

Accessories and Spare Parts

## Accessories for Standard Runner Blocks

Rexroth offers a broad array of accessories to cover almost all conceivable application requirements.

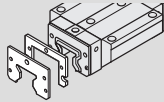
The complete range from a single source.

Optimally matched for maximum efficiency.

### Accessories for standard runner blocks

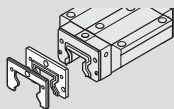
#### Metal scraper

with spacer plates

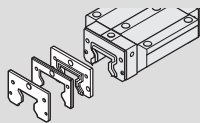


#### Viton or NBR wiper seals

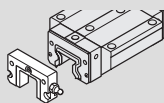
two-piece



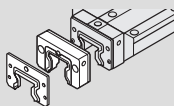
#### Set of Viton seals with metal scraper



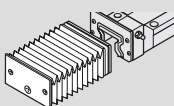
#### Lube plate



#### Front lube unit



#### Bellows



...in the appropriate dimensions  
suitable for...

### Standard runner blocks

#### Flanged, normal, standard height FNS

Steel:

**R1851 ... 10**

**R1851 ... 13** with aluminum  
end caps

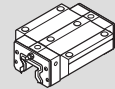
**R1851 ... 16** for oil and grease lubrication  
from above

**R1851 ... 17** for central oil lubrication systems

**R1851 ... 18** for wall mounting

Resist CR<sup>1)</sup>:

**R1851 ... 6.** (last digit same as in corresponding  
steel runner block)



#### Flanged, long, standard height FLS

Steel:

**R1853 ... 10**

**R1853 ... 13** with aluminum  
end caps

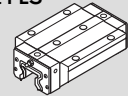
**R1853 ... 16** for oil and grease lubrication  
from above

**R1853 ... 17** for central oil lubrication systems

**R1853 ... 18** for wall mounting

Resist CR<sup>1)</sup>:

**R1853 ... 6.** (last digit same as in corresponding  
steel runner block)



#### Slimline, normal, high SNH

Steel:

**R1821 ... 10**

**R1821 ... 13** with aluminum  
end caps

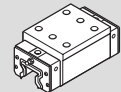
**R1821 ... 16** for oil and grease lubrication  
from above

**R1821 ... 17** for central oil lubrication systems

**R1821 ... 18** for wall mounting

Resist CR<sup>1)</sup>:

**R1821 ... 6.** (last digit same as in corresponding  
steel runner block)



#### Slimline, long, high SLH

Steel:

**R1824 ... 10**

**R1824 ... 13** with aluminum  
end caps

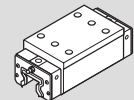
**R1824 ... 16** for oil and grease lubrication  
from above

**R1824 ... 17** for central oil lubrication systems

**R1824 ... 18** for wall mounting

Resist CR<sup>1)</sup>:

**R1824 ... 6.** (last digit same as in corresponding  
steel runner block)



1) Corrosion-resistant runner blocks, Resist CR, matte silver hard chrome plated, replace the runner blocks with zinc-iron coating.

Accessories and Spare Parts

# Accessories for Standard Runner Blocks

## Metal scraper

For mounting on runner blocks for guide rails with cover strip

- 1 Metal scraper
  - Material: stainless spring steel to EN 10088
  - Version: bright
- 2 Spacer plate
  - Material: aluminum

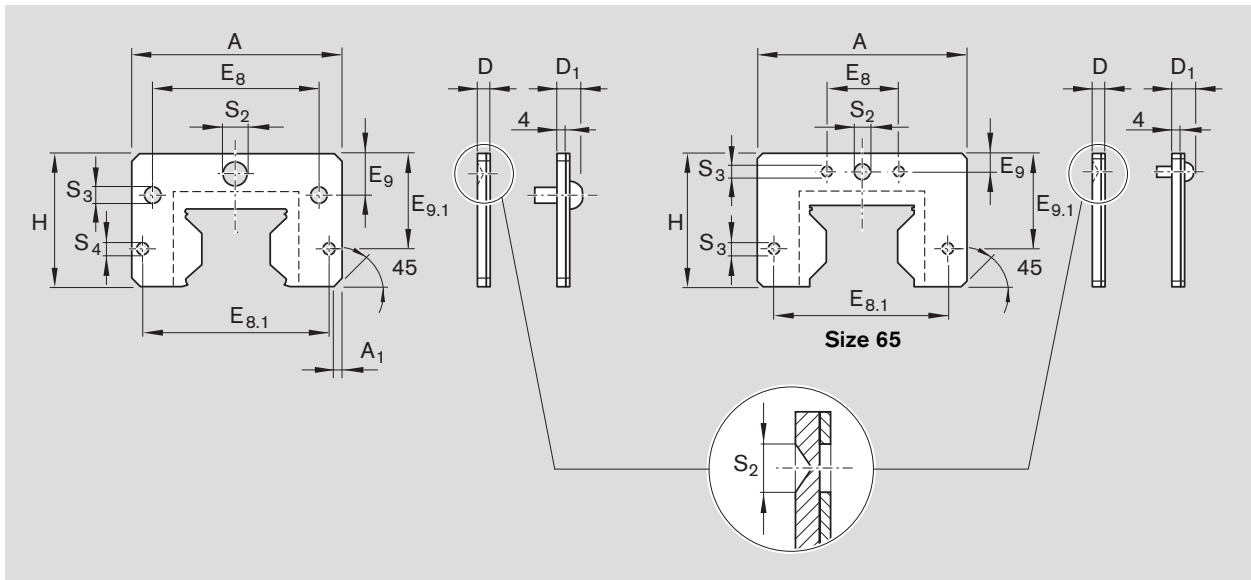
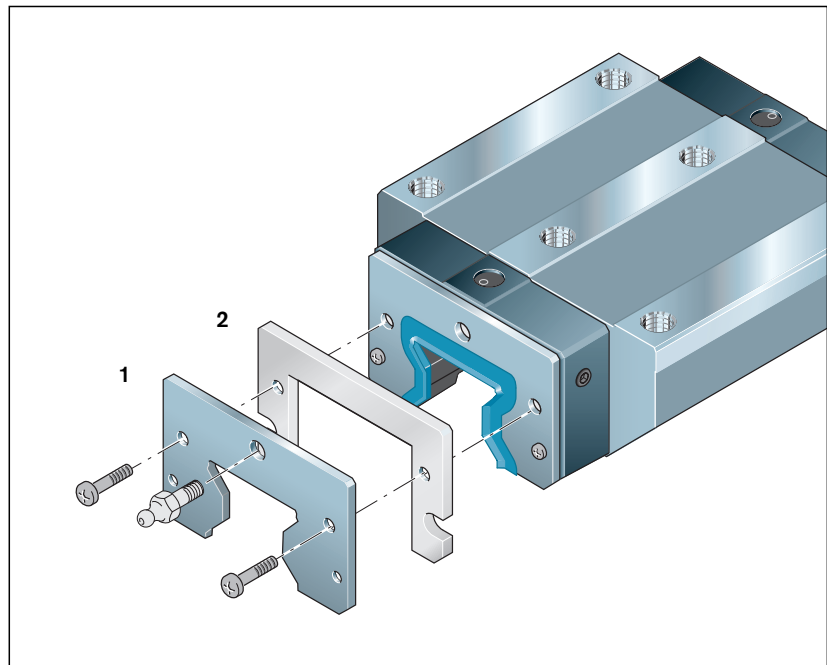
### Mounting instructions

Comes complete with spacer plate and mounting screws (the lube nipple is not included).

- When mounting the scraper, make sure there is a uniform gap between the guide rail and the scraper.

For lubricating from the end face:

- Bore open hole  $S_2$  in the spacer plate.
- Use special lube nipple or adapter (see "Accessories").



Size	Part numbers	Dimensions (mm)											Weight g	
		A	A <sub>1</sub>	D	D <sub>1</sub>	E <sub>8</sub>	E <sub>8.1</sub>	E <sub>9</sub>	E <sub>9.1</sub>	H	S <sub>2</sub> <sup>1)</sup>	S <sub>3</sub>		S <sub>4</sub>
25 <sup>2)</sup>	R1820 210 00	44.0	1.2	5	7.00	33.4	40.2	7.9	20.9	28.5	7	4	3	22
35 <sup>3)</sup>	R1820 310 40	63.0	2.0	5	7.50	50.3	56.6	12.4	28.4	39.8	7	4	3	30
45 <sup>3)</sup>	R1820 410 40	77.0	2.0	6	9.00	62.9	69.6	16.0	35.8	49.8	7	5	4	71
55 <sup>3)</sup>	R1820 510 40	90.5	2.0	6	9.25	74.2	81.6	18.2	40.0	56.2	7	6	4	96
65 <sup>3)</sup>	R1820 610 40	119.0	3.0	6	8.75	35.0	106.0	8.3	54.0	74.5	7	5	5	170

1) Rough-drilled hole in spacer plate. Bore open as required.

2) Size 25: for 0.2 mm cover strip

3) Sizes 35 to 65: for 0.3 mm cover strip

Accessories and Spare Parts

# Accessories for Standard Runner Blocks

## Viton or NBR wiper seals, two-piece

For mounting on runner blocks for all guide rails

- Material: stainless steel frame plus Viton or NBR seal

### Special feature

Easy mounting and removal even when guide rail is screwed down.  
Please follow the mounting instructions!

### Mounting instructions

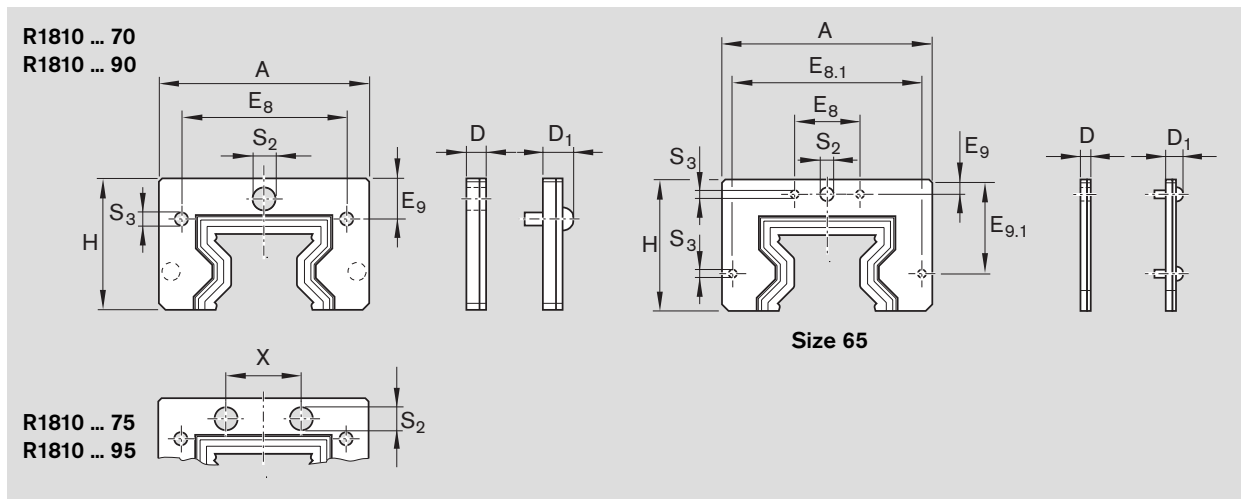
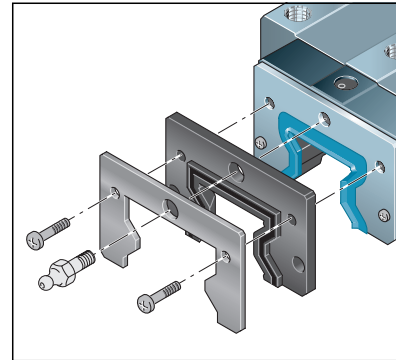
Comes complete with mounting screws.

Maximum tightening torque: 0.4 Nm

For lubricating from the end face:

- Use special lube nipple or adapter (see "Accessories").

Can be combined with an additional metal scraper. For sizes 35 to 65, use the Viton seal and metal scraper set (see next page).



### Viton seal

Size	Part numbers	Dimensions (mm)											Weight g
		A	D	D <sub>1</sub>	E <sub>8</sub>	E <sub>8.1</sub>	E <sub>9</sub>	E <sub>9.1</sub>	H	S <sub>2</sub>	S <sub>3</sub>	X <sup>1)</sup>	
25 <sup>2)3)</sup>	R1810 200 30	44.0	6.25	8.25	33.4	-	7.75	-	29.5	-	4	-	20
35	R1810 300 70	64.0	6.00	8.50	50.3	-	12.35	-	40.0	7	4	-	40
	R1810 300 75	64.0	6.00	8.50	50.3	-	12.35	-	40.0	7	4	32	40
45	R1810 400 70	78.0	6.00	9.00	62.9	-	16.00	-	50.0	7	5	-	60
	R1810 400 75	78.0	6.00	9.00	62.9	-	16.00	-	50.0	7	5	40	60
55	R1810 500 70	91.5	6.50	9.75	74.2	-	18.20	-	57.0	7	6	-	80
	R1810 500 75	91.5	6.50	9.75	74.2	-	18.20	-	57.0	7	6	50	80
65	R1810 600 70	119.0	6.50	9.25	35.0	106	8.55	54.25	75.0	7	5	-	160

### NBR seal

Size	Part numbers	Dimensions (mm)											Weight (g)
		A	D	D <sub>1</sub>	E <sub>8</sub>	E <sub>8.1</sub>	E <sub>9</sub>	E <sub>9.1</sub>	H	S <sub>2</sub>	S <sub>3</sub>	X <sup>1)</sup>	
25 <sup>3)</sup>	R1810 200 90	-	-	-	-	-	-	-	-	-	-	-	-
35	R1810 300 90	64.0	6.00	8.50	50.3	-	12.35	-	40.0	7	4	-	40
	R1810 300 95	64.0	6.00	8.50	50.3	-	12.35	-	40.0	7	4	32	40
45	R1810 400 90	78.0	6.00	9.00	62.9	-	16.00	-	50.0	7	5	-	60
	R1810 400 95	78.0	6.00	9.00	62.9	-	16.00	-	50.0	7	5	40	60
55	R1810 500 90	91.5	6.50	9.75	74.2	-	18.20	-	57.0	7	6	-	80
	R1810 500 95	91.5	6.50	9.75	74.2	-	18.20	-	57.0	7	6	50	80
65	R1810 600 90	119.0	6.50	9.25	35.0	106	8.55	54.25	75.0	7	5	-	160

1) Dimension X applies only to runner blocks R18... 18 or ... 68 (wall mounting).  
 2) Caution: Size 25 does not correspond to the drawing. Please send for the related data sheet.  
 3) Viton seal (R1810 200 70) and NBR seal (R1810 200 90) for size 25 in preparation

Accessories and Spare Parts

## Accessories for Standard Runner Blocks

### Set of Viton seal with metal scraper

For mounting on runner blocks for guide rails with cover strip

- 1 Metal scraper
- 2 Viton seal, two-piece

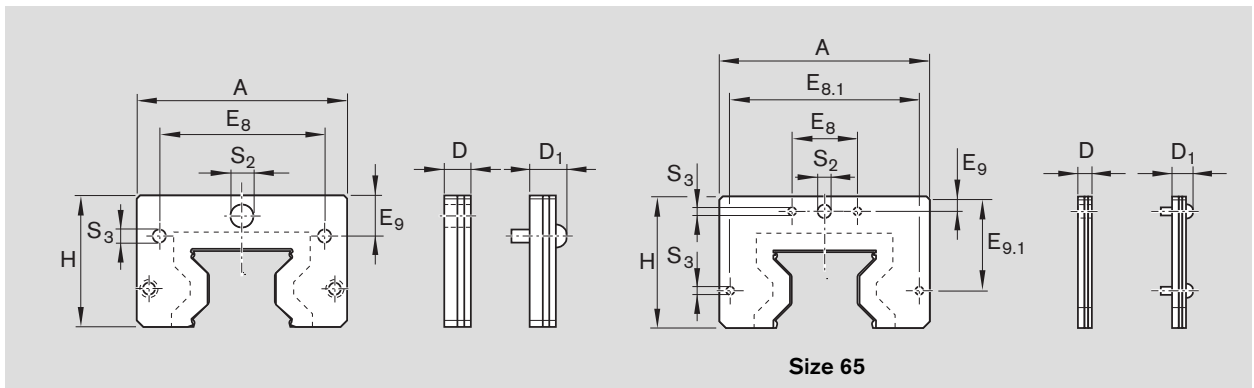
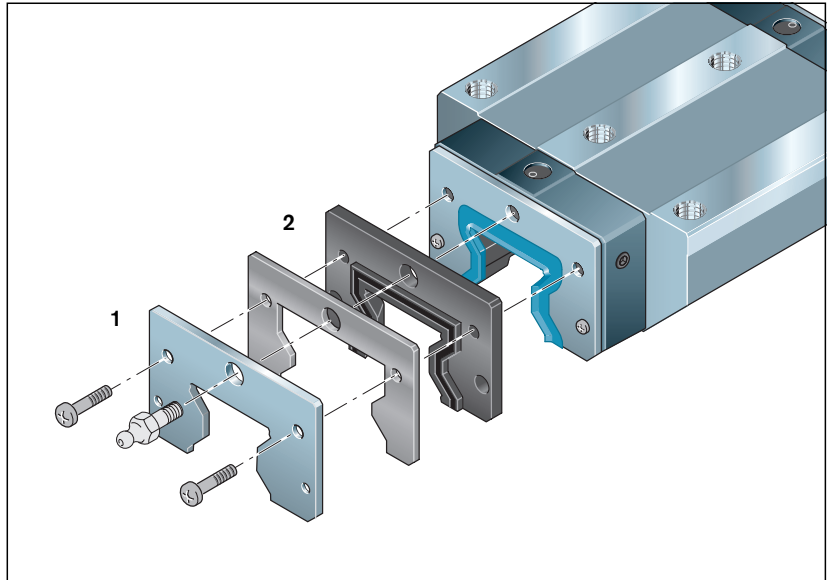
#### Mounting instructions

Comes complete with mounting screws.  
Maximum tightening torque: 0.4 Nm

For lubricating from the end face:

- Use special lube nipple or adapter (see "Accessories").

Please follow the mounting instructions!



Size	Part numbers	Dimensions (mm)										Weight (g)
		A	D	D <sub>1</sub>	E <sub>8</sub>	E <sub>8.1</sub>	E <sub>9</sub>	E <sub>9.1</sub>	H	S <sub>2</sub>	S <sub>3</sub>	
35	R1810 305 70	64.0	7.0	9.50	50.3	-	12.35	-	40.0	7	4	55
45	R1810 405 70	78.0	8.0	11.00	62.9	-	16.00	-	50.0	7	5	90
55	R1810 505 70	91.5	8.5	11.75	74.2	-	18.20	-	57.0	7	6	120
65	R1810 605 70	119.0	8.5	11.25	35.0	106	8.55	54.25	75.0	7	5	240

Accessories and Spare Parts

# Accessories for Standard Runner Blocks

## Standard lube plate

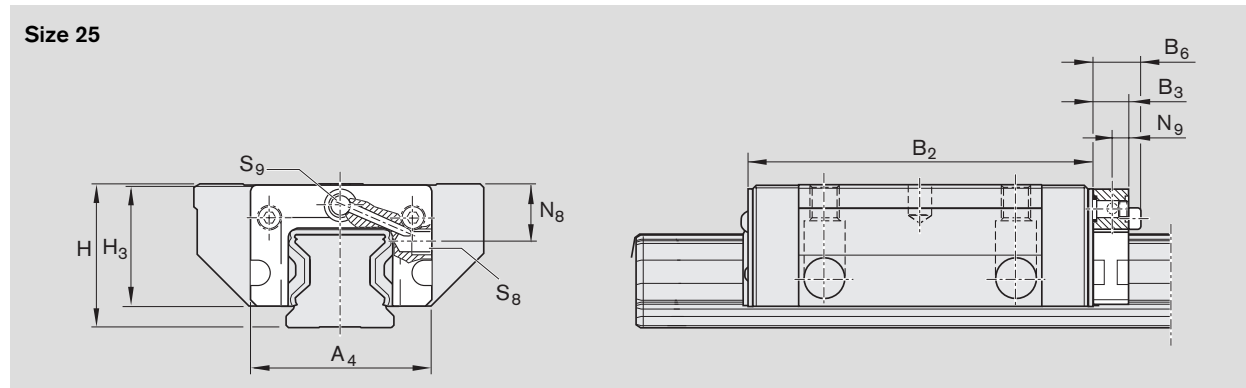
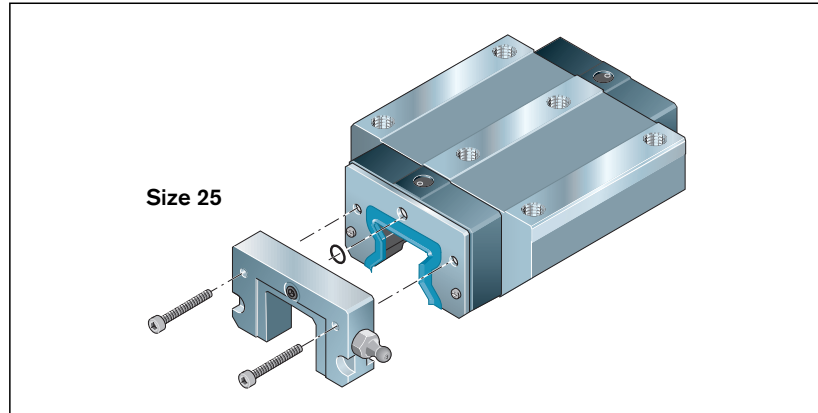
### For standard lube nipples

– Material: aluminum

### Mounting instructions

Comes complete with all necessary parts for mounting to the runner block. The runner block lube nipple can be used.

- For mounting details, see "Mounting Instructions for Roller Rail Systems".



Size	Part numbers	Dimensions (mm)											Weight (g)
		A <sub>4</sub>	B <sub>3</sub>	B <sub>6</sub>	H <sup>1)</sup>	H <sup>2)</sup>	H <sub>3</sub>	N <sub>8</sub> <sup>1)3)</sup>	N <sub>8</sub> <sup>2)3)</sup>	N <sub>9</sub>	S <sub>8</sub>	S <sub>9</sub>	
25	R1820 211 20	44.0	12	15	36	40	28.30	14	18	6	M6	M6	32

- 1) Dimension for flanged runner blocks
- 2) Dimension for slimline runner blocks
- 3) Dimension referred to the runner block mounting face

Accessories and Spare Parts

## Accessories for Standard Runner Blocks

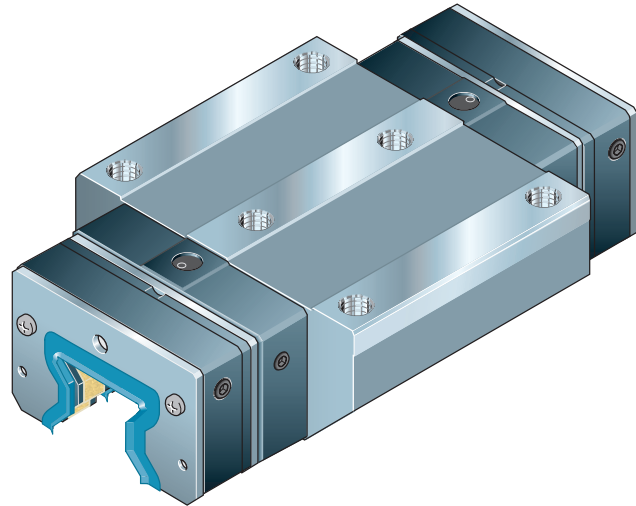
### Front lube units

For travel up to 5000 km without relubrication

#### Advantages during mounting and service

- Travel up to 5000 km without relubrication
- Only initial lubrication of the runner block necessary
- Front lube units at both runner block ends
- Minimal lubricant loss
- Reduced oil consumption
- No lube lines
- Max. operating temperature 60°C
- In-service refilling possible using lube nipple on end face or side
- Size 25:
  - lube port on end face suitable for lubricating runner block with grease

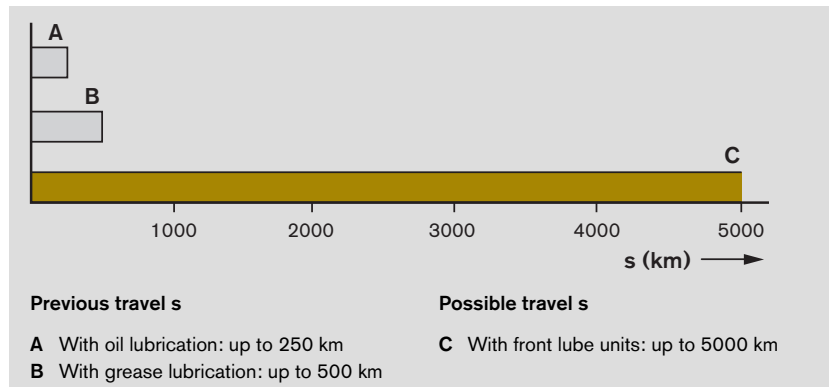
Standard runner block with two front lube units and end seals



For part numbers and technical data, see next page.

Size	Travel s with front lube units <sup>1)</sup> km
25	5 000
35	5 000
45	3 000
55	2 000
65	1 000

1) Load-dependent; please refer to data and



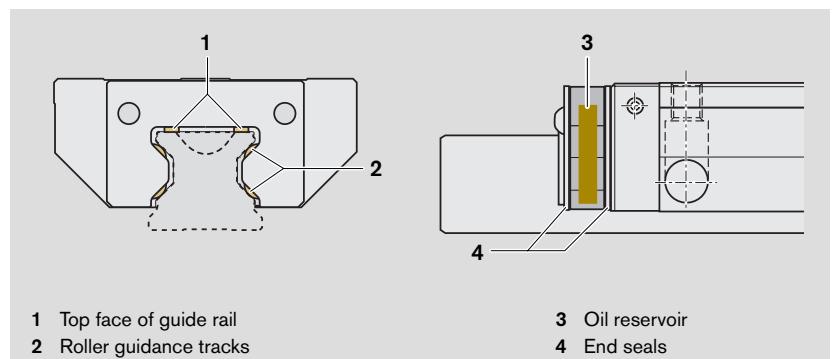
Longer travel distances have already been reached in ongoing service life tests. For details, please consult us.

### Oil consumption comparison for size 35

Front lube units	Lubricant quantity per lubrication cycle cm <sup>3</sup>	Travel s km	Lubricant consumption	
			absolute cm <sup>3</sup> /km	comparative %
without	1.3	250	0.0052	100.00
with	16.6	5 000	0.0033	63.46

### Lubricant distribution

Specially designed lube distribution ducts ensure that the lubricant is applied only where needed: directly to the raceways and to the guide rail surface.



Accessories and Spare Parts

# Accessories for Standard Runner Blocks

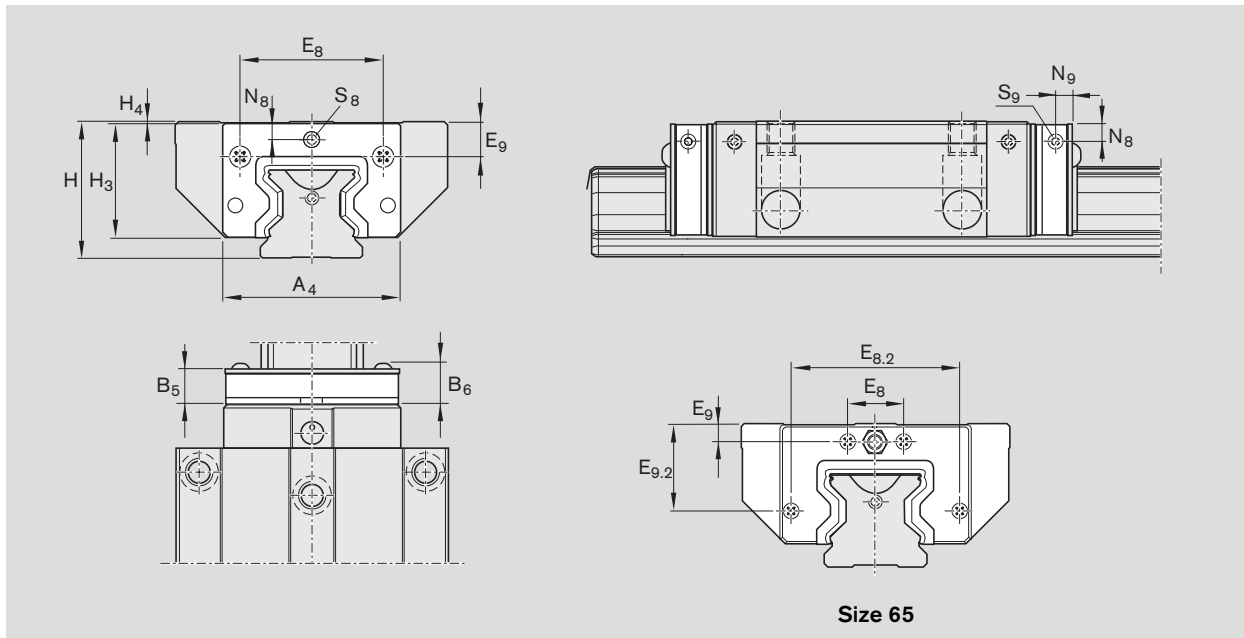
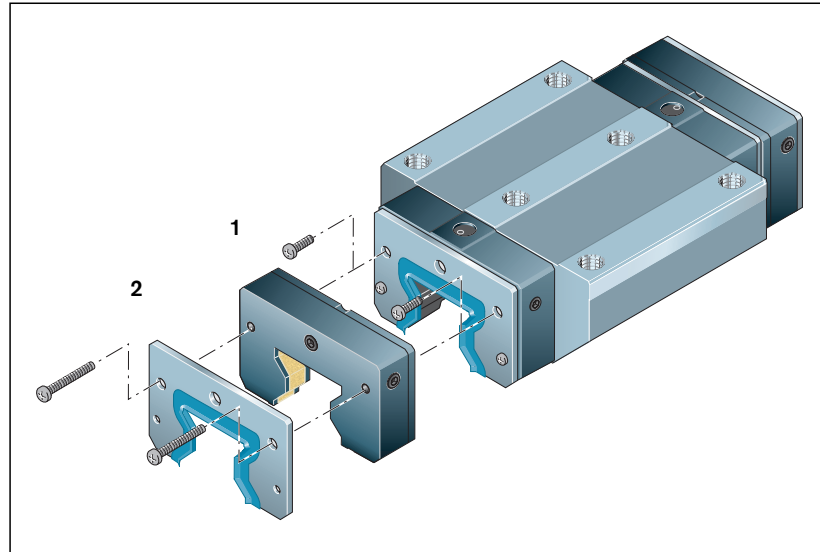
## Structural design of front lube units

- 1 Front lube unit
  - Material: special plastic
- 2 End seal

### Notes

Front lube units are supplied complete with coated screws, additional end seals and lube nipple.

Front lube units with part numbers R1810 ... 00 are supplied ready-filled with oil (Mobil SHC 639) and can be mounted immediately after initial lubrication of the runner block.



Size	Part numbers	Dimensions (mm)														Oil (cm <sup>3</sup> )	Weight (g)
		A <sub>4</sub>	B <sub>5</sub>	B <sub>6</sub>	E <sub>8</sub>	E <sub>8.2</sub>	E <sub>9</sub> <sup>1)</sup>	E <sub>9.2</sub>	H <sup>1)</sup>	H <sub>3</sub>	H <sub>4</sub> <sup>1)</sup>	N <sub>8</sub> <sup>1)</sup>	N <sub>9</sub>	S <sub>8</sub>	S <sub>9</sub>		
25	R1810 225 00	44.0	13.0	15.5	33.4	-	8.40	-	36	29.2	0.50	5.00	-	M6	-	2.6	24
							12.40 <sup>2)</sup>		40 <sup>2)</sup>		4.50 <sup>2)</sup>	9.00 <sup>2)</sup>					
35	R1810 325 00	64.0	16.5	19.0	50.3	-	13.10	-	48	40.0	0.75	6.25	5.5	M6	M6	8.3	46
							20.10 <sup>2)</sup>		55 <sup>2)</sup>		7.75 <sup>2)</sup>	13.25 <sup>2)</sup>					
45	R1810 425 00	78.0	18.5	21.8	62.9	-	16.70	-	60	50.0	0.75	7.25	7.5	M6	M6	13.8	88
							26.75 <sup>2)</sup>		70 <sup>2)</sup>		10.75 <sup>2)</sup>	17.25 <sup>2)</sup>					
55	R1810 525 00	91.5	20.3	24.3	74.2	-	18.85	-	70	56.3	0.75	8.25	9.0	M6	M6	22.8	122
							28.95 <sup>2)</sup>		80 <sup>2)</sup>		10.75 <sup>2)</sup>	18.25 <sup>2)</sup>					
65	R1810 625 00	119.0	21.0	24.3	35.0	106	9.30	55.00	90	74.8	0.75	8.55	8.5	M6	M6	47.6	225

1) Dimension referred to the runner block mounting face

2) Dimension for high runner blocks

**Initial lubrication of the runner block (basic lubrication)**

**⚠ Before mounting the front lube units, always lubricate the runner blocks first using grease!**

**Recommended grease types**

- Dynalub 510 from Bosch Rexroth AG
- Castrol Longtime PD 2

**⚠ If other types of grease are used, please check the compatibility of the lubricants and the possible travel!**

**As-supplied condition of front lube units**

There are two types of front lube units:

- Part numbers R1810 ... 00 ready to mount and filled with oil (Mobil SHC 639)
- Part numbers R1810 ... 10 without lube oil filling

**Initial filling of an unfilled front lube unit (Part numbers R1810 ... 10)**

**Recommended oil type**

- Mobil SHC 639 (viscosity 1000 mm<sup>2</sup>/s at 40°C)

**⚠ If other types of oil are used, please check the compatibility of the lubricants and the possible travel!**

- For initial lubrication, mount one lube fitting per runner block, at either of the two end caps!

Initial lubrication is applied in three partial quantities as specified in table 1:

1. Grease the runner block with the first partial quantity as per Table 1, pressing it in slowly with the help of a grease gun.
2. Slide the runner block back and forth over at least three times the block length for three full cycles.
3. Repeat steps 1. and 2. twice more.
4. Check whether a film of lubricant is visible on the guide rail.

Size	Initial lubrication Partial quantities cm <sup>3</sup>
25	0.8 (3x)
35	0.9 (3x)
45	1.0 (3x)
55	1.4 (3x)
65	2.7 (3x)

Table 1

- Remove the set screw from the lube hole (Fig. 1, item 1) and keep it ready for later use.
- Screw in lube nipple (2).
- Lay front lube units (3) down flat and fill with quantity of oil specified in Table 2. Leave in that position for approx. 36 hours.

- Check whether the lube insert is completely soaked with oil. Add oil, if necessary.
- Remove lube nipple.
- Screw in set screw.

Size	Oil quantity for initial filling of an unfilled front lube unit cm <sup>3</sup>
25	See Fig. 2
35	8.3
45	14.6
55	22.8
65	47.6

Table 2

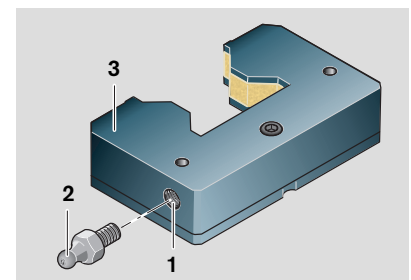


Fig. 1

- For size 25: Stand the front lube units in oil 10 mm deep for approx. 36 hours (see Fig. 2).

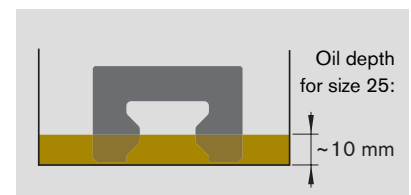


Fig. 2

Accessories and Spare Parts

## Accessories for Standard Runner Blocks

### Mounting instructions for front lube units

Front lube units are supplied complete with coated screws, additional end seals and lube nipple.

**⚠ Mount one front lube unit at each end of the runner block (Fig. 3, item 3)!**

**⚠ Do not remove runner blocks from the rail!**

- Remove screws (Fig. 3, item 6) – in size 65, there are four screws. Discard these screws (6)!
- If there are any end seals (7) already mounted on the runner block, leave them in place.
- Slide on the front lube units (3) and the additional end seals (5) and align them with the runner block.
- For size 25, remove the set screw (8) and insert the O-ring (9) between the runner block and the front lube units.

**⚠ Mount the additional end seals (5) so that the sealing lips fit snugly all around the guide rail.**

- Tighten screws (4) with tightening torque  $M_A$  (see Table 3).

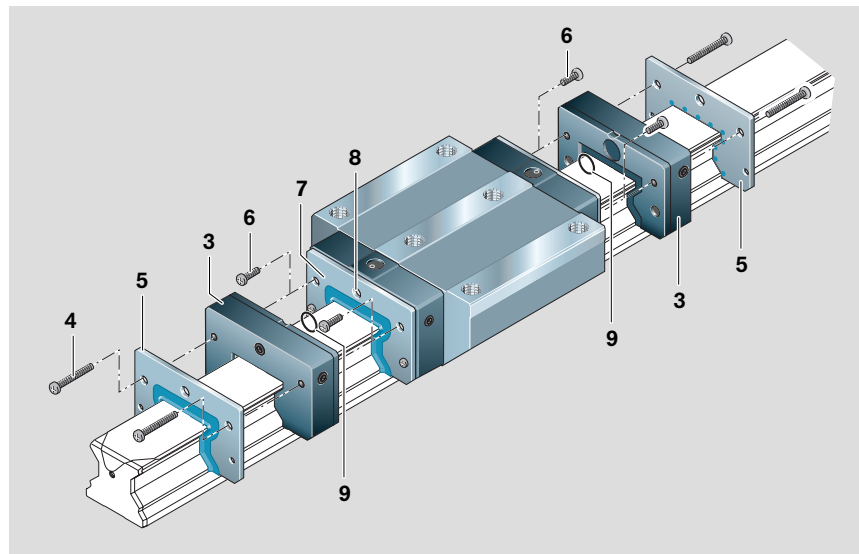


Fig. 3

Size	Item 4	Tightening torque $M_A$
		Nm
25	M3 x 18	0.7
35	M3 x 22	0.7
45	M4 x 25	1.0
55	M5 x 30	1.3
65	M4 x 30	1.0

Table 3

### In-service lubrication intervals for runner blocks with front lube units

- Check the front lubrication units when the system has covered the travel distance specified Fig. 4.

We recommend replacing the front lube units when the specified travel according to Fig. 4 has been reached or, at the latest, after 2 years. Before mounting the new front lube units, the runner block has to be relubricated with grease.

In clean operating environments, the runner blocks can be relubricated with grease (Dynalub 510; sizes 35 to 65 runner blocks can be regreased from the side and size 25 from the end):

- When the travel distance shown as the relubrication interval in Fig. 4 has been reached, apply the relubrication quantity as specified in Table 4.

Size	In-service lubrication cm <sup>3</sup>
25	0.8
35	0.9
45	1.0
55	1.4
65	2.7

Table 4

Front lube units in sizes 35 to 65 can be refilled with oil (Mobil SHC 639) through the side lube port. For the lubricant quantities, see "Initial filling of an unfilled front lube unit."

The size 25 front lube unit **cannot** be refilled through the lube port.

**⚠** If other lubricants are used, this may lead to a reduction in the relubrication intervals, the achievable travel in short-stroke applications, and the load capacities. Possible chemical interactions between the plastic materials, lubricants and preservative oils must also be taken into account.

**⚠** The recommended in-service lubrication intervals depend on environmental factors, load and type of loading.

Typical environmental factors include fine metal particles, mineral and similar abraded material, solvents, and temperature. Load types include vibrations, impacts and tilting.

**⚠** The service conditions are unknown to the manufacturer. Users can only determine the in-service lubrication intervals with certainty by conducting their own in-house tests or by close observation.

**⚠** Do not allow the guide rails and runner blocks to come into contact with aqueous metalworking fluids!

### Load-dependent relubrication intervals for roller runner blocks with front lube units

#### Sizes 25 to 65

#### The following conditions apply:

- Lubricants for runner blocks: Dynalub 510 (NLGI 2 grease) or alternatively Castrol Longtime PD 2 (NLGI 2 grease)
- Lubricant for front lube units: Mobil SHC 639 (synthetic oil)
- Maximum speed:  
 $v_{\max} = 2 \text{ m/s}$
- No exposure to metalworking fluids
- Standard seals
- Ambient temperature:  
 $T = 20 - 30^\circ\text{C}$

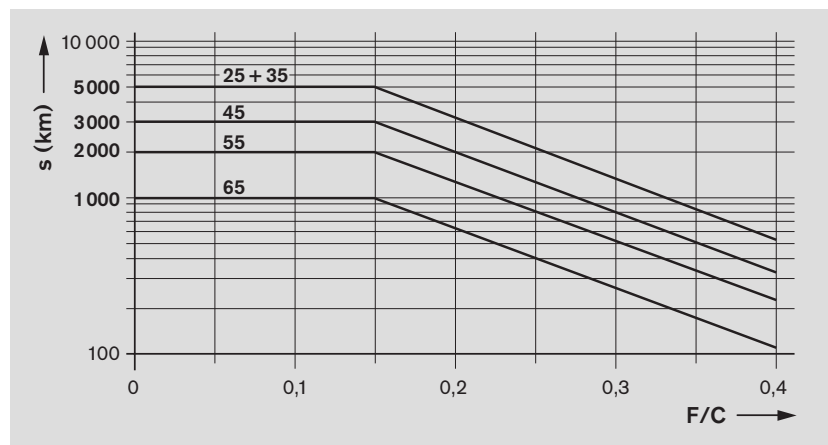


Fig. 4

#### Key to graph

- $s$  = relubrication interval expressed as travel (km)  
 $C$  = dynamic load capacity (N)  
 $F$  = equivalent dynamic load (N)

#### Note

The load ratio  $F/C$  is the quotient of the equivalent dynamic load on the bearing  $F$  (making allowance for a preload of 8%  $C$  or 13%  $C$ ) divided by the dynamic load capacity  $C$  (see "General Technical Data and Calculations").

Accessories and Spare Parts

# Accessories for Standard Runner Blocks

## Protective bellows

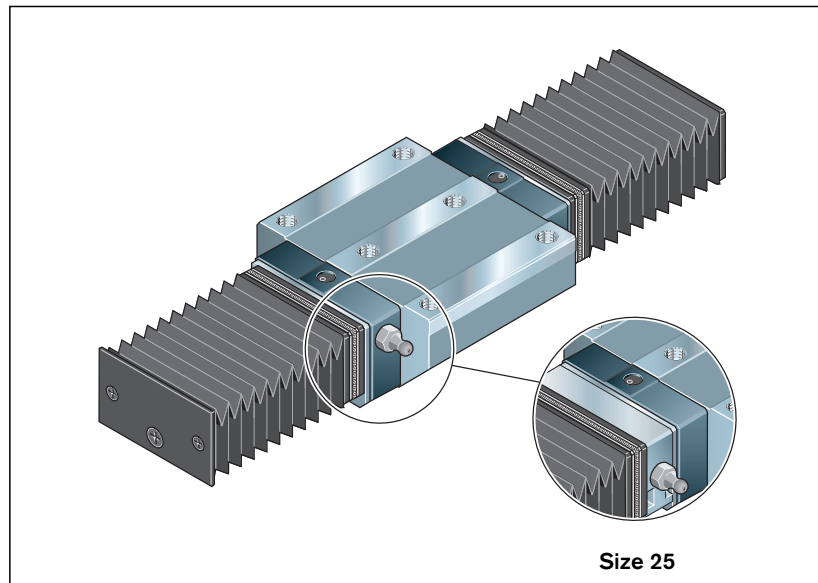
Material: polyurethane-coated polyester fabric  
 Size 25: aluminum lube plate. The runner block lube nipple can be used.

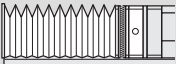
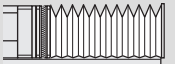
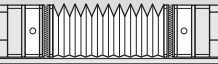
## Heat resistant bellows

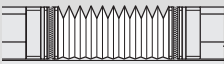
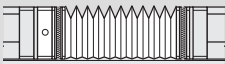
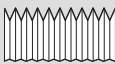
Material: Nomex fabric, metallized on both sides

## Temperature resistance

Non combustible, non flammable  
 Resistant to individual sparks, welding spatter and hot chips  
 Peak temperatures of up to 200°C near the protective metal coat possible  
 Operating temperature for the entire bellows: 100°C



Size	 Type 1: with lube plate and end plate		 Type 2: with mounting frame and end plate		 Type 3: with 2 lube plates	
	Part number, no. of folds	Weight	Part number, no. of folds	Weight	Part number, no. of folds	Weight
	<b>Bellows</b>		<b>Bellows</b>		<b>Bellows</b>	
25	R1820 201 00, ...	on request	R1820 202 00, ...	on request	R1820 203 00, ...	on request
35	-	-	R1820 302 00, ...	-	-	-
45	-	-	R1820 402 00, ...	-	-	-
55	-	-	R1820 502 00, ...	-	-	-
65	-	-	R1820 602 00, ...	-	-	-
	<b>Heat resistant bellows</b>		<b>Heat resistant bellows</b>		<b>Heat resistant bellows</b>	
25	R1820 251 00, ...	on request	R1820 252 00, ...	on request	R1820 253 00, ...	on request
35	-	-	R1820 352 00, ...	-	-	-
45	-	-	R1820 452 00, ...	-	-	-
55	-	-	R1820 552 00, ...	-	-	-
65	-	-	R1820 652 00, ...	-	-	-

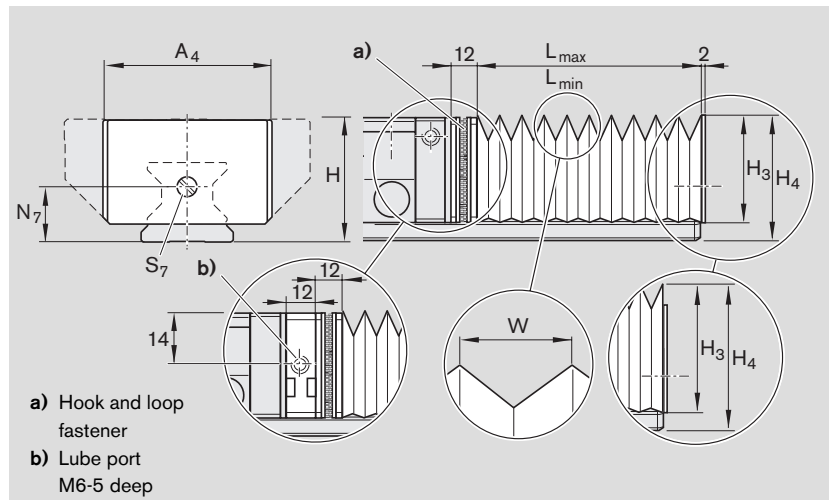
Size	 Type 4: with 2 mounting frames		 Type 5: with lube plate and mounting frame		 Type 9: bellows (spare part)	
	Part number, no. of folds	Weight	Part number, no. of folds	Weight	Part number, no. of folds	Weight
	<b>Bellows</b>		<b>Bellows</b>		<b>Bellows</b>	
25	R1820 204 00, ...	on request	R1820 205 00	on request	R1600 209 00	on request
35	R1820 304 00, ...	-	-	-	R1600 309 00	-
45	R1820 404 00, ...	-	-	-	R1600 409 00	-
55	R1820 504 00, ...	-	-	-	R1600 509 00	-
65	R1820 604 00, ...	-	-	-	R1600 609 00	-
	<b>Heat resistant bellows</b>		<b>Heat resistant bellows</b>		<b>Heat resistant bellows</b>	
25	R1820 254 00, ...	on request	R1820 255 00	on request	R1600 259 00	on request
35	R1820 354 00, ...	-	-	-	R1600 359 00	-
45	R1820 454 00, ...	-	-	-	R1600 459 00	-
55	R1820 554 00, ...	-	-	-	R1600 559 00	-
65	R1820 654 00, ...	-	-	-	R1600 659 00	-

**Mounting instructions for bellows**

The bellows are delivered preassembled, complete with mounting screws. The runner block lube nipple can be used.

In types 1 and 2, a tapped hole size M4, 10 mm deep and countersunk 2 x 45°, must be drilled into each end face of the rail.

See "Mounting Instructions for Bellows" for mounting.



**Ordering examples**

**Bellows**

Size 35, type 2  
 - Number of folds: 36

**Ordering data**

Part number, number of folds:  
 R1820 302 00, 36 folds

**Heat resistant bellows**

Size 35, type 2  
 - Number of folds: 36

**Ordering data**

Part number, number of folds:

Size	Dimensions of bellows (mm)							Factor U
	A <sub>4</sub>	H	H <sub>3</sub>	H <sub>4</sub>	N <sub>7</sub>	S <sub>7</sub>	W	
25	45	36	28.5	35.0	15	M4	12.9	1.32
35	64	48	39.0	47.0	22	M4	19.9	1.18
45	83	60	49.0	59.0	30	M4	26.9	1.13
55	96	70	56.0	69.0	30	M4	29.9	1.12
65	120	90	75.0	89.0	40	M4	40.4	1.08

Size	Dimensions of heat resistant bellows (mm)							Factor U
	A <sub>4</sub>	H	H <sub>3</sub>	H <sub>4</sub>	N <sub>7</sub>	S <sub>7</sub>	W	
25	62	36	39.0	44.5	15	M4	25.9	1.25
35	74	48	46.0	54.0	22	M4	29.9	1.21
45	88	60	54.0	64.0	30	M4	32.9	1.18
55	102	70	62.0	75.0	30	M4	37.9	1.16
65	134	90	86.0	99.0	40	M4	52.4	1.11

**Bellows calculation**

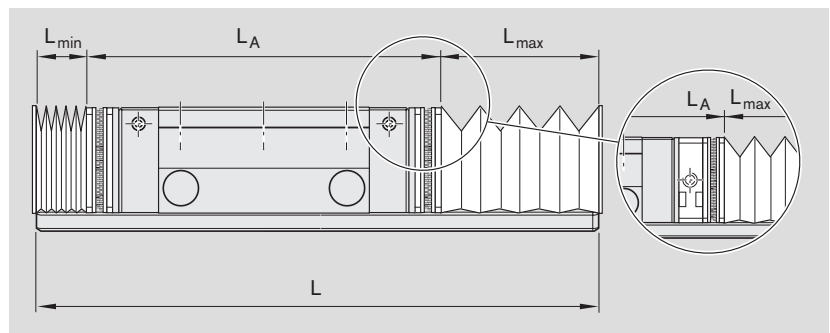
$$L_{max} = (\text{Stroke} + 30) \cdot U$$

$$L_{min} = L_{max} - \text{Stroke}$$

$$\text{Number of folds} = \frac{L_{max}}{W} + 2$$

- L<sub>max</sub> = bellows extended (mm)
- L<sub>min</sub> = bellows compressed (mm)
- Stroke = stroke (mm)
- U = calculation factor
- W = maximum extension (mm)

**Rail length calculation**



$$L = L_{min} + L_{max} + L_A$$

- L = rail length (mm)
- L<sub>A</sub> = length of runner block with mounting frame (mm)

Accessories and Spare Parts

## Accessories for Standard Runner Blocks

### Mounting instructions for bellows

a) Mounting the bellows to the runner block (types 2 and 4), including mounting at the rail end (types 1 and 2)

#### Types 1 and 2 only:

- Before mounting the bellows, drill and tap a hole in the end face of the guide rail (5), see dimensions  $N_7$  and  $S_7$  in the table and diagram alongside "Mounting instructions" on the previous page.

#### Types 2 and 4:

- If there is a lube nipple in the front lube hole (1), remove it and screw it into a lateral lube hole (relubrication side) (3).
- Use a set screw (2) to plug the open lube hole.
- Remove the upper mounting screws from the scraper plate.
- Screw the mounting frame (with hook and loop fastener (4)) to the runner block using the screws supplied along with the bellows.
- Push on the bellows.

#### Types 1 and 2 only:

- Once the bellows are installed, screw

#### b) Size 25 only:

Mounting the lube plate and the bellows (types 1, 3 and 5)

#### Notes

In size 25, the lube port is hidden by the bellows. Consequently, a lube plate has to be fitted to at least one end of a runner block for in-service lubrication. The lube plate can be turned round, thus allowing lubrication from the preferred side.

- Remove the lube nipple (1) or set screw (2) from the runner block (relubrication side).
- Screw the lube nipple (3) into the side of the lube plate (6).
- Insert the O-ring (7) into the recess.
- Screw the lube plate (6) and the mounting frame (4) to the runner block.
- Plug unused lube hole with a set screw.

**⚠ Set screws must lie flush with the outer surface of the lube plate!**

#### For all types:

Hook and loop fastener for the mounting frame (4)

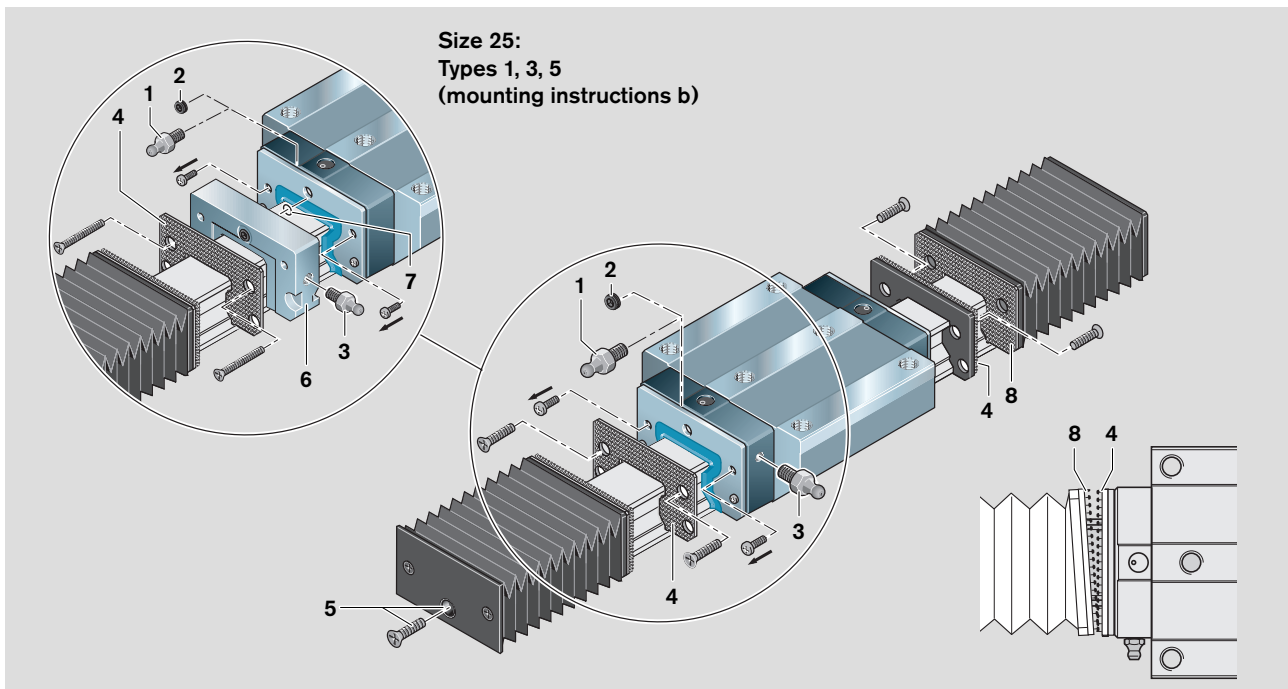
#### Closing the hook and loop fastener:

- Position one edge of the hook and loop fastener part (8) on the bellows side against the mating part on the mounting frame side (4).
- Make sure the two parts are properly positioned!
- Press the bellows firmly up against the mounting frame!

#### Opening the hook and loop fastener:

- Using a flat tool, start at one side (preferably a corner).
- Carefully lever the two halves apart.

**⚠ Be careful not to shear off the hooks and loops!**

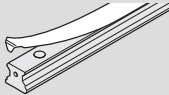
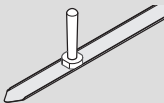
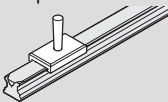
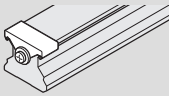
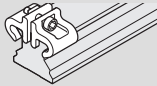
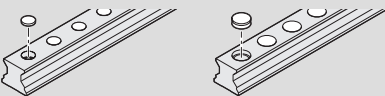
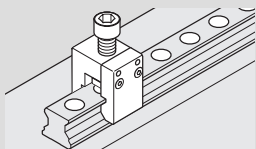
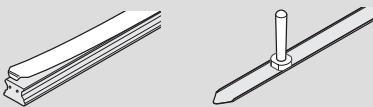
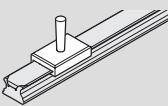




Accessories and Spare Parts

# Accessories for Guide Rails

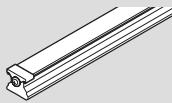
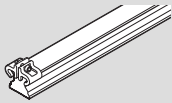
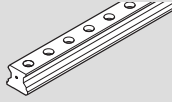
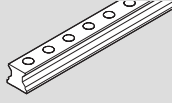
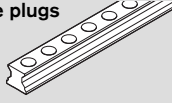

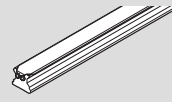
## Accessories

<p><b>Cover strip, separate</b></p> 
<p><b>Expanding tool</b></p> 
<p><b>Cover strip mounting kit</b> With mounting tool and lift-off plate</p> 
<p><b>Protective end caps</b></p> 
<p><b>Strip clamps</b></p> 
<p><b>Mounting hole plugs</b> Plastic or steel</p> 
<p><b>Two-piece mounting tool</b> For steel mounting hole plugs</p> 
<p><b>Cover strip, separate + expanding tool</b></p> 
<p><b>Cover strip mounting kit</b> With mounting tool and lift-off plate</p> 

...in the appropriate dimensions, suitable for...

...in the appropriate dimensions, suitable for...

## Standard guide rails

<p><b>For mounting from above, with cover strip and screw-down protective caps</b> R1805 .6. .. Steel R1845 .6. .. Resist CR<sup>1)</sup></p> 
<p><b>For mounting from above, with cover strip and strip clamps</b> R1805 .3. .. Steel R1845 .3. .. Resist CR<sup>1)</sup></p> 
<p><b>For mounting from above, for cover strip</b> R1805 .2. .. Steel R1845 .7. .. Resist CR<sup>1)</sup></p> 
<p><b>For mounting from above, with plastic mounting hole plugs</b> R1805 .5. .. Steel R1845 .0. .. Resist CR<sup>1)</sup></p> 
<p><b>For mounting from above, for steel mounting hole plugs</b> R1806 .5. .. Steel R1846 .0. .. Resist CR<sup>1)</sup></p> 
<p><b>Wide guide rails</b></p> <p><b>With cover strip, screws and washers</b> R1875 .6. .. Steel R1873 .6. .. Resist CR<sup>1)</sup></p> 
<p><b>Heavy duty guide rails</b></p> <p><b>With cover strip, screws and washers</b> R1835 .6. .. Steel R1865 .6. .. Resist CR<sup>1)</sup></p> 

1) Corrosion-resistant guide rails, Resist CR, matte silver hard chrome plated, replace the guide rails with zinc-iron coating.

Accessories and Spare Parts

## Accessories for Guide Rails

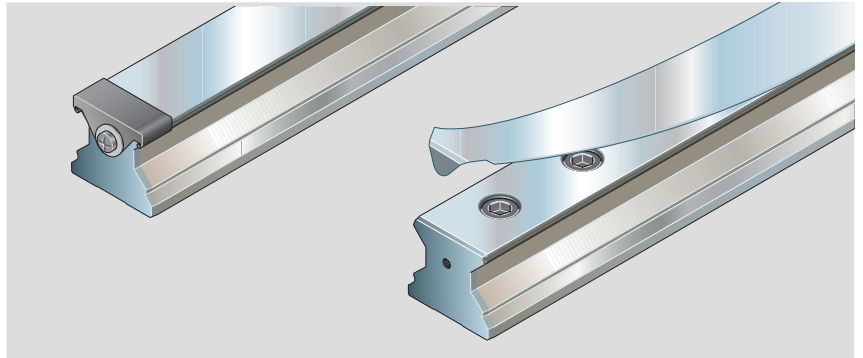
### Notes on cover strip

For detailed information, see "Mounting Instructions for the Cover Strip."

#### Advantages

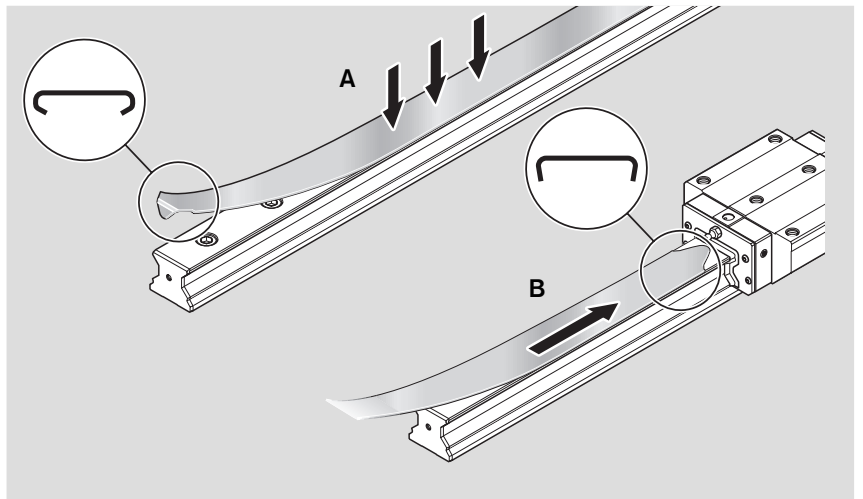
The cover strip is easy to clip on and remove.

- This considerably facilitates and speeds up the mounting process.
- The cover strip can be mounted and removed several times.



#### Versions and functions

- A** Snap-fit cover strip (standard)
- The cover strip is clipped on before the runner blocks are mounted and fits tightly.
- B** Sliding-fit cover strip
- For mounting or replacing a cover strip when the runner blocks or adjoining structure cannot be removed.
  - A section of the snap-fit cover strip is very slightly widened and can then be easily slid under the runner blocks.



A special expanding tool can be used to create the sliding fit after a cover strip has been installed.

The main advantage is that the length  $L_S$  of the sliding fit can be optimized to suit the installation conditions.

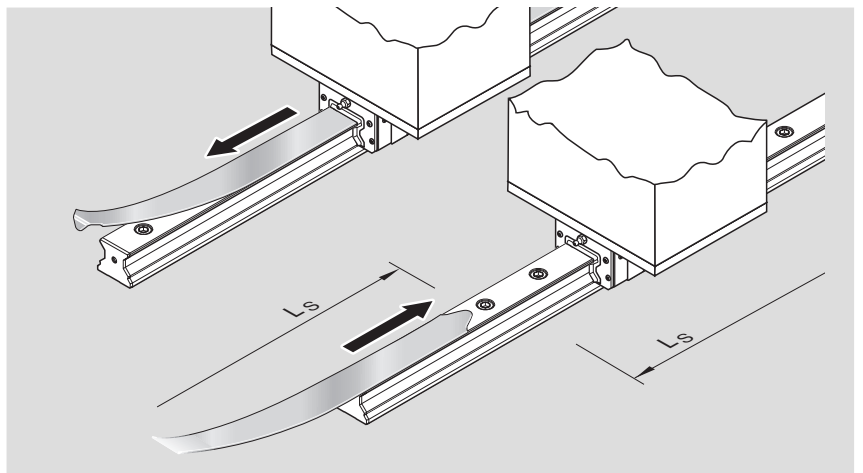
Please read the detailed mounting instructions!

For part numbers, see the following pages.

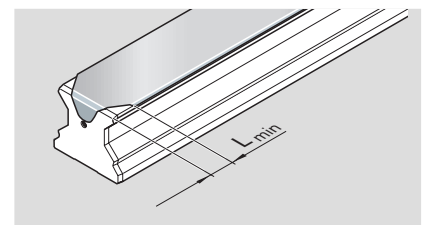
**⚠** The cover strip is a precision-machined part that must be handled with great care. It must on no account be bent.

**⚠** Do not allow the runner blocks to travel right to the rail end! The seals on the runner blocks could be damaged by the tapered edges of the cover strip.

- Maintain a minimum distance of  $L_{min}$



Size	$L_{min}$ mm
25	approx. 10.0
35-65	approx. 12.0
55/85	approx. 13.0
65/100	approx. 12.5
100	approx. 12.0
125	approx. 21.5



Accessories and Spare Parts

## Accessories for Guide Rails

### Cover strip, separate

For initial mounting, as spare part or as replacement part

#### Note

A matching cover strip (sliding or snap fit) can be supplied for each rail length (see previous page).

#### Ordering example

##### Standard snap-fit cover strip

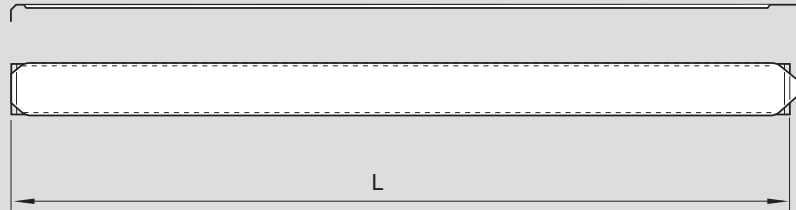
- Guide rail size 35
- Rail length  $L = 2696$  mm

##### Ordering data

Part number, length  $L$  (mm)

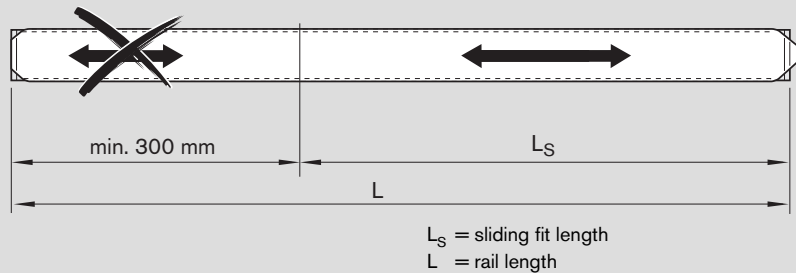
**R1619 330 20, 2696 mm**

#### Standard snap-fit cover strip



Size	Standard snap-fit cover strip Part number, length (mm)	Weight g/m
25	R1619 230 00, ...	25
35	R1619 330 20, ...	80
45	R1619 430 20, ...	100
55	R1619 530 20, ...	120
65	R1619 630 20, ...	140
55/85	R1810 532 20, ...	190
65/100	R1810 632 20, ...	220
100	R1810 231 20, ...	200
125	R1810 331 20, ...	270

#### Sliding-fit cover strip



#### Ordering example

##### Sliding-fit cover strip

- Guide rail size 35
- Rail length  $L = 2696$  mm
- Sliding fit length  $L_S = 1200$  mm

##### Ordering data

Part number, length  $L$  (mm),

Sliding fit length  $L_S$  (mm)

**R1619 330 30, 2696, 1200 mm**

Size	Sliding-fit cover strip Part number, length (mm)	Weight g/m
25	R1619 230 10, ...	25
35	R1619 330 30, ...	80
45	R1619 430 30, ...	100
55	R1619 530 30, ...	120
65	R1619 630 30, ...	140
55/85	R1810 532 30, ...	190
65/100	R1810 632 30, ...	220
100	R1810 231 30, ...	200
125	R1810 331 30, ...	270

Detailed information about how to order and mount cover strips is contained in our "Mounting Instructions for the Cover Strip."

Accessories and Spare Parts

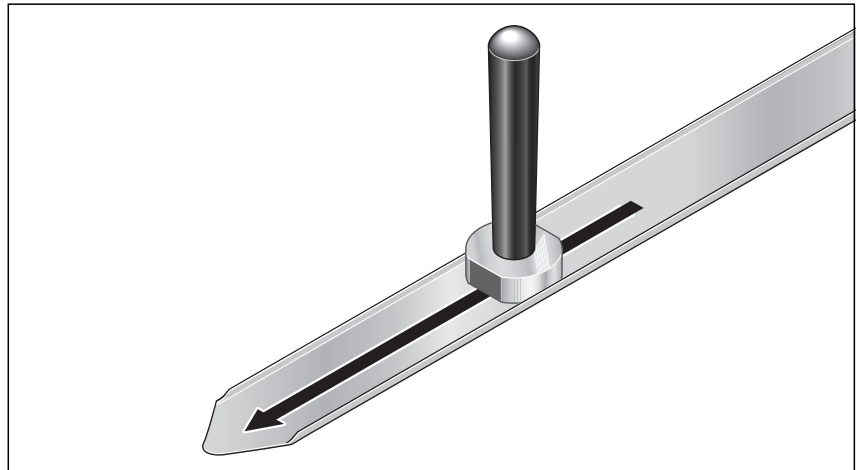
## Accessories for Guide Rails

### Expanding tool

For creating a sliding fit in the cover strip

#### Note

Detailed information about how to produce and mount sliding-fit cover strips is contained in our "Mounting Instructions for the Cover Strip."



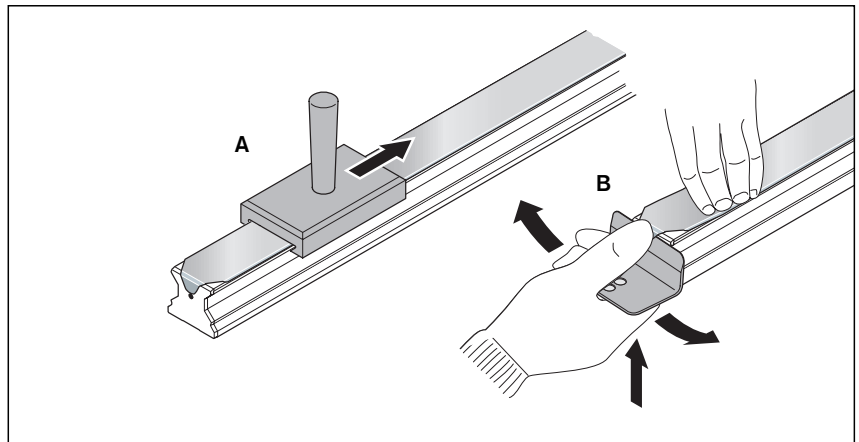
Size	Part numbers	Weight kg
25	R1619 215 10	0.08
35	R1619 315 30	0.10
45	R1619 415 30	0.13
55	R1619 515 30	0.21
65	R1619 615 30	0.27
55/85	R1810 592 30	on request
65/100	R1810 692 30	
100	R1810 291 30	
125	R1810 391 30	

### Cover strip mounting kit

Mounting tool and lift-off plate

#### Notes

The kit comprises a mounting tool (A) for clipping on the cover strip and a lift-off plate (B) for removing the cover strip. For detailed information, see "Mounting Instructions for the Cover Strip."



Size	Part numbers	Weight kg
25	R1619 210 70	0.17
35	R1619 310 50	0.21
45	R1619 410 50	0.20
55	R1619 510 50	0.21
65	R1619 610 50	0.28
55/85	R1810 592 53	on request
65/100	R1810 692 53	
100	R1810 291 53	
125	R1810 391 53	

Accessories and Spare Parts

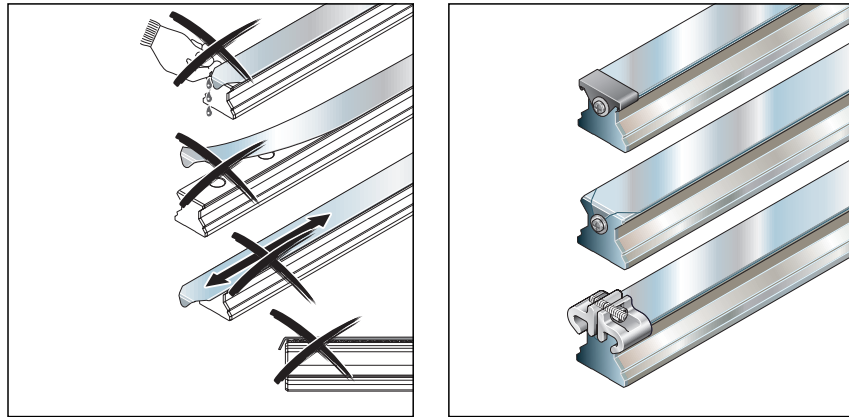
# Accessories for Guide Rails

## Parts for securing the cover strip

Rexroth recommends securing the cover strip with:

- Protective end caps
- Screws and washers
- Strip clamps

For other means of securing the cover strip, see "Mounting Instructions for the Cover Strip."



### Protective end caps

Size	Single cap		Bulk pack		Set (2 pieces per unit with screws)	
	Part numbers (without screws)	Weight g	Part numbers/qty (without screws)	Weight kg	Part numbers (unit)	Weight g
25	R1619 239 00	1	R1619 239 01 / 1000	1.3	R1619 239 20	7
35	R1619 339 10	2	R1619 339 01 / 1000	2.5	R1619 339 30	10
45	R1619 439 00	4	R1619 439 01 / 700	2.6	R1619 439 20	13
55	R1619 539 00	4	R1619 539 01 / 500	2.1	R1619 539 20	20
65	R1619 639 00	6	R1619 639 01 / 300	1.7	R1619 639 20	20

### Screws and washers

Size	Screws (1200 per unit)		Washers (1200 per unit)	
	Part numbers (unit)	Weight kg	Part numbers (unit)	Weight kg
25	R3427 046 05	1.8	R3448 026 01	0.92
35	R3427 046 05	1.8	R3448 024 01	1.30
45	R3427 046 05	1.8	R3448 024 01	1.30
55	R3427 046 05	1.8	R3448 027 01	2.90
65	R3427 046 05	1.8	R3448 027 01	2.90
55/85	R3427 046 05	1.8	R3448 027 01	2.90
65/100	R3427 046 05	1.8	R3448 027 01	2.90
100	R3427 046 05	1.8	R3448 027 01	2.90
125	R3427 046 05	1.8	R3448 027 01	2.90

### Strip clamps

Size	Set (2 pieces per unit)		Bulk pack (100 per unit)	
	Part numbers (unit)	Weight g	Part numbers (unit)	Weight kg
25	R1619 239 50	14	R1619 239 60	1.4
35	R1619 339 50	38	R1619 339 60	3.8
45	R1619 439 50	56	R1619 439 60	5.6
55	R1619 539 50	62	R1619 539 60	6.2
65	R1619 639 50	84	R1619 639 60	8.4

Accessories and Spare Parts

## Accessories for Guide Rails

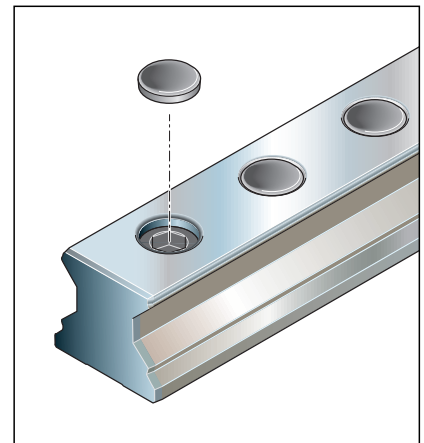
### Plastic mounting hole plugs

Size	Single plug		Bulk pack	
	Part numbers	Weight (g)	Part numbers/qty <sup>1)</sup>	Weight (g)
25	R1605 200 80	0.3	R1605 200 80 / 5000	1.2
35	R1605 300 80	0.6	R1605 300 80 / 2000	1.2
45	R1605 400 90	1.0	R1605 400 80 / 1000	1.0
55	R1605 500 90	1.7	R1605 500 80 / 500	0.8
65	R1605 600 90	2.1	–	–

1) When ordering bulk packs, add the required quantity to the part number of the single plug.

#### Mounting instructions

For details on how to mount the plastic plugs, see "Mounting Instructions for Roller Rail Systems."



### Steel mounting hole plugs

Size	Single plug made of machining steel		Single plug, Resist NR II <sup>1)</sup>	
	Part numbers	Weight (g)	Part numbers	Weight (g)
25	R1606 200 75	2	on request	on request
35	R1606 300 75	3		
45	R1606 400 75	6	R1606 400 78	6
55	R1606 500 75	8	R1606 500 78	8
65	R1606 600 75	9	R1606 600 78	9

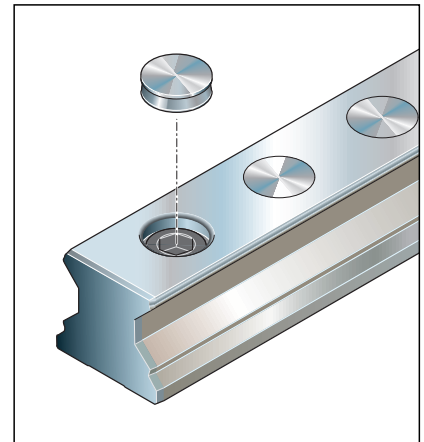
1) Single plug, Resist NR II made from corrosion-resistant steel 1.4305

#### Notes on delivery and mounting

Steel mounting hole plugs are not supplied with the guide rails.

**Order the mounting tool along with the plugs!**

For details on how to mount the steel plugs, see "Mounting Instructions for Roller Rail Systems."



### Mounting tool for steel mounting hole plugs

#### Two-piece

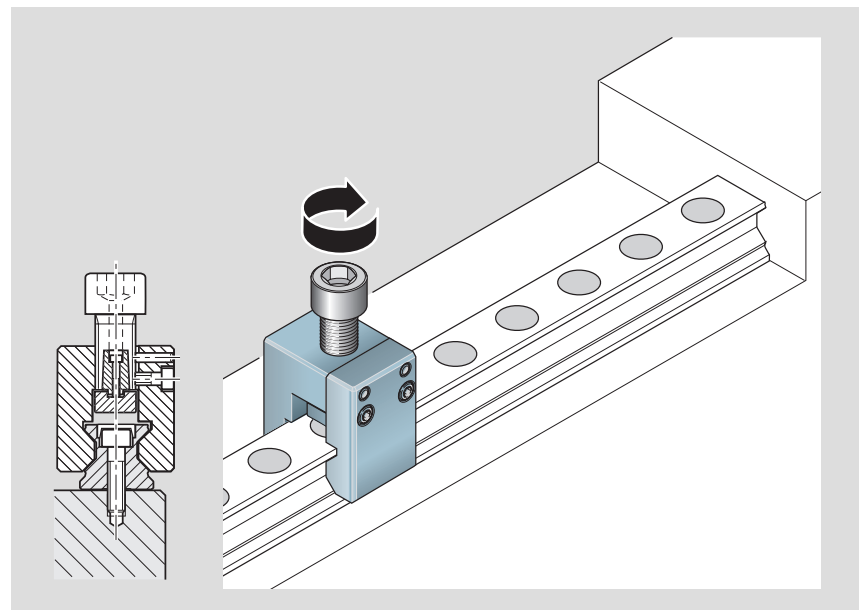
#### Notes

A mounting tool with mounting instructions is available for fitting steel mounting hole plugs.

The two-piece mounting tool is suitable for fitting plugs to a screwed down guide rail.

Size	Part numbers	Weight (kg)
25	R1619 210 20 <sup>1)</sup>	0.37
35	R1619 310 30	0.57
45	R1619 410 30	0.85
55	R1619 510 30	1.50
65	R1619 610 30	1.85

1) One-piece; two-piece on request



Accessories and Spare Parts

# General Accessories – Runner Blocks

## General accessories for runner blocks

### Lube nipples

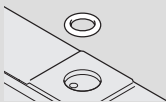


### Lube fittings



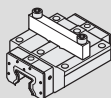
- Reducers
- Extension pieces
- Connectors
- Swivel fittings
- Tube connectors

### O-rings



### Mounting aid

For heavy duty runner blocks



...in the appropriate dimensions,  
suitable for...

...in the appropriate dimensions,  
suitable for...

## Standard runner blocks

### Flanged, normal, standard height FNS

Steel:

R1851 ... 10

R1851 ... 13 with Al end caps

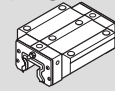
R1851 ... 16 for oil/grease lubrication from above

R1851 ... 17 for central oil lubrication systems

R1851 ... 18 for wall mounting

Resist CR<sup>1)</sup>:

R1851 ... 6. (last digit same as in corresponding steel runner block)



### Flanged, long, standard height FLS

Steel:

R1853 ... 10

R1853 ... 13 with Al end caps

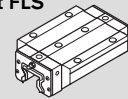
R1853 ... 16 for oil/grease lubrication from above

R1853 ... 17 for central oil lubrication systems

R1853 ... 18 for wall mounting

Resist CR<sup>1)</sup>:

R1853 ... 6. (last digit same as in corresponding steel runner block)



### Slimline, normal, high SNH

Steel:

R1821 ... 10

R1821 ... 13 with Al end caps

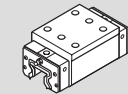
R1821 ... 16 for oil/grease lubrication from above

R1821 ... 17 for central oil lubrication systems

R1821 ... 18 for wall mounting

Resist CR<sup>1)</sup>:

R1821 ... 6. (last digit same as in corresponding steel runner block)



### Slimline, long, high SLH

Steel:

R1824 ... 10

R1824 ... 13 with Al end caps

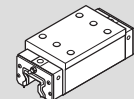
R1824 ... 16 for oil/grease lubrication from above

R1824 ... 17 for central oil lubrication systems

R1824 ... 18 for wall mounting

Resist CR<sup>1)</sup>:

R1824 ... 6. (last digit same as in corresponding steel runner block)

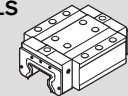


## Wide runner blocks

### Wide, long, standard height BLS

R1872 ... 10 Steel

R1872 ... 60 Resist CR<sup>1)</sup>

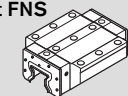


## Heavy duty runner blocks

### Flanged, normal, stand. height FNS

R1861 ... 10 Steel

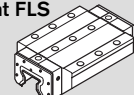
R1861 ... 60 Resist CR<sup>1)</sup>



### Flanged, long, standard height FLS

R1863 ... 10 Steel

R1863 ... 60 Resist CR<sup>1)</sup>



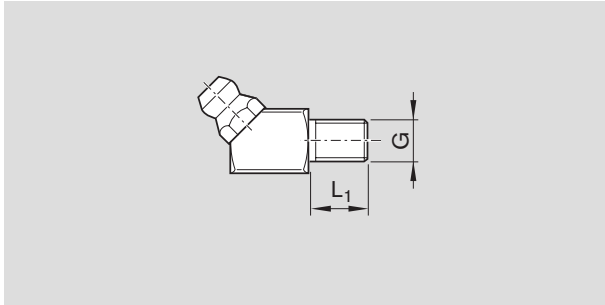
1) Corrosion-resistant runner blocks, Resist CR, matte silver hard chrome plated, replace the runner blocks with zinc-iron coating.

Accessories and Spare Parts

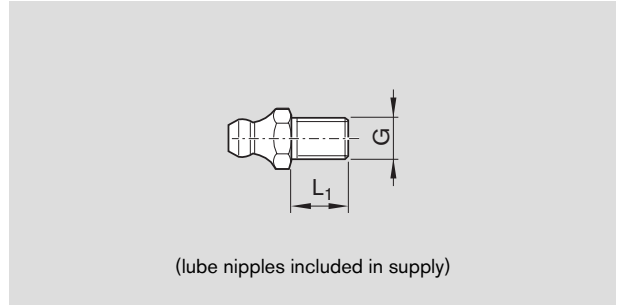
# General Accessories – Runner Blocks

## Lube nipples

### Hydraulic type lube nipple



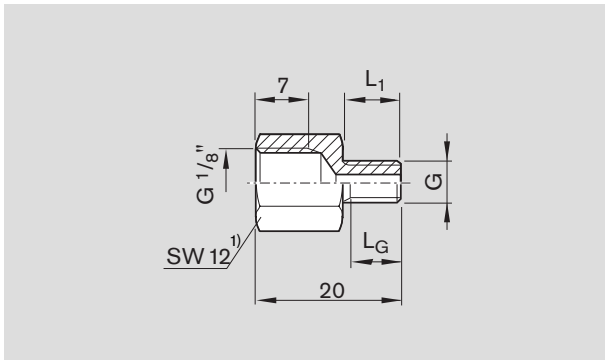
Part numbers	Dimensions (mm)		Weight g
	G	L <sub>1</sub>	
R3417 007 02	M6	8	7.4
R3417 010 02	M8x1	10	7.8



Part numbers	Dimensions (mm)		Weight g
	G	L <sub>1</sub>	
R3417 008 02	M6	8	2.6
R3417 014 02	M8x1	10	4.5

## Lube fittings

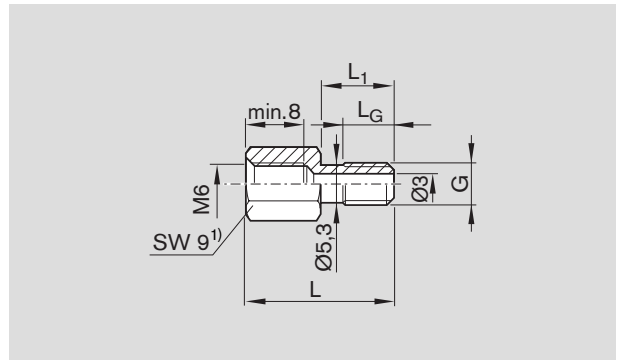
### Reducers



Part numbers	Dimensions (mm)			Weight g
	G	L <sub>1</sub>	L <sub>G</sub>	
R3455 030 34	M6	8	6.5	7.5
R3455 030 51	M8x1	8	6.5	8.6

1) SW = WAF (width across flats)

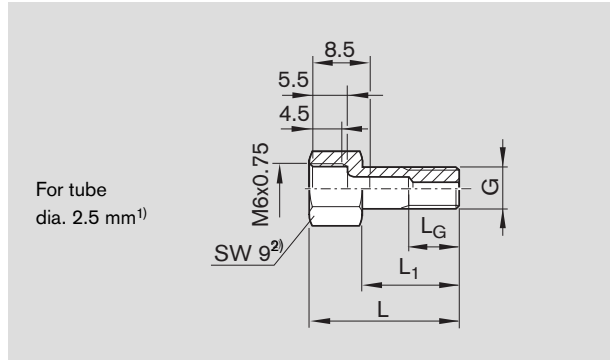
### Extension pieces



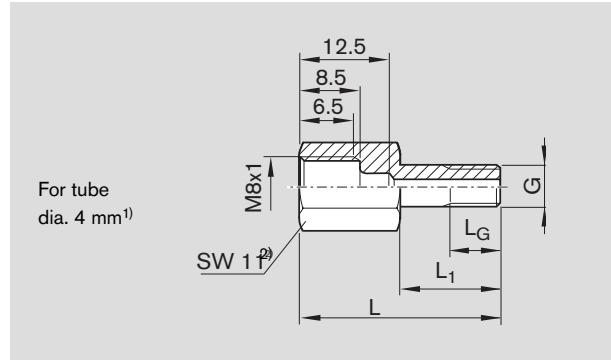
Part numbers	Dimensions (mm)				Weight g
	G	L	L <sub>1</sub>	L <sub>G</sub>	
R3455 030 69	M6	21.0	10.5	7	5.0
R3455 030 87	M6	25.0	14.5	8	5.5
R3455 030 85	M6	26.5	16.0	7	5.0

# General Accessories – Runner Blocks

## Connectors



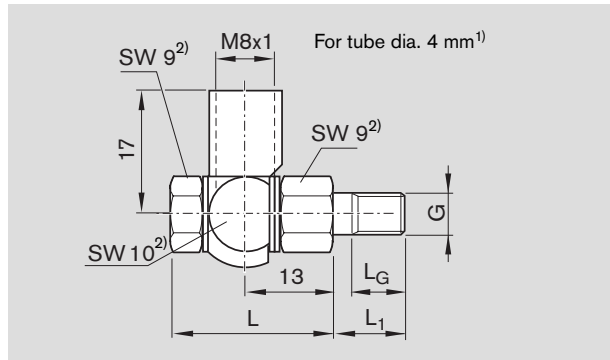
Part numbers	Dimensions (mm)				Weight g
	G	L	L <sub>1</sub>	L <sub>G</sub>	
R3455 030 38	M6	15.5	8.0	6.5	4.1
R3455 030 92	M6	17.3	9.8	7.5	5.0
R3455 030 90	M6	20.0	12.5	8.0	5.0
R3455 030 50	M6	22.0	14.5	8.0	5.2
R3455 030 89	M6	24.0	16.5	8.0	5.0



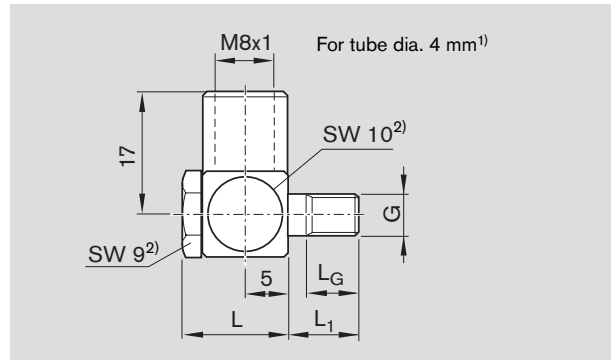
Part numbers	Dimensions (mm)				Weight g
	G	L	L <sub>1</sub>	L <sub>G</sub>	
R3455 030 37	M6	22.0	8.0	6.5	8.8
R3455 030 79	M6	23.8	9.8	7.5	10.0
R3455 030 88	M6	28.5	14.5	8.0	10.0
R3455 030 52	M6	30.0	16.0	8.0	10.4

- 1) For connections as per DIN 3854 and DIN 3862 (solderless tube fittings)
- 2) SW = WAF (width across flats)

## Swivel fittings



Part numbers	Dimensions (mm)				Weight g
	G	L	L <sub>1</sub>	L <sub>G</sub>	
R3417 018 09	M6	22	8.0	6.5	17.5
R3417 045 09	M6	22	9.8	7.5	17.0
R3417 044 09	M6	22	12.5	8.0	20.0
R3417 023 09	M6	22	14.5	8.0	18.8
R3417 043 09	M6	22	16.5	8.0	20.0



Part numbers	Dimensions (mm)				Weight g
	G	L	L <sub>1</sub>	L <sub>G</sub>	
R3417 047 09	M6	12	8.0	8.0	10
R3417 048 09	M6	12	9.8	8.5	10

- 1) For connections as per DIN 3854 and DIN 3862 (solderless tube fittings)
- 2) SW = WAF (width across flats)

Accessories and Spare Parts

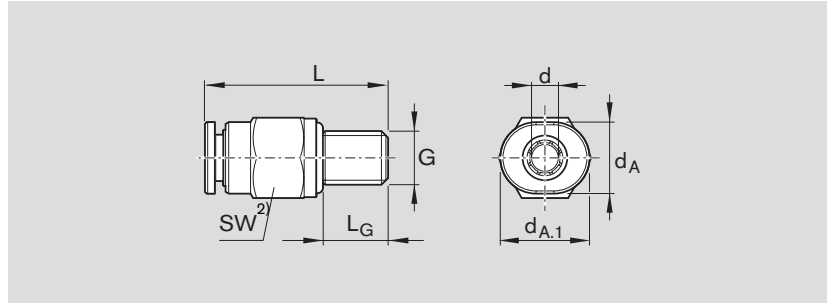
# General Accessories – Runner Blocks

## Tube connectors

### Tube materials

- Copper
- Brass
- PU
- Nylon

### Straight connector

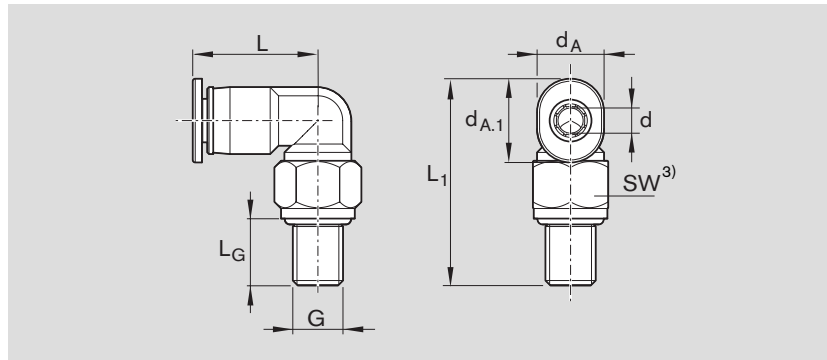


Part numbers	Dimensions (mm)							Weight g
	d <sub>A</sub>	d <sub>A.1</sub>	d <sup>1)</sup>	G	L	L <sub>G</sub>	WAF	
R3417 035 09	8.5	10	4	M6	20.5	8	9	4.6
R3417 036 09	10.0	12	6	M6	21.5	8	10	4.8

1) Tube diameter

2) SW = WAF (width across flats)

### Angled socket connector, rotatable<sup>1)</sup>



Part numbers	Dimensions (mm)							Weight g	
	d <sub>A</sub>	d <sub>A.1</sub>	d <sup>2)</sup>	G	L	L <sub>1</sub>	L <sub>G</sub>		WAF
R3417 038 09	8.0	10	4	M6	14.95	24.7	8	9	5.1
R3417 039 09	10.5	12	6	M6	15.90	24.9	8	9	6.1

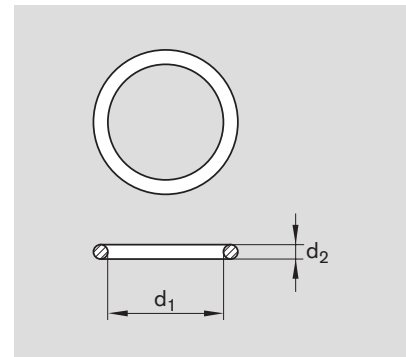
1) Maximum lubricating pressure: 30 bar (exerting slow pressure with manual grease gun)

2) Tube diameter

3) SW = WAF (width across flats)

## O-rings





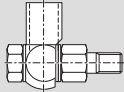

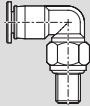
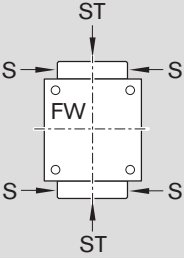
Part numbers	d <sub>1</sub> x d <sub>2</sub> mm	Weight g
R3411 128 01	4 x 1.5	0.03
R3411 108 01	5 x 1.5	0.04
R3411 136 01	6 x 1.0	0.02
R3411 004 01	6 x 2.0	0.09
R3411 122 01	7 x 1.5	0.06
R3411 008 01	8 x 2.0	0.12
R3411 135 01	10 x 1.5	0.08
R3411 018 01	12 x 1.5	0.09
R3411 145 01	15 x 2.5	0.34



Accessories and Spare Parts

# General Accessories – Runner Blocks

## Combination options for lube fittings

Hydraulic type lube nipple		R3417 007 02 R3417 008 02 M6x8 long						
Reducers		R3455 030 34 M6x8 to G 1/8						
Extension pieces					R3455 030 87 M6x14.5 to M6			
Connectors		R3455 030 38 M6x8 to M6x0.75 for tube dia. 2.5	R3455 030 92 M6x9.8 to M6x0.75 for tube dia. 2.5	R3455 030 90 M6x12.5 to M6x0.75 for tube dia. 2.5	R3455 030 50 M6x14.5 to M6x0.75 for tube dia. 2.5	R3455 030 89 M6x16.5 to M6x0.75 for tube dia. 2.5		
Swivel fittings								
Straight connector								
Angled socket connector, rotatable								
<b>Roller runner blocks</b>								
Connection points	Version	Size						
	Standard RB	25	ST	-	-	-	-	
		35	S, ST	-	-	-	-	
		45	S, ST <sup>1)</sup>	ST <sup>2)</sup>	-	-	-	
		55	S, ST <sup>1)</sup>	ST <sup>2)</sup>	-	-	-	
		65	S, ST <sup>1)</sup>	ST	-	-	-	
	Wide RB	55/85	S, ST	-	-	-	-	
		65/100	S, ST	ST	-	-	-	
	Heavy duty RB	100	-	-	-	-	-	
		125	-	-	-	-	-	
	Standard RB with metal scraper R1820 .10 00 or ... 40	25	-	-	ST	-	-	
		35	S	-	ST	-	-	
		45	S	-	-	ST <sup>3)</sup>	-	
		55	S	-	-	ST <sup>3)</sup>	-	
		65	S	-	-	ST	-	
	Standard RB with Viton seal R1810 .00 30/40/70/75 or NBR seal R1810 .00 90/95	25	-	-	-	ST	-	
		35	S	-	-	ST <sup>3)</sup>	-	
		45	S	-	-	ST <sup>3)</sup>	-	
		55	S	-	-	ST	-	
	Standard RB with Viton/NBR seal R1810 .00 70/75/90/95 and metal scraper R1820 .10 40 or Viton seal/metal scraper set R1810 .05 70	25	-	-	-	-	-	
		35	S	-	-	ST	-	
45		S	-	-	-	ST <sup>3)</sup>		
55		S	-	-	-	ST		
	65	S	-	-	-	ST		

S = Connection at side of runner block (RB) end cap  
ST = Connection at end face of runner block (RB) end cap

							R3417 010 02	R3417 014 02	
							M8x1x10		
							R3455 030 51	R3455 030 51	
							M8x1x8 to		
							G 1/8		
						R3455 030 85			
						M6x16 to			
						M6			
		R3455 030 37	R3455 030 79		R3455 030 88	R3455 030 52			
		M6x8 to	M6x9.8 to		M6x14.5 to	M6x16 to			
		M8x1 for	M8x1 for		M8x1 for	M8x1 for			
		tube dia. 4	tube dia. 4		tube dia. 4	tube dia. 4			
		R3417 018 09	R3417 045 09	R3417 044 09	R3417 023 09		R3417 043 09		
		R3417 047 09	R3417 048 09	M6x12.5 to	M6x14.5 to		M6x16.5 to		
		M6x8 to	M6x9.8 to	M8x1 for	M8x1 for		M8x1 for		
		M8x1 for	M8x1 for	tube dia. 4	tube dia. 4		tube dia. 4		
		tube dia. 4	tube dia. 4						
		R3417 035 09							
		R3417 036 09							
		M6x8 for tube							
		dia. 4 and 6							
		R3417 038 09							
		R3417 039 09							
		M6x8 for tube							
		dia. 4 and 6							
	Roller runner blocks								
	Size								
	25	ST	-	-	-	-	-	-	
	35	S, ST	-	-	-	-	-	-	
	45	S, ST <sup>1)</sup>	ST <sup>2)</sup>	-	-	-	-	-	
	55	S, ST <sup>1)</sup>	ST <sup>2)</sup>	-	-	-	-	-	
	65	S, ST <sup>1)</sup>	ST	-	-	-	-	-	
	55/85	S, ST	-	-	-	-	-	-	
	65/100	S, ST	ST	-	-	-	-	-	
	100	-	-	-	-	-	-	S, ST	
	125	-	-	-	-	-	-	S, ST	
	25	-	-	ST	-	-	-	-	
	35	S	-	ST	-	-	-	-	
	45	S	-	-	ST <sup>3)</sup>	-	-	-	
	55	S	-	-	ST <sup>3)</sup>	-	-	-	
	65	S	-	-	ST	-	-	-	
	25	-	-	-	ST	-	-	-	
	35	S	-	-	ST <sup>3)</sup>	-	-	-	
	45	S	-	-	ST <sup>3)</sup>	-	-	-	
	55	S	-	-	(ST)	ST <sup>2)</sup>	-	-	
	65	S	-	-	(ST)	ST	-	-	
	25	-	-	-	-	-	-	-	
	35	S	-	-	ST	-	-	-	
	45	S	-	-	-	ST	ST <sup>3)</sup>	-	
	55	S	-	-	-	ST	ST	-	
	65	S	-	-	-	ST	ST	-	

1) Preferred M6x9.8

2) Not for runner blocks R18.. ... 13

3) For runner blocks R18.. ... 13 with aluminum end caps,  
reduce the screwed-in length (using a 0.5 mm washer)

Accessories and Spare Parts

## General Accessories – Runner Blocks

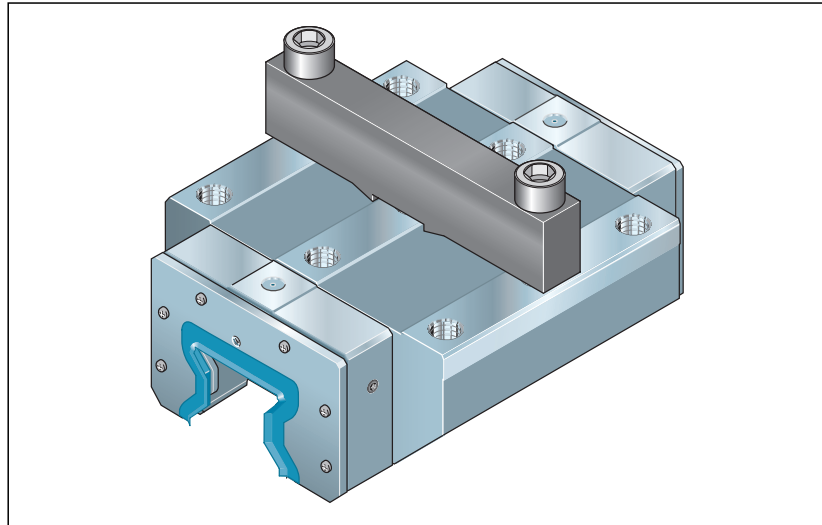
### Mounting aid for heavy duty runner blocks

**Note**

For size 125:

The mounting aid expands the runner block elastically, making it easier to slide it onto the guide rail.

Bolts M27x100 not included in supply.



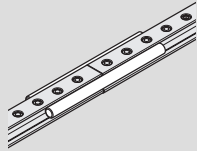
Size	Part numbers	Weight kg
100	R1869 240 09	on request
125	R1869 340 09	7

Accessories and Spare Parts

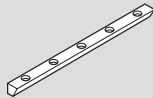
## General Accessories – Guide Rails

### General accessories

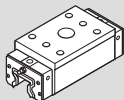
**Adjusting shafts**  
Mounting aid  
for composite guide rails



**Wedge profile**  
Mounting aid  
for lateral retention of guide rails



**Mounting runner block**  
Mounting aid  
for parallel alignment  
of standard guide rails

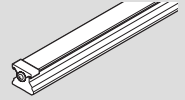


...in the appropriate dimensions,  
suitable for...

### Standard guide rails

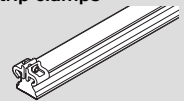
For mounting from above,  
with cover strip and  
screw-down protective caps

R1805 .6. ..  
Steel  
R1845 .6. ..  
Resist CR<sup>1)</sup>



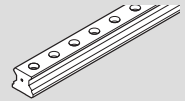
For mounting from above,  
with cover strip and strip clamps

R1805 .3. ..  
Steel  
R1845 .3. ..  
Resist CR<sup>1)</sup>



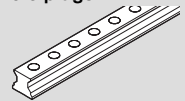
For mounting from above,  
for cover strip

R1805 .2. ..  
Steel  
R1845 .7. ..  
Resist CR<sup>1)</sup>



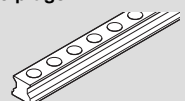
For mounting from above,  
with plastic mounting hole plugs

R1805 .5. ..  
Steel  
R1845 .0. ..  
Resist CR<sup>1)</sup>



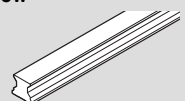
For mounting from above,  
for steel mounting hole plugs

R1806 .5. ..  
Steel  
R1846 .0. ..  
Resist CR<sup>1)</sup>



For mounting from below

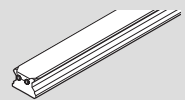
R1807 .0. ..  
Steel  
R1847 .0. ..  
Resist CR<sup>1)</sup>



### Wide guide rails

With cover strip, screws and washers

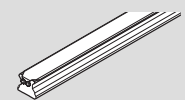
R1875 .6. ..  
Steel  
R1873 .6. ..  
Resist CR<sup>1)</sup>



### Heavy duty guide rails

With cover strip, screws and washers

R1835 .6. ..  
Steel  
R1865 .6. ..  
Resist CR<sup>1)</sup>



1) Corrosion-resistant guide rails, Resist CR, matte silver hard chrome plated, replace the guide rails with zinc-iron coating.

Accessories and Spare Parts

## General Accessories – Guide Rails

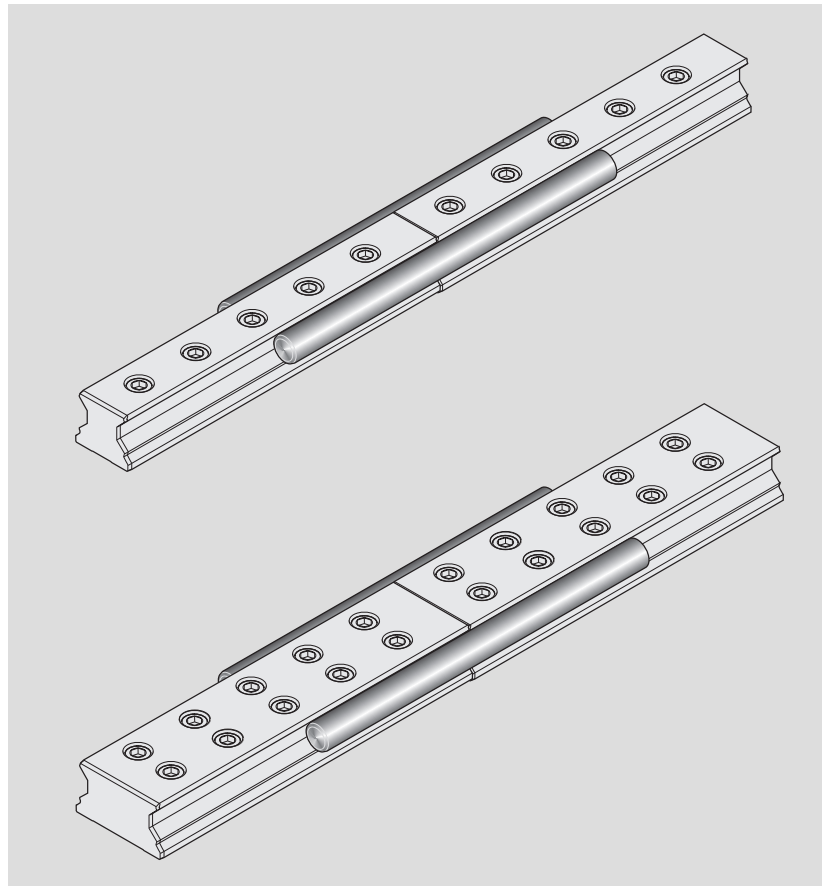
### Adjusting shafts

#### Mounting aid for composite guide rails

#### Notes

Adjusting shafts are especially helpful when there is no reference edge.

Observe the "Mounting Instructions for Roller Rail Systems."



#### Note for ordering

Always order **two** adjusting shafts for mounting.

Size	Part numbers Adjusting shaft (single)	Dimensions (mm)		Weight kg
		Shaft dia.	Length	
25	–	–	–	–
35	R1810 390 01	20	160	0.4
45	R1810 490 01	25	200	0.8
55	R1810 590 01	30	250	1.4
65	R1810 690 01	35	300	2.3
55/85	R1810 590 01	30	250	1.4
65/100	R1810 690 01	35	300	2.3
100	R1810 291 01	75	400	13.9
125	R1810 391 01	80	600	23.7

Accessories and Spare Parts

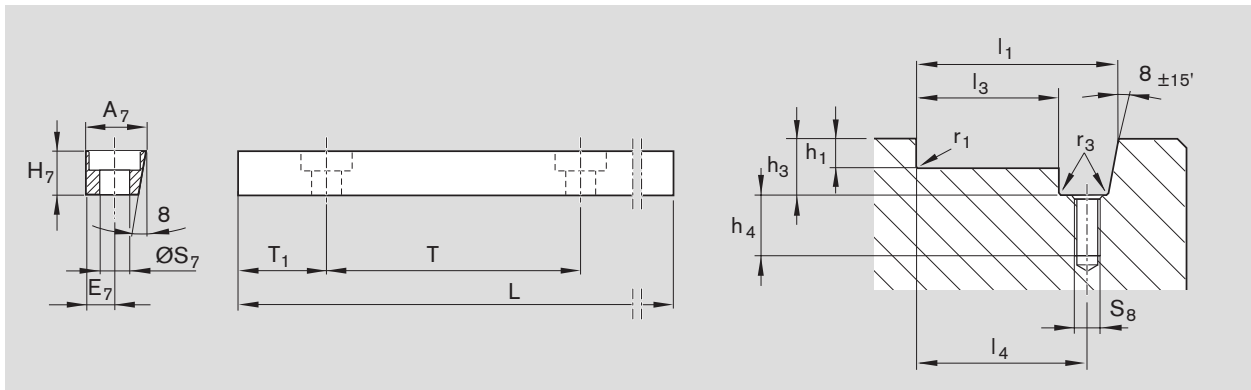
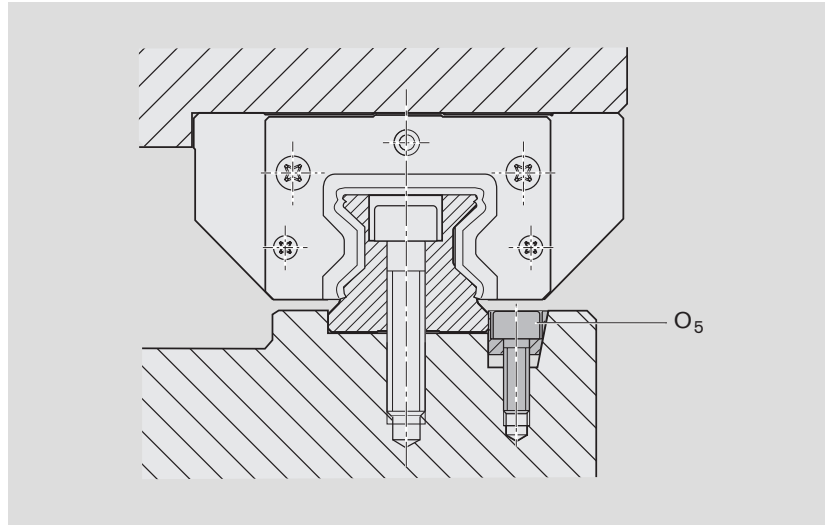
## General Accessories – Guide Rails

### Wedge profile

Mounting aid for lateral retention of guide rails

Material: steel  
Version: black finished

Observe the "Mounting Instructions for Roller Rail Systems."



### Wedge profile

Size	Part numbers	Dimensions (mm)								Weight kg
		A <sub>7</sub>	E <sub>7</sub>	H <sub>7</sub>	L	O <sub>5</sub> <sup>1)</sup>	S <sub>7</sub>	T	T <sub>1</sub>	
25	R1619 200 01	12.0	6	10	957	M5x20	6.0	60	28.5	0.8
35										
45										
55										
65	R1619 400 01	19.0	9	16	942	M8x25	9.0	105	51.0	2.0
55										
65	R1810 291 02	34.0	16	23	938	M12x35	13.5	105	49	5.3
100 <sup>2)</sup>										
125		R1810 391 02	47.5	23	30	954	M16x45	17.5	120	

1) Screw O<sub>5</sub> to DIN 6912

2) Size 100 on request

### Wedge profile groove

Size	Dimensions (mm)								
	h <sub>1</sub> <sup>-0.2</sup>	h <sub>3</sub> <sup>+1</sup>	h <sub>4</sub> <sup>+2</sup>	l <sub>1</sub> <sup>±0.05</sup>	l <sub>3</sub> <sup>-0.1</sup>	l <sub>4</sub> <sup>±0.1</sup>	r <sub>1</sub> max	r <sub>3</sub> max	S <sub>8</sub>
25	4.5	12.5	15	35.1	22.9	29	0.8	0.5	M5
35	5.0	12.5	15	46.1	33.9	40	0.8	0.5	M5
45	7.0	19.0	16	64.1	44.9	54	0.8	0.5	M8
55	9.0	19.0	16	72.1	52.9	62	1.2	0.5	M8
65	9.0	19.0	16	82.1	62.9	72	1.2	0.5	M8
100	12.0	26.0	20	134.0	99.9	116	1.8	1.0	M12
125	20.0	34.0	29	172.6	124.9	148	1.8	1.0	M16

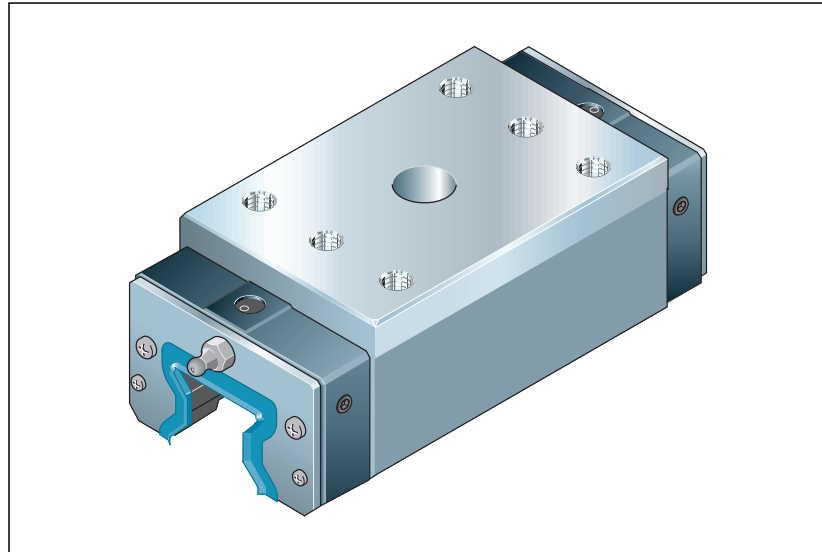
Accessories and Spare Parts

## General Accessories – Guide Rails

### Mounting runner block

**SLH R1829**  
Slimline, long, high

Mounting aid for parallel alignment of  
standard guide rails



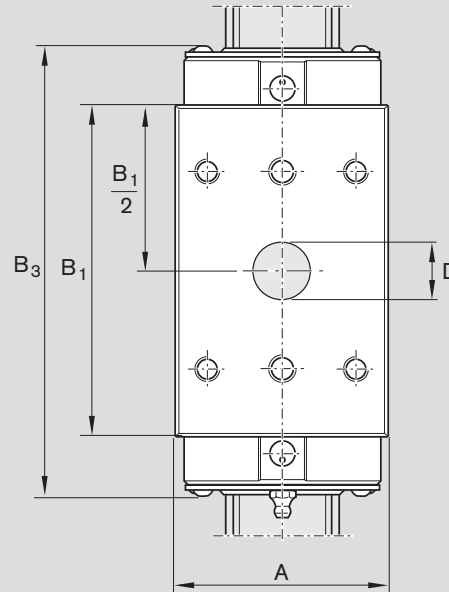
Size	Part numbers for preload class C3
25	R1829 220 27
35	R1829 320 39
45	R1829 420 53
55	R1829 520 14
65	R1829 620 04

#### Preload class

C3 = preload 13% C

**Note**

Hole D serves both as key hole and screw hole.

**Mounting runner block SLH R1829**

Size	Dimensions <sup>1)</sup> (mm)				Weight kg
	A	B <sub>1</sub>	B <sub>3</sub>	D	
25	48	81.5	115	19	0.8
35	70	103.6	145	25	1.9
45	86	134.0	183	27	4.0
55	100	162.1	216	27	6.0
65	126	194.0	264	30	11.8

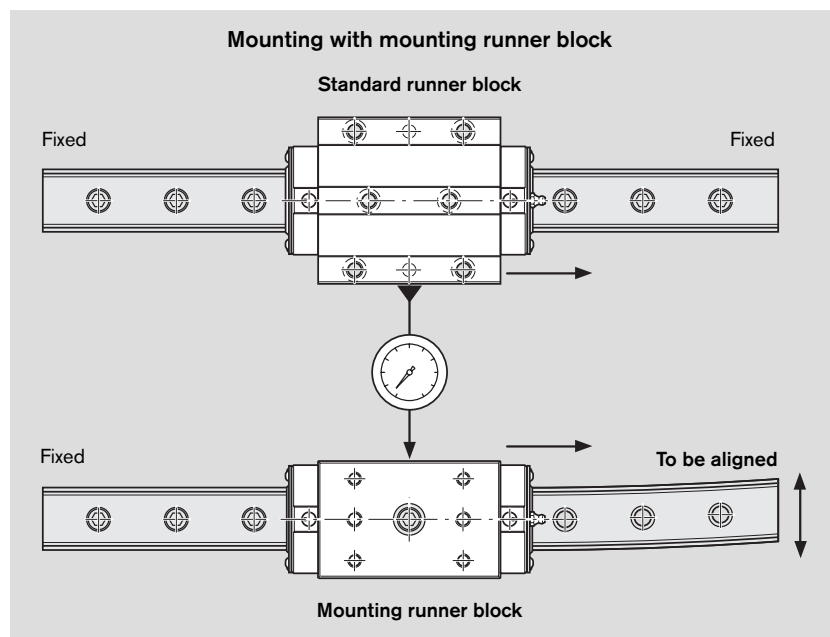
1) For all other dimensions, see runner blocks SLH R1824 ... 10

**Mounting with mounting runner block**

The central hole D in the mounting runner block allows precise measurement of the relative rail position. The rail mounting screws can also be driven down through this hole.

**Aligning the rails**

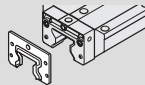
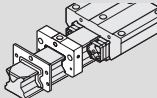
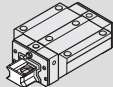
- Align and mount the first rail using a graduated straightedge.
- Set up a mounting bridge with dial gauge between the runner blocks.
- Move both runner blocks in parallel until hole D in the mounting runner block is positioned precisely above a mounting hole in the rail.
- Align the guide rail manually until the dial gauge shows the correct dimension.
- Then screw down the rail through hole D in the mounting runner block.

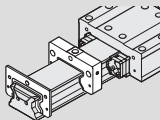
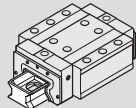


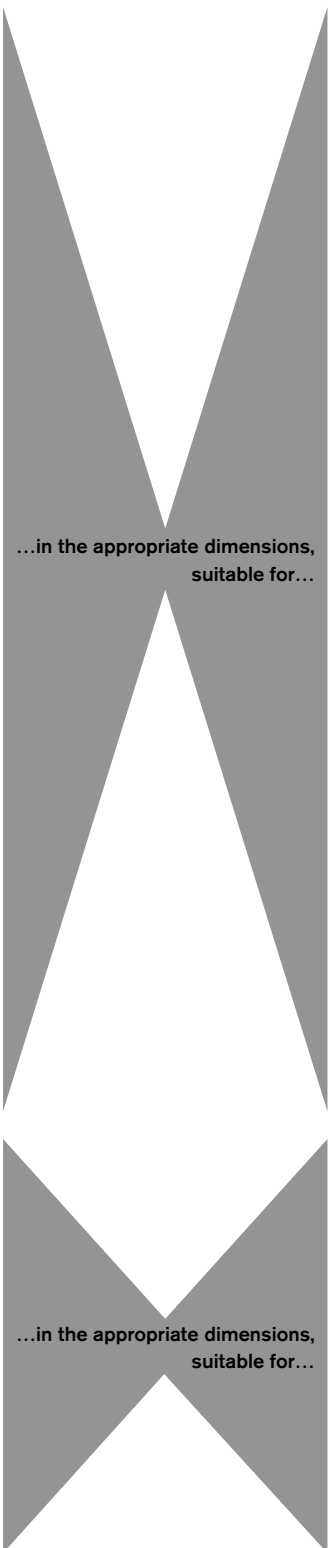
Accessories and Spare Parts

# Spare Parts

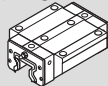
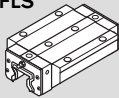
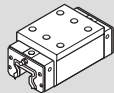
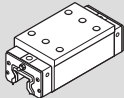
## Spare parts for runner blocks

<p><b>End seal</b> Only for replacement on <b>new</b> runner block</p> 
<p><b>Set of end caps with end seals</b> For replacement as part of system servicing</p> 
<p><b>Transport and mounting arbor</b></p> 

<p><b>Set of end caps with end seals</b> For replacement as part of system servicing</p> 
<p><b>Transport and mounting arbor</b></p> 



## Standard runner blocks

<p><b>Flanged, normal, standard height FNS</b> Steel: R1851 ... 10 R1851 ... 13 with Al end caps R1851 ... 16 for oil/grease lubrication from above R1851 ... 17 for central oil lubrication systems R1851 ... 18 for wall mounting Resist CR<sup>1)</sup>: R1851 ... 6. (last digit same as in corresponding steel runner block)</p> 
<p><b>Flanged, long, standard height FLS</b> Steel: R1853 ... 10 R1853 ... 13 with Al end caps R1853 ... 16 for oil/grease lubrication from above R1853 ... 17 for central oil lubrication systems R1853 ... 18 for wall mounting Resist CR<sup>1)</sup>: R1853 ... 6. (last digit same as in corresponding steel runner block)</p> 
<p><b>Slimline, normal, high SNH</b> Steel: R1821 ... 10 R1821 ... 13 with Al end caps R1821 ... 16 for oil/grease lubrication from above R1821 ... 17 for central oil lubrication systems R1821 ... 18 for wall mounting Resist CR<sup>1)</sup>: R1821 ... 6. (last digit same as in corresponding steel runner block)</p> 
<p><b>Slimline, long, high SLH</b> Steel: R1824 ... 10 R1824 ... 13 with Al end caps R1824 ... 16 for oil/grease lubrication from above R1824 ... 17 for central oil lubrication systems R1824 ... 18 for wall mounting Resist CR<sup>1)</sup>: R1824 ... 6. (last digit same as in corresponding steel runner block)</p> 

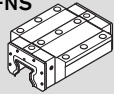
**Wide runner blocks**

**Wide, long, standard height BLS**  
R1872 ... 10 Steel  
R1872 ... 60 Resist CR<sup>1)</sup>

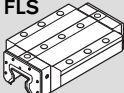


**Heavy duty runner blocks**

**Flanged, normal, stand. height FNS**  
R1861 ... 10 Steel  
R1861 ... 60 Resist CR<sup>1)</sup>



**Flanged, long, standard height FLS**  
R1863 ... 10 Steel  
R1863 ... 60 Resist CR<sup>1)</sup>



1) Corrosion-resistant runner blocks, Resist CR, matte silver hard chrome plated, replace the runner blocks with zinc-iron coating.

Accessories and Spare Parts

## Spare Parts

### End seal

**Only for replacement on new runner block**

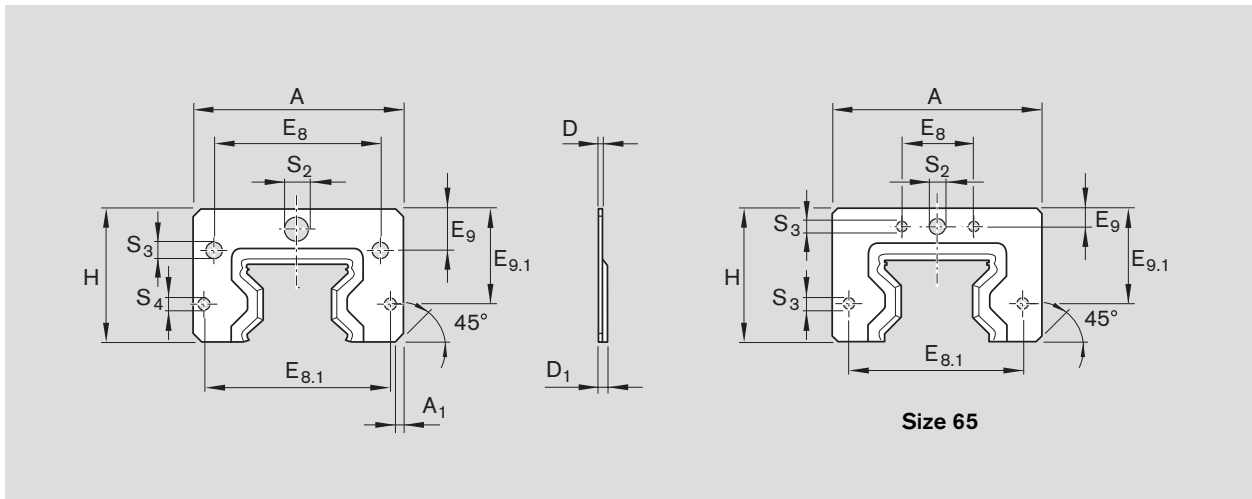
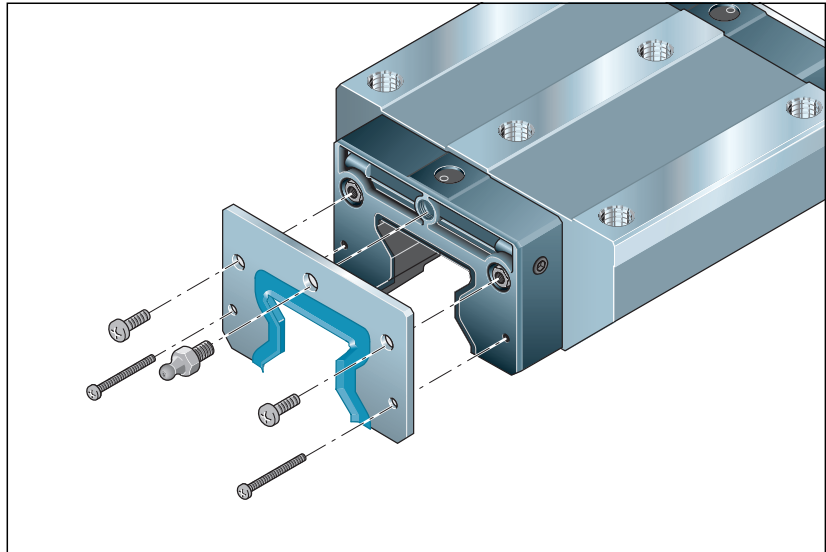
- Material: corrosion-resistant spring steel to EN 10088 with polymer seal
- Version: bright

#### Mounting instructions

Comes complete with mounting screws.

- Dispose of the old screws.

For detailed information on mounting, see "Mounting Instructions for Roller Rail Systems."



Size	Part numbers Kit <sup>1)</sup>	Dimensions (mm)												Weight g
		A	A <sub>1</sub>	D	D <sub>1</sub>	E <sub>8</sub>	E <sub>8.1</sub>	E <sub>9</sub>	E <sub>9.1</sub>	H	S <sub>2</sub>	S <sub>3</sub>	S <sub>4</sub>	
25	R1810 210 00	44.0	1.2	1.0	2.6	33.4	40.2	7.9	20.7	28.5	7	4.0	3.0	13
35 <sup>2)</sup>	R1810 310 00	63.0	2.0	1.0	2.6	50.3	56.6	12.4	28.4	39.8	7	4.0	3.0	20
45 <sup>2)</sup>	R1810 410 00	77.0	2.0	2.0	4.0	62.9	69.6	16.0	35.8	49.8	7	5.0	4.0	46
55 <sup>2)</sup>	R1810 510 00	90.5	2.0	2.0	4.8	74.2	81.6	18.2	40.0	56.2	7	6.0	4.0	58
65	R1810 610 00	119.0	3.0	2.0	5.0	35.0	106.0	8.3	54.0	74.5	7	5.0	5.0	108
100	R1810 211 00	181.0	2.0	2.5	5.5	130.0	162.6	28.4	61.0	104.0	9	6.0	6.0	280
125	R1810 311 00	230.0	5.0	3.0	6.0	205.0	205.0	38.0	90.0	133.0	9	6.5	6.5	530

1) Kit with screws

2) Kit for runner block R18... 18 or ... 68 (wall mounting) on request

Accessories and Spare Parts

# Spare Parts

## Set of end cap with end seal

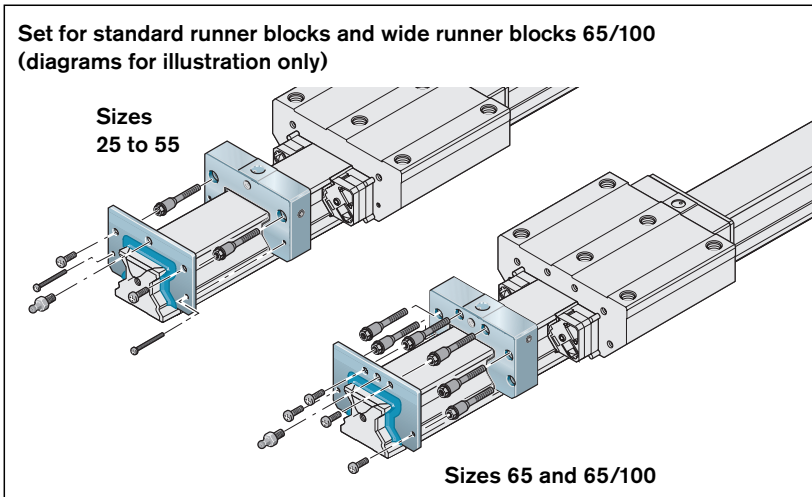
For replacement as part of runner block servicing

### Mounting instructions

Comes complete with mounting screws.

- Dispose of the old screws.

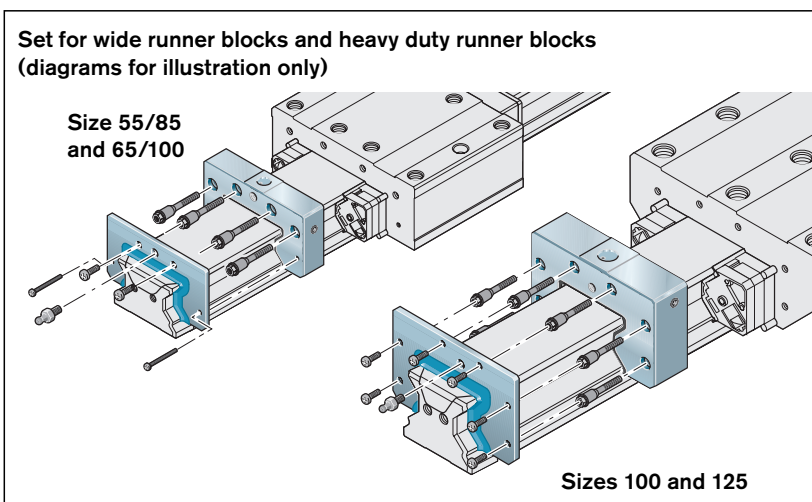
For detailed information on mounting, see "Mounting Instructions for Roller Rail Systems."



Size	Part numbers for set of end cap with end seal to match standard runner blocks						
	R18... .. 10 R18... .. 60	with Al end caps R18... .. 13 R18... .. 63	for oil/grease lubrication from above R185... .. 16 R185... .. 66	R182... .. 16 R182... .. 66	for central oil lubrication systems R185... .. 17 R185... .. 67	R182... .. 17 R182... .. 67	for wall mounting R18... .. 18 R18... .. 68
25	R1810 290 10	–	R1810 290 81	R1810 290 82	–	–	–
35	R1810 390 10	R1810 390 60	R1810 390 81	R1810 390 82	R1810 390 83	R1810 390 84	R1810 390 80
45	R1810 490 10	R1810 490 60	R1810 490 81	R1810 490 82	R1810 490 83	R1810 490 84	R1810 490 80
55	R1810 590 10	R1810 590 60	R1810 590 81	R1810 590 82	R1810 590 83	R1810 590 84	R1810 590 80
65	R1810 690 10	R1810 690 60	R1810 690 81	R1810 690 81	–	–	R18... .. 1) <sup>1)</sup>

1) Runner block R1859 620 31 size 65 (only) for wall mounting on request

Size	Weight of set with end caps made from	
	plastic kg	aluminum kg
25	0.03	–
35	0.05	0.07
45	0.09	0.15
55	0.12	0.18
65	0.26	0.42
55/85	–	0.30
65/100	–	0.65
100	0.61	–
125	–	2.30



Size	Part numbers for set of end cap with end seal to match	
	Wide runner blocks R1872 ... 10 and R1872 ... 60	Heavy duty runner blocks R186... .. 10 and R186... .. 60
55/85	R1810 592 60 <sup>1)</sup>	–
65/100	R1810 692 60 <sup>1)</sup>	–
100	–	R1810 291 10
125	–	R1810 391 60 <sup>1)</sup>

1) Aluminum end caps

Accessories and Spare Parts

## Spare Parts

### Transport and mounting arbor for runner blocks

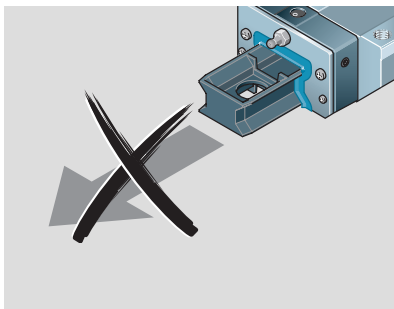
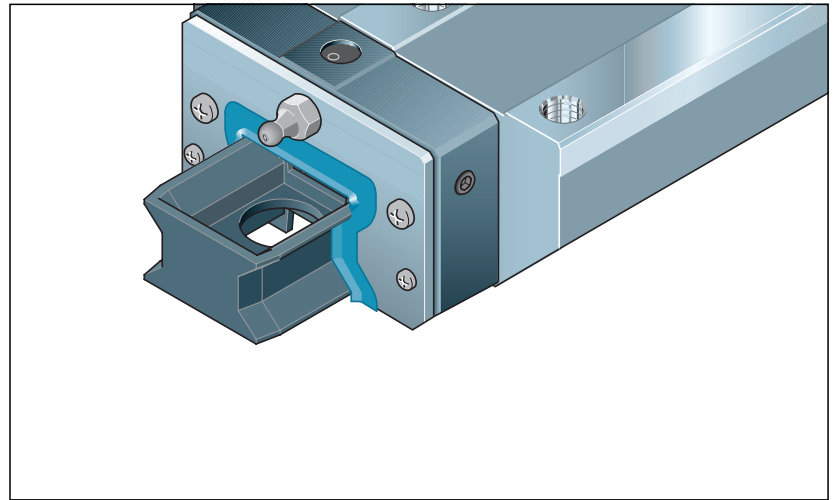
For shipping and as a mounting aid

- Material: plastic

#### Notes

The runner block simply slides off its arbor and onto the rail.  
Please refer to the “Mounting Instructions” section.

**⚠** The mounting arbor must remain in the runner block until the block is pushed onto the guide rail. Otherwise, rollers may be lost!



Size	Standard		Long	
	Part numbers	Weight (g)	Part numbers	Weight (g)
25	R1851 200 91	5.6	R1853 200 91	6.3
35	R1851 300 91	13.5	R1853 300 91	16.2
45	R1851 400 91	22.2	R1853 400 91	26.8
55	R1851 500 91	32.5	R1853 500 91	36.7
65	R1853 600 91	40.7	R1853 600 91	40.7
55/85	–	–	R1871 500 81	367.0
65/100	–	–	R1871 600 81	663.0
100	R1861 200 91	154.0	R1863 200 91	197.0
125	R1861 300 81	1888.0	R1863 300 81	2600.0