buffer with 130 N extension force part no. 500262