

Rexroth Ball Rail Systems

Low Profile Runner Blocks, Steel Version

Runner Block 1663-

Standard Width, short, low profile

Special versions:

Runner blocks in accuracy class N (clearance and preload 0.02 C) are also available:

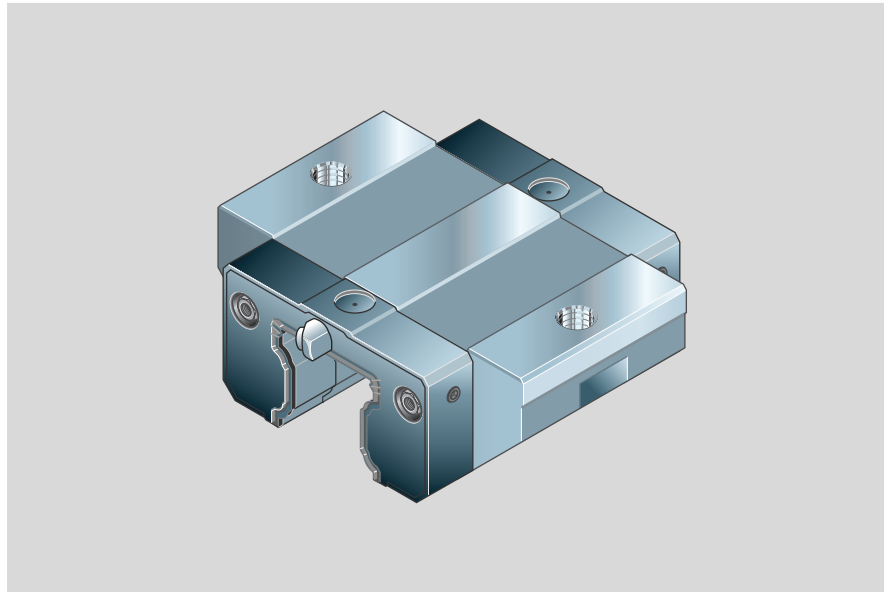
- with low friction seals (part numbers 16...4-11).

Dynamic characteristics

Speed $v_{\max} = 3 \text{ m/s}$

Acceleration $a_{\max} = 250 \text{ m/s}^2$

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



Part numbers

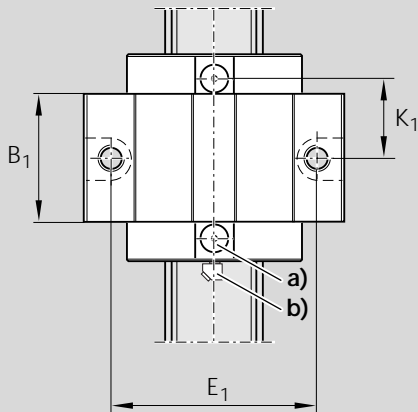
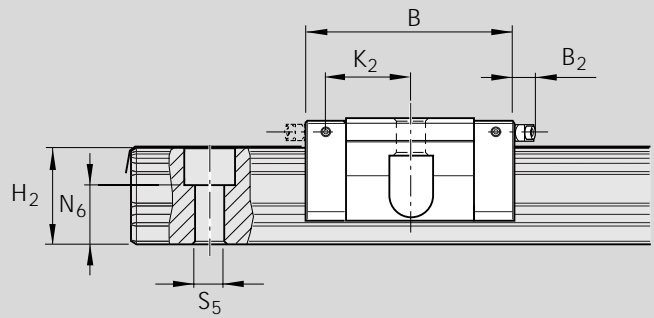
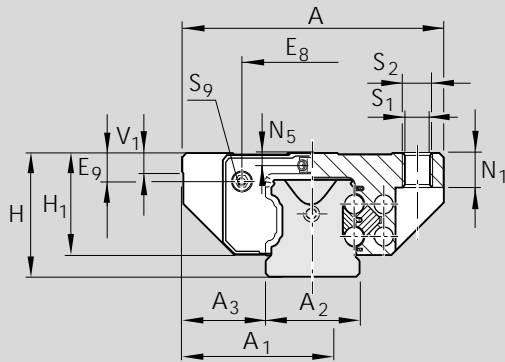
Size	Accuracy class	Part numbers for runner blocks for preload class	
		up to approx. 10 μm clearance	Preload 0.02 C
20	H	1663-893-10	1663-813-10
	N	1663-894-10	1663-814-10
25	H	1663-293-10	1663-213-10
	N	1663-294-10	1663-214-10

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 dia. 5 · 1 mm
Open lube bore as required.
Send for instructions.
- b) Lube nipple
Funnel-type nipple
Type B – Thread size M3
B₂ = 8 mm

Lube port with additional anti-twist
feature.
Connection possible at either end.

Lube nipple size 25:
side connections present

Dimensions (mm)																		
Size	A	A ₁	A ₂	A ₃	B	B ₁	H	H ₁	H ₂ ¹⁾	H ₂ ²⁾	V ₁	E ₁	E ₈	E ₉	K ₁	K ₂	N ₁	N ₅
20	59	29.5	20	19.5	55	31.9	28	23.0	20.7	20.55	6.0	49	30.5	5.6	20.1	–	7.7	3.6
25	73	36.5	23	25.0	62	38.6	33	26.5	24.4	24.25	7.5	60	38.3	8.5	24.5	25.0	9.3	4.1

¹⁾ Dimension H₂ with rail seal cover strip

²⁾ Dimension H₂ without rail seal cover strip.

Size	N ₆ ^{±0.5}	Dimensions (mm)					Mass (kg)	Load capacities (N)				Moments (Nm)			
		S ₁	S ₂	S ₅	S ₉	C		M _t		M _L		M _{L0}			
						dyn.		stat.	dyn.	stat.	dyn.	stat.	dyn.	stat.	
20	13.2	5.4	M6	6.0	M3-5 deep	0.25	9 600	13 600	120	170	40	58			
25	15.2	6.8	M8	7.0	M3-5 deep	0.45	15 900	18 200	235	260	82	94			