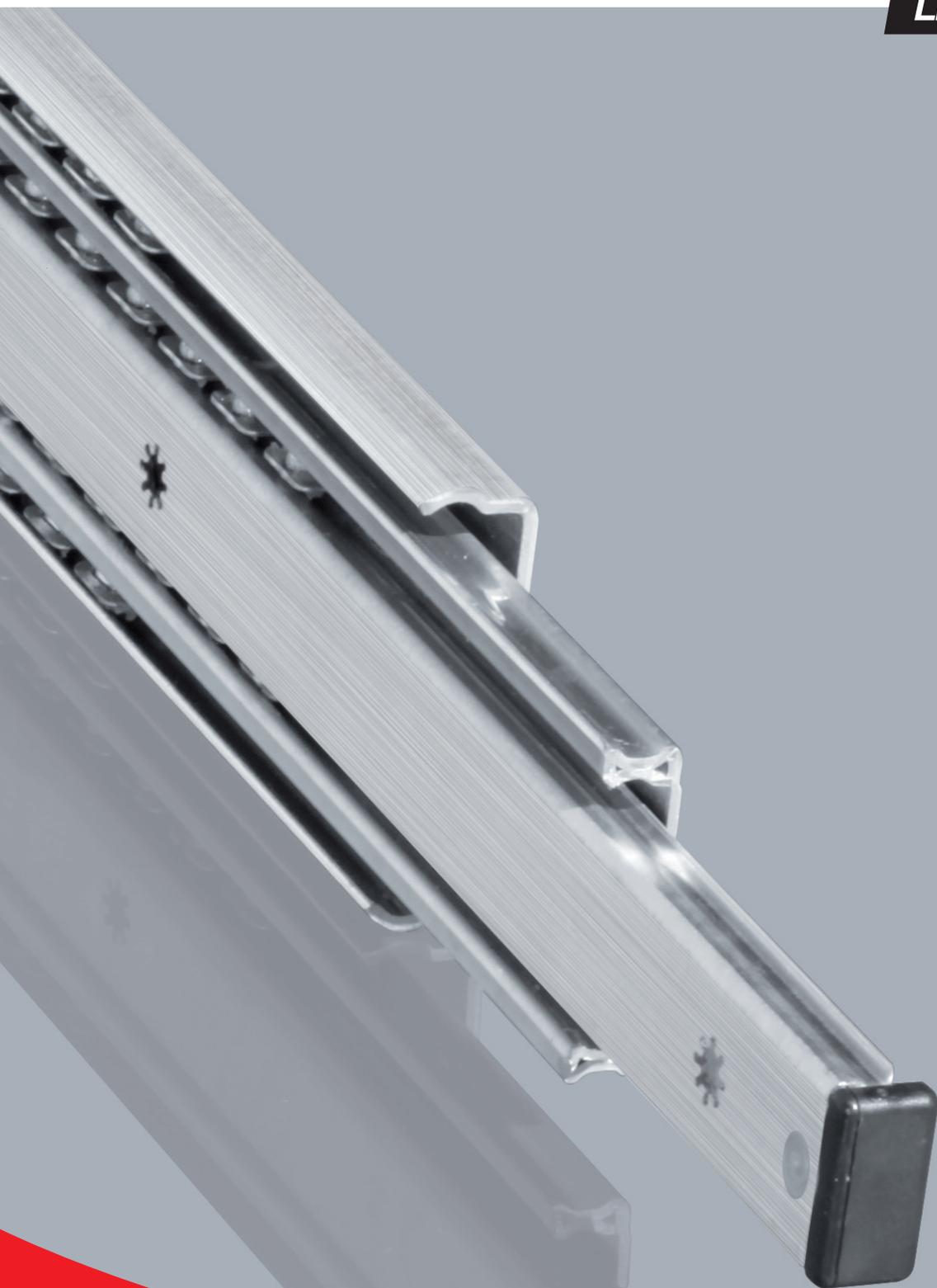


ROLLON[®]

Linear Evolution

Light Rail



When you move. We move.

Rollon S.p.A. was founded in 1975 as a manufacturer of linear motion components. Today Rollon group is a leading name in the design, production, and sale of linear rails, telescopic rails, and actuators, with headquarters based in Italy and offices and distributors located throughout the world. Rollon products are used in many industries, providing creative and efficient solutions in a wide variety of applications.

Rollon solutions for linear motion

Linear Line



Telescopic Line



Actuator Line



Actuator System Line



Linear Rails

- Rails with roller bearings
- Rails with caged ball bearings
- Rails with recirculating ball bearing

Telescopic Rails

- Rails with partial/total extension
- Heavy duty rails
- Rails for automated and manual applications

Actuators

- Belt driven actuators
- Ball screw driven actuators
- Rack and pinion actuators

Solutions for industrial automation

- Multi-axis for pick and place
- Telescopic actuators
- Seventh axis for robots
- Solutions for metal sheet handling

Core Competencies

- > Full range of linear rails, telescopic rails and actuators
- > Worldwide presence with branches and distributors
- > Fast delivery all over the world
- > Large technical know-how for applications



> Standard solutions

Wide range of products and sizes
Linear rails with roller and caged ball bearings
Heavy duty telescopic rails
Belt or ball screw driven linear actuators
Multi-axis systems



> Collaboration

International know-how in several industries
Project consultancy
Maximizing performance and cost optimization



> Customization

Special products
Research and development of new solutions
Technologies dedicated to different sectors
Optimal surface treatment

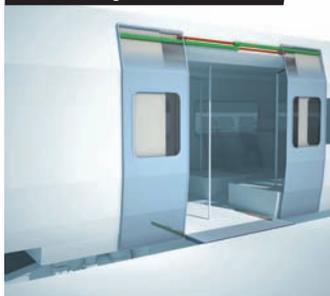


Applications

Aerospace



Railway



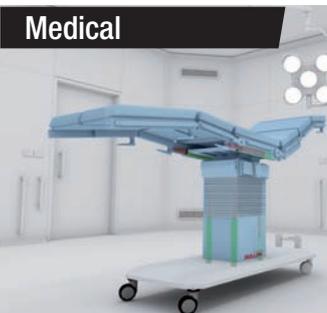
Logistics



Industrial Machines



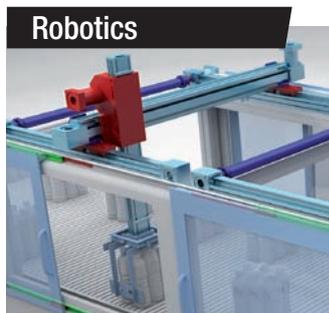
Medical



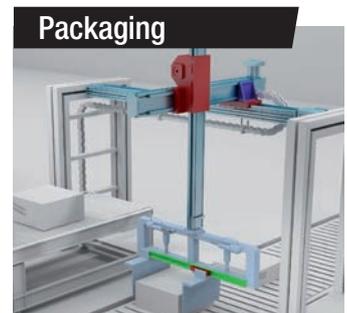
Specialty Vehicles



Robotics



Packaging



> **Telescopic Rail**



Technical features overview

1 Product explanation

Telescopic Rail: Seven models with full and partial extension

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2 Technical data

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4 Technical instructions

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► Opti Rail



1 Product explanation

Fully extending telescopic rails for manual movement

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OR-8

LTH45 KF

OR-9

LTH45S

OR-10

LTF44

OR-11

4 Technical instructions

Load capacity, Extension and extraction force

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Anticorrosive protection, Temperature,

Lubrication, Installation instructions

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Ordering key

Ordering key with explanations

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► Light Rail



1 Product explanation

Light telescopic rails, with full or partial extension

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Performance characteristics and notes

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DRX/DRS, Fixing screws

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Load capacities

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Speed, Temperature, Lubrication, Corrosion protection

LR-13

Installation instructions, DRX/DRS installation

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Ordering key with explanations

LR-15

Guides suitable for all applications

Technical features overview



| Reference | | Section | Profile | | Self alignment | Extension | Slider | | Anticorrosion | |
|-----------------|-----------|---------|---------|-------------------|----------------|-----------|--------|---------|---------------|---|
| Family | Product | | Type | Hardened raceways | | | Balls | Rollers | | |
| Telescopic Rail | | ASN | | Cold Drawn | √ | + | 50% | | | |
| | | DE | | Cold Drawn | √ | ++ | 100% | | | |
| | | DS | | Cold Drawn | √ | ++ | 100% | | | |
| | | DSE | | Cold Drawn | √ | ++ | 150% | | | |
| | | DSC | | Cold Drawn | √ | ++ | 100% | | | |
| | | DBN | | Cold Drawn | √ | ++ | 100% | | | |
| | | DMS | | Cold Drawn | √ | ++ | 100% | | | |
| | | DRT | | Cold Drawn | √ | + | 100% | | | |
| | Opti Rail | | LTH | | Cold Drawn | | ++ | 100% | | |
| | | LTF | | Cold Drawn | | ++ | 100% | | | |
| Light Rail | | LPS | | Formed Sheetmetal | | ++ | 50% | | | |
| | | LFS | | Formed Sheetmetal | | ++ | 100% | | | |
| | | LFX | | Formed Sheetmetal | | ++ | 100% | | | <i>Available in stainless steel</i> |
| | | DRX/DRS | | Formed Sheetmetal | | ++ | 100% | | | <i>Available in stainless steel</i> |

The information shown must be verified for the specific application.
For a complete view of technical data, please consult our catalogs on www.rollon.com

* The maximum value is defined by the application.

** Different anti-corrosion treatments are available. For more information, please contact Rollon.

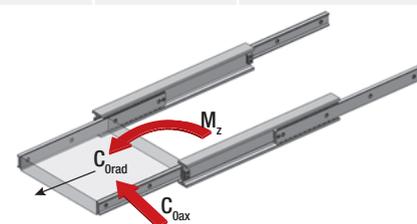
*** For more information, please contact Rollon.

| Size | Max. load capacity per guida [N] | | Max. dynamic load capacity [N] C 100 | Max. stroke [mm] | Max. rail length [mm] | Max. extension speed [m/s] | Rigidity (deflection) | Operating temperature |
|----------------|----------------------------------|-------------------|--------------------------------------|------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| | C ₀ rad | C ₀ ax | | | | | | |
| 22-28-35-43-63 | 44247 | 30973 | 61688 | 1013 | 1970 | 0,8 | +++ | -20°C/+170°C |
| 22-28-35-43-63 | 7198 | 3062 | 26338 | 2026 | 1970 | 0,8 | +++ | -20°C/+170°C |
| 28-35-43-63 | 12832 | | 14483 | 2026 | 1970 | 0,8 | ++++ | -20°C/+110°C |
| 28-35-43-63 | 5672 | | 16063 | 3039 | 1970 | 0,8 | ++++ | -20°C/+110°C |
| 43 | 5529 | 2075 | 14885 | 2028 | 1970 | 0,8 | +++ | -20°C/+110°C |
| 22-28-35-43 | 1331 | 1279 | 14483 | 2026 | 1970 | 0,8 | + | -20°C/+170°C |
| 63 | 19812 | | 30595 | 2266 | 2210 | 0,8 | ++++ | -20°C/+110°C |
| 43 | 2860 | | 6053 | 1980 | 1970 | 0,8 | +++ | -20°C/+110°C |
| 30-45 | 1673 | | *** | 1522 | 1500 | 0,3 | ++ | -20°C/+170°C |
| 44 | 648 | | 1000 | 1010 | 1000 | 0,3 | + | -20°C/+170°C |
| 38 | 175 | 50 | *** | 373 | 473 | 0,5 | + | +10°C/+40°C |
| 46-57-58-70 | 650 | 115 | *** | 1100 | 1100 | 0,5 | + | +10°C/+40°C |
| 27 | 350 | 50 | *** | 576 | 550 | 0,5 | + | -30°C/+200°C |
| 30 | 360 | | *** | 1120 | 1040 | 0,8 | + | -20°C/+100°C |

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Product explanation



> Light telescopic rails, with full or partial extension



Fig. 1

The Light Rail product family consists of five series with full and partial extensions in a lightweight design. It is ideal for applications in which the mass of the rail is just as important as the bending rigidity.

The most important characteristics:

- Light and quiet running with heavy loads
- Long service life without maintenance
- Effective self-cleaning of the ball track
- High functional reliability
- Structural elasticity capable of absorbing minor impacts and absence of permanent deformation
- Not sensitive to side impacts

Preferred areas of application:

- Beverage industry
- Automotive
- Construction and machine technology (e.g., housing)
- Packaging machines
- Railcars (e. g., maintenance and battery extensions)
- Special machines

LPS 38

Partial extension with rails made of hot-dipped galvanized steel and plastic ball cages.



Fig. 2

LFS 46

Detachable internal rail which can be released with a latch. Rails are made of bright chrome-plated steel, the ball cages of steel and plastic. Roll back protection in closed position.



Fig. 3

LFS 57

Full extension with rails made of hot-dipped galvanized steel and zinc-plated steel ball cages. Roll back protection in closed position.



Fig. 4

LFS 58 SC

Full extension with automatic retraction and damping. The automatic retraction system is assisted by a spring-loaded mechanism that allows the rail to get back to a complete retraction before reaching the closed position.



Fig. 5

LFS 70

Full extension with rails made of zinc-plated galvanized and blue passivated steel. The ball cages are made of zinc-plated steel. Heavy load end stop in opened and closed position. Roll back protection in closed position.



Fig. 6

LFX 27

The stainless steel full extension consists of two inner guide rails that, connected to a double-T profile, form the intermediate element and two outer rails that form the connection to the connecting construction as fixed and moving element. The square cross-section allows a compact design of high load ratings and low deflection.



Fig. 7

DRX-DRS

Roller type telescopic rail made of stainless or galvanized steel. Corrosion resistant even if scratched, exposed to solvents or to shocks.



Fig. 8

Technical data

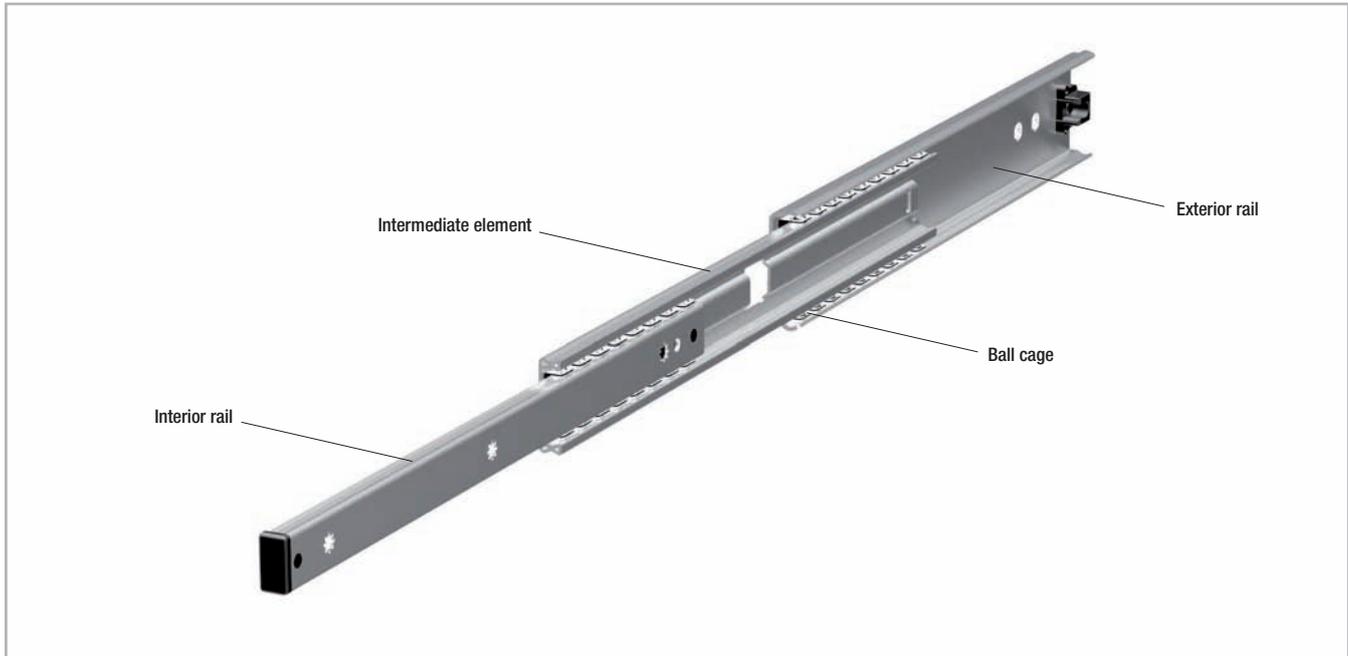


Fig. 9

Performance characteristics:

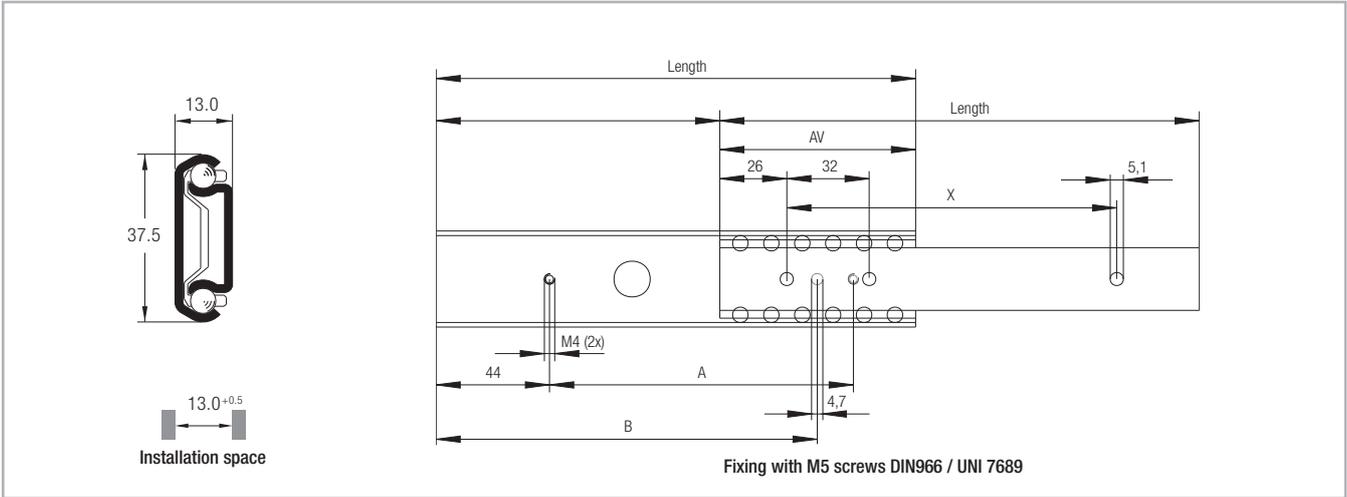
- Extension speed (depending on application):
 - Extension distance 100 - 500 mm: max. 0.5 m/s (19.69 in/s)
 - Extension distance 600 mm: max. 0.4 m/s (15.75 in/s)
 - Extension distance 700 mm: max. 0.3 m/s (11.81 in/s)
- LFS 58 SC series with automatic retraction
- Temperature range: from +10 °C to +40 °C, for DRX/DRS from -20° to + 100° C, for LFX from -30° to +200° C. Temporary storage and transport temperature: -20 °C to max. +80 °C (-4 °F to +176 °F)
- All systems are lubricated for life
- LFS/LPS rail material: hot galvanized or chromed steel
- LFS/LPS ball bearing cage material: galvanized steel or plastic
- LFS/LPS ball bearing material: hardened carbon steel
- LFX rail, balls and cage material: stainless steel 1.4301
- DRX rail material: stainless steel AISI 316L
- DRS rail material: galvanized steel ISO 2081 compliant

Remarks:

- Assembly in cross-sectional width, here a positive tolerance of +0.5 mm is recommended (mounted under tension). If the extensions are installed with too small a tolerance, the service life is decreased
- Load capacity is per single rail (not per pair)
- Cycle data applies to the use of an extension pair (recommended)
- Vertical use of extensions (radial load) is recommended
- If mounted in a horizontal position, the load capacity will be reduced (see p. LR-12)
- Cathodic edge protection, additional corrosion protection with powder coating on request
- Roll back protection in closed position is friction locked (except LPS 38)
- Not suitable for moments – must be used as extension pair

Dimensions and load capacity

> LPS 38



All dimensions given in mm

Fig. 10

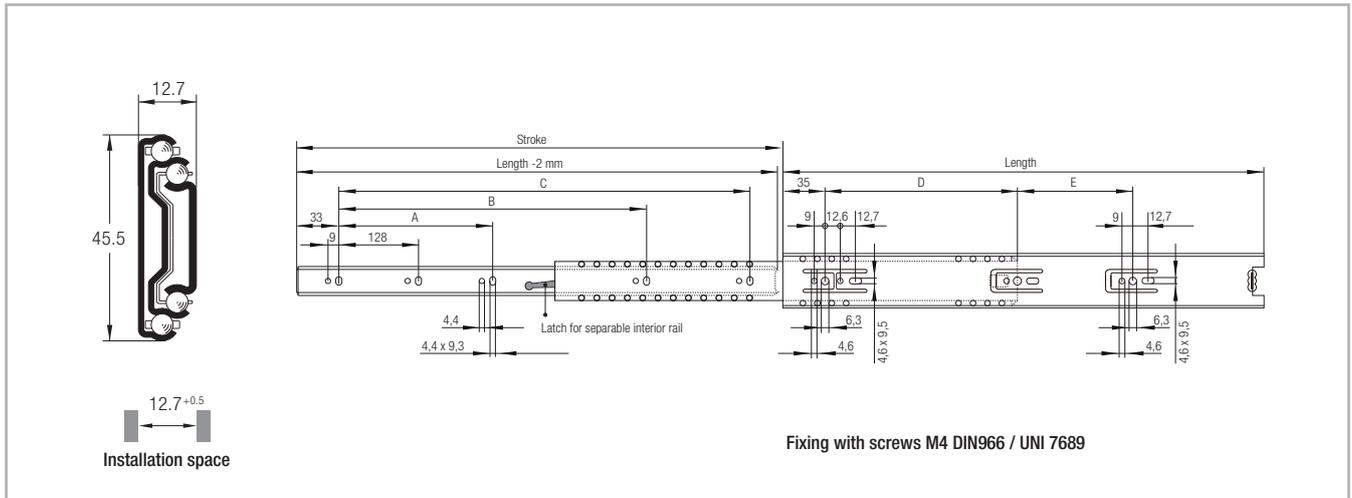
| Type | Size | Length [mm] | Extension loss AV [mm] | Stroke* [mm] | A [mm] | B [mm] | X [mm] | Load capacity** C _{0rad} [N] | Load capacity** C _{0ax} [N] | Weight** [kg] |
|------|------|----------------|------------------------------|-----------------|-----------|-----------|-----------|---|--|------------------|
| LPS | 38 | 242 | 88 | 154 | 166 | 202 | 192 | 175 | 50 | 0.30 |
| | | 317 | | 229 | 241 | 277 | 256 | | | 0.40 |
| | | 398 | 100 | 298 | 322 | 358 | 352 | | | 0.50 |
| | | 473 | | 373 | 397 | 433 | 416 | | | 0.60 |

* The stroke is the difference of the length and the extension loss AV
 ** The given load capacities and weights apply for a single extension

Tab. 1

Note: The given load capacities are guidelines with 100,000 cycles and uniform load distribution (area load) when using all mounting holes. The load values must be reduced in unfavorable conditions.

> LFS 46



All dimensions given in mm

Fig. 11

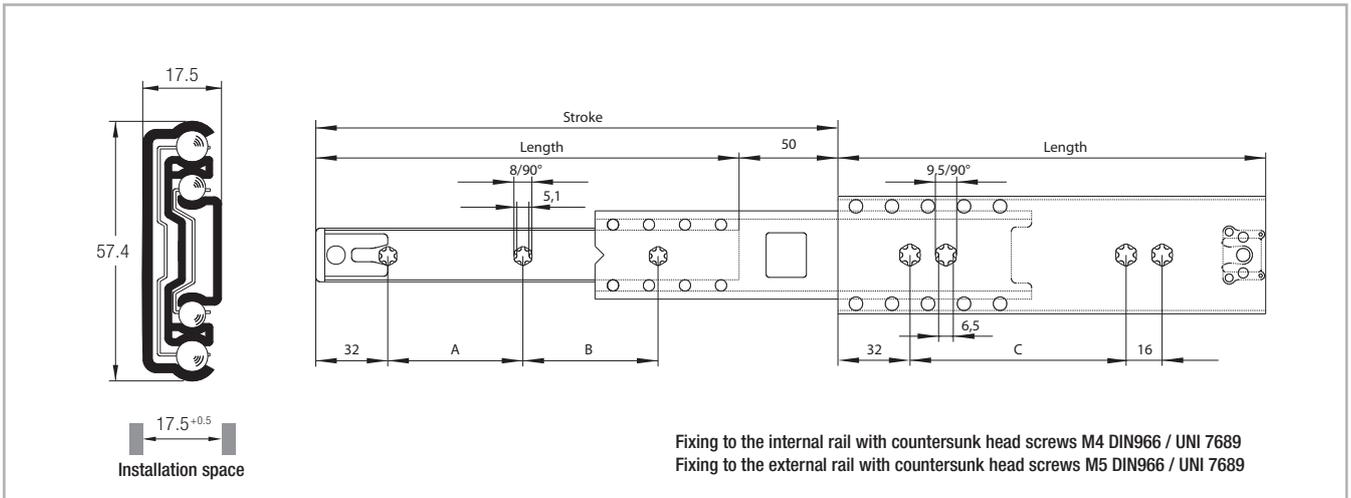
| Type | Size | Length | Stroke | A | B | C | D | E | Load capacity* | Load capacity* | Weight* |
|------|------|--------|--------|------|------|------|------|------|----------------|----------------|---------|
| | | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | C_{Grad} [N] | C_{Oax} [N] | [kg] |
| LFS | 46 | 300 | 305 | - | - | 242 | 192 | - | 150 | 50 | 0,48 |
| | | 350 | 356 | - | - | 292 | 256 | - | 150 | | 0,505 |
| | | 400 | 406 | - | - | 342 | 160 | 96 | 175 | | 0,64 |
| | | 450 | 457 | - | 256 | 392 | | 160 | | | 0,71 |
| | | 500 | 508 | - | 352 | 442 | 224 | 128 | 200 | | 0,79 |
| | | 550 | 559 | 224 | 416 | 492 | | 192 | | | 0,88 |
| | | 600 | 610 | | | 542 | | 224 | | | 0,95 |

* The given load capacities and weights apply for a single extension

Tab. 2

Note: The given load capacities are guidelines with 50,000 cycles and uniform load distribution (area load) when using all mounting holes. The load values must be reduced in unfavorable conditions.

> LFS 57



All dimensions given in mm

Fig. 12

| Type | Size | Length | Stroke* | A | B | C | Load capacity** | | Weight** [kg] |
|------|------|--------|---------|------|------|------|-------------------|------------------|------------------|
| | | [mm] | [mm] | [mm] | [mm] | [mm] | C_{0rad} [N] | C_{0ax} [N] | |
| LFS | 57 | 300 | 350 | 128 | 104 | 256 | 375 | 80 | 0.84 |
| | | 350 | 400 | | 152 | | | | 0.98 |
| | | 400 | 450 | 160 | 168 | 384 | 400 | 1.13 | |
| | | 450 | 500 | | 224 | | | 1.27 | |
| | | 500 | 550 | 224 | 208 | 384 | 400 | 1.42 | |
| | | 550 | 600 | | 256 | | | 1.57 | |
| | | 600 | 650 | 288 | 240 | 384 | 400 | 1.71 | |
| | | 650 | 700 | | 288 | | | 1.86 | |
| | | 700 | 750 | 320 | 312 | 384 | 400 | 2.01 | |
| | | 750 | 800 | | 360 | | | 2.16 | |

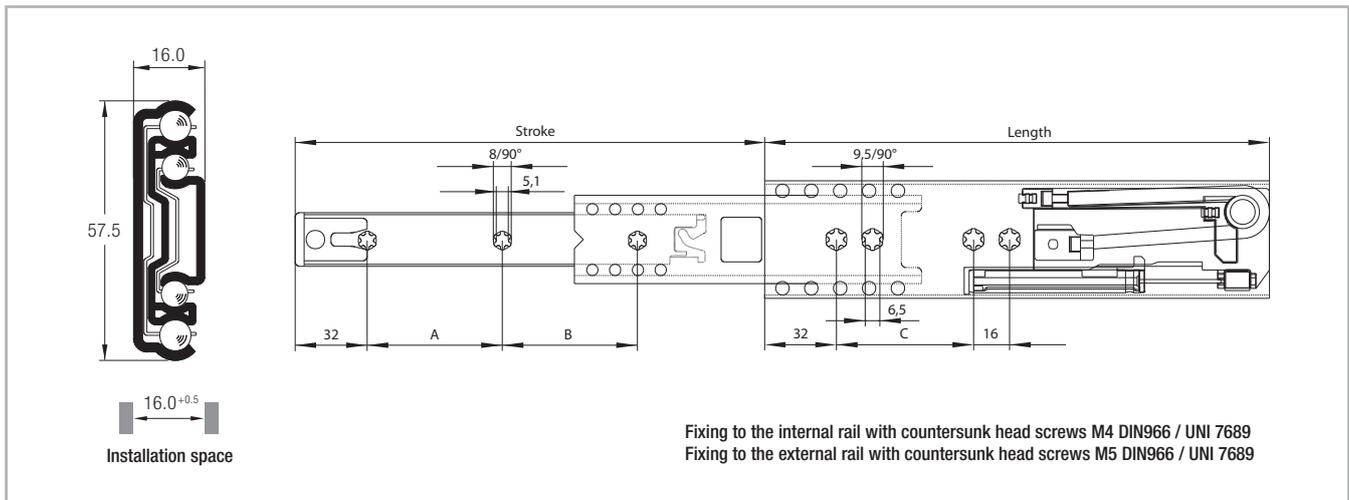
* The stroke is the sum of the length and the over extension

** The given load capacities and weights apply for a single extension

Tab. 3

Note: The given load capacities are guidelines with 100,000 cycles and uniform load distribution (area load) when using all mounting holes. The load values must be reduced in unfavorable conditions.

> LFS 58 SC



All dimensions given in mm

Fig. 13

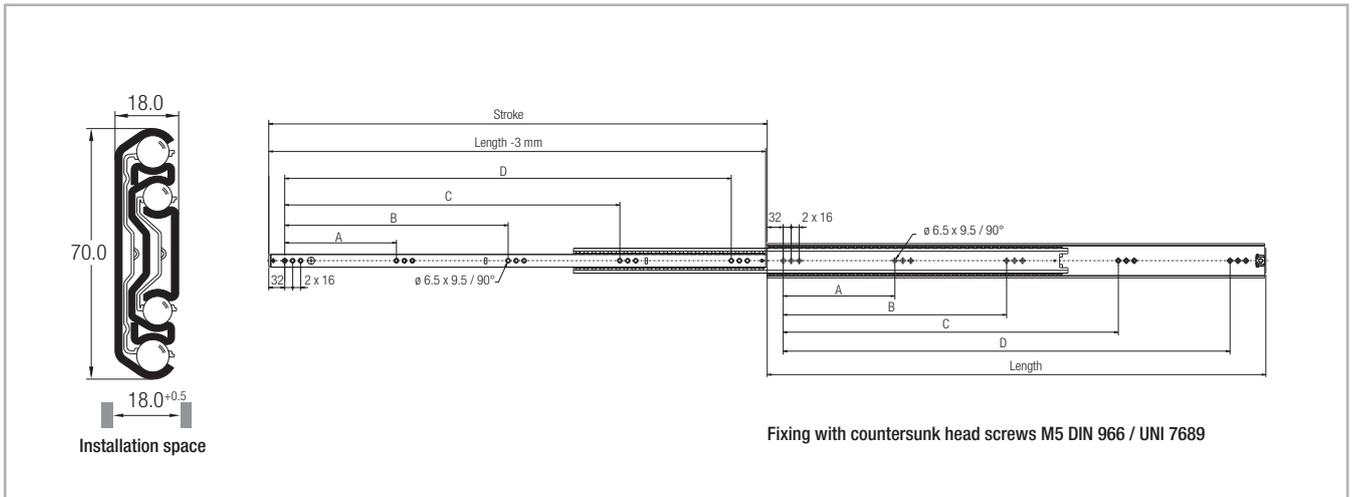
| Type | Size | Length | Stroke | A | B | C | Load capacity* | Weight* |
|------|------|--------|--------|------|------|------|----------------|---------|
| | | [mm] | [mm] | [mm] | [mm] | [mm] | C_{Drad} [N] | [kg] |
| LFS | 58 | 400 | 434 | 128 | 128 | 224 | 200 | 1.10 |
| | | 450 | 484 | 160 | 160 | 256 | 250 | 1.25 |
| | | 500 | 534 | | | | 275 | 1.40 |
| | | 550 | 584 | 192 | 320 | 300 | 1.55 | |

* The given load capacities and weights apply for a single extension

Tab. 4

Note: The given load capacities are guidelines with 100,000 cycles and uniform load distribution (area load) when using all mounting holes. The load values must be reduced in unfavorable conditions. Horizontal installation is not possible due to the damping system. The damping effect is reduced for loads of 450 N and higher per extension pair.

> LFS 70



All dimensions given in mm

Fig. 14

| Type | Size | Length | Stroke | A | B | C | D | Load capacity* | | Weight* | |
|------|------|--------|--------|------|------|------|------|-------------------|------------------|---------|------|
| | | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | C_{Orad} [N] | C_{Oax} [N] | | |
| LFS | 70 | 400 | 400 | - | - | - | 288 | 525 | 900** | 150 | 1,55 |
| | | 450 | 450 | - | - | 160 | 320 | 575 | 950** | | 1,74 |
| | | 500 | 500 | - | - | 192 | 384 | 650 | 975** | | 1,94 |
| | | 550 | 550 | - | - | 224 | 448 | | 1000** | | 2,13 |
| | | 600 | 600 | - | - | | | | 975** | | 2,32 |
| | | 700 | 700 | - | 192 | 384 | 576 | 875** | 2,70 | | |
| | | 800 | 800 | - | 224 | 448 | 672 | 600 | 725** | | 3,10 |
| | | 1100 | 1100 | 224 | 448 | 672 | 896 | 450 | 525** | 100 | 4,25 |

* The given load capacities and weights apply for a single extension
 ** 10.000 cycles

Tab. 5

Note: The given load capacities are guidelines with 100.000 cycles and uniform load distribution (area load) when using all mounting holes. The load values must be reduced in unfavorable conditions.

> LFX 27

Stainless steel telescopic guide

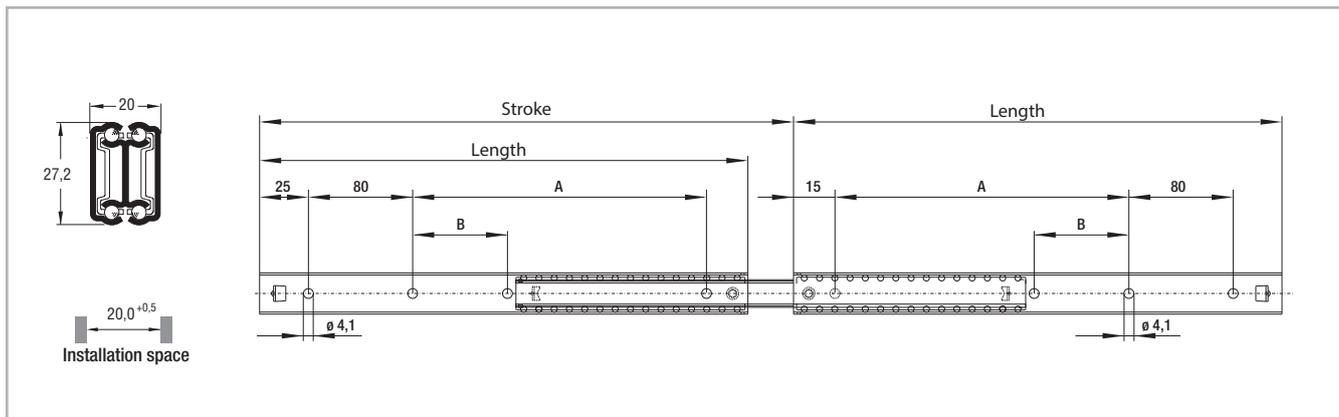


Fig. 15

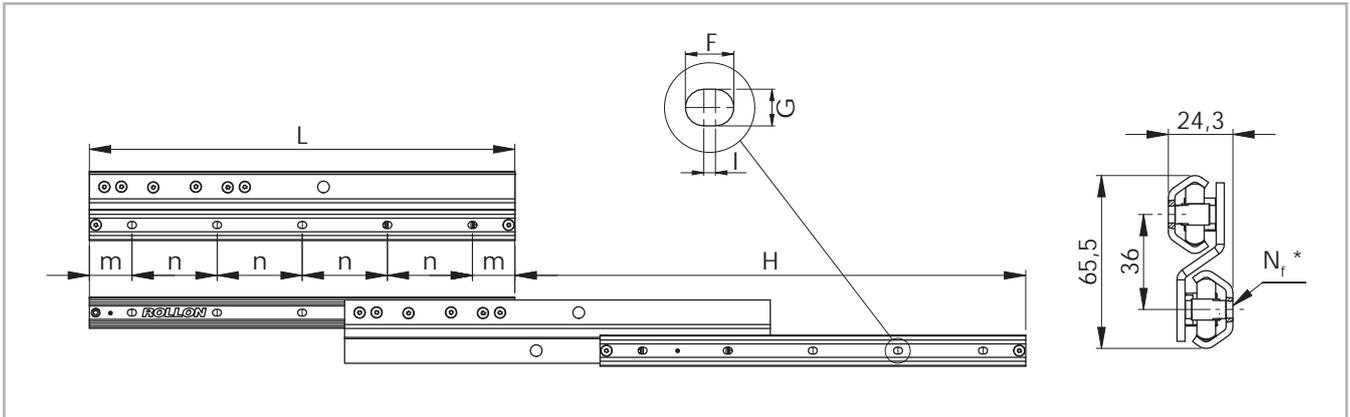
| Type | Size | Length [mm] | Stroke [mm] | A [mm] | B [mm] | Load capacity* [N] | | | | Weight* [kg] |
|------|------|----------------|----------------|-----------|-----------|-----------------------|-----------|-------------------|-----------|-----------------|
| | | | | | | to 10.000 cycles | | to 100.000 cycles | | |
| | | | | | | C_{0rad} | C_{0ax} | C_{0rad} | C_{0ax} | |
| LFX | 27 | 300 | 326 | 180 | - | 175 | 25 | 125 | 25 | 0,43 |
| | | 350 | 376 | 230 | 70 | | | | | 0,49 |
| | | 400 | 426 | 280 | 100 | | | | | 0,57 |
| | | 450 | 476 | 330 | 100 | | | | | 0,64 |
| | | 500 | 526 | 380 | 140 | | | | | 0,72 |
| | | 550 | 576 | 430 | 160 | | | | | 0,76 |

* The given load capacities and weights apply for a single extension

Tab. 6

> DRX/DRS

DRX version in stainless steel



* Number of mounting holes

Fig. 16

| Type | Size | Length L [mm] | Stroke H [mm] | Load capacity* C _{0rad} [N] | Fixed and movable rail | | | | | | | |
|------------|------|---------------|---------------|--------------------------------------|------------------------|--------|--------------------------|------------------|---------------|--------|--------|--------|
| | | | | | m [mm] | n [mm] | N _f [2 rails] | Holes for screws | Weight [kg/m] | F [mm] | G [mm] | I [mm] |
| DRX DRS | 30 | 400 | 480 | 150 | 40 | 80 | 10 | M5 | 3.40 | 8,4 | 6,4 | 2 |
| | | 480 | 560 | 200 | | | 12 | | | | | |
| | | 560 | 640 | 240 | | | 14 | | | | | |
| | | 640 | 720 | 280 | | | 16 | | | | | |
| | | 720 | 800 | 320 | | | 18 | | | | | |
| | | 800 | 880 | 360 | | | 20 | | | | | |
| | | 880 | 960 | 350 | | | 22 | | | | | |
| | | 960 | 1040 | 310 | | | 24 | | | | | |
| | | 1040 | 1120 | 250 | | | 26 | | | | | |

* The given load capacities and weights apply for a single extension

Tab. 7

> Fixing screws

We recommend fixing screws according to ISO 7380 with low head height or TORX® screws (see fig. 17) on request.

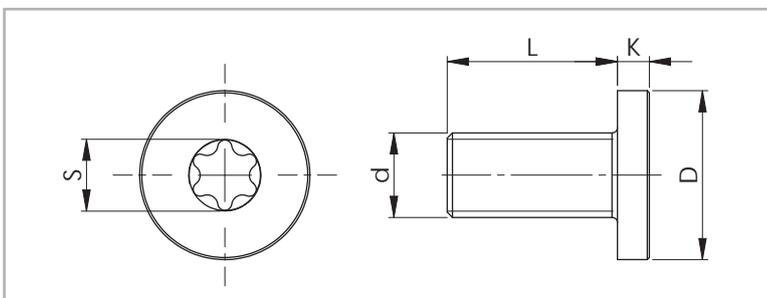


Fig. 17

| Rail size | Screw type | d | D [mm] | L [mm] | K [mm] | S | Tightening torque [Nm] |
|-----------|------------|----------|--------|--------|--------|-----|------------------------|
| 30 | M5 x 10 | M5 x 0.8 | 10 | 10 | 2 | T25 | 9 |

Tab. 8

Technical instructions



> Load capacities

Vertical installation (radial load)

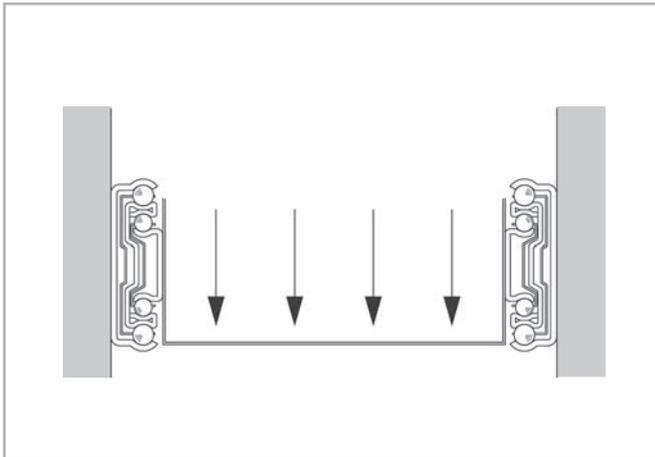


Fig. 18

The given loading capacities are guidelines for an extension rail vertically mounted with uniform load distribution using all mounting holes. The load values must be reduced in unfavorable conditions.

Horizontal installation (axial load)

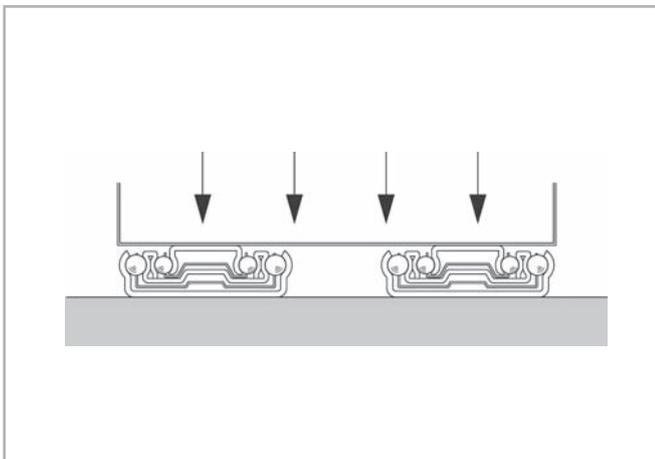


Fig. 19

For horizontal mounted extensions the load capacity is reduced (see pg. LR-5ff). The DRS/DRX series is not suitable for use on horizontal mounting (axial loads)

> Speed

The extension speed is determined by the size of the intermediate elements. Therefore, the maximum extension speed is inversely proportional to the overall extension of the rails (see fig. 20). The maximum extension speed is also directly related to the applied load and operating time. The indicated data refers to continuous operation at the maximum load capacity.

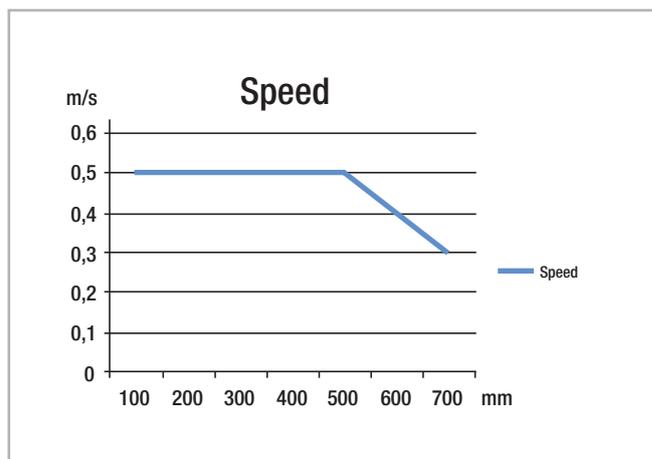


Fig. 20

> Temperature

Continual operating temperature of the Light Rail extensions is +10 °C to +40 °C. Temporary storage and transport temperature: -20 °C to max. +80 °C. The operating temperature for the DRX/DRS rails ranges from -20 °C to +100 °C. For more information please contact Rollon technical support.

> Lubrication

All extensions of the Light Rail product family are lubricated for life. Different lubricants for special applications are available upon request. Example: Lubricant with FDA approval for use in the food industry. For more information please contact Rollon technical support.

> Corrosion protection

Base material for the Light Rail product family is cold-rolled, hot-dipped galvanized steel. The cathodic edge protection offers a perfect combination of quality and cost-efficiency. The surface protection conforms to RoHS. The DRX/DRS series rails are also available in the stainless steel version for a high corrosion resistance. For more information please contact Rollon technical support.

> Installation instructions

- The existing internal stops are not designed to stop the moving load. They are only supposed to retain the ball-cage and prevent the internal parts to slide out of the assembly. An external end-stop must always be installed to stop the moving load.
- To achieve optimum running properties, high service life and rigidity, it is necessary to fix the Light Rail extensions with all accessible holes on a rigid and level surface. When using an extension pair, please observe the parallelism of the installation surfaces. The fixed and movable rails will assume the rigidity of the mounting structure.
- Light Rail full and partial extensions are suitable for use in automatic systems. For this, the stroke should remain constant in all moving cycles and the extension speed must be checked (see pg. LR-13, fig.20). The movement of the extensions is enabled by internal ball cages, which could experience an offset from the original position with differing strokes. This phase offset can have a negative effect on the running properties or limit the stroke. If differing strokes occur in an application, the drive force must be sufficiently dimensioned in order to appropriately synchronize the ball cage offset. As an alternative, an extra full stroke cycle can be performed every certain number of cycles, in order to re-phase the ball cage in its correct position.

Horizontally installed guides

Horizontally installed extensions can support tension or compression loads (see figs. 21 and 22).

For the horizontal mounting of extensions with compression loads, please take the following conditions into account: The Hertzian stress of the balls is no longer effective due to the expansion of the rail profile; the nominal tension tolerance of +0.5 mm is eliminated due to the installation confi-

guration. Both the above mentioned conditions contribute to a significant reduction of the axial load capacity.

Horizontally-mounted rails (axial load) also determine a considerably higher deflection of the extended tips if compared to traditionally vertically-mounted rails (radial load).

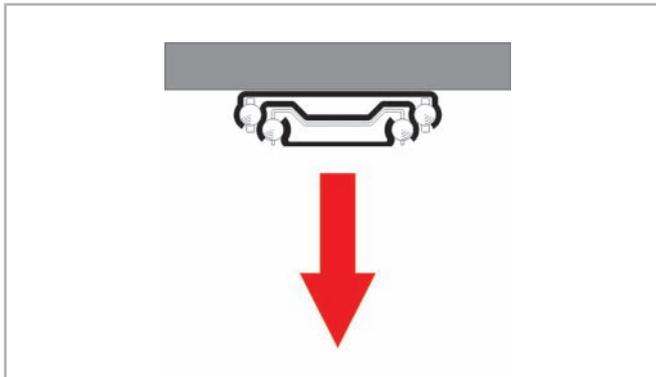


Fig. 21

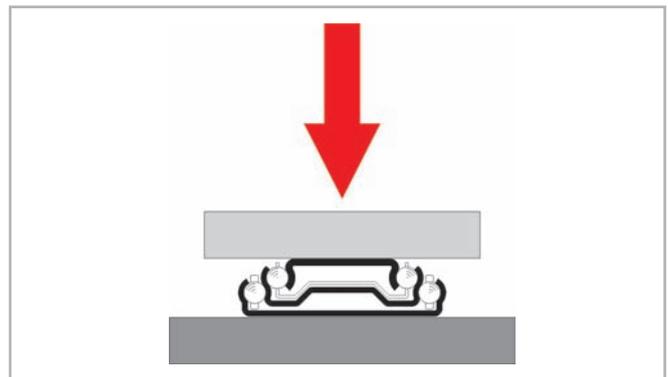


Fig. 22

> DRX/DRS installation

- During installation care must be taken that the movable elements are assembled as in the figure; i.e. as the lower rail. The opposite upside-down assembly negatively affects the function.
- Internal stops are used to stop the unloaded slider and the ball cage. Please use external stops as end stops for a loaded system.
- To achieve optimum running properties, high service life and rigidity, it is necessary to fix the telescopic rails with all accessible holes on a rigid and level surface.
- When using two telescopic rails, please observe the parallelism of the installation surfaces. The fixed and movable rails fit to the rigid assembly construction.

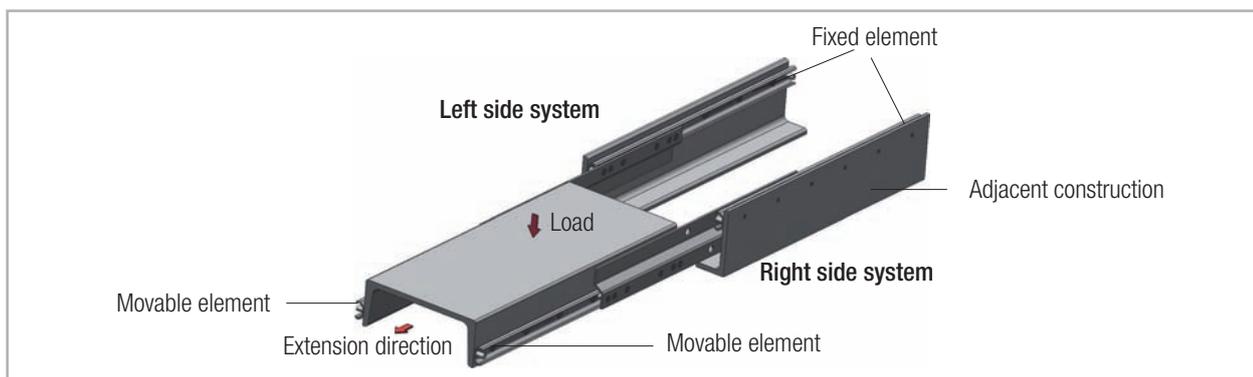


Fig. 23

Ordering key

> Light Rail

| | | | | |
|-----------|------|-------------------|--|--------------|
| LFS | 58- | 400 | SC | |
| | | | Automatic retraction only in LFS 58 SC | see pg. LR-8 |
| | | Rail length in mm | | see pg. LR-5 |
| | Size | | | see pg. LR-5 |
| Rail type | | | | see pg. LR-5 |

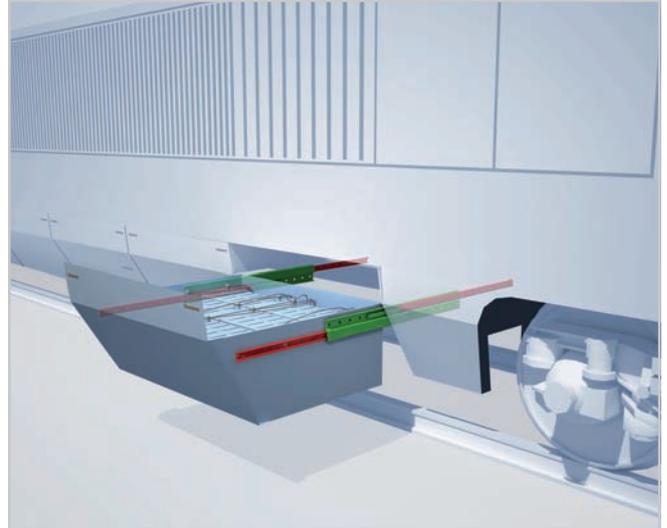
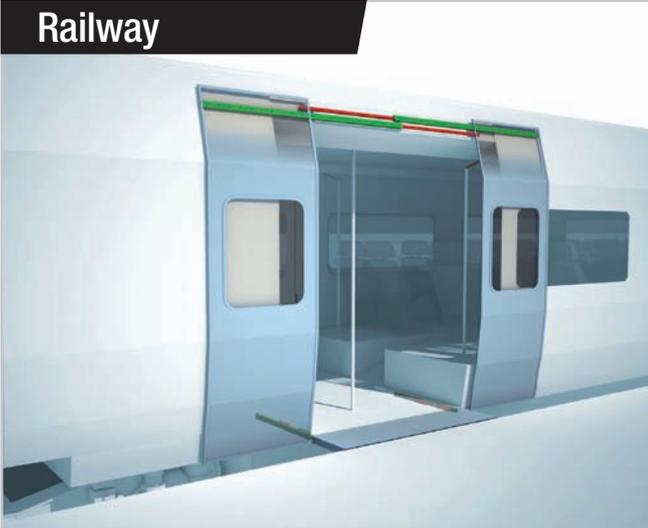
Ordering example: LFS58-0400SC

Notes on ordering: The rail lengths are always indicated as 4 digits with 0 prefixes

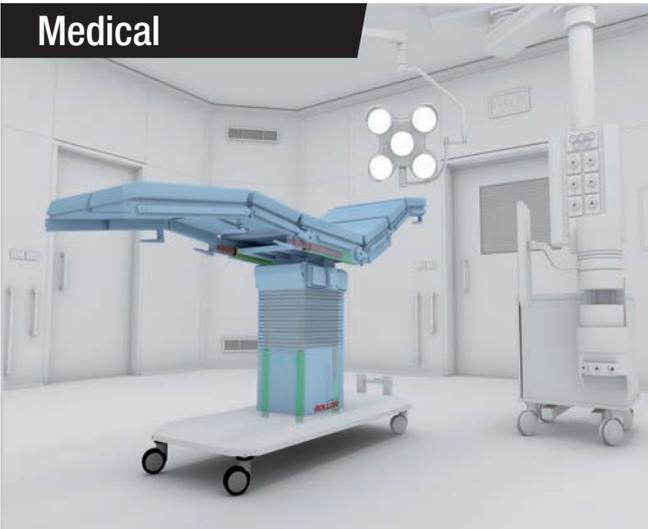
Guides suitable for all applications



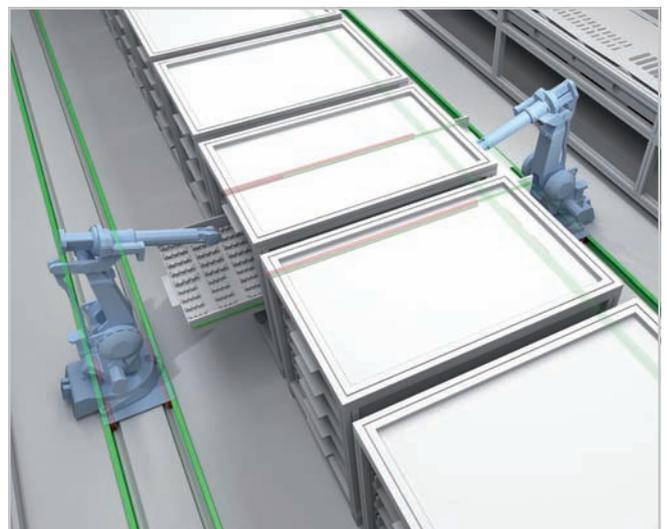
Railway



Medical



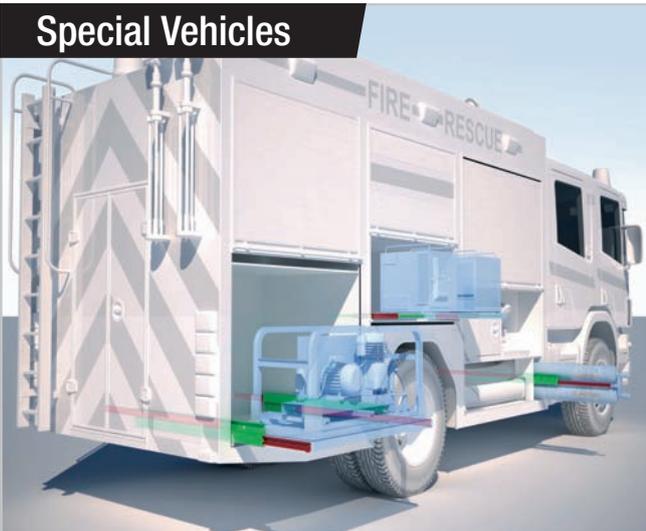
Logistics



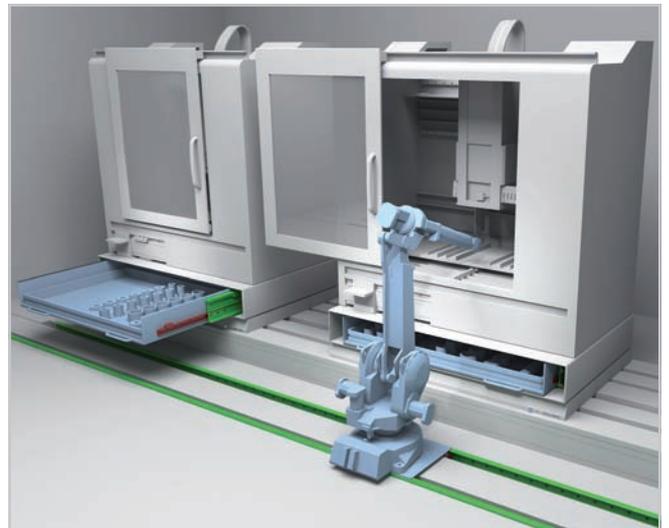
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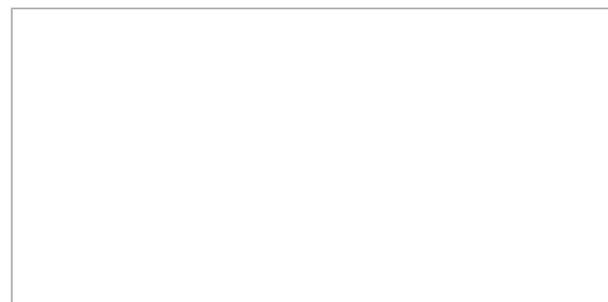
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