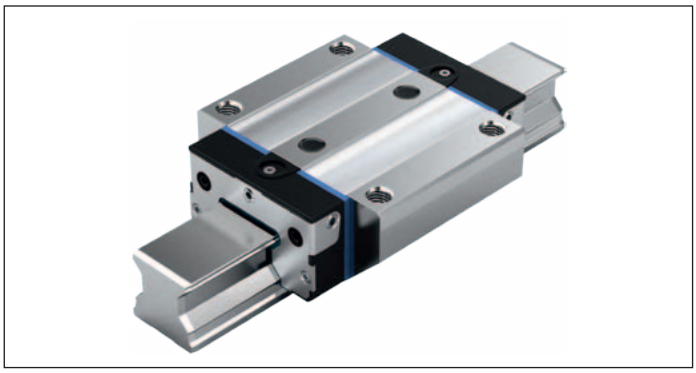
FNS – Flanged, normal, standard height
R1851 ... 2.



Dynamic characteristics

Speed: v_{max} = 4 m/s

Acceleration: a_{max} = 150 m/s^2

Recommended preload and accuracy class combinations

- For preload class C2: H and P (preferred)
- For preload class C3: P and SP

Part numbers

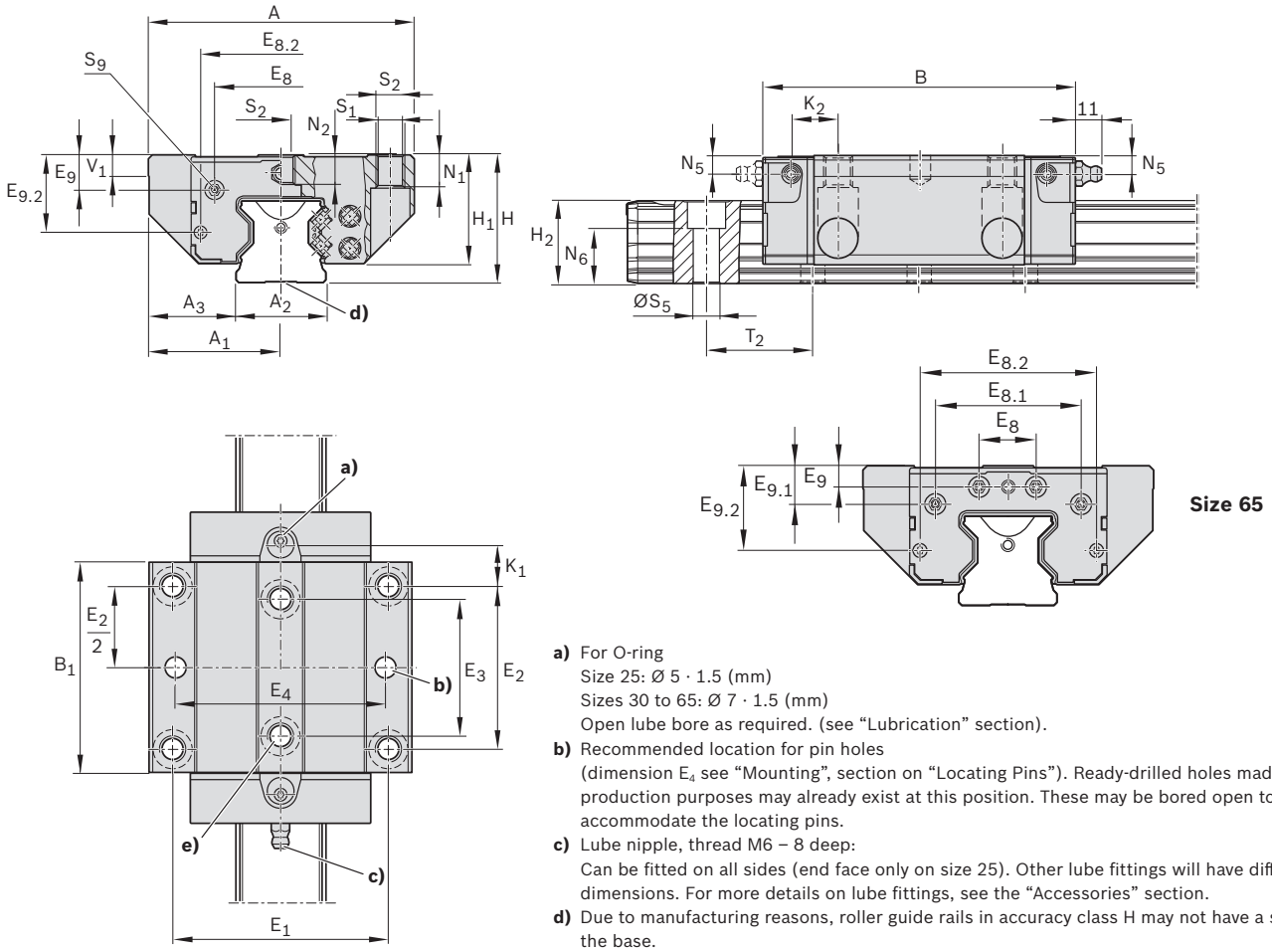
Size	Roller runner block with size	Preload class		Accuracy class				Material
		C2	C3	H	P	SP	UP	CS
25*)	R1851 2	2		3	2	1	9	2X
			3		2	1	9	2X
30*)	R1851 7	2		3	2	1	9	2X
			3		2	1	9	2X
35	R1851 3	2		3	2	1	9	2X
			3		2	1	9	2X
45	R1851 4	2		3	2	1	9	2X
			3		2	1	9	2X
55*)	R1851 5	2		3	2	1	9	2X
			3		2	1	9	2X
65*)	R1851 6	2		3	2	1	9	2X
			3		2	1	9	2X

***)** In preparation

Technical data

Size	Mass (kg)	Load capacities[1)] (N)		Torsional load moments[1)] (Nm)		Longitudinal load moments[1)] (Nm)	
	m	C	C_0	M_t	M_{t0}	M_L	M_{L0}
25	0.73	30300	59500	390	770	300	580
30	1.25	46300	92100	780	1550	500	1000
35	2.15	61000	119400	1210	2370	760	1480
45	4.05	106600	209400	2640	5180	1650	3240
55	5.44	140400	284700	4120	8350	2610	5290
65	10.72	237200	456300	8430	16210	5260	10120

1) Determination of the dynamic load capacities and moments is based on a travel life of 100,000 m per ISO 14728 Part 1. Often only 50,000 m are actually stipulated. If this is the case, for comparison purposes: Multiply values C, M_t and M_L from the table by 1.23.



a) For O-ring
Size 25: Ø 5 · 1.5 (mm)
Sizes 30 to 65: Ø 7 · 1.5 (mm)
Open lube bore as required. (see “Lubrication” section).

b) Recommended location for pin holes
(dimension E_4 see “Mounting”, section on “Locating Pins”). Ready-drilled holes made for production purposes may already exist at this position. These may be bored open to accommodate the locating pins.

c) Lube nipple, thread M6 – 8 deep:
Can be fitted on all sides (end face only on size 25). Other lube fittings will have different dimensions. For more details on lube fittings, see the “Accessories” section.

d) Due to manufacturing reasons, roller guide rails in accuracy class H may not have a slot on the base.

e) For manufacturing reasons, there may be plugs at these positions.
These must be removed before mounting.

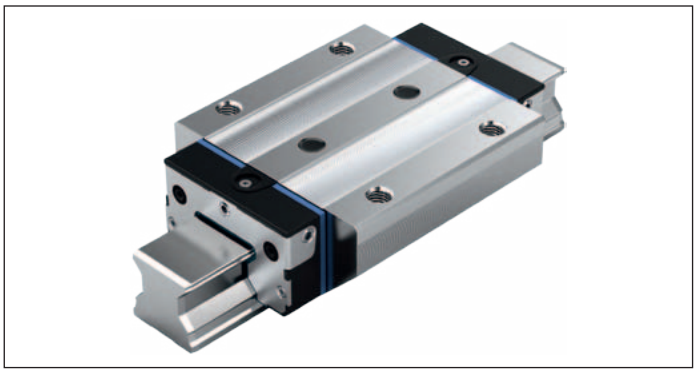
Dimensions (mm)

Size	A	A_1	A_2	A_3	B	B_1	E_1	E_2	E_3	E_4	E_8	$E_{8.1}$	$E_{8.2}$	E_9	$E_{9.1}$	$E_{9.2}$
25	70.00	35.00	23.00	23.50	97.00	63.50	57.00	45.00	40.00	55.00	33.40	–	40.20	8.30	–	21.40
30	90.00	45.00	28.00	31.00	106.40	71.00	72.00	52.00	44.00	70.00	43.00	–	51.00	12.00	–	25.50
35	100.00	50.00	34.00	33.00	118.00	79.60	82.00	62.00	52.00	80.00	50.30	–	60.50	13.10	–	29.10
45	120.00	60.00	45.00	37.50	147.00	101.50	100.00	80.00	60.00	98.00	62.90	–	72.00	16.70	–	36.50
55	140.00	70.00	53.00	43.50	170.65	123.10	116.00	95.00	70.00	114.00	74.20	–	81.60	18.85	–	40.75
65	170.00	85.00	63.00	53.50	207.30	146.00	142.00	110.00	82.00	140.00	35.00	93.00	106.00	9.30	26.00	55.00

Size	H	H_1	H_2 [2]	H_2 [3]	K_1	K_2	N_1	N_2	N_5	$N_6^{\pm 0.5}$	Ø S_1	S_2	Ø S_5	S_9 [4]	T_2 [5]	V_1
25	36.00	30.00	23.60	23.40	14.05	–	9.00	7.3	5.50	14.70	6.70	M8	7.00	M3-6.5 deep	30.00	7.50
30	42.00	36.60	28.00	27.80	17.00	18.38	11.80		6.00	16.80	8.50	M10	9.00	M3-5 deep	40.00	7.80
35	48.00	41.00	31.10	30.80	15.55	17.40	12.00	11.0	7.00	19.80	8.50	M10	9.00	M3-6 deep	40.00	8.00
45	60.00	51.00	39.10	38.80	17.45	20.35	15.00	13.5	8.00	22.80	10.40	M12	14.00	M4-9 deep	52.50	10.00
55	70.00	58.00	47.85	47.55	21.75	24.90	18.00	13.7	9.00	28.70	12.40	M14	16.00	M5-8 deep	60.00	12.00
65	90.00	76.00	58.15	57.85	30.00	33.00	23.00	21.5	9.30	36.85	14.60	M16	18.00	M4-8 deep	75.00	15.00

2) Dimension H_2 with cover strip
3) Dimension H_2 without cover strip
4) Thread for attachments
5) Dimension T_2 = hole spacing in the roller guide rail

FLS – Flanged, Long, Standard Height
R1853 ... 2.



Dynamic characteristics

Speed: v_{max} = 4 m/s

Acceleration: a_{max} = 150 m/s^2

Recommended preload and accuracy class combinations

- For preload class C2: H and P (preferred)
- For preload class C3: P and SP

Part numbers

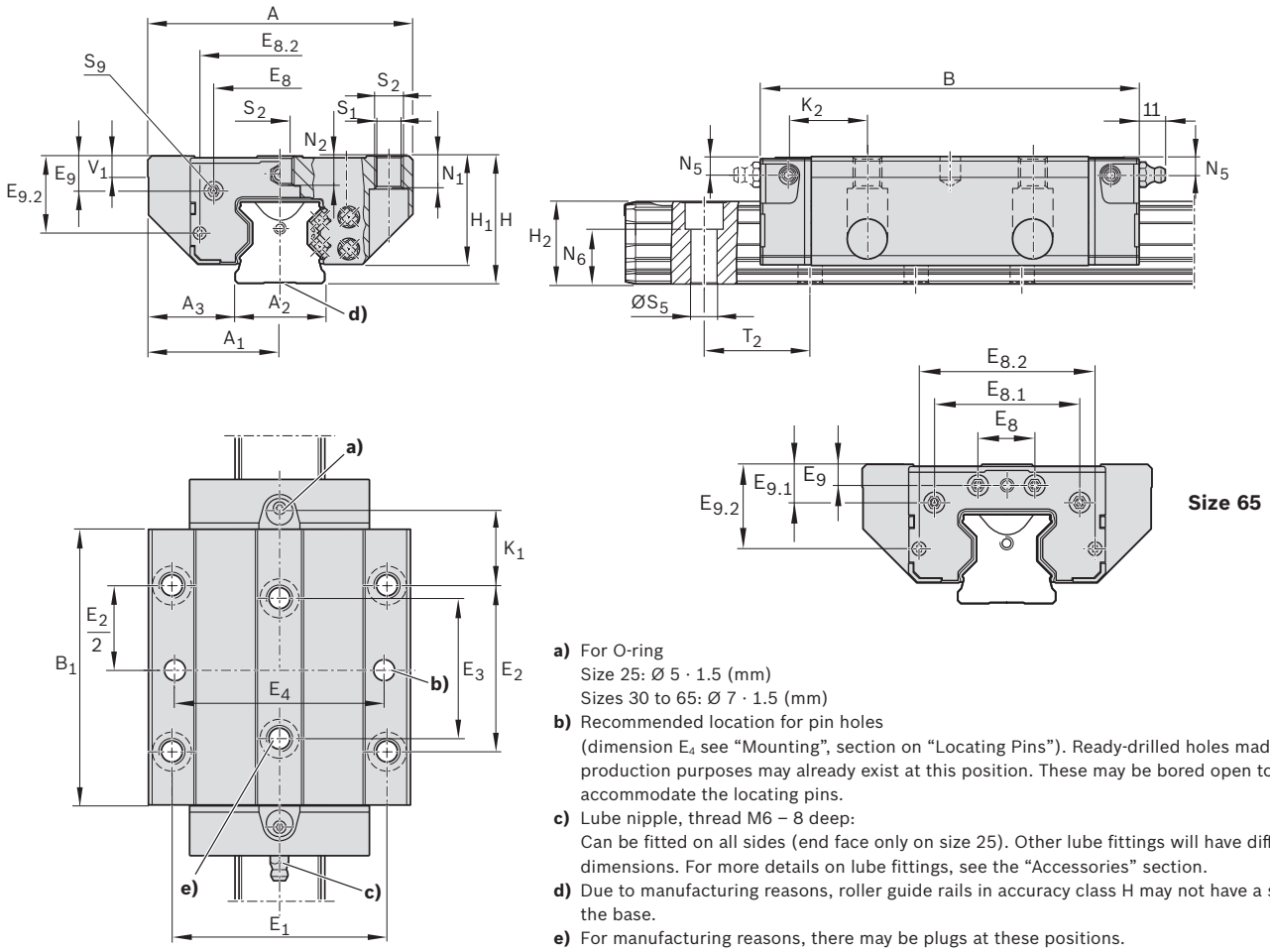
Size	Roller runner block with size	Preload class		Accuracy class				Material
		C2	C3	H	P	SP	UP	CS
25*)	R1853 2	2		3	2	1	9	2X
			3		2	1	9	2X
30*)	R1853 7	2		3	2	1	9	2X
			3		2	1	9	2X
35	R1853 3	2		3	2	1	9	2X
			3		2	1	9	2X
45	R1853 4	2		3	2	1	9	2X
			3		2	1	9	2X
55*)	R1853 5	2		3	2	1	9	2X
			3		2	1	9	2X
65*)	R1853 6	2		3	2	1	9	2X
			3		2	1	9	2X

***)** In preparation

Technical data

Size	Mass (kg)	Load capacities[1)] (N)		Torsional load moments[1)] (Nm)		Longitudinal load moments[1)] (Nm)	
	m	C	C_0	M_t	M_{t0}	M_L	M_{L0}
25	0.93	36800	76400	480	990	470	970
30	1.67	58400	123900	980	2090	870	1840
35	2.70	74900	155400	1490	3080	1220	2530
45	5.15	132300	276400	3270	6830	2690	5630
55	7.15	174000	374900	5100	10990	4420	9520
65	14.18	295900	606300	10510	21540	8870	18180

1) Determination of the dynamic load capacities and moments is based on a travel life of 100,000 m per ISO 14728 Part 1. Often only 50,000 m are actually stipulated. If this is the case, for comparison purposes: Multiply values C, M_t and M_L from the table by 1.23.



a) For O-ring
Size 25: Ø 5 · 1.5 (mm)
Sizes 30 to 65: Ø 7 · 1.5 (mm)

b) Recommended location for pin holes
(dimension E_4 see “Mounting”, section on “Locating Pins”). Ready-drilled holes made for production purposes may already exist at this position. These may be bored open to accommodate the locating pins.

c) Lube nipple, thread M6 – 8 deep:
Can be fitted on all sides (end face only on size 25). Other lube fittings will have different dimensions. For more details on lube fittings, see the “Accessories” section.

d) Due to manufacturing reasons, roller guide rails in accuracy class H may not have a slot on the base.

e) For manufacturing reasons, there may be plugs at these positions.
These must be removed before mounting.

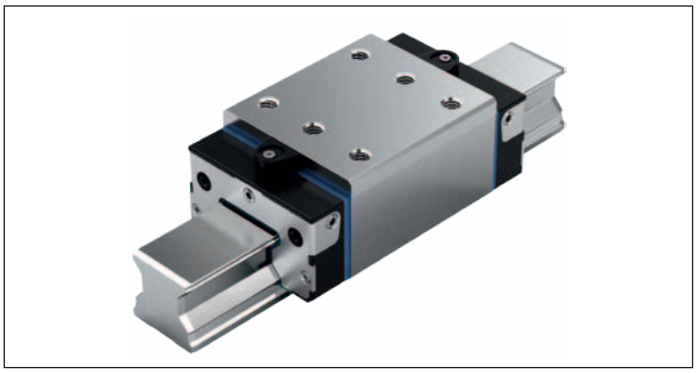
Dimensions (mm)

Size	A	A_1	A_2	A_3	B	B_1	E_1	E_2	E_3	E_4	E_8	$E_{8.1}$	$E_{8.2}$	E_9	$E_{9.1}$	$E_{9.2}$
25	70.00	35.00	23.00	23.50	115.00	81.50	57.00	45.00	40.00	55.00	33.40	–	40.20	8.30	–	21.40
30	90.00	45.00	28.00	31.00	130.90	95.50	72.00	52.00	44.00	70.00	43.00	–	51.00	12.00	–	25.50
35	100.00	50.00	34.00	33.00	142.00	103.60	82.00	62.00	52.00	80.00	50.30	–	60.50	13.10	–	29.10
45	120.00	60.00	45.00	37.50	179.50	134.00	100.00	80.00	60.00	98.00	62.90	–	72.00	16.70	–	36.50
55	140.00	70.00	53.00	43.50	209.65	162.10	116.00	95.00	70.00	114.00	74.20	–	81.60	18.85	–	40.75
65	170.00	85.00	63.00	53.50	255.30	194.00	142.00	110.00	82.00	140.00	35.00	93.00	106.00	9.30	26.00	55.00

Size	H	H_1	H_2 [2]	H_2 [3]	K_1	K_2	N_1	N_2	N_5	$N_6^{\pm 0.5}$	Ø S_1	S_2	Ø S_5	S_9 [4]	T_2 [5]	V_1
25	36.00	30.00	23.60	23.40	23.05	–	9.00	7.3	5.50	14.70	6.70	M8	7.00	M3-6.5 deep	30.00	7.50
30	42.00	36.60	28.00	27.80	29.25	30.36	11.80		6.00	16.80	8.50	M10	9.00	M3-5 deep	40.00	7.80
35	48.00	41.00	31.10	30.80	27.55	29.40	12.00	11.0	7.00	19.80	8.50	M10	9.00	M3-6 deep	40.00	8.00
45	60.00	51.00	39.10	38.80	33.70	36.60	15.00	13.5	8.00	22.80	10.40	M12	14.00	M4-9 deep	52.50	10.00
55	70.00	58.00	47.85	47.55	41.25	44.40	18.00	13.7	9.00	28.70	12.40	M14	16.00	M5-8 deep	60.00	12.00
65	90.00	76.00	58.15	57.85	54.00	57.00	23.00	21.5	9.30	36.85	14.60	M16	18.00	M4-8 deep	75.00	15.00

2) Dimension H_2 with cover strip
3) Dimension H_2 without cover strip
4) Thread for attachments
5) Dimension T_2 = hole spacing in the roller guide rail

SNH – Slimline, Normal, High
R1821 ... 2.



Dynamic characteristics

Speed: v_{max} = 4 m/s

Acceleration: a_{max} = 150 m/s^2

Recommended preload and accuracy class combinations

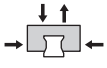
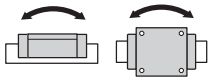
- For preload class C2: H and P (preferred)
- For preload class C3: P and SP

Part numbers

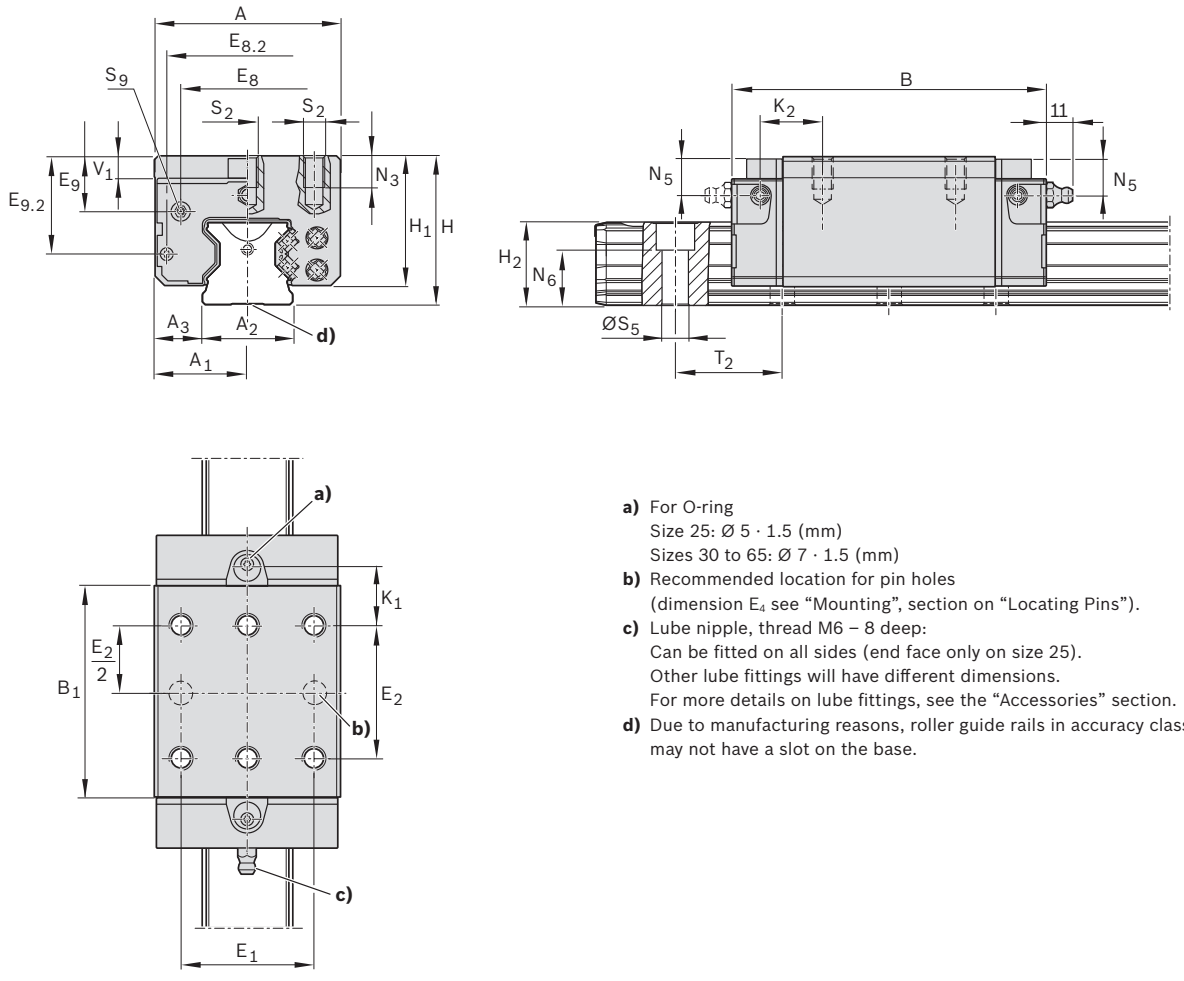
Size	Roller runner block with size	Preload class		Accuracy class				Material
		C2	C3	H	P	SP	UP	CS
25*)	R1821 2	2		3	2	1	9	2X
			3		2	1	9	2X
30*)	R1821 7	2		3	2	1	9	2X
			3		2	1	9	2X
35	R1821 3	2		3	2	1	9	2X
			3		2	1	9	2X
45	R1821 4	2		3	2	1	9	2X
			3		2	1	9	2X
55*)	R1821 5	2		3	2	1	9	2X
			3		2	1	9	2X

***)** In preparation

Technical data

Size	Mass (kg)	Load capacities[1] (N)		Torsional load moments[1] (Nm)		Longitudinal load moments[1] (Nm)	
							
	m	C	C_0	M_t	M_{t0}	M_L	M_{L0}
25	0.63	30300	59500	390	770	300	580
30	1.04	46300	92100	780	1550	500	1000
35	1.85	61000	119400	1210	2370	760	1480
45	3.35	106600	209400	2640	5180	1650	3240
55	5.04	140400	284700	4120	8350	2610	5290

1) Determination of the dynamic load capacities and moments is based on a travel life of 100,000 m per ISO 14728 Part 1. Often only 50,000 m are actually stipulated. If this is the case, for comparison purposes: Multiply values C, M_t and M_L from the table by 1.23.



a) For O-ring
Size 25: Ø 5 · 1.5 (mm)
Sizes 30 to 65: Ø 7 · 1.5 (mm)

b) Recommended location for pin holes
(dimension E_4 see “Mounting”, section on “Locating Pins”).

c) Lube nipple, thread M6 – 8 deep:
Can be fitted on all sides (end face only on size 25).
Other lube fittings will have different dimensions.
For more details on lube fittings, see the “Accessories” section.

d) Due to manufacturing reasons, roller guide rails in accuracy class H may not have a slot on the base.

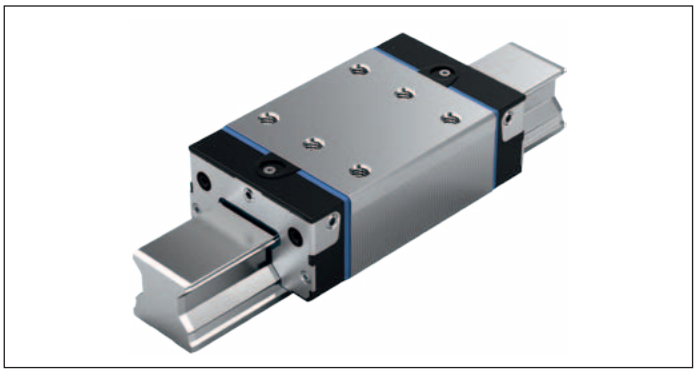
Dimensions (mm)

Size	A	A_1	A_2	A_3	B	B_1	E_1	E_2	E_8	$E_{8.2}$	E_9	$E_{9.2}$
25	48.00	24.00	23.00	12.00	97.00	63.50	35.00	35.00	33.40	40.20	12.30	25.40
30	60.00	30.00	28.00	16.00	106.40	71.00	40.00	40.00	43.00	51.00	15.00	28.50
35	70.00	35.00	34.00	18.00	118.00	79.60	50.00	50.00	50.30	60.50	20.10	36.10
45	86.00	43.00	45.00	20.50	147.00	101.50	60.00	60.00	62.90	72.00	26.70	46.50
55	100.00	50.00	53.00	23.50	170.65	123.10	75.00	75.00	74.20	81.60	28.85	50.75

Size	H	H_1	H_2 [2)]	H_2 [3)]	K_1	K_2	N_3	N_5	$N_6^{\pm 0.5}$	S_2	S_5	S_9 [4)]	T_2 [5)]	V_1
25	40.00	34.00	23.60	23.40	19.05	–	8.00	–	14.70	M6	Ø 7.00	M3-6.5 deep	30.00	7.50
30	45.00	39.60	28.00	27.80	23.00	24.38	12.00	9.00	16.80	M8	Ø 9.00	M3-5 deep	40.00	7.80
35	55.00	48.00	31.10	30.80	21.55	23.40	13.00	14.00	19.80	M8	Ø 9.00	M3-6 deep	40.00	8.00
45	70.00	61.00	39.10	38.80	27.45	30.35	18.00	18.00	22.80	M10	Ø 14.00	M4-9 deep	52.50	10.00
55	80.00	68.00	47.85	47.55	31.75	34.90	19.00	19.00	28.70	M12	Ø 16.00	M5-8 deep	60.00	12.00

2) Dimension H_2 with cover strip
3) Dimension H_2 without cover strip
4) Thread for attachments
5) Dimension T_2 = hole spacing in the roller guide rail

SNS – Slimline, Normal, Standard Height
R1822 ... 2.



Dynamic characteristics

Speed: v_{max} = 4 m/s

Acceleration: a_{max} = 150 m/s^2

Recommended preload and accuracy class combinations

- For preload class C2: H and P (preferred)
- For preload class C3: P and SP

Part numbers

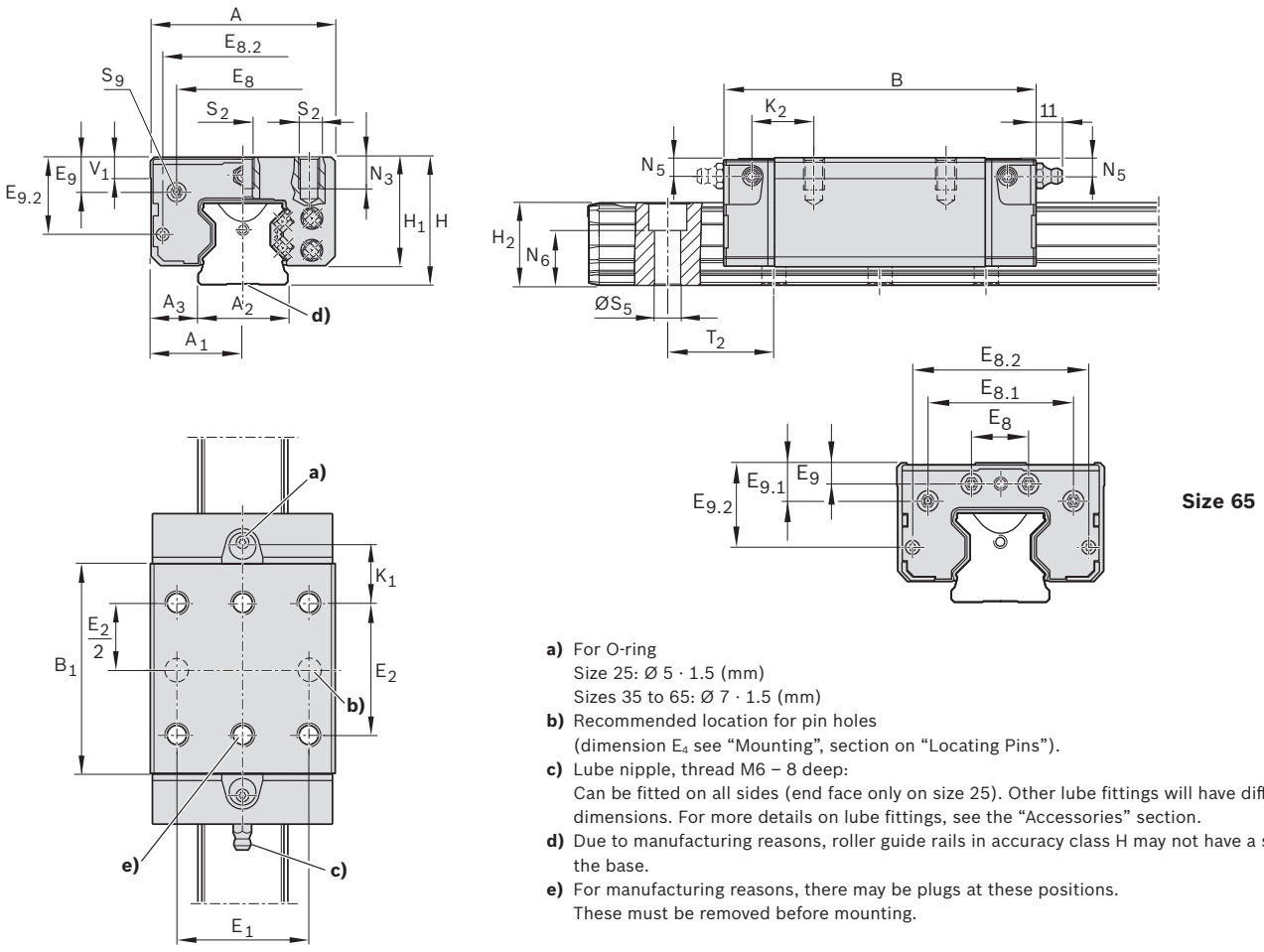
Size	Roller runner block with size	Preload class		Accuracy class				Material
		C2	C3	H	P	SP	UP	CS
25*)	R1822 2	2		3	2	1	9	2X
			3		2	1	9	2X
30*)	R1822 7	2		3	2	1	9	2X
			3		2	1	9	2X
35	R1822 3	2		3	2	1	9	2X
			3		2	1	9	2X
45	R1822 4	2		3	2	1	9	2X
			3		2	1	9	2X
55*)	R1822 5	2		3	2	1	9	2X
			3		2	1	9	2X
65*)	R1822 6	2		3	2	1	9	2X
			3		2	1	9	2X

***)** In preparation

Technical data

Size	Mass (kg)	Load capacities[1)] (N)		Torsional load moments[1)] (Nm)		Longitudinal load moments[1)] (Nm)	
	m	C	C_0	M_t	M_{t0}	M_L	M_{L0}
25	0.54	30300	59500	390	770	300	580
30	0.95	46300	92100	780	1550	500	1000
35	1.55	61000	119400	1210	2370	760	1480
45	2.90	106600	209400	2640	5180	1650	3240
55	4.14	140400	284700	4120	8350	2610	5290
65	8.12	237200	456300	8430	16210	5260	10120

1) Determination of the dynamic load capacities and moments is based on a travel life of 100,000 m per ISO 14728 Part 1. Often only 50,000 m are actually stipulated. If this is the case, for comparison purposes: Multiply values C, M_t and M_L from the table by 1.23.



a) For O-ring
Size 25: Ø 5 · 1.5 (mm)
Sizes 35 to 65: Ø 7 · 1.5 (mm)

b) Recommended location for pin holes
(dimension E_4 see “Mounting”, section on “Locating Pins”).

c) Lube nipple, thread M6 – 8 deep:
Can be fitted on all sides (end face only on size 25). Other lube fittings will have different dimensions. For more details on lube fittings, see the “Accessories” section.

d) Due to manufacturing reasons, roller guide rails in accuracy class H may not have a slot on the base.

e) For manufacturing reasons, there may be plugs at these positions.
These must be removed before mounting.

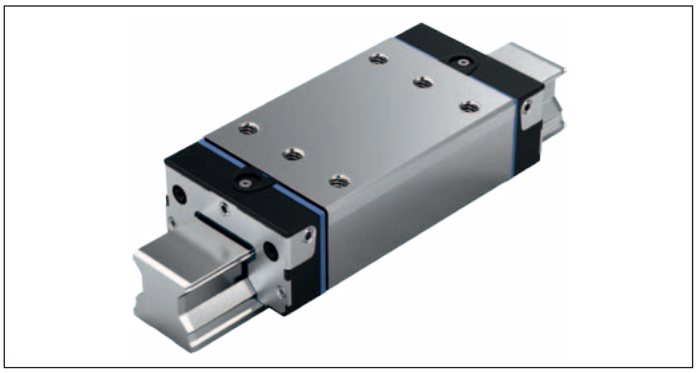
Dimensions (mm)

Size	A	A_1	A_2	A_3	B	B_1	E_1	E_2	E_8	$E_{8.1}$	$E_{8.2}$	E_9	$E_{9.1}$	$E_{9.2}$
25	48.00	24.00	23.00	12.00	97.00	63.50	35.00	35.00	33.40	–	40.20	8.30	–	21.40
30	60.00	30.00	28.00	16.00	106.40	71.00	40.00	40.00	43.00	–	51.00	12.00	–	25.50
35	70.00	35.00	34.00	18.00	118.00	79.60	50.00	50.00	50.30	–	60.50	13.10	–	29.10
45	86.00	43.00	45.00	20.50	147.00	101.50	60.00	60.00	62.90	–	72.00	16.70	–	36.50
55	100.00	50.00	53.00	23.50	170.65	123.10	75.00	75.00	74.20	–	81.60	18.85	–	40.75
65	126.00	63.00	63.00	31.50	207.30	146.00	76.00	70.00	35.00	93.00	106.00	9.30	26.00	55.00

Size	H	H_1	H_2 [2]	H_2 [3]	K_1	K_2	N_3	N_5	$N_6^{\pm 0.5}$	S_2	Ø S_5	S_9 [4]	T_2 [5]	V_1
25	36.00	30.00	23.60	23.40	19.05	–	8.00	5.50	14.70	M6	7.00	M3-6.5 deep	30.00	7.50
30	42.00	36.60	28.00	27.80	23.00	24.38	12.00	6.00	16.80	M8	9.00	M3-5 deep	40.00	7.80
35	48.00	41.00	31.10	30.80	21.55	23.40	12.00	7.00	19.80	M8	9.00	M3-6 deep	40.00	8.00
45	60.00	51.00	39.10	38.80	27.45	30.35	18.00	8.00	22.80	M10	14.00	M4-9 deep	52.50	10.00
55	70.00	58.00	47.85	47.55	31.75	34.90	17.00	9.00	28.70	M12	16.00	M5-8 deep	60.00	12.00
65	90.00	76.00	58.15	57.85	50.00	53.00	21.00	9.30	36.85	M16	18.00	M4-8 deep	75.00	15.00

2) Dimension H_2 with cover strip
3) Dimension H_2 without cover strip
4) Thread for attachments
5) Dimension T_2 = hole spacing in the roller guide rail

SLS – Slimline, Long, Standard Height
R1823 ... 2.



Dynamic characteristics

Speed: v_{max} = 4 m/s

Acceleration: a_{max} = 150 m/s^2

Recommended preload and accuracy class combinations

- For preload class C2: H and P (preferred)
- For preload class C3: P and SP

Part numbers

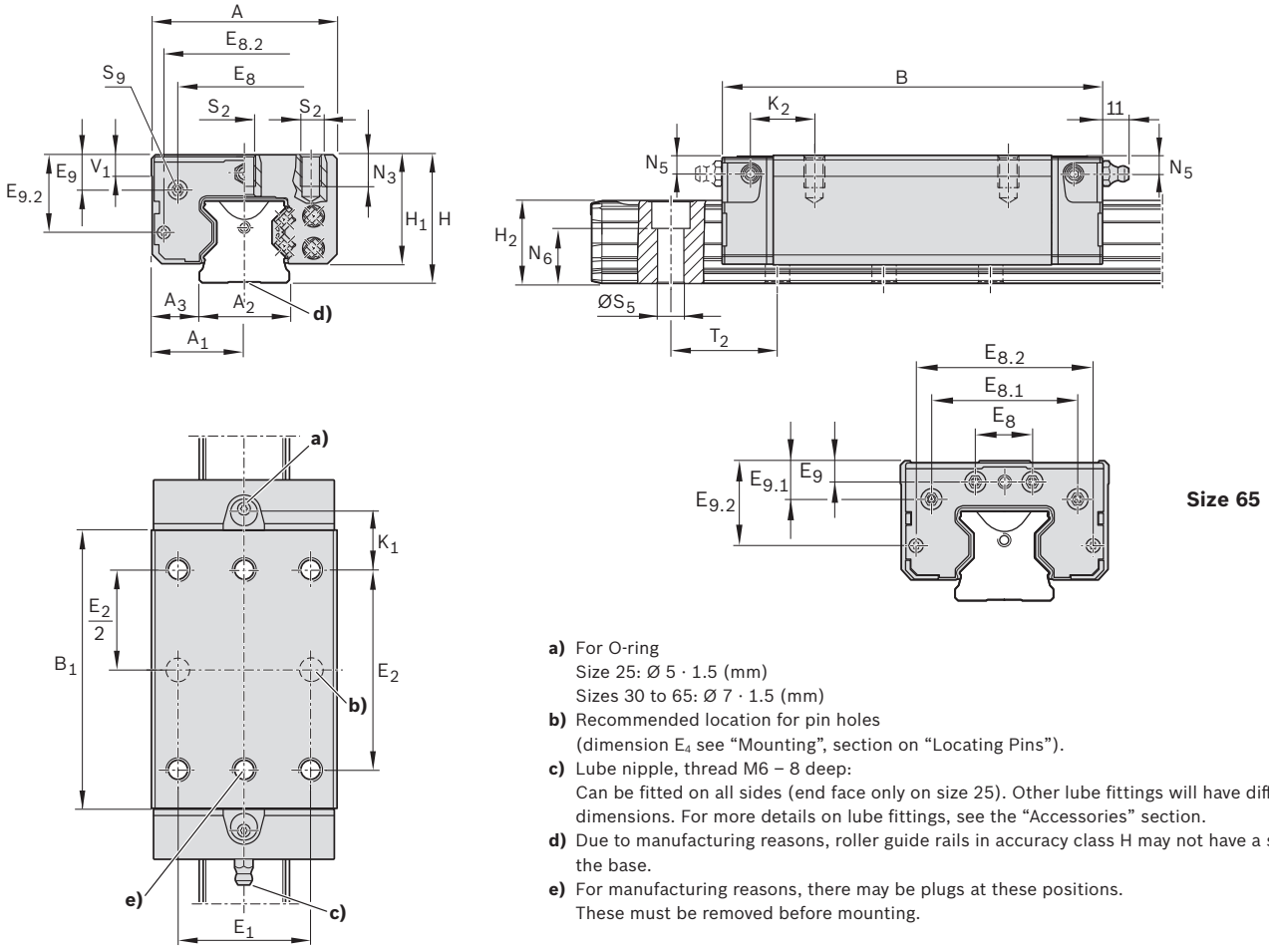
Size	Roller runner block with size	Preload class		Accuracy class				Material
		C2	C3	H	P	SP	UP	CS
25*)	R1823 2	2		3	2	1	9	2X
			3		2	1	9	2X
30*)	R1823 7	2		3	2	1	9	2X
			3		2	1	9	2X
35	R1823 3	2		3	2	1	9	2X
			3		2	1	9	2X
45	R1823 4	2		3	2	1	9	2X
			3		2	1	9	2X
55*)	R1823 5	2		3	2	1	9	2X
			3		2	1	9	2X
65*)	R1823 6	2		3	2	1	9	2X
			3		2	1	9	2X

***)** In preparation

Technical data

Size	Mass (kg)	Load capacities[1)] (N)		Torsional load moments[1)] (Nm)		Longitudinal load moments[1)] (Nm)	
	m	C	C_0	M_t	M_{t0}	M_L	M_{L0}
25	0.68	36800	76400	480	990	470	970
30	1.27	58400	123900	980	2090	870	1840
35	1.95	74900	155400	1490	3080	1220	2530
45	3.65	132300	276400	3270	6830	2690	5630
55	5.30	174000	374900	5100	10990	4420	9520
65	10.68	295900	606300	10510	21540	8870	18180

1) Determination of the dynamic load capacities and moments is based on a travel life of 100,000 m per ISO 14728 Part 1. Often only 50,000 m are actually stipulated. If this is the case, for comparison purposes: Multiply values C, M_t and M_L from the table by 1.23.



a) For O-ring
Size 25: Ø 5 · 1.5 (mm)
Sizes 30 to 65: Ø 7 · 1.5 (mm)

b) Recommended location for pin holes
(dimension E_4 see “Mounting”, section on “Locating Pins”).

c) Lube nipple, thread M6 – 8 deep:
Can be fitted on all sides (end face only on size 25). Other lube fittings will have different dimensions. For more details on lube fittings, see the “Accessories” section.

d) Due to manufacturing reasons, roller guide rails in accuracy class H may not have a slot on the base.

e) For manufacturing reasons, there may be plugs at these positions.
These must be removed before mounting.

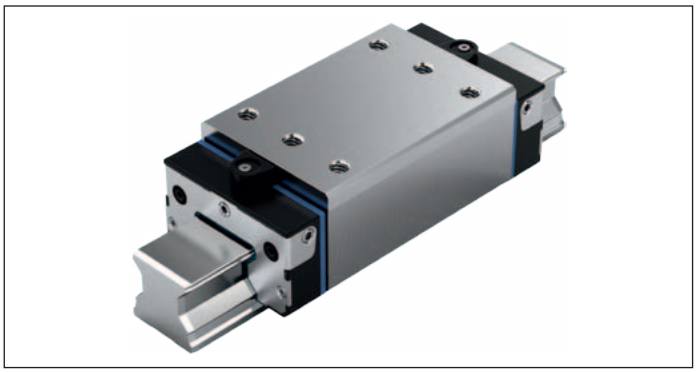
Dimensions (mm)

Size	A	A_1	A_2	A_3	B	B_1	E_1	E_2	E_8	$E_{8.1}$	$E_{8.2}$	E_9	$E_{9.1}$	$E_{9.2}$
25	48.00	24.00	23.00	12.00	115.00	81.50	35.00	50.00	33.40	–	40.20	8.30	–	21.40
30	60.00	30.00	28.00	16.00	130.90	95.50	40.00	60.00	43.00	–	51.00	12.00	–	25.50
35	70.00	35.00	34.00	18.00	142.00	103.60	50.00	72.00	50.30	–	60.50	13.10	–	29.10
45	86.00	43.00	45.00	20.50	179.50	134.00	60.00	80.00	62.90	–	72.00	16.70	–	36.50
55	100.00	50.00	53.00	23.50	209.65	162.10	75.00	95.00	74.20	–	81.60	18.85	–	40.75
65	126.00	63.00	63.00	31.50	255.30	194.00	76.00	120.00	35.00	93.00	106.00	9.30	26.00	55.00

Size	H	H_1	H_2 2)	H_2 3)	K_1	K_2	N_3	N_5	$N_6^{\pm 0.5}$	S_2	Ø S_5	S_9 4)	T_2 5)	V_1
25	36.00	30.00	23.60	23.40	20.55	–	8.00	5.50	14.70	M6	7.00	M3-6.5 deep	30.00	7.50
30	42.00	36.60	28.00	27.80	25.25	26.63	12.00	6.00	16.80	M8	9.00	M3-5 deep	40.00	7.80
35	48.00	41.00	31.10	30.80	22.55	24.40	12.00	7.00	19.80	M8	9.00	M3-6 deep	40.00	8.00
45	60.00	51.00	39.10	38.80	33.70	36.60	18.00	8.00	22.80	M10	14.00	M4-9 deep	52.50	10.00
55	70.00	58.00	47.85	47.55	41.25	44.40	17.00	9.00	28.70	M12	16.00	M5-8 deep	60.00	12.00
65	90.00	76.00	58.15	57.85	49.00	52.00	21.00	9.30	36.85	M16	18.00	M4-8 deep	75.00	15.00

2) Dimension H_2 with cover strip
3) Dimension H_2 without cover strip
4) Thread for attachments
5) Dimension T_2 = hole spacing in the roller guide rail

SLH – Slimline, Long, High
R1824 ... 2.



Dynamic characteristics

Speed: v_{max} = 4 m/s

Acceleration: a_{max} = 150 m/s^2

Recommended preload and accuracy class combinations

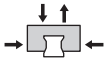
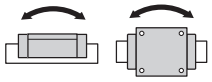
- For preload class C2: H and P (preferred)
- For preload class C3: P and SP

Part numbers

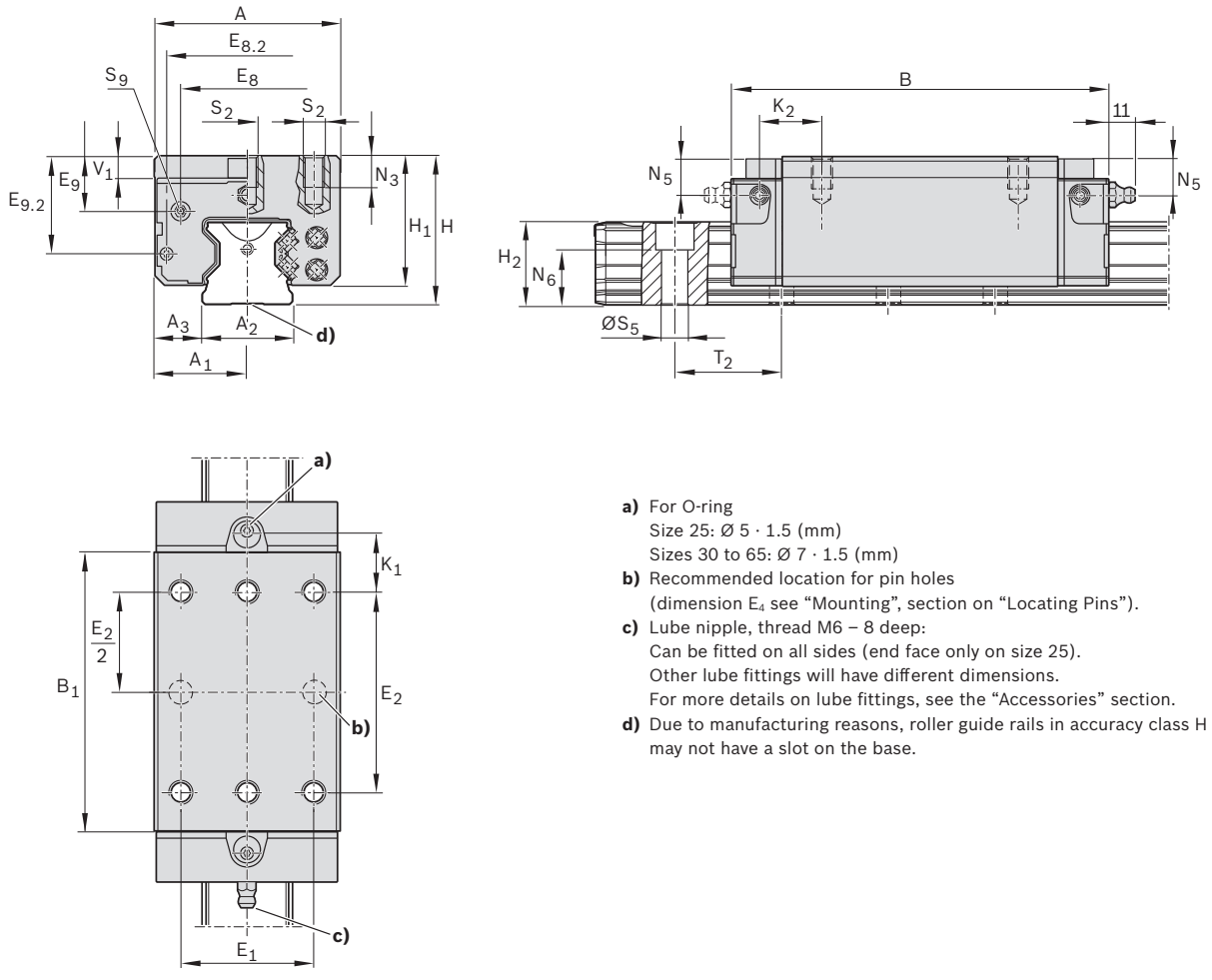
Size	Roller runner block with size	Preload class		Accuracy class				Material
		C2	C3	H	P	SP	UP	CS
25*)	R1824 2	2		3	2	1	9	2X
			3		2	1	9	2X
30*)	R1824 7	2		3	2	1	9	2X
			3		2	1	9	2X
35	R1824 3	2		3	2	1	9	2X
			3		2	1	9	2X
45	R1824 4	2		3	2	1	9	2X
			3		2	1	9	2X
55*)	R1824 5	2		3	2	1	9	2X
			3		2	1	9	2X

***)** In preparation

Technical data

Size	Mass (kg)	Load capacities[1] (N)		Torsional load moments[1] (Nm)		Longitudinal load moments[1] (Nm)	
							
	m	C	C_0	M_t	M_{t0}	M_L	M_{L0}
25	0.80	36800	76400	480	990	470	970
30	1.37	58400	123900	980	2090	870	1840
35	2.35	74900	155400	1490	3080	1220	2530
45	4.45	132300	276400	3270	6830	2690	5630
55	6.55	174000	374900	5100	10990	4420	9520

1) Determination of the dynamic load capacities and moments is based on a travel life of 100,000 m per ISO 14728 Part 1. Often only 50,000 m are actually stipulated. If this is the case, for comparison purposes: Multiply values C, M_t and M_L from the table by 1.23.



a) For O-ring
Size 25: Ø 5 · 1.5 (mm)
Sizes 30 to 65: Ø 7 · 1.5 (mm)

b) Recommended location for pin holes
(dimension E_4 see “Mounting”, section on “Locating Pins”).

c) Lube nipple, thread M6 – 8 deep:
Can be fitted on all sides (end face only on size 25).
Other lube fittings will have different dimensions.
For more details on lube fittings, see the “Accessories” section.

d) Due to manufacturing reasons, roller guide rails in accuracy class H may not have a slot on the base.

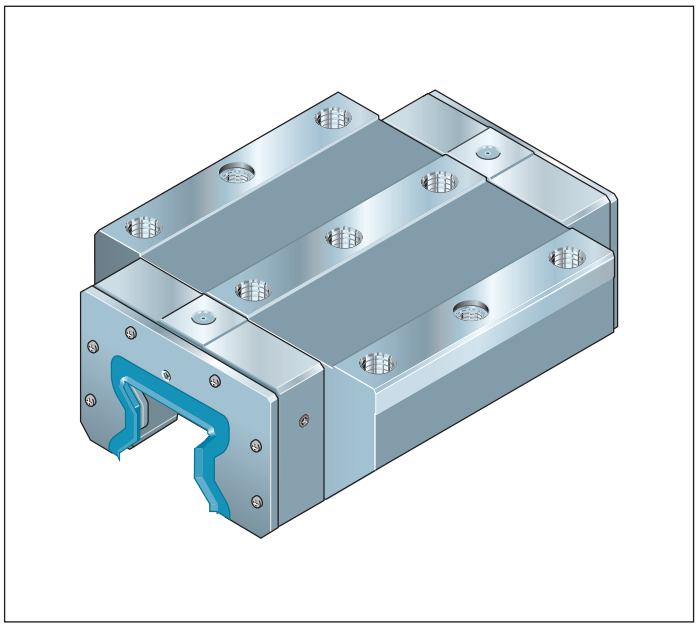
Dimensions (mm)

Size	A	A_1	A_2	A_3	B	B_1	E_1	E_2	E_8	$E_{8.2}$	E_9	$E_{9.2}$
25	48.00	24.00	23.00	12.00	115.00	81.50	35.00	50.00	33.40	40.20	12.30	25.40
30	60.00	30.00	28.00	16.00	130.90	95.50	40.00	60.00	43.00	51.00	15.00	28.50
35	70.00	35.00	34.00	18.00	142.00	103.60	50.00	72.00	50.30	60.50	20.10	36.10
45	86.00	43.00	45.00	20.50	179.50	134.00	60.00	80.00	62.90	72.00	26.70	46.50
55	100.00	50.00	53.00	23.50	209.65	162.10	75.00	95.00	74.20	81.60	28.85	50.75

Size	H	H_1	H_2 2)	H_2 3)	K_1	K_2	N_3	N_5	$N_6^{\pm 0.5}$	S_2	S_5	S_9 4)	T_2 5)	V_1
25	40.00	34.00	23.60	23.40	20.55	–	8.00	9.50	14.70	M6	Ø 7.00	M3-6.5 deep	30.00	7.50
30	45.00	39.60	28.00	27.80	25.25	26.63	12.00	9.00	16.80	M8	Ø 9.00	M3-5 deep	40.00	7.80
35	55.00	48.00	31.10	30.80	22.55	24.40	13.00	14.00	19.80	M8	Ø 9.00	M3-6 deep	40.00	8.00
45	70.00	61.00	39.10	38.80	33.70	36.60	18.00	18.00	22.80	M10	Ø 14.00	M4-9 deep	52.50	10.00
55	80.00	68.00	47.85	47.55	41.25	44.40	19.00	19.00	28.70	M12	Ø 16.00	M5-8 deep	60.00	12.00

2) Dimension H_2 with cover strip
3) Dimension H_2 without cover strip
4) Thread for attachments
5) Dimension T_2 = hole spacing in the roller guide rail

Heavy Duty Roller Runner Blocks FNS – Flange, Normal, Standard Height, Steel R1861 ... 1. / Resist CR R1861 ... 6.



Dynamic characteristics

Speed: v_{max} = 2 m/s

Acceleration: a_{max} = 150 m/s^2

Recommended preload and accuracy class combinations

- For preload class C2: H and P (preferred)
- For preload class C3: P and SP

Note

For runner blocks Resist CR, matte silver hard chrome plated, different tolerances apply for the dimensions H and A_3 (see “Accuracy classes and their tolerances”).

On the combination of hard chrome plated roller runner blocks with preload C2 and hard chrome plated roller guide rails, the preload increases by approx. half a preload class.

For short-stroke applications (< 2 · B_1), use additional lube ports: Size 125: B_4 and N_7

All lube ports with thread M8x1 (tapped holes in the metal for size 125).

Part numbers heavy duty steel roller runner blocks

Size	Roller runner block with size	Preload class		Accuracy class			Material	Seal
		C2	C3	H	P	SP	CS	SS
100	R1861 2	2		3	2	1		10
			3		2	1		10
125	R1861 3	2		3	2			10
			3		2			10

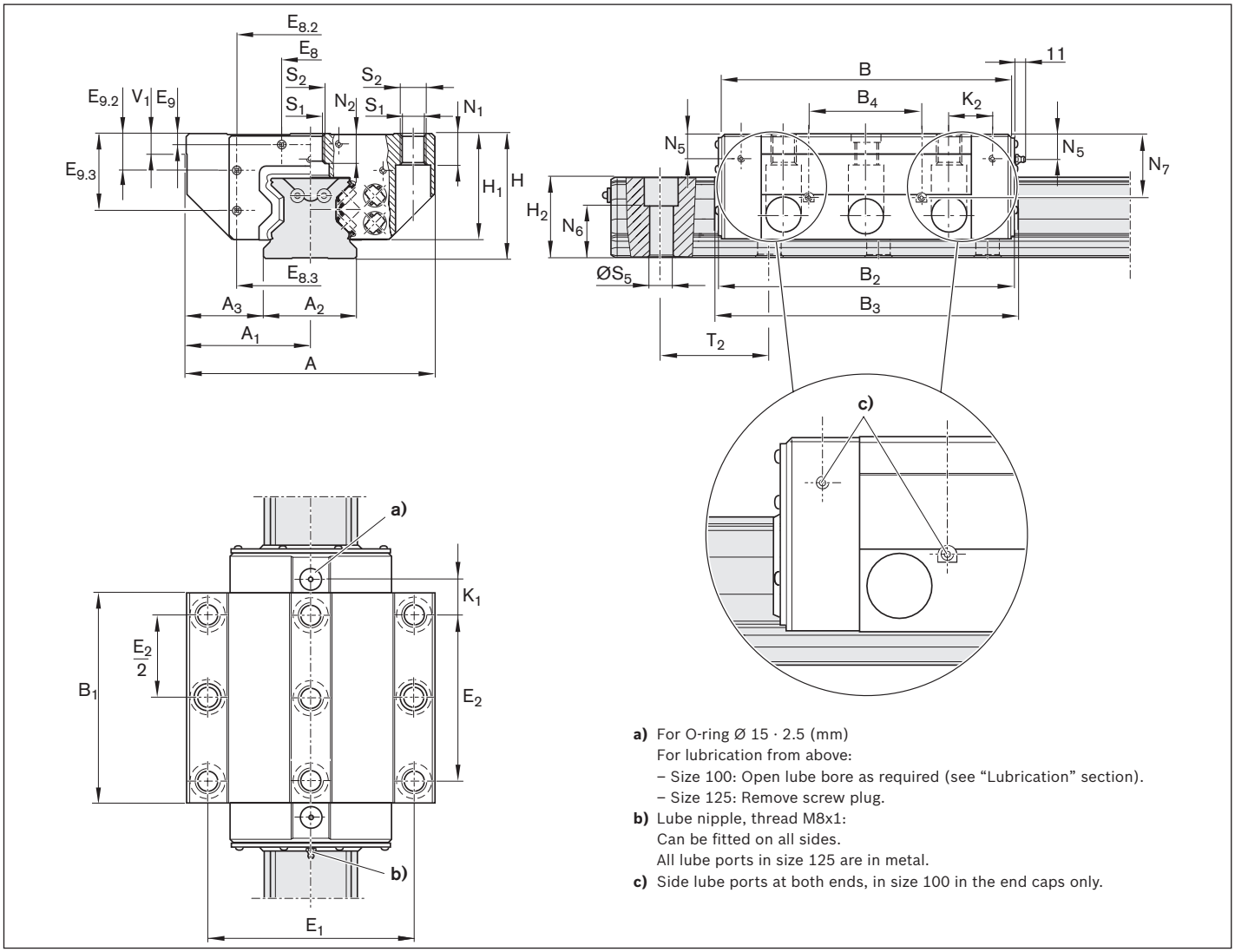
Part numbers heavy duty roller runner blocks, Resist CR, matte silver hard chrome plated

Size	Roller runner block with size	Preload class		Accuracy class	Material	Seal
		C2	C3	H	CR	SS
100	R1861 2	2	3	3		60
125	R1861 3	2	3	3		60

Technical data

Size	Mass (kg)	Load capacities[1] (N)		Torsional load moments[1] (Nm)		Longitudinal load moments[1] (Nm)	
	m	C	C_0	M_t	M_{t0}	M_L	M_{L0}
100	32.0	461000	811700	25720	45290	13550	23850
125	62.1	757200	1324000	54520	95330	29660	51860

1) Determination of the dynamic load capacities and moments is based on a travel life of 100,000 m per ISO 14728 Part 1. Often only 50,000 m are actually stipulated. If this is the case, for comparison purposes: Multiply values C, M_t and M_L from the table by 1.23.



a) For O-ring Ø 15 · 2.5 (mm)
For lubrication from above:
– Size 100: Open lube bore as required (see “Lubrication” section).
– Size 125: Remove screw plug.

b) Lube nipple, thread M8x1:
Can be fitted on all sides.
All lube ports in size 125 are in metal.

c) Side lube ports at both ends, in size 100 in the end caps only.

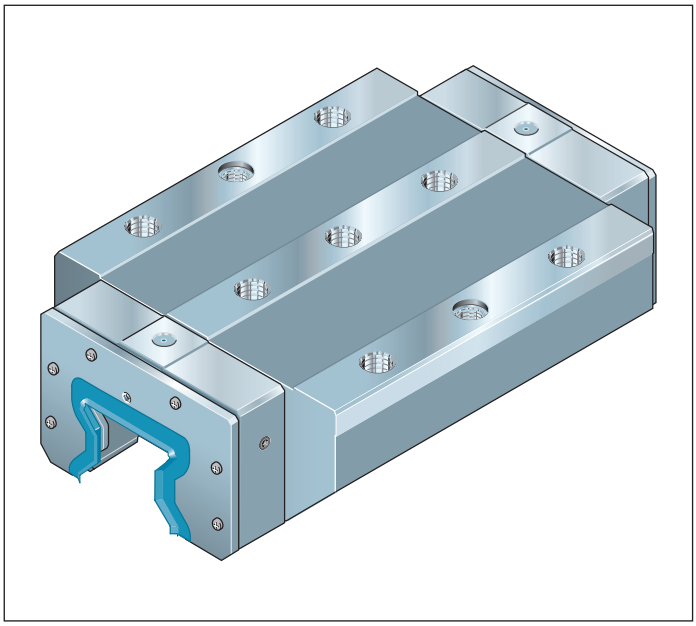
Dimensions (mm)

Size	A	A_1	A_2	A_3	B	B_1	B_2	B_3	B_4	E_1	E_2	E_8	$E_{8.2}$	$E_{8.3}$	E_9	$E_{9.2}$	$E_{9.3}$
100	250	125	100	75.0	287	204	293	302.5	–	200	150	64	130	162.6	9	29.4	70
125	320	160	125	97.5	371	255	377	386.5	130	270	205	80	205	205.0	12	40.0	92

Size	H	H_1	H_2[1)]	K_1	K_2	N_1	N_2	N_5	$N_6^{\pm 0.5}$	N_7	S_1	S_2	S_5	T_2	V_1
100	120	105.0	87.3	39.5	39.5	30	22	17.5	55.0	–	17.5	M20	25	105	20
125	160	135.5	115.3	50.0	50.0	45	29	29.0	74.5	92	25.0	M27	33	120	25

1) Dimension H_2 with cover strip
2) Dimension T_2 = hole spacing in the roller guide rail

Heavy Duty Roller Runner Blocks FLS – Flanged, Long, Standard Height, Steel R1863 ... 1. / Resist CR R1863 ... 6.



Dynamic characteristics

Speed: v_{max} = 2 m/s

Acceleration: a_{max} = 150 m/s^2

Recommended preload and accuracy class combinations

- For preload class C2: H and P (preferred)
- For preload class C3: P and SP

Note

For runner blocks Resist CR, matte silver hard chrome plated, different tolerances apply for the dimensions H and A_3 (see “Accuracy classes and their tolerances”).

On the combination of hard chrome plated roller runner blocks with preload C2 and hard chrome plated roller guide rails, the preload increases by approx. half a preload class.

For short-stroke applications (< 2 · B_1), use additional lube ports: Size 125: B_4 and N_7

All lube ports with thread M8x1 (tapped holes in the metal for size 125).

Part numbers heavy duty steel roller runner blocks

Size	Roller runner block with size	Preload class		Accuracy class			Material	Seal
		C2	C3	H	P	SP	CS	SS
100	R1863 2	2		3	2	1		10
			3		2	1		10
125	R1863 3	2		3	2			10
			3		2			10

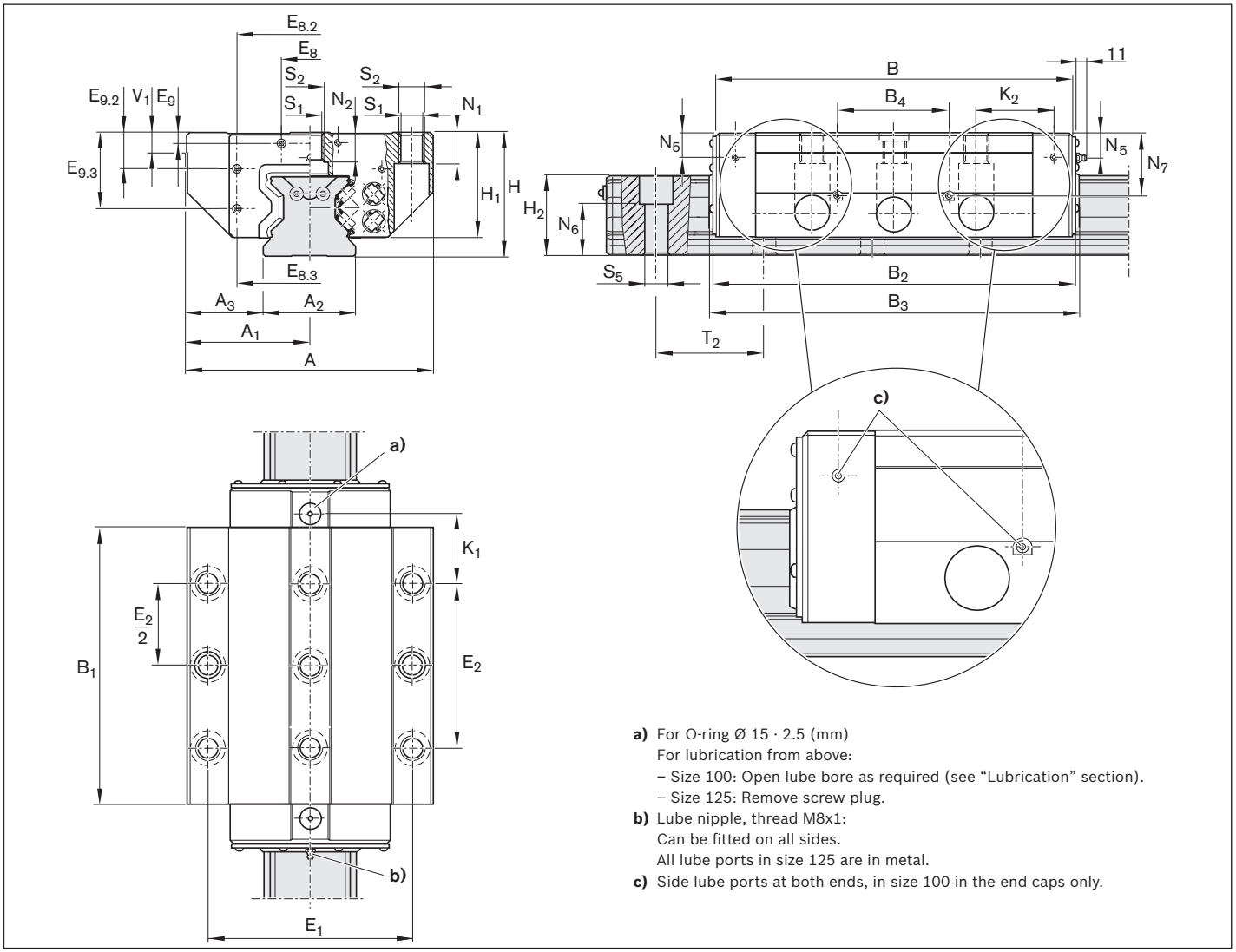
Part numbers heavy duty roller runner blocks, Resist CR, matte silver hard chrome plated

Size	Roller runner block with size	Preload class		Accuracy class	Material	Seal
		C2	C3	H	CR	SS
100	R1863 2	2	3	3		60
125	R1863 3	2	3	3		60

Technical data

Size	Mass (kg)	Load capacities[1] (N)		Torsional load moments[1] (Nm)		Longitudinal load moments[1] (Nm)	
	m	C	C_0	M_t	M_{t0}	M_L	M_{L0}
100	42.0	632000	1218000	35300	67900	27200	52400
125	89.8	1020000	1941900	57740	139820	45080	109150

1) Determination of the dynamic load capacities and moments is based on a travel life of 100,000 m per ISO 14728 Part 1. Often only 50,000 m are actually stipulated. If this is the case, for comparison purposes: Multiply values C, M_t and M_L from the table by 1.23.



a) For O-ring Ø 15 · 2.5 (mm)
For lubrication from above:
– Size 100: Open lube bore as required (see “Lubrication” section).
– Size 125: Remove screw plug.

b) Lube nipple, thread M8x1:
Can be fitted on all sides.
All lube ports in size 125 are in metal.

c) Side lube ports at both ends, in size 100 in the end caps only.

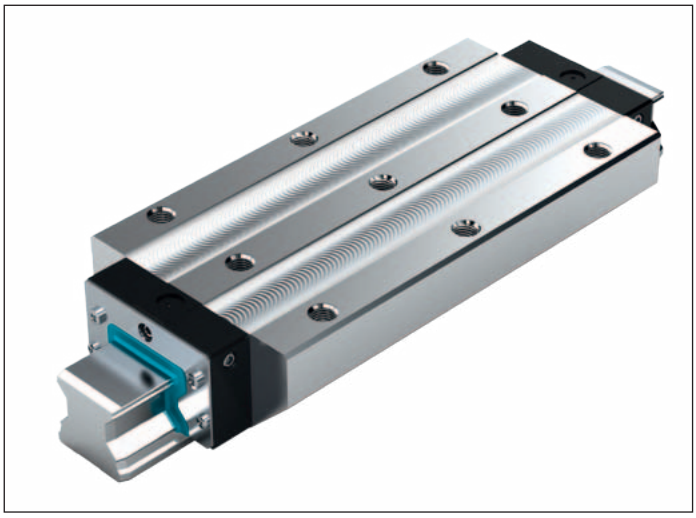
Dimensions (mm)

Size	A	A_1	A_2	A_3	B	B_1	B_2	B_3	B_4	E_1	E_2	E_8	$E_{8.2}$	$E_{8.3}$	E_9	$E_{9.2}$	$E_{9.3}$
100	250	125	100	75.0	371	288	377	386.5	–	200	230	64	130	162.6	9	29.4	70
125	320	160	125	97.5	476	360	482	491.5	150	270	205	80	205	205.0	12	40.0	92

Size	H	H_1	H_2 [1)]	K_1	K_2	N_1	N_2	N_5	$N_6^{\pm 0.5}$	N_7	S_1	S_2	S_5	T_2	V_1
100	120	105.0	87.3	41.5	47.4	30	22	17.5	55.0	–	17.5	M20	25	105	20
125	160	135.5	115.3	102.5	102.5	45	29	29.0	74.5	92	25.0	M27	33	120	25

1) Dimension H_2 with cover strip
2) Dimension T_2 = hole spacing in the roller guide rail

Heavy Duty Roller Runner Blocks FXS – Flanged, Extra Long, Standard Height, Steel R1854 ... 1.



Dynamic characteristics

Speed: v_{max} = 3 m/s

Acceleration: a_{max} = 150 m/s^2

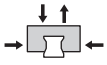
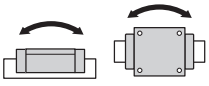
Recommended preload and accuracy class combinations

- For preload class C2: H and P (preferred)
- For preload class C3: P and SP

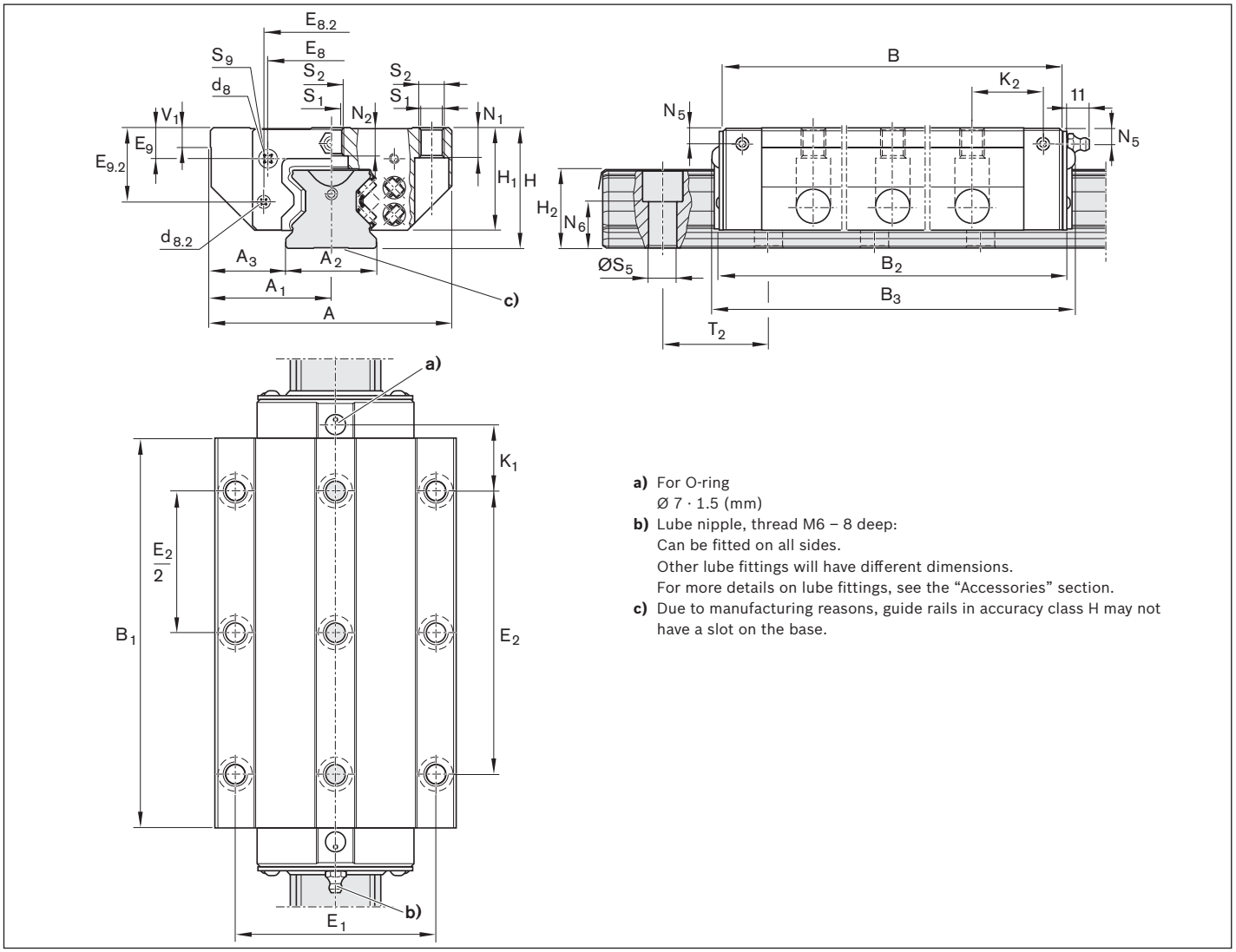
Part numbers

Size	Roller runner block with size	Preload class		Accuracy class				Seal
		C2	C3	H	P	SP	UP	SS
65	R1854 6	2		3	2	1	9	10
			3		2	1	9	10

Technical data

Size	Mass (kg)	Load capacities[1] (N)		Torsional load moments[1] (Nm)		Longitudinal load moments[1] (Nm)	
							
	m	C	C_0	M_t	M_{t0}	M_L	M_{L0}
65	20.30	366800	792800	13030	28170	13380	28920

1) Determination of the dynamic load capacities and moments is based on a travel life of 100,000 m per ISO 14728 Part 1. Often only 50,000 m are actually stipulated. If this is the case, for comparison purposes: Multiply values C, M_t and M_L from the table by 1.23.



a) For O-ring
Ø 7 · 1.5 (mm)

b) Lube nipple, thread M6 – 8 deep:
Can be fitted on all sides.
Other lube fittings will have different dimensions.
For more details on lube fittings, see the “Accessories” section.

c) Due to manufacturing reasons, guide rails in accuracy class H may not have a slot on the base.

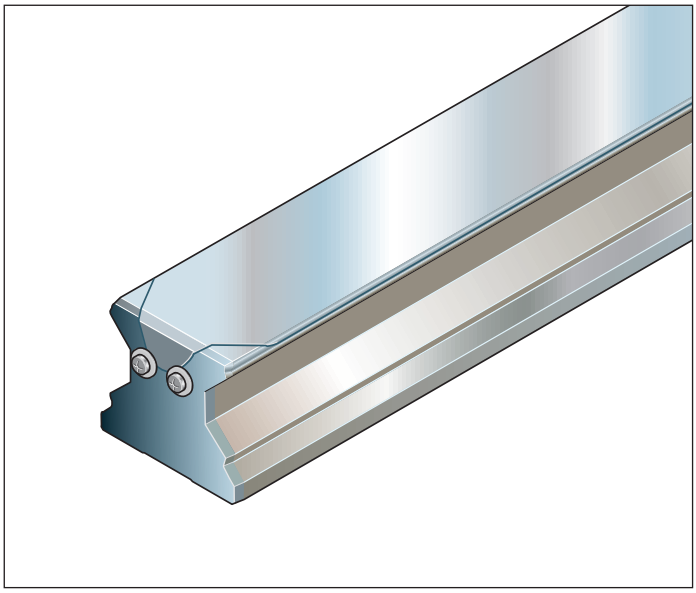
Dimensions (mm)

Size	A	A_1	A_2	A_3	B	B_1	B_2	B_3	d_8	$d_{8.2}$	E_1	E_2	E_8	$E_{8.2}$	E_9	$E_{9.2}$
65	170	85	63	53.5	335	275	339.5	345	8	8	142	200	35.0	106.00	9.30	55.00

Size	H	H_1	H_2 [2]	H_2 [3]	K_1	K_2	N_1	N_2	N_5	$N_6^{\pm 0.5}$	S_1	S_2	S_5	S_9 [4]	T_2 [5]	V_1
65	90	76	58.15	57.85	49.5	52.5	23	21.5	9.3	36.5	14.5	M16	18	M4-7deep	75.0	15.0

2) Dimension H_2 with cover strip
3) Dimension H_2 without cover strip
4) Thread for attachments
5) Dimension T_2 = hole spacing in the roller guide rail

Heavy Duty Roller Guide Rails SNS with Cover Strip, Steel R1835 .6. .. / Resist CR R1865 .6. ..



For mounting from above, with cover strip made of corrosion-resistant spring steel per EN 10088 (with threaded mounting holes on end face)

Notes

- Secure the cover strip.
- Screws and washers included in the supply scope.
- Follow the mounting instructions!
- Send for the publications “Mounting Instructions for Roller Rail Systems” and “Mounting Instructions for the Cover Strip.”
- Composite roller guide rails also available.

Part numbers steel roller guide rails

Size	Roller guide rail with size	Accuracy class			Number of sections		Hole spacing T_2	Recommended rail lengths $L = n_B \cdot T_2 - 4$ mm
		H	P	SP	One-piece	Composite	(mm)	Maximum number of bores n_B
100	R1835 26	3	2	1	61, ...	6., ...	105	35
125	R1835 36	3	2	1	61, ...	6., ...	120	22

Part numbers heavy duty roller guide rails, Resist CR

Size	Roller guide rail with size	Accuracy class	Number of sections		Hole spacing T_2	Recommended rail lengths $L = n_B \cdot T_2 - 4$ mm
		H	One-piece	Composite	(mm)	Maximum number of bores n_B
100	R1865 26	3	71, ...	7., ...	105	35
125	R1865 36	3	71, ...	7., ...	120	22

Ordering example 1 (up to L_{max})

Options:

- Roller guide rail SNS
- Size 125
- Accuracy class P
- One-piece
- Rail length
  L = 1637 mm

Part number:

R1835 362 61, 1637 mm

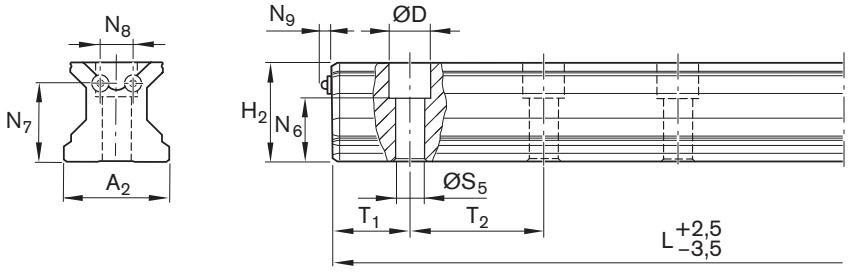
Ordering example 2 (over L_{max})

Options:

- Roller guide rail SNS
- Size 125
- Accuracy class P
- **Composite (2 pieces)**
- Rail length
  L = 5033 mm

Part number:

R1835 362 6**2**, 5033 mm



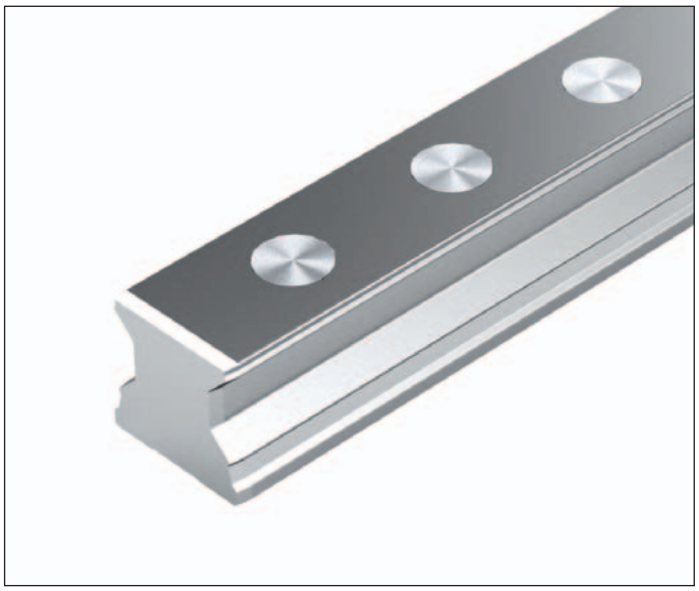
Guide rail with cover strip and tapped holes at the end faces.
Secured with screws and washers (included).

Dimensions (mm)

Size	A_2	D	H_2 [1)]	L_{max}	$N_6^{\pm 0.5}$	N_7	N_8	N_9	S_5	$T_{1\ min}$ [2)]	T_{1S} [3)]	T_2	Mass (kg/m)
100	100	40	87.3	3986	55.0	65	28	4.8	26	35	49.0	105	42.5
125	125	49	115.3	2760	74.5	91	38	4.8	33	40	56.5	120	75.6

1) Dimension H_2 with cover strip 0.3 mm
2) Rails smaller than $T_{1\ min}$ have no tapped hole at end face for securing the strip. Secure the cover strip! Follow the mounting instructions!
3) Preferred dimension T_{1S} with tolerances +1/−1.5

Heavy Duty Roller Guide Rails SNS with Steel Mounting Hole Plugs R1836 .5. ..



For mounting from above, for steel mounting hole plugs (not included)

Notes

- Steel mounting hole plugs are not supplied with the roller guide rails. Must be ordered separately (see “Accessories for Roller Guide Rails”).
- Order the mounting tool along with the plugs (see “Accessories for Roller Guide Rails”)!
- Follow the mounting instructions!
- Send for the publication “Mounting Instructions for Roller Rail Systems.”
- Composite roller guide rails also available.

Part numbers

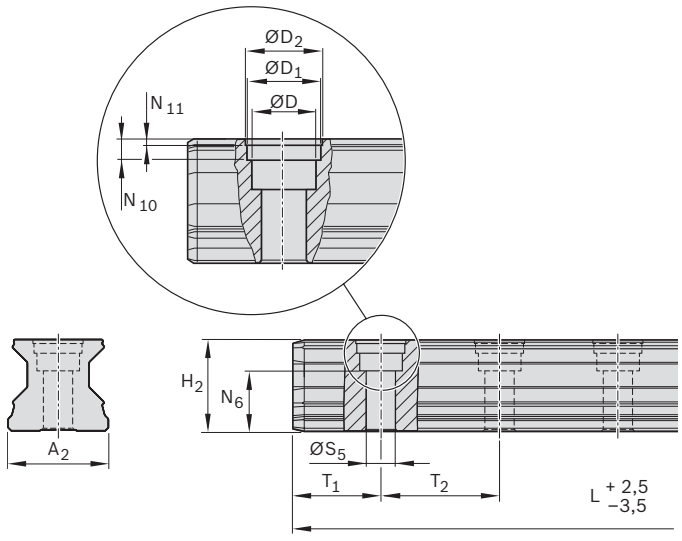
Size	Roller guide rail with size	Accuracy class			Number of sections		Hole spacing T_2	Recommended rail lengths $L = n_B \cdot T_2 - 4$ mm
		H	P	SP	One-piece	Composite	(mm)	Maximum number of bores n_B
100	R1836 25	3	2	1	31, ...	3., ...	105	35

Ordering example 1 (up to L_{max})
Options:
- Roller guide rail SNS
- Size 100
- Accuracy class P
- One-piece
- Rail length
  L = 1676 mm

Part number:
R1836 352 31, 1676 mm

Ordering example 2 (over L_{max})
Options:
- Roller guide rail SNS
- Size 100
- Accuracy class P
- **Composite (2 pieces)**
- Rail length
  L = 5771 mm

Part number:
R1836 352 3**2**, 5771 mm



Steel mounting hole plugs are not supplied with the roller 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.”

Dimensions (mm)

Size	A_2	D	D_1	D_2	H_2	L_{max}	$N_6^{\pm 0.5}$	N_{10}	N_{11}	S_5	$T_{1\,min}$	$T_{1\,S}$ [1)]	T_2	Mass (kg/m)
100	100	40	43.55	46	87.00	3986	55.00	9.0	1.60	26	35	49.00	105	42.5

1) Preferred dimension T_{1S} with tolerances +1/−1.5

Wide Roller Runner Blocks BLS – Wide, Long, Standard Height Steel R1872 ... 1. / Resist CR R1872 ... 6.

Dynamic characteristics

Speed: v_{max} = 3 m/s

Acceleration: a_{max} = 150 m/s^2

Recommended preload and accuracy class combinations

- For preload class C2: H and P (preferred)
- For preload class C3: P and SP

Note

For runner blocks Resist CR, matte silver hard chrome plated, different tolerances apply for the dimensions H and A_3 (see “Accuracy classes and their tolerances”).
On the combination of hard chrome plated runner blocks with preload C2 and hard chrome plated guide rails, the preload increases by approx. half a preload class.

Part numbers wide steel roller runner blocks

Size	Roller runner block with size	Preload class		Accuracy class			Material	Seal
		C2	C3	H	P	SP	CS	SS
55/86	R1872 5	2		3	2	1		10
			3		2	1		10
65/100	R1872 6	2		3	2	1		10
			3		2	1		10

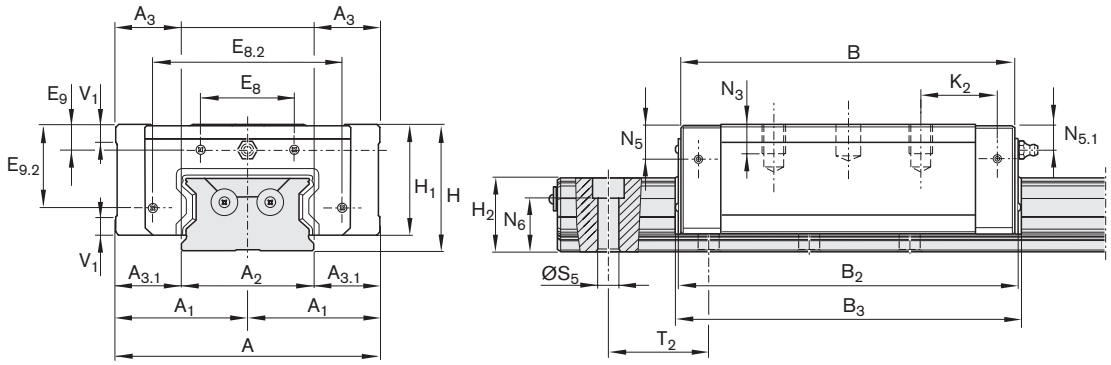
Part numbers wide roller runner blocks, Resist CR, matte silver hard chrome plated

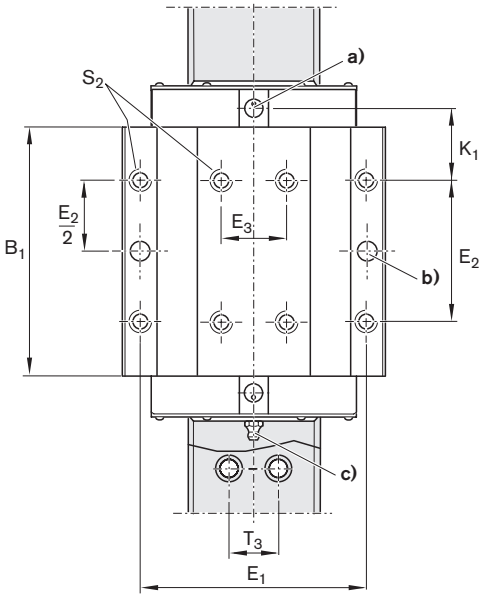
Size	Roller runner block with size	Preload class	Accuracy class	Material	Seal
		C2	H	CR	SS
55/86	R1872 5	2	3		60
65/100	R1872 6	2	3		60

Technical data

Size	Mass (kg)	Load capacities[1] (N)		Torsional load moments[1] (Nm)		Longitudinal load moments[1] (Nm)	
	m	C	C_0	M_t	M_{t0}	M_L	M_{L0}
55/85	11.5	165000	345300	7 450	15 650	4 030	8 440
65/100	20.7	265500	525600	14 300	28 350	7 960	15 760

1) Determination of the dynamic load capacities and moments is based on a travel life of 100,000 m per ISO 14728 Part 1. Often only 50,000 m are actually stipulated. If this is the case, for comparison purposes: Multiply values C, M_t and M_L from the table by 1.23.





a) For O-ring
Size 55/85: Ø 7 · 1.5 (mm)
Size 65/100: Ø 12 · 1.5 (mm)
Open lube bore as required (see “Lubrication” section).

b) Recommended location for pin holes
(dimension E_4 see “Mounting”, section on “Locating Pins”).
Due to manufacturing reasons, there may be rough-drilled holes at the recommended positions. These may be bored open to accommodate the locating pins.

c) Lube nipple, thread M6 – 8 deep:
Can be fitted on all sides.
Other lube fittings will have different dimensions.
For more details on lube fittings, see the “Accessories” section.

Dimensions (mm)

Size	A	A_1	A_2	A_3	$A_{3.1}$	B	B_1	B_2	B_3	E_1	E_2	E_3	E_8	$E_{8.2}$	E_9	$E_{9.2}$
55/85	165	82.5	85	40	40	205.5	162.1	209.5	216	140	95	40	40	113.6	10.75	50.75
65/100	200	100.0	100	50	50	254.0	194.0	258.0	264	172	110	50	72	143.0	19.30	65.00

Size	H	H_1	H_2 [1)]	K_1	K_2	N_3	N_5	$N_{5.1}$	$N_6^{\pm 0.5}$	S_2	S_5	T_2 [2)]	T_3	V_1
55/85	80	68	47.85	43.55	46.55	19	19	19.0	31.2	M12	14	60	32	12
65/100	100	86	58.15	55.00	59.00	20	27	19.3	39.0	M14	16	75	38	15

1) Dimension H_2 with cover strip
2) Dimension T_2 = hole spacing in the roller guide rail

Wide Roller Guide Rails BNS with Cover Strip Steel R1875 .6. .. / Resist CR R1873 .6. ..

Two-row for mounting from above, with cover strip made of corrosion-resistant spring steel per EN 10088 (with threaded mounting holes on end face)

Notes

- Secure the cover strip.
- Screws and washers included in the supply scope.
- Follow the mounting instructions!
- Send for the publications “Mounting Instructions for Roller Rail Systems” and “Mounting Instructions for the Cover Strip.”
- Composite roller guide rails also available.

Part numbers wide steel roller guide rails

Size	Roller guide rail with size	Accuracy class			Number of sections		Hole spacing T_2	Recommended rail lengths $L = n_B \cdot T_2 - 4$ mm
		H	P	SP	One-piece	Composite	(mm)	Maximum number of bores n_B
55/85	R1875 56	3	2	1	31, ...	3., ...	60.0	66
65/100	R1875 66	3	2	1	31, ...	3., ...	75.0	53

Part numbers roller guide rails, Resist CR

Size	Roller guide rail with size	Accuracy class	Number of sections		Hole spacing T_2	Recommended rail lengths $L = n_B \cdot T_2 - 4$ mm
		H	One-piece	Composite	(mm)	Maximum number of bores n_B
55/85	R1873 56	3	31, ...	3., ...	60.0	66
65/100	R1873 66	3	31, ...	3., ...	75.0	53

Ordering example 1 (up to L_{max})

Options:

- Roller guide rail BNS
- Size 55/85
- Accuracy class P
- One-piece
- Rail length
  L = 2516 mm

Part number:

R1875 562 31, 2516 mm

Ordering example 2 (over L_{max})

Options:

- Roller guide rail BNS
- Size 55/85
- Accuracy class P
- **Composite (2 pieces)**
- Rail length
  L = 7556 mm

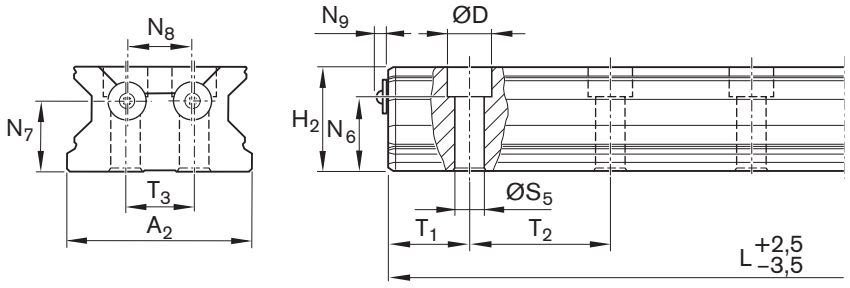
Part number:

R1875 562 3**2**, 7556 mm

Part numbers (coating)

- R1873 .6. 71
  (end faces coated)

In composite guide rails the joint faces are hard chrome plated as well as the end faces.



Guide rail with cover strip and tapped holes at the end faces.
Secured with screws and washers (included).

Dimensions (mm)

Size	A_2	D	H_2 [1]	L_{max}	$N_6^{\pm 0.5}$	N_7	N_8	N_9	N_{10}	S_5	$T_{1\,min}$ [2]	$T_{1\,S}$ [3]	T_2	Mass (kg/m)
55/85	85	20	47.85	3956	31.2	30	32	4.8	14	18	28.0	60	32	24.7
65/100	100	24	58.15	3971 [4]	39.0	40	37	4.8	16	20	35.5	75	38	34.7

1) Dimension H_2 with cover strip 0.3 mm
2) Rails smaller than $T_{1\,min}$ have no tapped hole at end face for securing the strip. Secure the cover strip! Follow the mounting instructions!
3) Preferred dimension T_{1S} with tolerances +1/−1.5
4) Guide rails R1873 .6. .. Resist CR in lengths of up to 4000 mm only

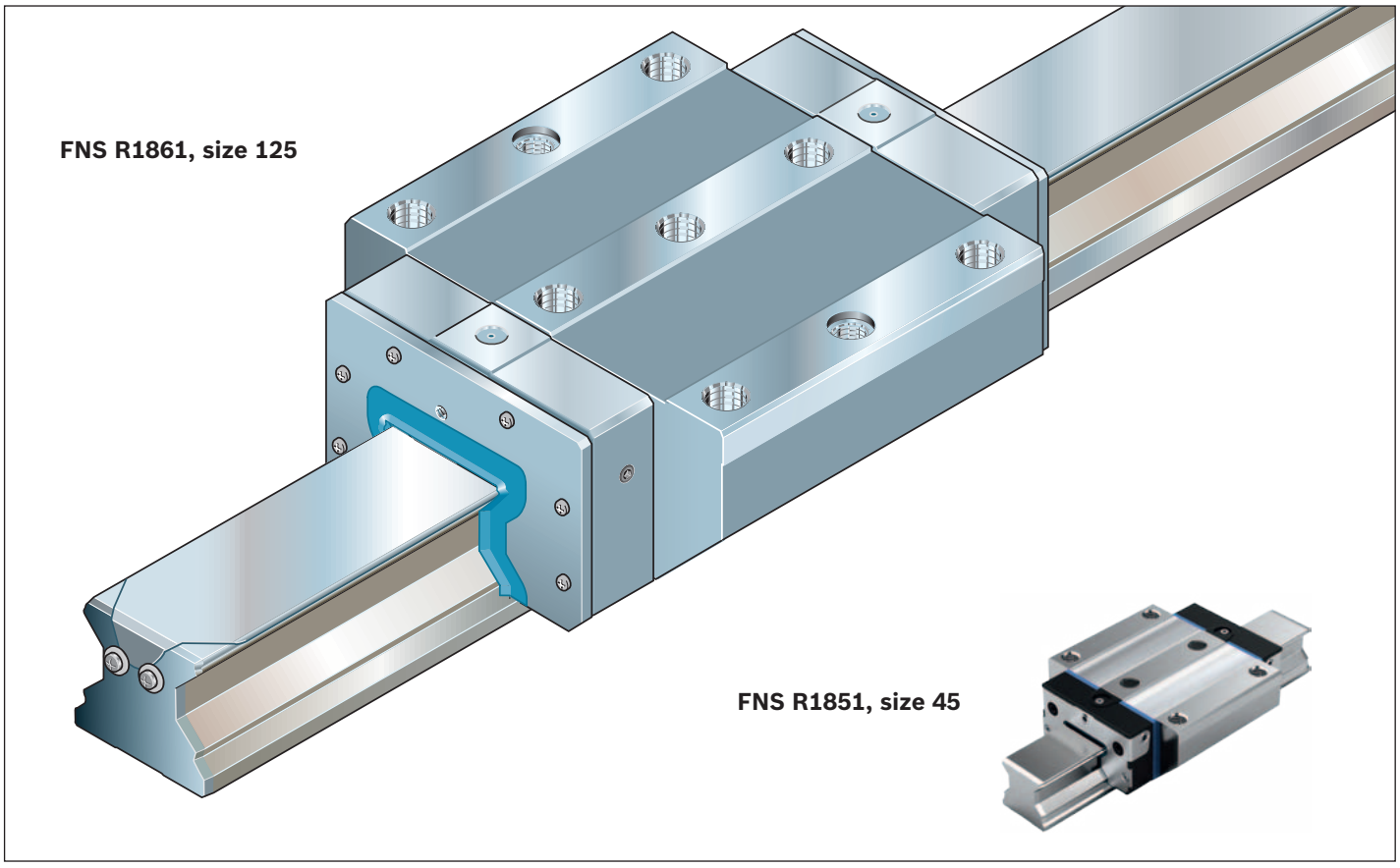
Product Description

Characteristic features

- Heavy duty runner blocks for applications requiring extremely high load capacities
- Maximum rigidity under load from all directions
- Improved rigidity under lift-off and side loading conditions through three additional mounting screw holes at the center of the runner block
- High torque capacity
- Uniform guide rail profile in various versions allows unrestricted interchangeability and combinability of components across all runner block variants
- Mounting of attachments to runner block from above or below

Further highlights

- Lube ports on all sides for maximum ease of maintenance
- Novel lube duct design minimizes lubricant consumption
- Runner blocks made from antifriction bearing steel, with hardened and ground raceways (guide rails also with hardened raceways and ground on all sides)
- Smooth running thanks to optimized roller recirculation and guidance
- Optimized entry-section geometry and high number of rollers per track minimizes variation in elastic deflection
- Aluminum or plastic end caps
- End seals integrated as standard for better sealing of all raceways and to protect plastic parts



Product Description

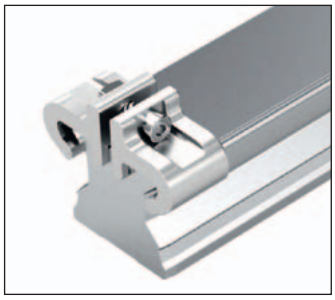
Characteristic features

- Roller guide rails with hardened raceways and ground on all sides
- Maximum rigidity under load from all directions
- Very high torque capacity

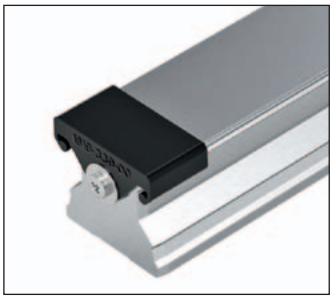
Roller guide rail SNS with proven cover strip for covering mounting holes

- A single cover for all holes – saves time and money
- Stainless spring steel to EN 10088
- Easy, secure mounting
- Clip on and fasten

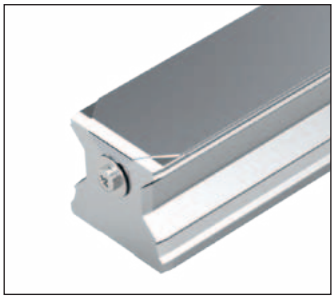
Overview of Design Types and Models



SNS with cover strip and strip clamps

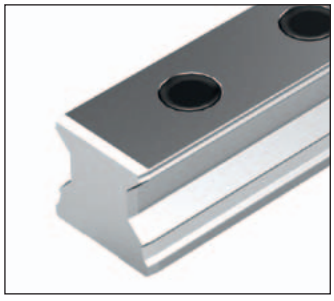


SNS with cover strip and protective end caps

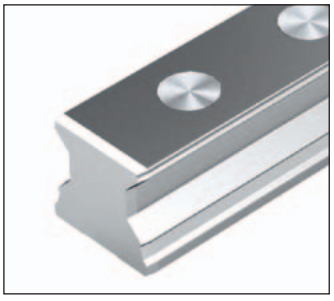


SNS with cover strip and screw/washer

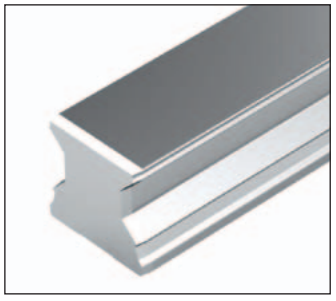
SNS for cover strip



SNS with plastic mounting hole plugs



SNS with steel mounting hole plugs



SNS for mounting from below

Definition of roller guide rail design types

Criterion	Description	Code (example)		
		S	**N**	**S**
Width	**S**limline	S		
	Wide (**B**)	B		
Length	**N**ormal		N	
Height	**S**tandard height			S
	Without slot (**O**)			O

Ordering Roller Guide Rails in Recommended Lengths

Recommended rail lengths are delivered with priority.

From the desired length to the recommended length

$$L = \frac{L_W}{T_2} \cdot T_2 - 4$$

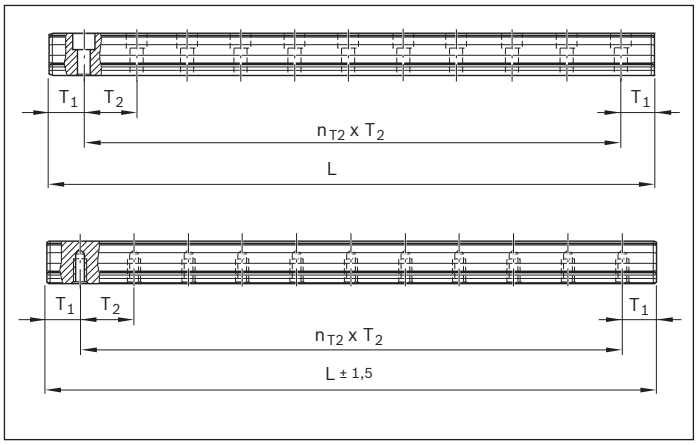
Round up the quotient L_W/T_2 to the next whole number!

Calculation example

$$L = \frac{1660\ mm}{40\ mm} \cdot 40\ mm - 4\ mm$$

$$L = 42 \cdot 40\ mm - 4\ mm$$

$$L = 1676\ mm$$



Basis: number of holes

$$L = n_B \cdot T_2 - 4$$

Basis: number of spaces

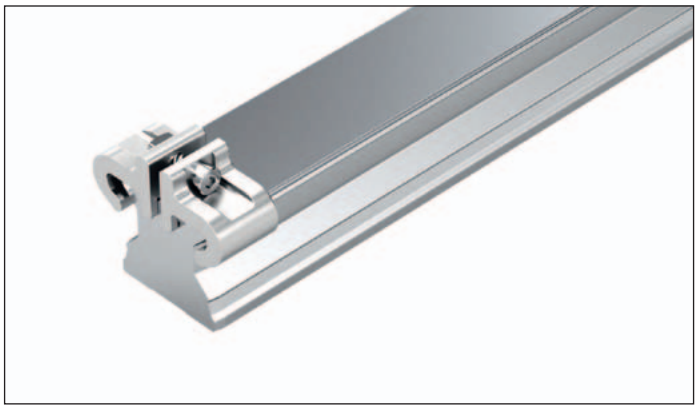
$$L = n_{T2} \cdot T_2 + 2 \cdot T_{1S}$$

L = recommended rail length (mm)
L_W = desired rail length (mm)
T_2 = hole spacing (mm)
T_{1S} = preferred dimension (mm)
n_B = number of holes
n_{T2} = number of spaces

If the preferred dimension T_{1S} cannot be used:

- Select an end space T_1 between T_{1S} and $T_{1\ min}$.
- Do not go below the minimum spacing $T_{1\ min}$!
  (T_1, $T_{1\ min}$, T_{1S} are the same at either end of the rail)

SNS/SNO with Cover Strip and Strip Clamps R1805 .3. ..



For mounting from above, with cover strip made of corrosion-resistant spring steel per EN 10088 and strip clamps made of aluminum (without threaded mounting holes on end face)

Notes

- Secure the cover strip!
- Strip clamps are included in the supply scope.
- Follow the mounting instructions!
- Send for the publications “Mounting Instructions for Roller Rail Systems” and “Mounting Instructions for the Cover Strip.”
- Composite roller guide rails also available.

Roller guide rails R1805 .B. .. with flat underside for mounting on components made of cast mineral materials. In size 25-45 and accuracy class P and SP available.

Part numbers

Size	Roller guide rail with size	Accuracy class					Number of sections		Hole spacing T_2	Recommended rail lengths $L = n_B \cdot T_2 - 4$ mm
		H	P	SP	GP	UP	One-piece	Composite	(mm)	Maximum number of bores n_B
25	R1805 23	3	2	1	8	9	31, ...	3., ...	30.0	133
30*)	R1805 73	3	2	1	8	9	31, ...	3., ...	40.0	100
35	R1805 33	3	2	1	8	9	61, ...	6., ...	40.0	100
45	R1805 43	3	2	1	8	9	61, ...	6., ...	52.5	76
55	R1805 53	3	2	1	8	9	61, ...	6., ...	60.0	66
65	R1805 63	3	2	1	8	9	61, ...	6., ...	75.0	53

***)** In preparation

Ordering example 1 (up to L_{max})
Options:
- Roller guide rail SNS
- Size 35
- Accuracy class P
- One-piece
- Rail length
  L = 1676 mm

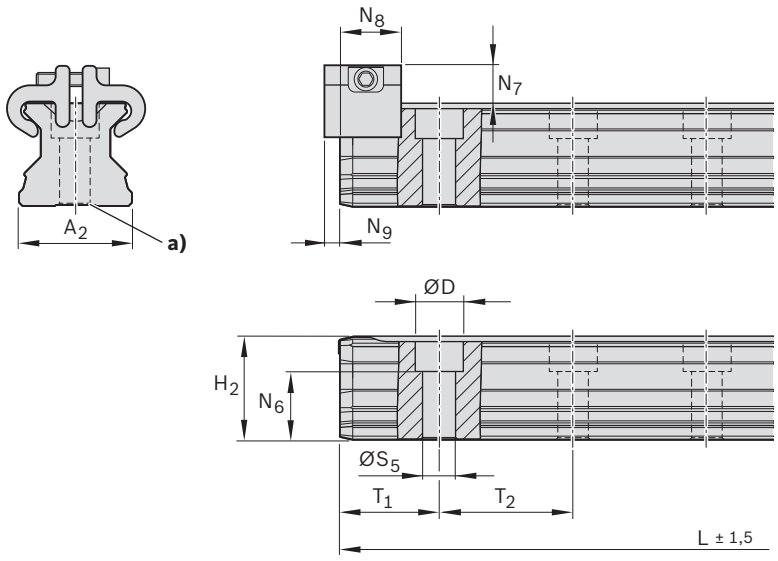
Part number:
R1805 332 61, 1676 mm

Ordering example 2 (over L_{max})
Options:
- Roller guide rail SNS
- Size 35
- Accuracy class P
- **Composite (2 pieces)**
- Rail length
  L = 5036 mm

Part number:
R1805 332 6**2**, 5036 mm

Ordering example 3 (up to L_{max} with flat underside)
Options:
- Roller guide rail SNO
- Size 35
- Accuracy class P
- One-piece
- Rail length
  L = 1676 mm

Part number:
R1805 3**B**2 61, 1676 mm



Roller guide rail with cover strip without tapped holes at the end faces (not required for strip clamps).
Cover strip secured with strip clamps (included).

a) Due to manufacturing reasons, roller guide rails in accuracy class H may not have a slot on the base.

Dimensions (mm)

Size	A_2	D	H_2 [1)]	L_{max}	$N_6^{\pm 0.5}$	N_7 [2)]	N_8	N_9	S_5	$T_{1\,min}$	$T_{1\,s}$ [3)]	T_2	Mass (kg/m)
25	23	11	23.60	3986	14.3	8.2	13	2.0	7	13	13.00	30.0	3.1
30*)	28	15	28.00	3996	16.8	8.7	13	2.0	9	16	18.00	40.0	4.3
35	34	15	31.10	3996	19.4	11.7	16	2.2	9	16	18.00	40.0	6.3
45	45	20	39.10	3986	22.4	12.5	18	2.2	14	18	24.25	52.5	10.3
55	53	24	47.85	3956	28.7	14.0	17	3.2	16	20	28.00	60.0	13.1
65	63	26	58.15	3971	36.5	15.0	17	3.2	18	21	35.50	75.0	17.4

***)** In preparation

1) Dimension H_2 with cover strip
Up to size 30 with cover strip 0.2 mm
From size 35 with cover strip 0.3 mm

2) Dimension N_7 with cover strip

3) Preferred dimension T_{1S} with tolerances ± 0.75

SNS/SNO with Cover Strip and Protective End Caps R1805 .6. ..

For mounting from above, with cover strip made of corrosion-resistant spring steel per EN 10088 and strip screw-down plastic protective end caps (with threaded mounting holes on end face)

Notes

- As an alternative, the cover strip can be secured with screws and washers.
- Protective caps with screws and washers included in scope of supply.
- Follow the mounting instructions!
- Send for the publications “Mounting Instructions for Roller Rail Systems” and “Mounting Instructions for the Cover Strip.”
- Composite roller guide rails also available.

Roller guide rails R1805 .B. .. with flat underside for mounting on components made of cast mineral materials. In size 25-45 and accuracy class P and SP available.

Part numbers

Size	Roller guide rail with size	Accuracy class					Number of sections		Hole spacing T_2	Recommended rail lengths $L = n_B \cdot T_2 - 4$ mm
		H	P	SP	GP	UP	One-piece	Composite	(mm)	Maximum number of bores n_B
25	R1805 26	3	2	1	8	9	31, ...	3., ...	30.0	133
30*)	R1805 76	3	2	1	8	9	31, ...	3., ...	40.0	100
35	R1805 36	3	2	1	8	9	61, ...	6., ...	40.0	100
45	R1805 46	3	2	1	8	9	61, ...	6., ...	52.5	76
55	R1805 56	3	2	1	8	9	61, ...	6., ...	60.0	66
65	R1805 66	3	2	1	8	9	61, ...	6., ...	75.0	53

***)** In preparation

Ordering example 1 (up to L_{max})
Options:
- Roller guide rail SNS
- Size 35
- Accuracy class P
- One-piece
- Rail length
  L = 1676 mm

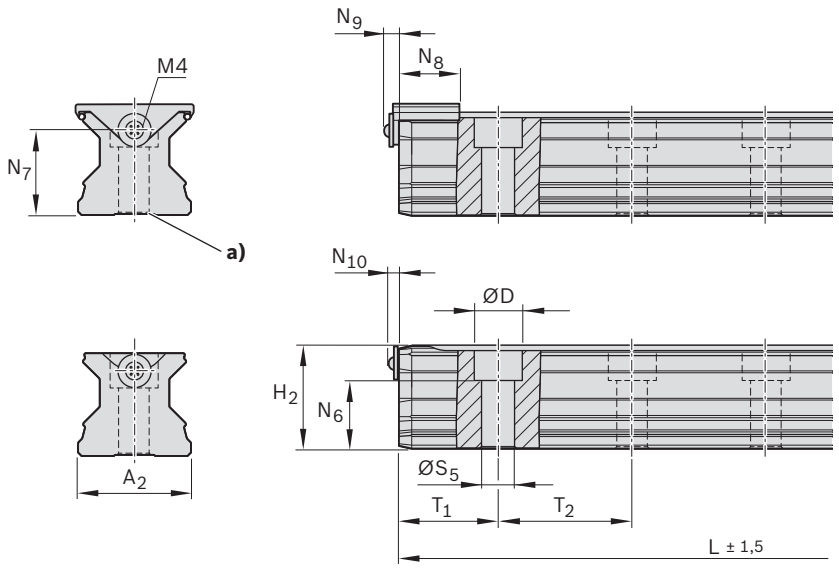
Part number:
R1805 362 61, 1676 mm

Ordering example 2 (over L_{max})
Options:
- Roller guide rail SNS
- Size 35
- Accuracy class P
- **Composite (2 pieces)**
- Rail length
  L = 5036 mm

Part number:
R1805 362 6**2**, 5036 mm

Ordering example 3 (up to L_{max} with flat underside)
Options:
- Roller guide rail SNO
- Size 35
- Accuracy class P
- One-piece
- Rail length
  L = 1676 mm

Part number:
R1805 3**D**2 61, 1676 mm



Roller guide rail with cover strip and tapped holes at the end faces.
Securing with plastic screw-down protective end caps or alternatively with screws and washers (included).

a) Due to manufacturing reasons, roller guide rails in accuracy class H may not have a slot on the base.

Dimensions (mm)

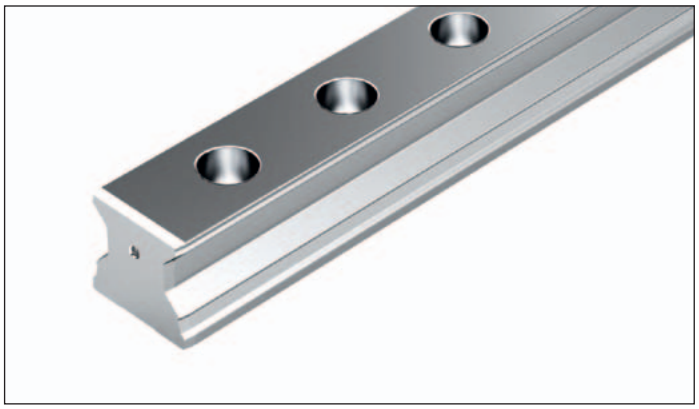
Size	A_2	D	H_2 [1)]	L_{max} [2)]	$N_6^{\pm 0.5}$	N_7	N_8	N_9	N_{10}	S_5	$T_{1\,min}$	$T_{1\,S}$ [2)]	T_2	Mass (kg/m)
25	23	11	23.60	3986	14.3	15	15.2	6.5	4.10	7	13	13.00	30.0	3.1
30*)	28	15	28.00	3996	16.8	18	15.2	7.0	4.10	9	16	18.00	40.0	4.3
35	34	15	31.10	3996	19.4	22	18	7.0	4.10	9	16	18.00	40.0	6.3
45	45	20	39.10	3986	22.4	30	20	7.0	4.10	14	18	24.25	52.5	10.3
55	53	24	47.85	3956	28.7	30	20	7.0	4.35	16	20	28.00	60.0	13.1
65	63	26	58.15	3971	36.5	40	20	7.0	4.35	18	21	35.50	75.0	17.4

***)** In preparation

1) Dimension H_2 with cover strip
Up to size 30 with cover strip 0.2 mm
From size 35 with cover strip 0.3 mm

2) Preferred dimension T_{1S} with tolerances ± 0.75

SNS/SNO for Cover Strip R1805 .2. ..



For mounting from above, for cover strip (not included)

Notes

- Secure the cover strip!
- The cover strip and strip clamps or protective caps must be ordered separately. For part numbers and dimensions see “Accessories”.
- Follow the mounting instructions!
- Send for the publications “Mounting Instructions for Roller Rail Systems” and “Mounting Instructions for the Cover Strip.”
- Composite roller guide rails also available.

Roller guide rails R1805 .B. .. with flat underside for mounting on components made of cast mineral materials. In size 25-45 and accuracy class P and SP available.

Part numbers

Size	Roller guide rail with size	Accuracy class					Number of sections		Hole spacing T_2	Recommended rail lengths $L = n_B \cdot T_2 - 4$ mm
		H	P	SP	GP	UP	One-piece	Composite	(mm)	Maximum number of bores n_B
25	R1805 22	3	2	1	8	9	31, ...	3., ...	30.0	133
30*)	R1805 72	3	2	1	8	9	31, ...	3., ...	40.0	100
35	R1805 32	3	2	1	8	9	31, ...	3., ...	40.0	100
45	R1805 42	3	2	1	8	9	31, ...	3., ...	52.5	76
55	R1805 52	3	2	1	8	9	31, ...	3., ...	60.0	66
65	R1805 62	3	2	1	8	9	31, ...	3., ...	75.0	53

***)** In preparation

Ordering example 1 (up to L_{max})
Options:
- Roller guide rail SNS
- Size 35
- Accuracy class P
- One-piece
- Rail length
  L = 1676 mm

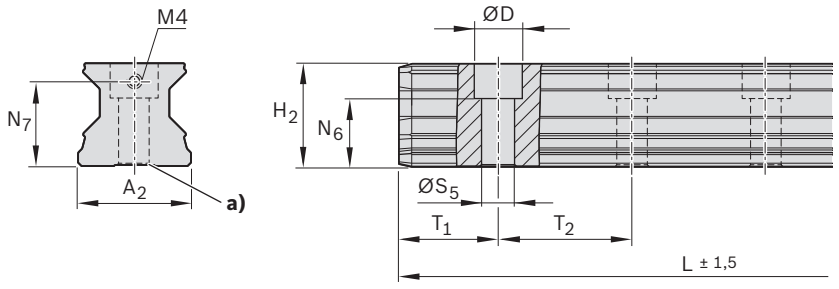
Part number:
R1805 322 31, 1676 mm

Ordering example 2 (over L_{max})
Options:
- Roller guide rail SNS
- Size 35
- Accuracy class P
- **Composite (2 pieces)**
- Rail length
  L = 5036 mm

Part number:
R1805 322 3**2**, 5036 mm

Ordering example 3 (up to L_{max} with flat underside)
Options:
- Roller guide rail SNO
- Size 35
- Accuracy class P
- One-piece
- Rail length
  L = 1676 mm

Part number:
R1805 3**A**2 31, 1676 mm



Roller guide rail with tapped holes at the end faces, without cover strip (the cover strip and strip clamps or protective end caps must be ordered separately).

a) Due to manufacturing reasons, roller guide rails in accuracy class H may not have a slot on the base.

Dimensions (mm)

Size	A_2	D	H_2	L_{max}	$N_6^{\pm 0.5}$	N_7	S_5	$T_{1\,min}$	$T_{1\,S}$ [1)]	T_2	Mass (kg/m)
25	23	11	23.40	3986	14.3	15	7	13	13.00	30.0	3.1
30*)	28	15	27.80	3996	16.8	18	9	16	18.00	40.0	4.3
35	34	15	30.80	3996	19.4	22	9	16	18.00	40.0	6.3
45	45	20	38.80	3986	22.4	30	14	18	24.25	52.5	10.3
55	53	24	47.55	3956	28.7	30	16	20	28.00	60.0	13.1
65	63	26	57.85	3971	36.5	40	18	21	35.50	75.0	17.4

***)** In preparation

1) Preferred dimension T_{1S} with tolerances ± 0.75

SNS/SNO with Plastic Mounting Hole Plugs R1805 .5. ..

For mounting from above, with plastic mounting hole plugs

Notes

- Plastic mounting hole plugs included in scope of supply.
- Follow the mounting instructions!
- Send for the publication “Mounting Instructions for Roller Rail Systems.”
- Composite roller guide rails also available.

Roller guide rails R1805 .B. .. with flat underside for mounting on components made of cast mineral materials. In size 25-45 and accuracy class P and SP available.

Part numbers

Size	Roller guide rail with size	Accuracy class					Number of sections		Hole spacing T_2	Recommended rail lengths $L = n_B \cdot T_2 - 4$ mm
		H	P	SP	GP	UP	One-piece	Composite	(mm)	Maximum number of bores n_B
25	R1805 25	3	2	1	8	9	31, ...	3., ...	30.0	133
30*)	R1805 75	3	2	1	8	9	31, ...	3., ...	40.0	100
35	R1805 35	3	2	1	8	9	31, ...	3., ...	40.0	100
45	R1805 45	3	2	1	8	9	31, ...	3., ...	52.5	76
55	R1805 55	3	2	1	8	9	31, ...	3., ...	60.0	66
65	R1805 65	3	2	1	8	9	31, ...	3., ...	75.0	53

***)** In preparation

Ordering example 1 (up to L_{max})
Options:
- Roller guide rail SNS
- Size 35
- Accuracy class P
- One-piece
- Rail length
  L = 1676 mm

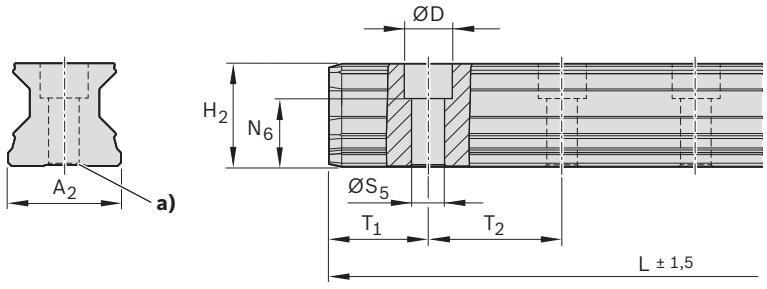
Part number:
R1805 352 31, 1676 mm

Ordering example 2 (over L_{max})
Options:
- Roller guide rail SNS
- Size 35
- Accuracy class P
- **Composite (2 pieces)**
- Rail length
  L = 5036 mm

Part number:
R1805 352 3**2**, 5036 mm

Ordering example 3 (up to L_{max} with flat underside)
Options:
- Roller guide rail SNO
- Size 35
- Accuracy class P
- One-piece
- Rail length
  L = 1676 mm

Part number:
R1805 3**C**2 31, 1676 mm



Plastic mounting hole plugs are supplied with the roller guide rails and are also available as accessories. For details on how to mount the plastic plugs, see "Mounting Instructions for Roller Rail Systems."

a) Due to manufacturing reasons, roller guide rails in accuracy class H may not have a slot on the base.

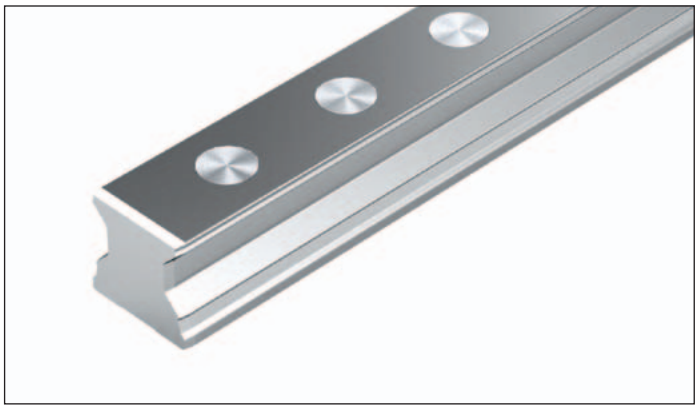
Dimensions (mm)

Size	A_2	D	H_2	L_{max}	$N_6^{\pm 0.5}$	S_5	$T_{1\,min}$	$T_{1\,S}$ [1)]	T_2	Mass (kg/m)
25	23	11	23.40	3986	14.3	7	13	13.00	30.0	3.1
30*)	28	15	27.80	3996	16.8	9	16	18.00	40.0	4.3
35	34	15	30.80	3996	19.4	9	16	18.00	40.0	6.3
45	45	20	38.80	3986	22.4	14	18	24.25	52.5	10.3
55	53	24	47.55	3956	28.7	16	20	28.00	60.0	13.1
65	63	26	57.85	3971	36.5	18	21	35.50	75.0	17.4

***)** In preparation

1) Preferred dimension T_{1S} with tolerances ± 0.75

SNS/SNO with Steel Mounting Hole Plugs
R1806 .5. ..



For mounting from above, for steel mounting hole plugs (not included)

Notes

- Steel mounting hole plugs are not supplied with the roller guide rails. Must be ordered separately (see “Accessories for Roller Guide Rails”).
- Order the mounting tool along with the plugs (see “Accessories for Roller Guide Rails”)!
- Follow the mounting instructions!
- Send for the publication “Mounting Instructions for Roller Rail Systems.”
- Composite roller guide rails also available.

Roller guide rails R1805 .B. .. with flat underside for mounting on components made of cast mineral materials. In size 25-45 and accuracy class P and SP available.

Part numbers

Size	Roller guide rail with size	Accuracy class					Number of sections		Hole spacing T_2	Recommended rail lengths $L = n_B \cdot T_2 - 4$ mm
		H	P	SP	GP	UP	One-piece	Composite	(mm)	Maximum number of bores n_B
25	R1806 25	3	2	1	8	9	31, ...	3., ...	30.0	133
30*)	R1806 75	3	2	1	8	9	31, ...	3., ...	40.0	100
35	R1806 35	3	2	1	8	9	31, ...	3., ...	40.0	100
45	R1806 45	3	2	1	8	9	31, ...	3., ...	52.5	76
55	R1806 55	3	2	1	8	9	31, ...	3., ...	60.0	66
65	R1806 65	3	2	1	8	9	31, ...	3., ...	75.0	53

***)** In preparation

Ordering example 1 (up to L_{max})
Options:
- Roller guide rail SNS
- Size 35
- Accuracy class P
- One-piece
- Rail length
  L = 1676 mm

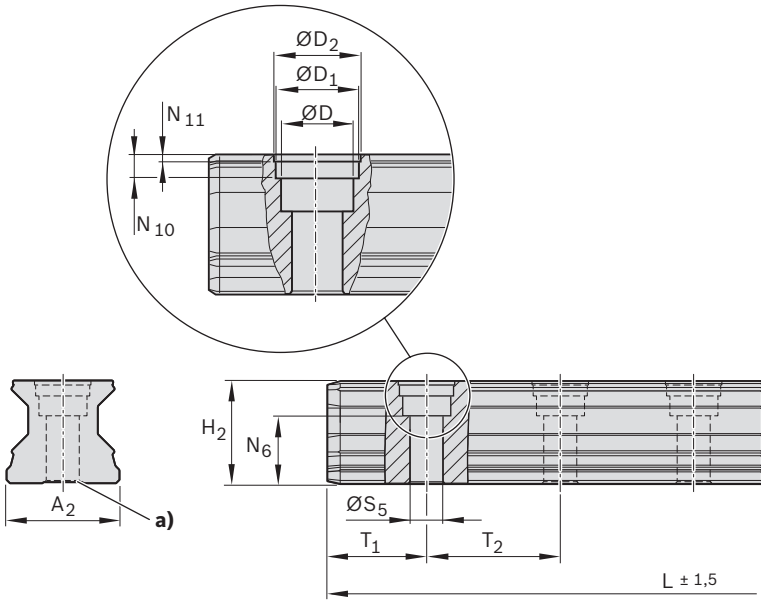
Part number:
R1806 352 31, 1676 mm

Ordering example 2 (over L_{max})
Options:
- Roller guide rail SNS
- Size 35
- Accuracy class P
- **Composite (2 pieces)**
- Rail length
  L = 5036 mm

Part number:
R1806 352 3**2**, 5036 mm

Ordering example 3 (up to L_{max} with flat underside)
Options:
- Roller guide rail SNO
- Size 35
- Accuracy class P
- One-piece
- Rail length
  L = 1676 mm

Part number:
R1806 3**C**2 31, 1676 mm



Steel mounting hole plugs are not supplied with the roller 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.”

a) Due to manufacturing reasons, roller guide rails in accuracy class H may not have a slot on the base.

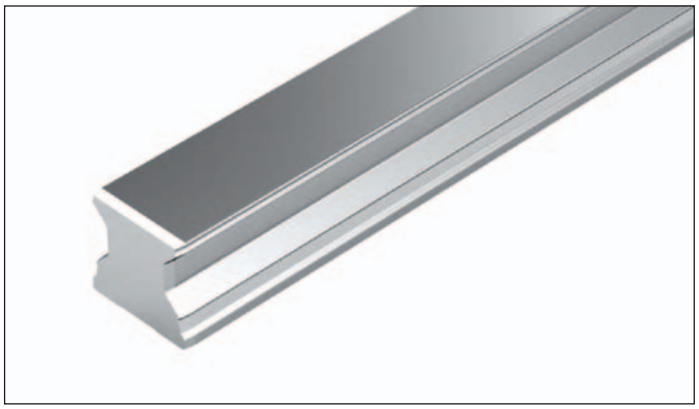
Dimensions (mm)

Size	A_2	D	D_1	D_2	H_2	L_{max}	$N_6^{\pm 0.5}$	N_{10}	N_{11}	S_5	$T_{1\,min}$	$T_{1\,S}$ [1)]	T_2	Mass (kg/m)
25	23	11	12.55	13	23.40	3986	14.3	3.7	0.90	7	10	13.00	30.0	3.1
30*)	28	15	17.55	18	27.80	3996	16.8	0.9	3.60	9	16	18.00	40.0	4.3
35	34	15	17.55	18	30.80	3996	19.4	3.6	0.90	9	12	18.00	40.0	6.3
45	45	20	17.55	18	38.80	3986	22.4	8.0	1.45	14	16	24.25	52.5	10.3
55	53	24	22.55	23	47.55	3956	28.7	8.0	1.45	16	18	28.00	60.0	13.1
65	63	26	27.55	28	57.85	3971	36.5	8.0	1.45	18	20	35.50	75.0	17.4

***)** In preparation

1) Preferred dimension T_{1S} with tolerances ± 0.75

SNS for Mounting from Below
R1807 .0. ..



For mounting from below

Notes

- Follow the mounting instructions!
- Send for the publication “Mounting Instructions for Roller Rail Systems.”
- Composite roller guide rails also available.

Part numbers

Size	Roller guide rail with size	Accuracy class					Number of sections		Hole spacing T_2	Recommended rail lengths $L = n_B \cdot T_2 - 4$ mm
		H	P	SP	GP	UP	One-piece	Composite	(mm)	Maximum number of bores n_B
25	R1807 20	3	2	1	8	9	31, ...	3., ...	30.0	133
30*)	R1807 70	3	2	1	8	9	31, ...	3., ...	40.0	100
35	R1807 30	3	2	1	8	9	31, ...	3., ...	40.0	100
45	R1807 40	3	2	1	8	9	31, ...	3., ...	52.5	76
55	R1807 50	3	2	1	8	9	31, ...	3., ...	60.0	66
65	R1807 60	3	2	1	8	9	31, ...	3., ...	75.0	53

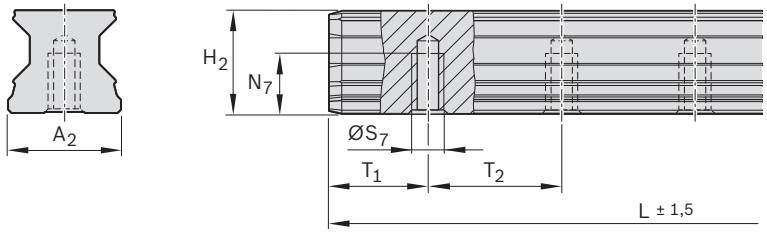
***)** In preparation

Ordering example 1
(up to L_{max})
Options:
- Roller guide rail SNS
- Size 35
- Accuracy class P
- One-piece
- Rail length
  L = 1676 mm

Part number:
R1807 302 31, 1676 mm

Ordering example 2
(over L_{max})
Options:
- Roller guide rail SNS
- Size 35
- Accuracy class P
- **Composite (2 pieces)**
- Rail length
  L = 5036 mm

Part number:
R1807 302 3**2**, 5036 mm



Dimensions (mm)

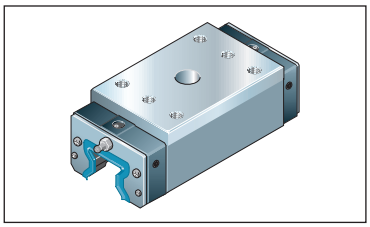
Size	A_2	H_2	L_{max}	N_7	S_7	$T_{1\,min}$	$T_{1\,s}$ [1)]	T_2	Mass (kg/m)
25	23	23.40	3986	12	M6	13	13.00	30.0	3.1
30*)	28	28.00	3996	15	M8	16	18.00	40.0	4.3
35	34	30.80	3996	15	M8	16	18.00	40.0	6.3
45	45	38.80	3986	19	M12	18	24.25	52.5	10.3
55	53	47.55	3956	22	M14	20	28.00	60.0	13.1
65	63	57.85	3971	25	M16	21	35.50	75.0	17.4

***)** In preparation

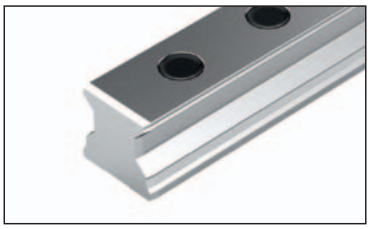
1) Preferred dimension T_{1S} with tolerances ± 0.75

Overview of Accessories for Roller Guide Rails

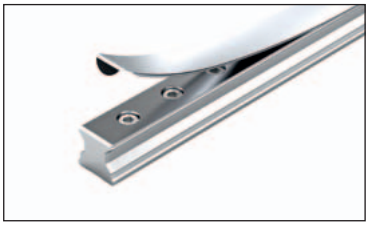
Mounting runner block



Plastic plugs

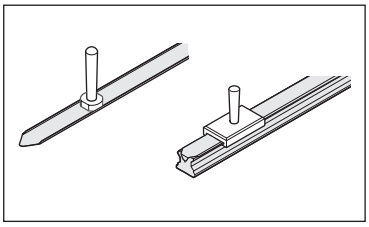


Cover strip

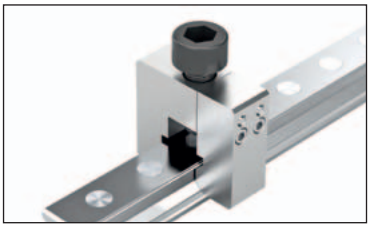


Steel plugs

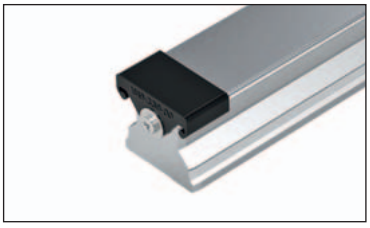
Mounting tools for cover strip



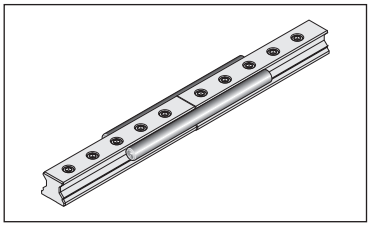
Mounting tool for steel plugs



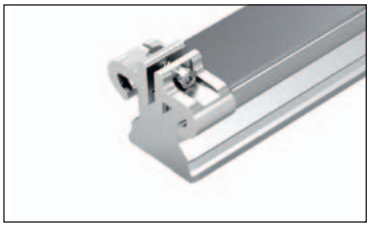
Protective end cap



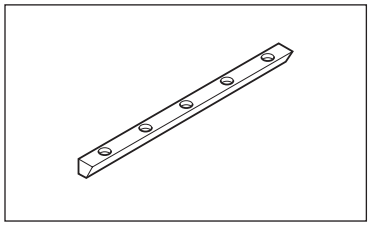
Adjusting shafts



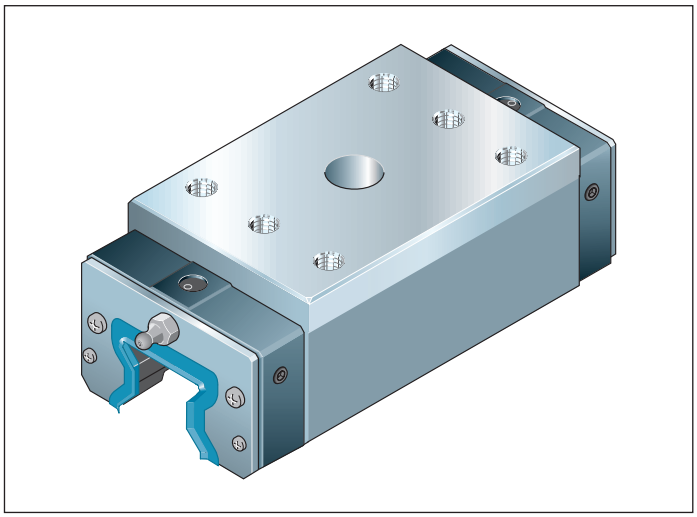
Strip clamp



Wedge profile



Mounting Runner Block



Mounting runner block SLH R1829 slimline, long, high

Mounting aid for parallel alignment of standard roller guide rails

Size	Part numbers for preload class C3
25	R1829 220 27
30*)	
35	R1829 320 39
45	R1829 420 53
55	R1829 520 14
65	R1829 620 04

Mounting with mounting runner block

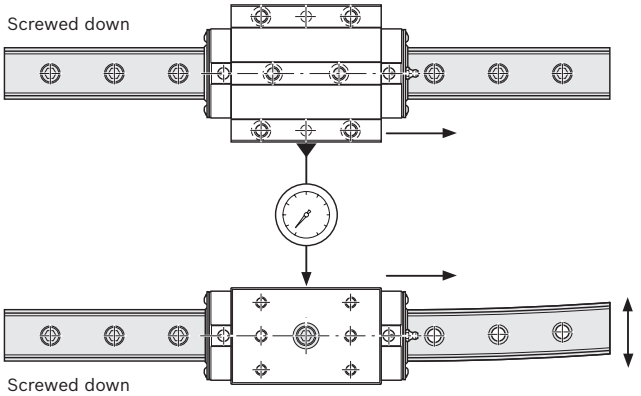
Note

Hole D serves both as key hole and screw hole. 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

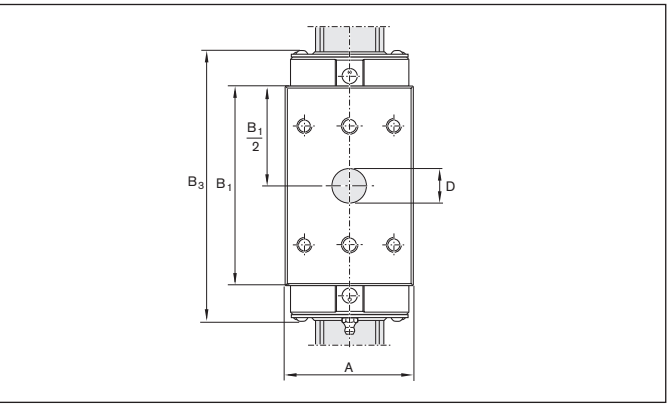
1. Align and mount the first roller guide rail using a graduated straightedge.
2. Set up a mounting bridge with dial gauge between the roller runner blocks.
3. Move both runner blocks in parallel until hole D in the mounting runner block is positioned precisely above a mounting hole in the rail.
4. Align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

Standard roller runner block



Mounting runner block SLH R1829

Size	Dimensions[1] (mm)				Mass
	A	B_1	B_3	D	kg
25	48	81.5	115	19	0.8
30*)					
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

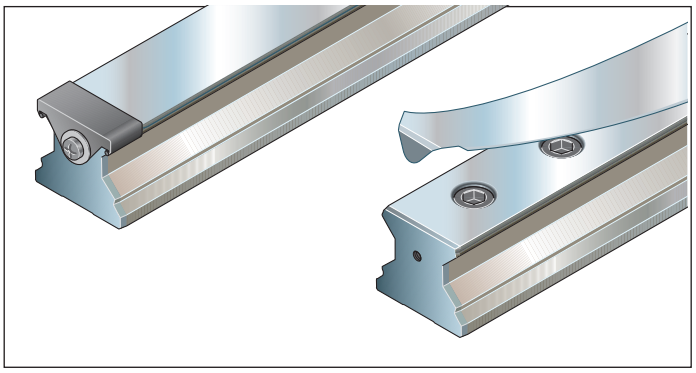


***)** In preparation

1) For all other dimensions, see Roller Runner Blocks SLH R1824 ... 10

Cover Strip

Notes on cover strip



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

Advantages

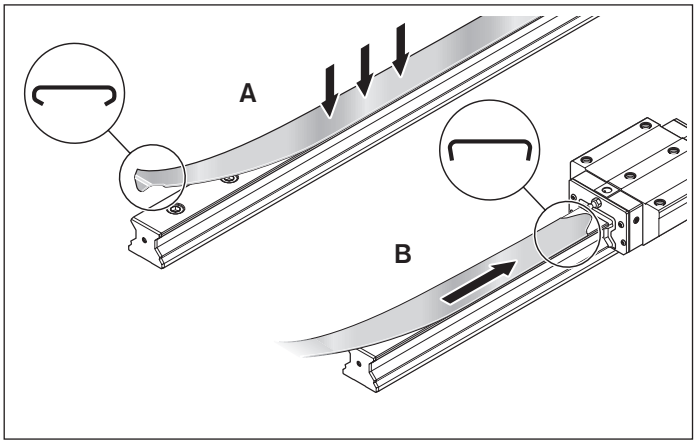
The cover strip is easy to clip on and remove.

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

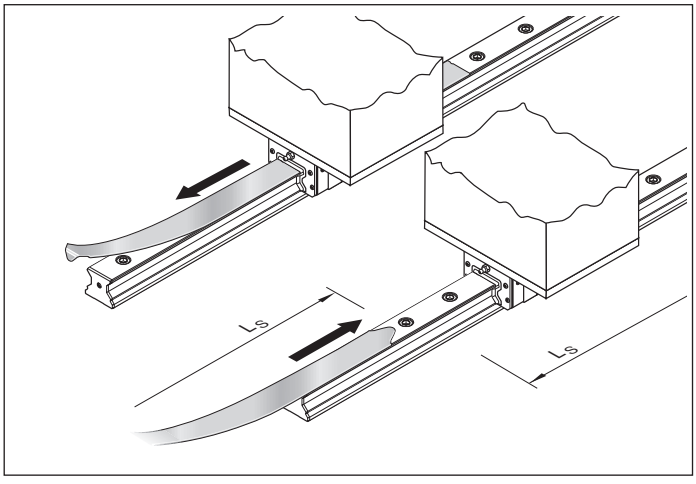
Versions and functions

A Snap-fit cover strip (standard)
- The cover strip is clipped on before the roller runner blocks are mounted and fits tightly.

B Sliding-fit cover strip
- For mounting or replacing a cover strip when the roller 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 roller 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!



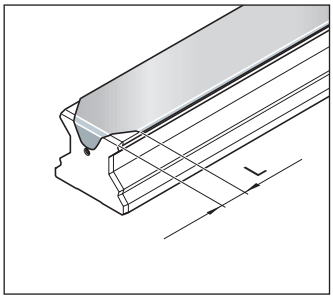
For part numbers, see the following pages.

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

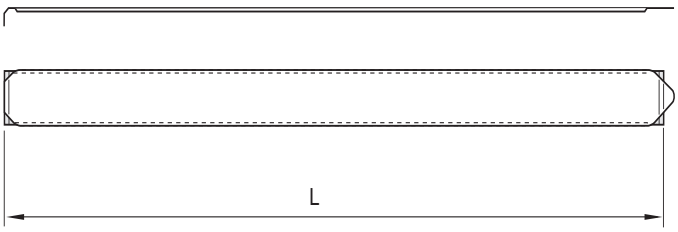
⚠ Do not allow the roller runner blocks to travel right to the rail end!
The seals on the roller runner blocks could be damaged by the tapered edges of the cover strip.

- Maintain a minimum distance of L_{min} from the rail end.

Size	L mm
25–30	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

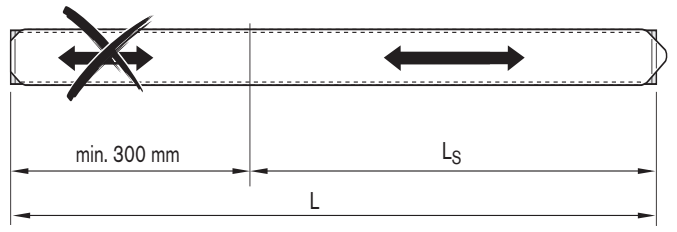


Standard snap-fit cover strip



Size	Standard snap-fit cover strip Part number, length (mm)	Mass g/m
25	R1619 230 00, ...	32
30	R1619 730 20, ...	40
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



L_S = sliding fit length
L = rail length

Size	Sliding-fit cover strip Part number, length (mm)	Mass g/m
25	R1619 230 10, ...	25
30	R1619 730 10, ...	40
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

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 roller guide rail length (see previous page).

Ordering example

Standard snap-fit cover strip

- Roller guide rail size 35
- Rail length L = 2696 mm

Ordering data

Part number, length L (mm)

R1619 330 20, 2696 mm

Ordering example

Sliding-fit cover strip

- Roller guide rail size 35
- Rail length L = 2696 mm
- Sliding fit length
  L_S = 1200 mm

Ordering data

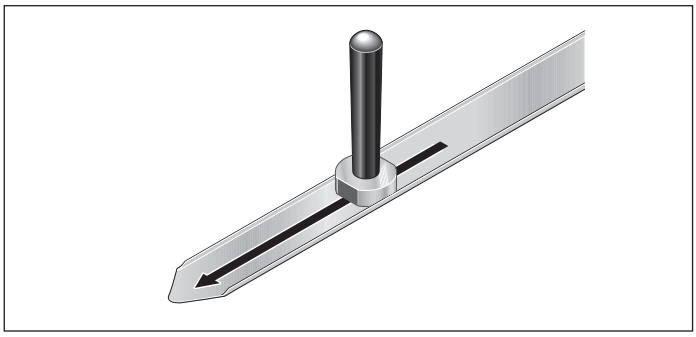
Part number, length L (mm)

Sliding fit length L_S (mm)

R1619 330 30, 2696, 1200 mm

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

Mounting Tools for Cover Strip

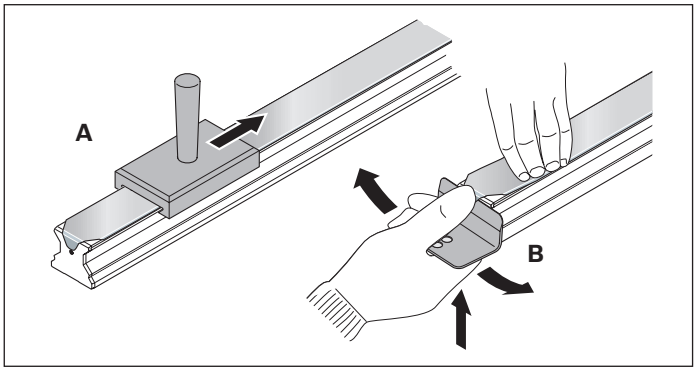


Expanding tool

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	Mass kg
25	R1619 215 10	0.08
30	R1619 715 10	0.10
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	



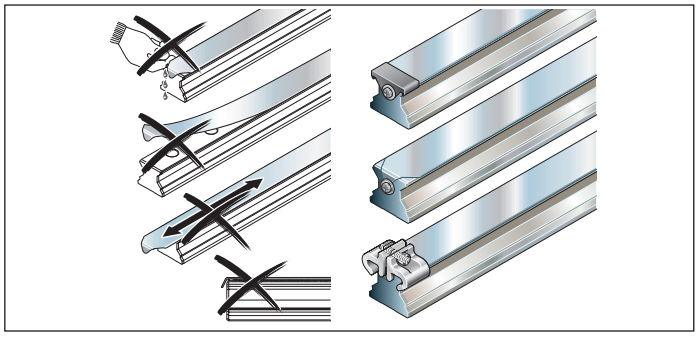
Cover strip mounting kit

Mounting tool and lifting plate

Notes
The kit comprises a mounting tool (A) for clipping on the cover strip and a lifting plate (B) for removing the cover strip.
For detailed information, see “Mounting Instructions for the Cover Strip.”

Size	Part numbers	Mass kg
25	R1619 210 70	0.17
30	R1619 710 50	0.20
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	

Parts for Securing the Cover Strip



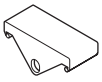
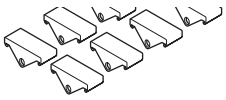
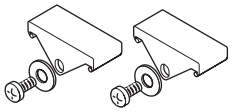
Parts for securing the cover strip

Rexroth recommends securing the cover strip with:

- Protective end caps
- Screws and washers
- Strip clamps (see the following page)

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

Protective end caps

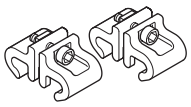
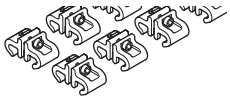
Size	Single plug 		Bulk pack 		Set (2 pieces per unit with screws) 	
	Part numbers (without screws)	Mass g	Part number/quantity (without screws)	Mass kg	Part numbers (unit)	Mass g
25	R1619 239 00	1.0	R1619 239 01 / 1000	1.3	R1619 239 20	7
30	R1619 730 10	1.7	R1619 739 01 / 1000	1.7	R1619 739 20	8
35	R1619 339 10	2.0	R1619 339 01 / 1000	2.5	R1619 339 30	10
45	R1619 439 00	4.0	R1619 439 01 / 700	2.6	R1619 439 20	13
55	R1619 539 00	4.0	R1619 539 01 / 500	2.1	R1619 539 20	20
65	R1619 639 00	6.0	R1619 639 01 / 300	1.7	R1619 639 20	20

Screws and washers

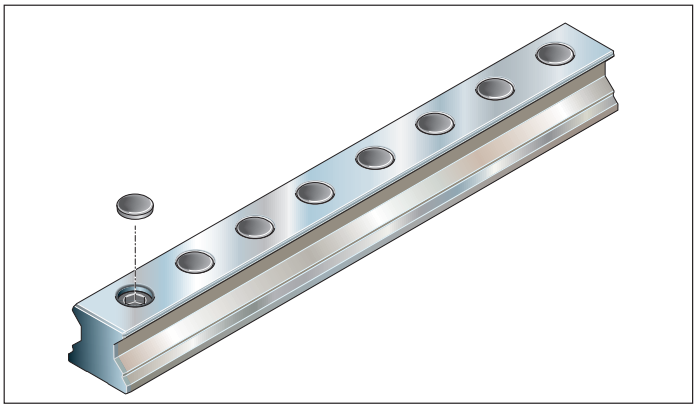
Size	Screws (1200 pieces per unit) 		Washers (1200 pieces per unit) 	
	Part numbers (unit)	Mass kg	Part numbers (unit)	Mass kg
25	R3427 046 05	1.8	R3448 026 01	0.92
30	R3427 046 05	1.8	-	-
35	R3427 046 05	1.8	R3448 024 01	1.30
45	R3427 046 05	1.8	R3448 024 01	1.30
55	R3427 046 05	1.8	R3448 027 01	2.90
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

Parts for Securing the Cover Strip

Strip clamps

Size	Set (2 pieces per unit)		Bulk pack (100 pieces per unit)	
				
	Part numbers (unit)	**Mass g**	**Part numbers (unit)**	**Mass kg**
25	R1619 239 50	14	R1619 239 60	1.4
30	R1619 739 50	22	R1619 739 60	2.2
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

Plastic Mounting Hole Plugs



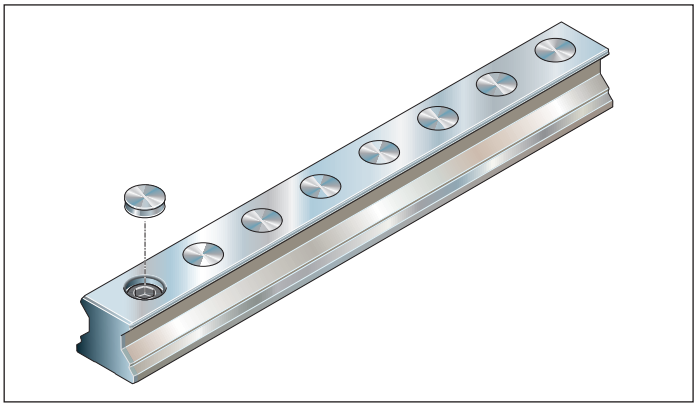
Notes for mounting

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

Part numbers plastic plugs

Size	Single plastic cap		Bulk pack	
	Part numbers	**Mass (g)**	**Part numbers/pieces**	**Mass/packing (kg)**
25	R1605 200 80	0.3	R1605 200 80 / 5000	1.2
30/35	R1605 300 80	0.6	R1605 300 80 / 2000	1.2
45	R1605 400 80	1.0	R1605 400 80 / 1000	1.0
55	R1605 500 80	1.7	R1605 500 80 / 500	1.7
65	R1605 600 80	2.1	–	–

Steel Mounting Hole Plugs



Notes

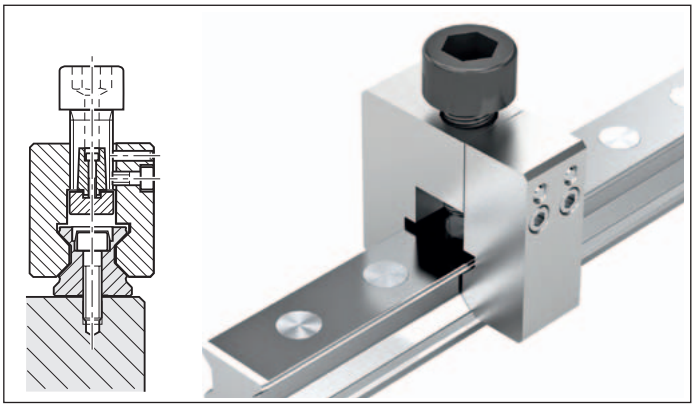
- Steel mounting hole plugs are not supplied with the roller guide rails.
- Order the mounting tool along with the plugs!
- For details on how to mount the steel plugs, see “Mounting Instructions for Roller Rail Systems.”

Part numbers steel plugs

Size	Single plug made of machining steel		Single plug, Resist NR II[1)]	
	Part numbers	Mass (g)	Part numbers	Mass (g)
25	R1606 200 75	2	R1606 200 78	2
30/35	R1606 300 75	3	R1606 300 78	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
100	R1836 200 75	23	–	–

1) Made from corrosion-resistant steel 1.4305

Mounting Tool for Steel Mounting Hole Plugs



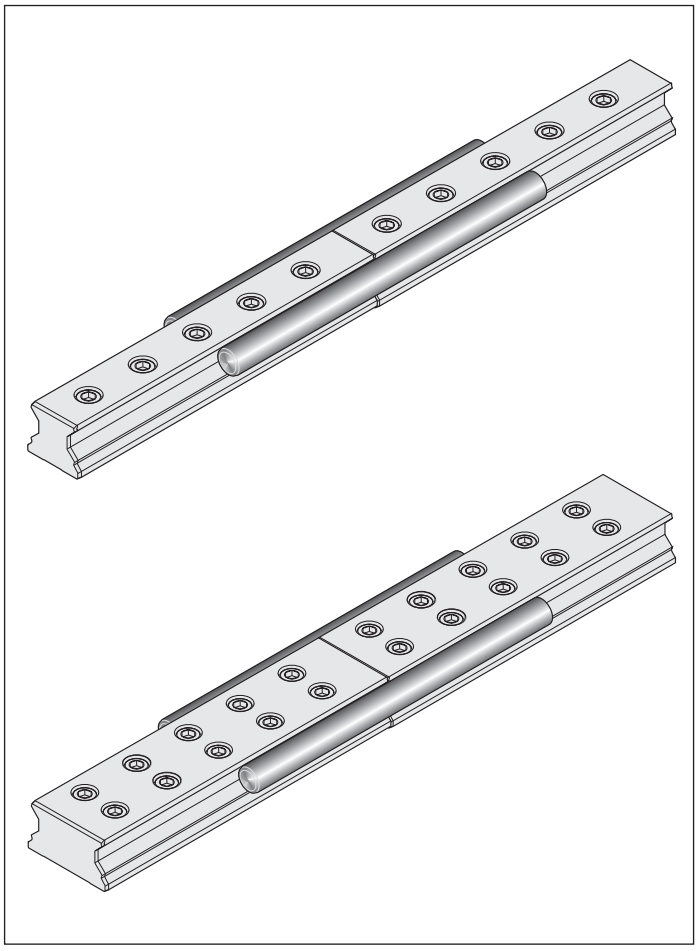
Note

- The two-piece mounting tool is suitable for mounting hole plugs to a screwed down roller guide rail (mounting instructions included).

Part numbers mounting tool

Size	Part numbers	Mass (kg)
25	R1619 210 20	0.37
30	R1619 710 20	–
35	R1619 310 30	0.57
45	R1619 410 30	0.85
55	R1619 510 30	1.50
65	R1619 610 30	1.85
100	R1810 251 30	–

Adjusting Shafts



Adjusting shafts

Mounting aid for composite roller guide rails

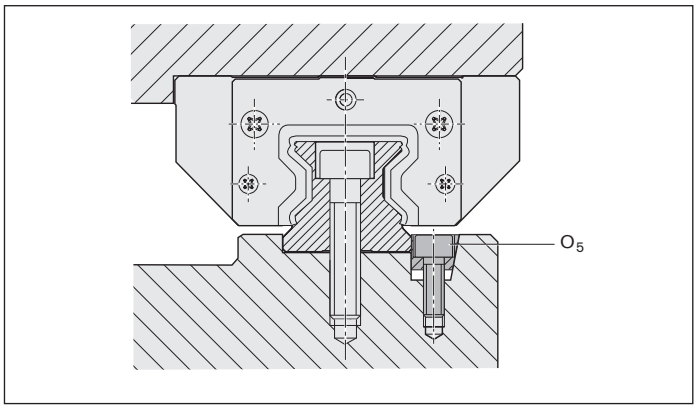
Notes
Adjusting shafts are especially helpful when there is no reference edge.

Observe the “Mounting Instructions for Roller Rail Systems.”

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

Size	Part numbers	Dimensions (mm)		Mass
	Adjusting shaft (single)	Shaft dia.	Length	kg
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

Wedge Profile

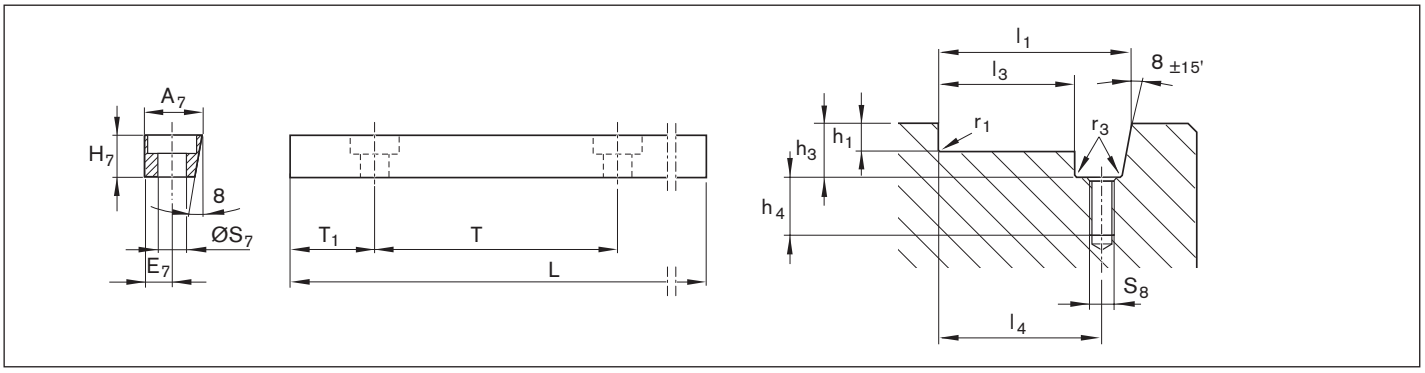


Wedge profile

Mounting aid for lateral retention of roller guide rails

- Material: steel
- Version: black finished

Observe the “Mounting Instructions for Roller Rail Systems.”



Wedge profile

Size	Part numbers	Dimensions (mm)								Mass
		A_7	E_7	H_7	L	O_5[1)]	$_{S7}$	T	T_1	kg
25/30/35	R1619 200 01	12.0	6	10	957	M5x20	6.0	60	28.5	0.8
45/55/65	R1619 400 01	19.0	9	16	942	M8x25	9.0	105	51.0	2.0
100[2)]	R1810 291 02	34.0	16	23	938	M12x35	13.5	105	49	5.3
125	R1810 391 02	47.5	23	30	954	M16x45	17.5	120	57.0	9.5

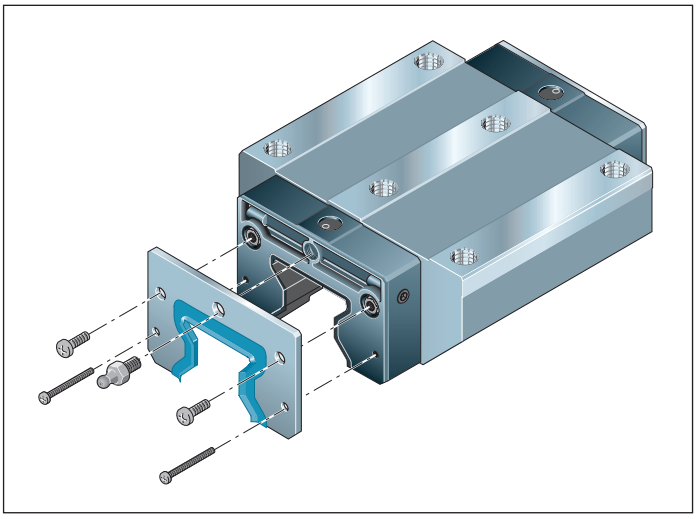
1) Screw O_5 as per DIN 6912
2) Size 100 on request

Wedge profile groove

Size	Dimensions (mm)								
	$h_{1\ -0.2}$	h_3^{+1}	h_4^{+2}	$l_1^{\pm0.05}$	$l_3^{-0.1}$	$l_4^{\pm0.1}$	$r_{1\ max}$	$r_{3\ max}$	S_8
25	4.5	12.5	15	35.1	22.9	29	0.8	0.5	M5
30*[)]									
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

***)** In preparation

End Seal



End seal

On RSHP already integrated (replacement only for generation 1 roller runner blocks)

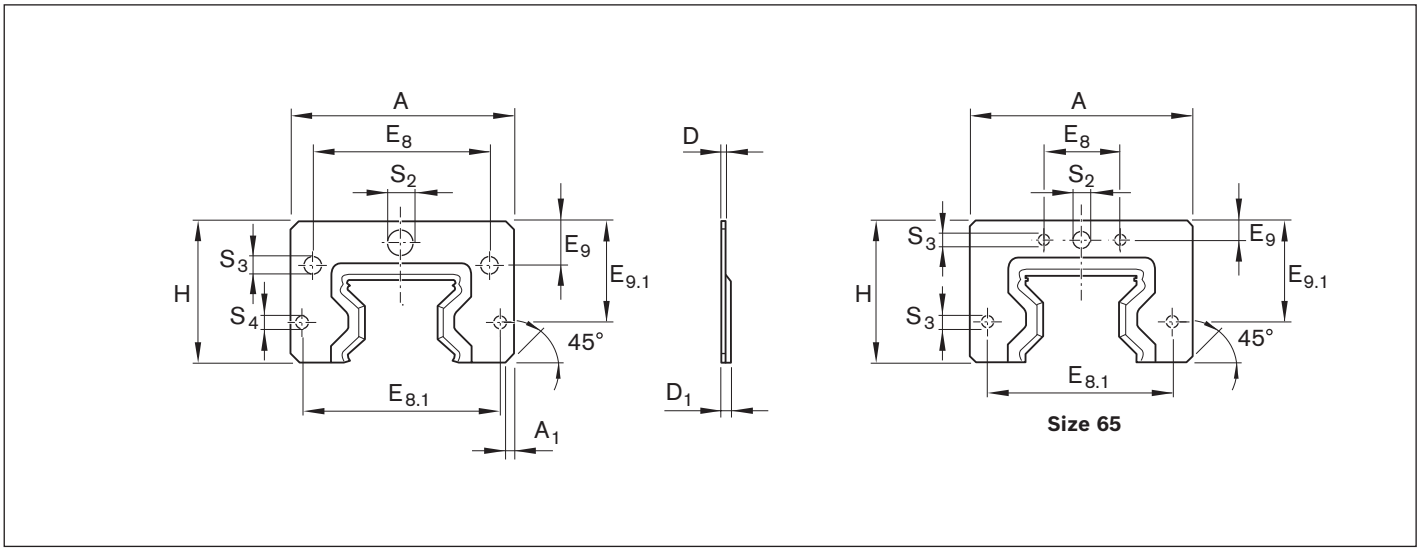
- Material: corrosion-resistant spring steel to EN 10088 with polymer seal
- Version: bright

Notes for mounting

Comes complete with mounting screws.

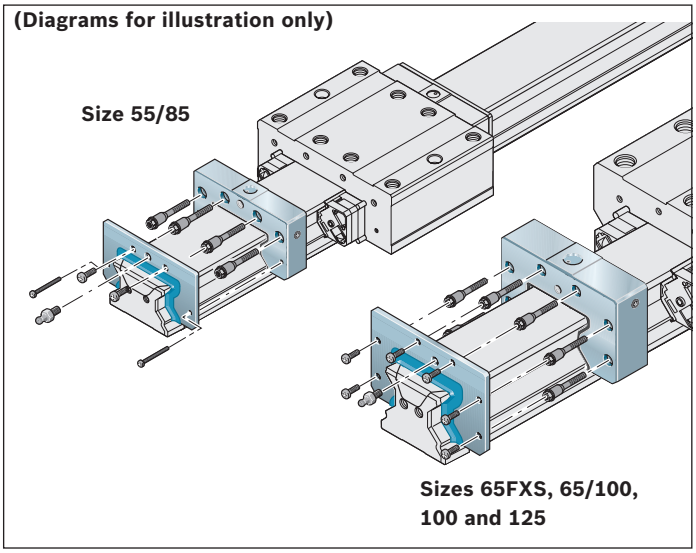
- Dispose of the old screws.

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



Size	Part numbers	Dimensions (mm)												Mass (g)
	Set	A	A_1	D	D_1	E_8	$E_{8.1}$	E_9	$E_{9.1}$	H	S_2	S_3	S_4	
55/85	R1810 512 00	122.5	2	2.0	5.3	40	113.6	10.0	50	66.2	7	6.0	4.0	82
65/100	R1810 612 00	156.0	4	2.0	5.0	72	143.0	8.3	54	74.5	7	5.0	5.0	120
65 (FXS)	R1810 610 00	119.0	3	2.0	5.0	35	106.0	8.3	54	74.5	7	5.0	5.0	108
100	R1810 211 00	181.0	2	2.5	5.5	130	162.6	28.4	61	104.0	9	6.0	6.0	280
125	R1810 311 00	230.0	5	3.0	6.0	205	205.0	38.0	90	133.0	9	6.5	6.5	530

Set of End Caps with End Seals



Set for wide roller runner blocks and heavy duty roller runner blocks

For replacement as part of roller runner block servicing

Notes

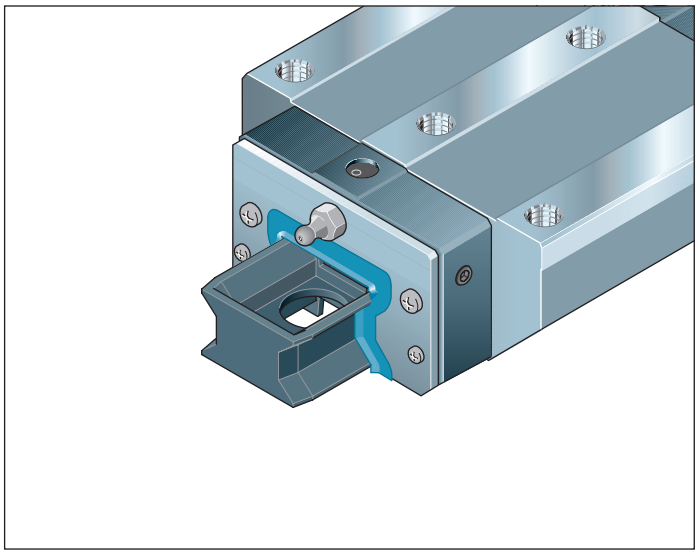
Comes complete with mounting screws.

- Dispose of the old screws.

For more details, see “Mounting Instructions for Roller Rail Systems.”

Size	Part numbers for set of end caps with end seals to match		Mass of set with end caps made from	
	Wide roller runner blocks	Heavy duty roller runner blocks	Plastic kg	Aluminum kg
55/85	R1810 592 60	–	–	0.30
65/100	R1810 692 60	–	–	0.65
65 (FXS)	–	R1810 690 10	0.26	–
100	–	R1810 291 10	0.61	–
125	–	R1810 391 60	–	2.30

Transport and Mounting Arbor



Transport and mounting arbor for roller runner blocks

For shipping and as a mounting aid

- Material: plastic

Notes

The roller runner block simply slides off its arbor and onto the rail.

Please refer to the “Mounting Instructions” section.

⚠ The roller runner block must remain on the arbor until it is slid onto the roller guide rail! Otherwise, rollers may be lost!

Size	Normal		Long	
	Part numbers	Mass (g)	Part numbers	Mass (g)
25	R1651 202 89	3.8	R1653 202 89	4.2
30	R1651 702 89	7.5	R1653 702 89	9.1
35	R1651 302 89	8.7	R1653 302 89	10.2
45	R1651 402 89	17.2	R1653 402 89	20.5
55	R1653 502 89	32.8	R1653 502 89	32.8
65	R1853 600 91	40.7	R1853 600 91	40.7
65 (FXS)	–	–	R1854 600 91	68.0
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