

## SLH – Slimline, long, high R1824 ... 2.



### Dynamic characteristics

Travel speed:  $v_{\max} = 4 \text{ m/s}$

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

### Recommended combination based on preload and accuracy class

- ▶ For preload C2: H and P (preferably)
- ▶ For preload C3: P and SP

### Material numbers

Size	Roller Runner Block with size	Preload class		Accuracy class				Seals		
		C2	C3	H	P	SP	UP	DS	SS <sup>1)</sup>	AS
25	R1824 2	2		3	2	1	9	2X	–	–
			3		2	1	9	2X	–	–
35	R1824 3	2		3	2	1	9	2X	24	2A
			3		2	1	9	2X	24	2A
45	R1824 4	2		3	2	1	9	2X	24	2A
			3		2	1	9	2X	24	2A
55	R1824 5	2		3	2	1	9	2X	–	2A
			3		2	1	9	2X	–	2A

1) In Preparation

### Technical data

Size	Mass (kg)	Load ratings <sup>2)</sup> (N)		Torsional moment load capacity <sup>2)</sup> (Nm)		Longitudinal moment load capacity <sup>2)</sup> (Nm)	
		C	C <sub>0</sub>	M <sub>t</sub>	M <sub>t0</sub>	M <sub>L</sub>	M <sub>L0</sub>
25	0.80	33300	76400	432	990	420	970
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

2) Determination of the dynamic load capacities and load moments is based on a stroke travel of 100,000 m according to DIN ISO 14728-1. However, often only 50,000 m is actually stipulated. For comparison: Multiply values C, M<sub>t</sub> and M<sub>L</sub> from the table by 1.23.

### Order example

Options:

- ▶ Roller Runner Block SLH
- ▶ Size 35
- ▶ Preload class C2
- ▶ Accuracy class H
- ▶ With double-lip seal 2X

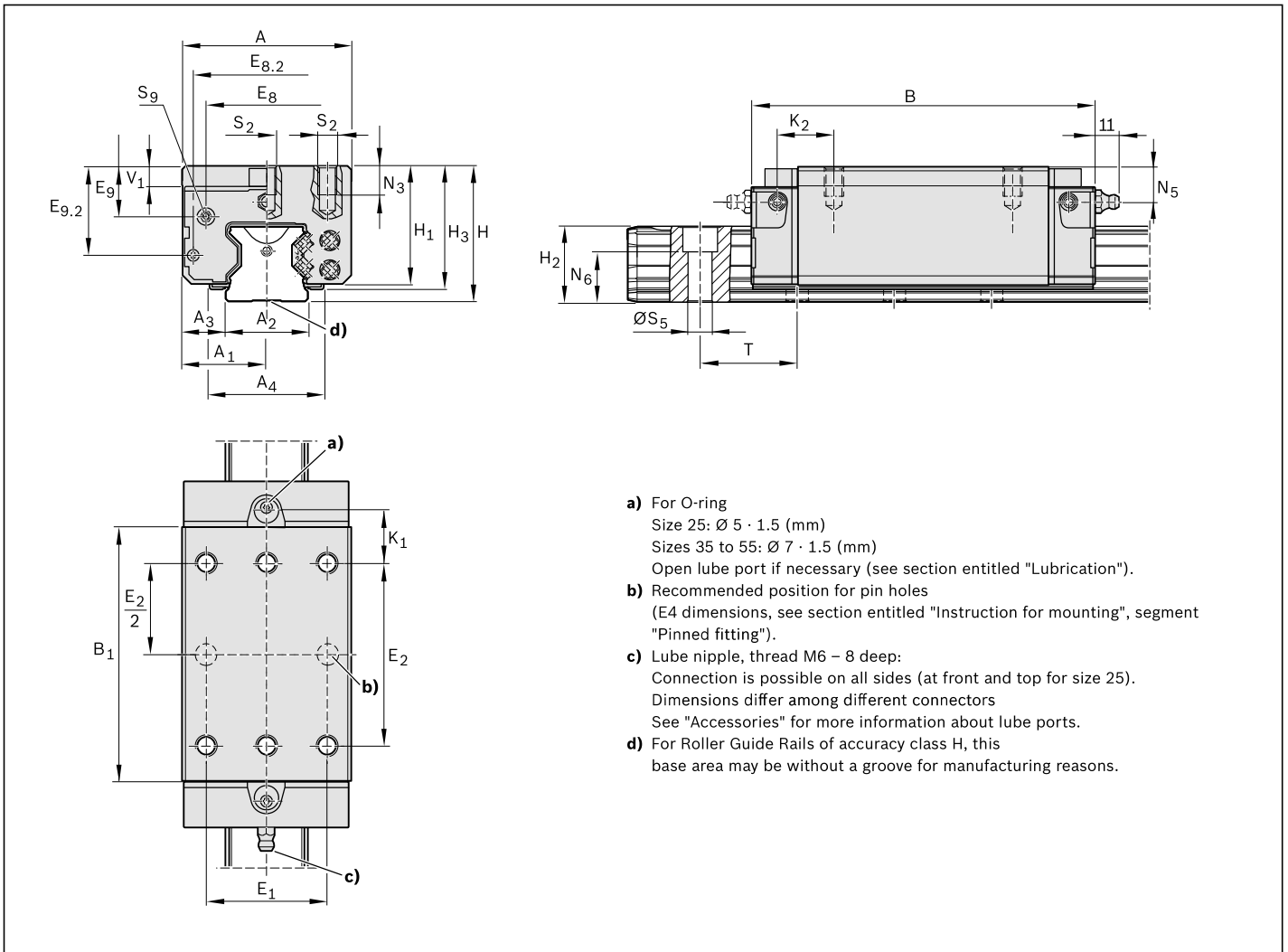
Material number: R1824 323 2X

### Preload classes

C2 = Average preload  
C3 = High preload  
C1, C4, C5 upon request

### Seals

DS = Double-lip seal  
SS = Standard seal  
AS = Longitudinal seal



- a) For O-ring  
 Size 25:  $\varnothing 5 \cdot 1.5$  (mm)  
 Sizes 35 to 55:  $\varnothing 7 \cdot 1.5$  (mm)  
 Open lube port if necessary (see section entitled "Lubrication").
- b) Recommended position for pin holes  
 (E4 dimensions, see section entitled "Instruction for mounting", segment "Pinned fitting").
- c) Lube nipple, thread M6 – 8 deep:  
 Connection is possible on all sides (at front and top for size 25).  
 Dimensions differ among different connectors  
 See "Accessories" for more information about lube ports.
- d) For Roller Guide Rails of accuracy class H, this  
 base area may be without a groove for manufacturing reasons.

**Dimensions (mm)**

Size	A	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub> <sup>1)</sup>	B	B <sub>1</sub>	E <sub>1</sub>	E <sub>2</sub>	E <sub>8</sub>	E <sub>8.2</sub>	E <sub>9</sub>	E <sub>9.2</sub>
25	48	24	23	12.5	–	115.00	81.5	35	50	33.4	40.2	12.30	25.40
35	70	35	34	18.0	47.0	142.00	103.6	50	72	50.3	60.5	20.10	36.10
45	86	43	45	20.5	55.6	179.50	134.0	60	80	62.9	72.0	26.70	46.50
55	100	50	53	23.5	63.3	209.65	162.1	75	95	74.2	81.6	28.85	50.75

Size	H	H <sub>1</sub>	H <sub>2</sub> <sup>2)</sup>	H <sub>2</sub> <sup>3)</sup>	H <sub>3</sub> <sup>4)</sup>	K <sub>1</sub>	K <sub>2</sub>	N <sub>3</sub>	N <sub>5</sub>	N <sub>6</sub> <sup>±0.5</sup>	S <sub>2</sub>	S <sub>5</sub>	S <sub>9</sub> <sup>5)</sup>	T <sup>6)</sup>	V <sub>1</sub>
25	40	34	23.60	23.40	–	20.55	–	8	9.5	14.3	M6	7	M3-6,5 deep	30.0	7.5
35	55	48	31.10	30.80	50	22.55	24.40	13	14.0	19.4	M8	9	M3-6,0 deep	40.0	8.0
45	70	61	39.10	38.80	63	33.70	36.60	18	18.0	22.4	M10	14	M4-9,0 deep	52.5	10.0
55	80	68	47.85	47.55	70	41.25	44.40	19	19.0	28.7	M12	16	M5-8.0 deep	60.0	12.0

- 1) Dimension A<sub>4</sub> = Width of the additional longitudinal seal
- 2) Dimension H<sub>2</sub> with cover strip
- 3) Dimension H<sub>2</sub> without cover strip
- 4) Dimension H<sub>3</sub> = Total Roller Runner Block including the additional longitudinal seal
- 5) Thread for connecting parts
- 6) T = Rail separation of the Roller Guide Rail