

# Rexroth Ball Rail Systems

## Runner Blocks, Aluminum Version

### Runner Block 1632-

#### Slimline

Versions:

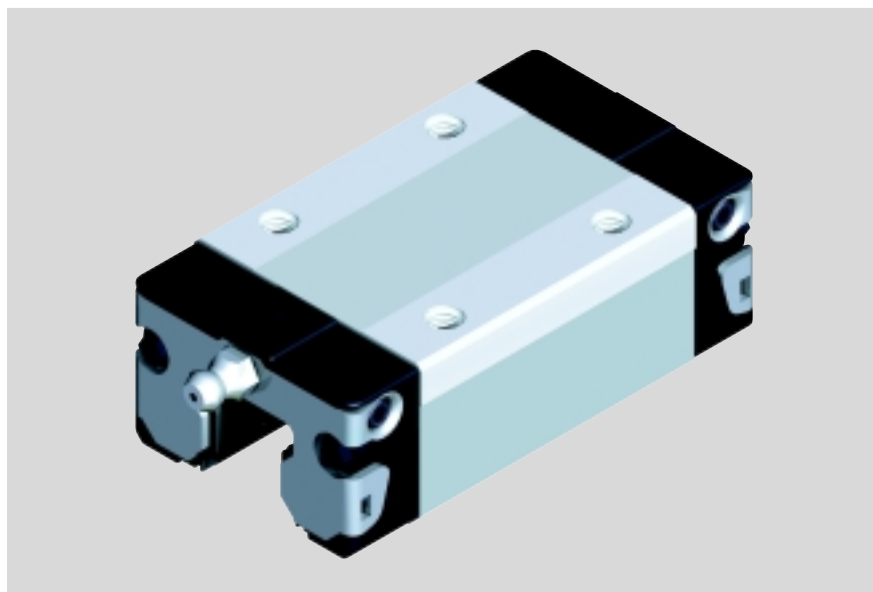
- Runner block without ball chain:  
for part numbers, see table
- Runner block with ball chain:  
part numbers 1632-...-22

#### Dynamic characteristics

Speed  $v_{\max} = 5 \text{ m/s}$

Acceleration  $a_{\max} = 500 \text{ m/s}^2$

Other technical data, see chapter "General Technical Data and Calculations".



#### Part numbers

Size	Accuracy class	Part numbers for runner block for preload class	
		up to approx. 10 $\mu\text{m}$ clearance	Preload 0.02 C
15*	H	1632-193-20	1632-113-20
	N	1632-194-20	1632-114-20
25*	H	1632-293-20	1632-213-20
	N	1632-294-20	1632-214-20
30*	H	1632-793-20	1632-713-20
	N	1632-794-20	1632-714-20
35*	H	1632-393-20	1632-313-20
	N	1632-394-20	1632-314-20

\* Under preparation

#### Permissible load

When calculating the service life, use the maximum load capacity figure.

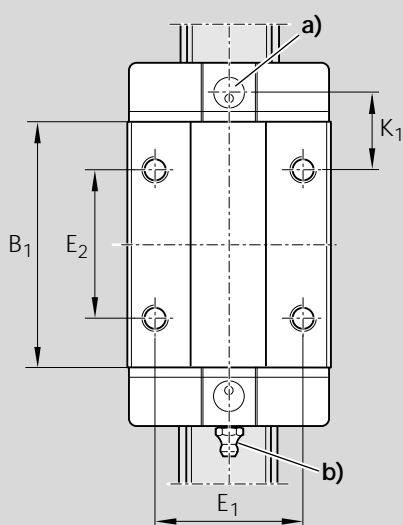
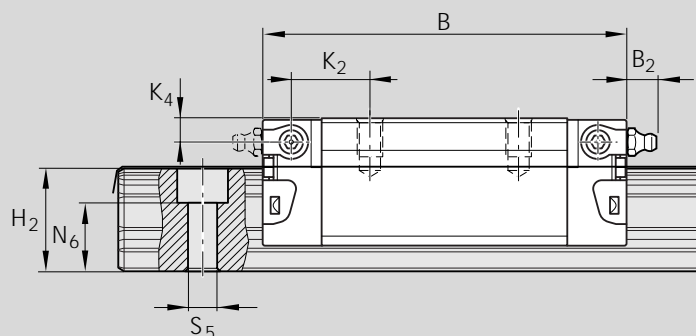
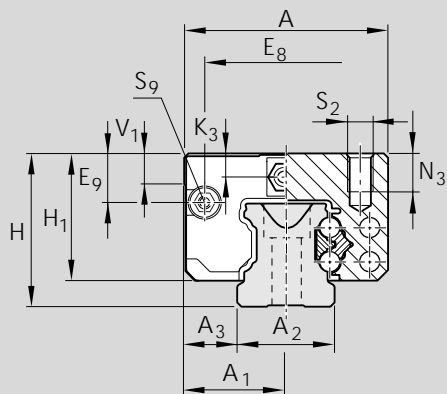
The permissible load is limited only for reasons of statics (see table).

#### Note on dynamic load capacities and moments (see table)

Determination of dynamic load capacities and moments is based on a travel life of 100 000 m.

However, frequently this is determined on the basis of only 50 000 m.

In this case for comparison: multiply values  $C$ ,  $M_t$  and  $M_L$  by 1.26 in accordance with Rexroth table.



- a)** For O-ring  
 Size 15: dia. 4 · 1.0 (mm)  
 Size 25-35: dia. 5 · 1.0 (mm)  
 Open lube bore as required.  
 See Accessories:  
 Mounting lubrication adapter.
- b)** Lube nipple size 15:  
 funnel-type nipple  
 Type A – M3 x 5, DIN 3405  
 $B_2 = 1.6$  mm  
 If another lube nipple is used:  
 observe the screw-in depth of 5 mm!
- Size 25 to 35: M6 x 8,  
 DIN 71412  
 $B_2 = 9.5$  mm  
 If another lube nipple is used:  
 observe the screw-in depth of 8 mm!  
 Connection possible at all sides.

Dimensions (mm)

Size	A	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	B	B <sub>1</sub>	H	H <sub>1</sub>	H <sub>2</sub> <sup>1)</sup>	H <sub>2</sub> <sup>2)</sup>	V <sub>1</sub>	E <sub>1</sub>	E <sub>2</sub>	E <sub>8</sub>	E <sub>9</sub>	K <sub>1</sub>	K <sub>2</sub>	K <sub>3</sub>	K <sub>4</sub>
15	34	17	15	9.5	58.2	39.2	24	19.90	16.30	16.20	5.0	26	26	24.55	6.70	10.00	11.60	3.20	3.20
25	48	24	23	12.5	86.2	57.8	36	29.90	24.45	24.25	7.5	35	35	38.30	11.50	17.45	18.60	5.50	5.50
30	60	30	28	16.0	97.7	67.4	42	35.35	28.55	28.35	7.0	40	40	48.40	14.60	20.00	21.70	6.05	6.05
35	70	35	34	18.0	110.5	77.0	48	40.40	32.15	31.85	8.0	50	50	58.00	17.35	20.50	22.00	6.90	6.90

<sup>1)</sup> Dimension H<sub>2</sub> with rail seal cover strip

<sup>2)</sup> Dimension H<sub>2</sub> without rail seal cover strip

Size	Dimensions (mm)					Mass (kg)	Load capacities (N) C dyn.	Permissible load (N) F <sub>max</sub>	Moments (Nm)			
	N <sub>3</sub>	N <sub>6</sub> <sup>±0.5</sup>	S <sub>2</sub>	S <sub>5</sub>	S <sub>9</sub>				M <sub>t</sub> dyn.	M <sub>t</sub> max.	M <sub>L</sub> dyn.	M <sub>L</sub> max.
15	6.0	10.65	M4	4.4	2.5-3.5 deep	0.10	7 800	3 000	74	29	40	16
25	9.0	15.55	M6	7.0	M3-5 deep	0.25	22 800	8 800	320	125	180	70
30	12.0	17.35	M8	9.0	M3-5 deep	0.45	31 700	12 200	540	210	290	110
35	13.0	20.65	M8	9.0	M3-5 deep	0.65	41 900	16 200	890	345	440	170