DICTATOR provides various accessories for sliding lift doors. There are:
- bi-directional hydraulic ZDH dampers
- Standard Haushahn door damper
- spring rope pulleys
- plastic rollers

The DICTATOR ZDH sliding door dampers are bi-directional hydraulic dampers for an impact speed up to 2.0 m/sec. A single damper fixed to the door will slow down and damp the door in the final stages of travel. This requires a mechanical buffer in both final positions.

All dampers of the ZDH range can be adjusted. This allows the door to be adjusted to an optimum function. On the following page you will find a selection of the most common types of double dampers used for lift sliding doors.

DICTATOR spring rope pulleys are used for the mechanical closing of sliding lift doors.

DICTATOR plastic rollers are to be found in the running gear of the sliding doors.

Summary

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ZDH Bi-Directional Dampers for Sliding Doors

Depending on the requirements we offer different types: with automatically extending piston rods, with the piston rods pushing/extending one another or with one piston rod extending automatically and one being pushed by the other.

To adjust dampers with stepped adjustment (ZR) you simply pull on the completely extended piston rod and turn it at the same time. Both sides can be adjusted separately. The adjustment screw for the dampers with adjustment screw (NR) is located right in the front of the piston rod. By turning the screw you can increase or reduce the damping force continuously.

Dimensions

![Image of ZDH Bi-Directional Dampers for Sliding Doors]

---|---|---|---|---|---|---
ZDH 50/50 BG | 50 | 137 | 297 | 28 | Adjustment screw | - | 210110
ZDH 50/50 a | 50 | 137 | 297 | 28 | Adjustment screw | - | 210000
ZDH 50/50 a/EG/P | 50 | 220 | 400 | 28 | Turn piston rod (ZR) | Rathgeber | 203190
ZDH 60/80 a | 60/80 | 260 | 484 | 28 | Turn piston rod (ZR) | - | 210420*
ZDH 70/70 a/EG/P | 70 | 260 | 480 | 28 | Turn piston rod (ZR) | Rathgeber | 203191
ZDH 55/55 BG | 55 | 132 | 255 | 35 | Turn piston rod (ZR) one-piece piston rod | Rathgeber | 203195**
ZDH 120 BG | 120 | 208 | 408 | 28 | Turn piston rod one-piece piston rod | Stahl width up to 1300 mm | 203162

Key:
- a: automatically extending piston rod
- a/EG: one piston rod extending automatically, one piston rod pushed outwards by the other
- BG: piston rods move each other to the outside
- P: progressive damping

* height of the buffer with stepped adjustment (ZR) 25 mm
** height of the buffer with adjustment screw 15 mm
Standard Haushahn for Sliding Lift Doors

The Standard Haushahn door damper is used in Haushahn lift doors. Depending on the position of the vertical lateral fixing bracket this model is designed for sliding lift doors closing to the right or left.

Due to its conical damping cylinder the door damper has a progressive damping characteristic, thus damping and closing the door smoothly and quietly. It guarantees that the door is closed and kept closed even in strong draughts, thus making the door contacts work reliably with minimum wear. The special silicone oil is nearly unaffected by temperature changes and ensures the damping remains constant.

Dimensions

All dimensions in mm

Part no. 203006
Part no. 203026

Installation

The Standard Haushahn door damper is fixed to the front of the sliding door. Its bracket is screwed laterally to the door with two M6 screws.

The damping can precisely be adjusted as required, following the instructions on page 01.020.00.

Order Information

Standard Haushahn, 20 N, bracket on left (door closing to the left) part no. 203006
Standard Haushahn, 20 N, bracket on right (closing to the right) part no. 203026
Accessories for Sliding Doors

DICTATOR Spring Rope Pulleys for Sliding Doors

According to the EN 81-1/2, point 7.7.3.2, all landing doors driven by the car door have to be equipped with an additional mechanical closing device. An ideal solution represent the new models of the DICTATOR spring rope pulley with plastic casing. Due to the guide grooves for the plastic cable injected in the casing and an optimized bearing of the spring in the casing, they offer a very long operational life and an optimum functioning. Using a plastic casing and a plastic cable also considerably reduces the noise.

The plastic spring rope pulleys are available with different hubs, depending on the intended type of mounting and the requested handling comfort.

- Hub for mounting on an 8 mm square bolt or with a M8 bolt with square neck DIN 603 (both to be provided on site). For this model a mounting bracket is available, part no. 0700113, see drawing below.
- Sliding hub: this prevents the possible damaging of the spring during tensioning or releasing. The spring rope pulley with sliding hub is always provided with a bracket (zinc-plated or AISI 304). Mounting on the wall or ceiling is much more easier when fixing the bracket to the separately available mounting plate with headless pins.

Models

Dimensions

<table>
<thead>
<tr>
<th>Model with inner square</th>
<th>Spring rope pulley (without mounting bracket = delivery status)</th>
<th>Spring rope pulley with mounting bracket (not included)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model with sliding hub and bracket</td>
<td><img src="image" alt="Model with sliding hub and bracket" /></td>
<td><img src="image" alt="Spring rope pulley with mounting bracket" /></td>
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</tbody>
</table>

All dimensions in mm

Additional mounting plate for model with sliding hub

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Tel. +49(0)821-24673-0 • Fax +49(0)821-24673-90 • E-mail info@dictator.de • 1097
For an optimum functioning of the spring rope pulley the door has to be as smooth-running that the force of the mounted spring rope pulley is sufficient to move the door from every position. If you are unsure, we recommend you measure the force required to move the door with a spring balance.

As a general rule applies, the higher the force of the spring rope pulley, i.e. the more it is pretensioned, the shorter is the working distance.

**Force-Travel Diagram**

**Technical Data**

- **Material casing**: flame retardant DOMAMID plastics
- **Rope**: flame retardant Kevlar rope with polyester coat about Ø 2 mm, with cable eye stiffener (inner Ø about 5.5 mm)
- **Closing force**: 25 N - 80 N, depending on type

**Order Information**

- 25 N spring rope pulley with inner square, zinc-plated part no. 070110
- 50 N spring rope pulley with inner square, zinc-plated part no. 070111
- 80 N spring rope pulley with inner square, zinc-plated part no. 070112
- Mounting bracket for spring rope pulley with inner square, zinc-plated part no. 070113
- 25 N spring rope pulley with sliding hub, bracket zinc-plated part no. 070102
- 50 N spring rope pulley with sliding hub, bracket zinc-plated part no. 070093
- 80 N spring rope pulley with sliding hub, bracket zinc-plated part no. 070094
- 25 N spring rope pulley with sliding hub, bracket from AISI 304 part no. 070103
- 50 N spring rope pulley with sliding hub, bracket from AISI 304 part no. 070098
- 80 N spring rope pulley with sliding hub, bracket from AISI 304 part no. 070099
- Mounting plate for spring rope pulley with sliding hub, zinc-plated part no. 070114
DICTATOR Plastic Rollers for Sliding Doors

DICTATOR plastic rollers for sliding doors are produced with an integrated ball bearing. They are available in different diameters and grooves.

The drawings below show part of the DICTATOR plastic roller standard programme.

**Dimensions**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Diameter</th>
<th>Groove</th>
</tr>
</thead>
<tbody>
<tr>
<td>060010</td>
<td>ø 70</td>
<td>06002Z</td>
</tr>
<tr>
<td>060020</td>
<td>ø 95</td>
<td>6303-2Z</td>
</tr>
<tr>
<td>060030</td>
<td>ø 64</td>
<td>6201-2Z</td>
</tr>
<tr>
<td>060060</td>
<td>ø 70</td>
<td>6200-2Z</td>
</tr>
</tbody>
</table>

**Order Information**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Rollers</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø 70</td>
<td>Plastic</td>
<td>060010</td>
</tr>
<tr>
<td>ø 85</td>
<td>Plastic</td>
<td>060020</td>
</tr>
<tr>
<td>ø 64</td>
<td>Plastic</td>
<td>060030</td>
</tr>
<tr>
<td>ø 70</td>
<td>Plastic</td>
<td>060060</td>
</tr>
</tbody>
</table>