

Rexroth Ball Rail Systems

Standard Runner Blocks, Steel Version

Runner Block 1622-

Slimline

Versions:

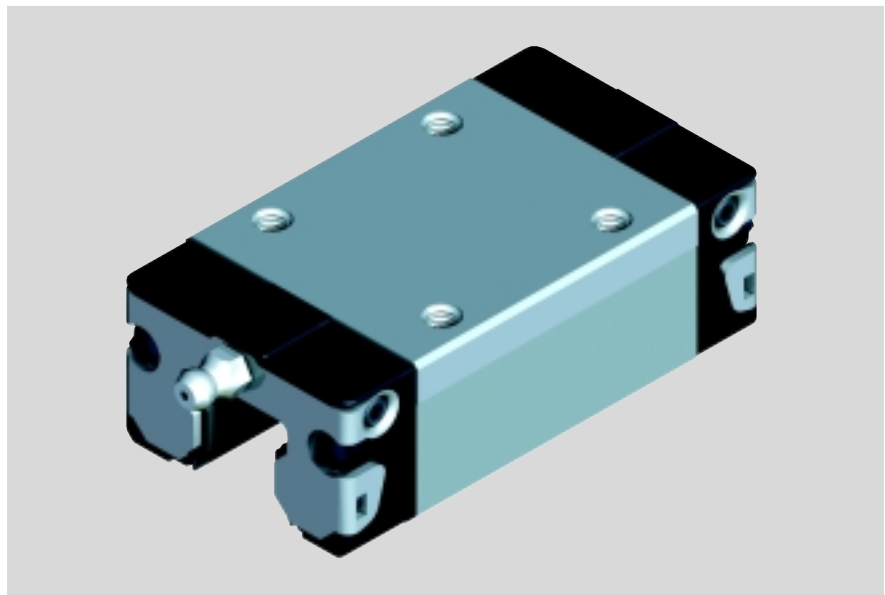
- Runner block without ball chain:
for part numbers, see table
- Runner block with ball chain:
part numbers 1622-...-22

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 blocks for preload class			
		up to approx. 10 μm clearance	Preload 0.02 C	Preload 0.08 C	Preload 0.13 C
15	P		1622-112-20	1622-122-20	1622-132-20
	H	1622-193-20	1622-113-20	1622-123-20	
	N	1622-194-20	1622-114-20	1622-124-20	
20	P		1622-812-20	1622-822-20	1622-832-20
	H	1622-893-20	1622-813-20	1622-823-20	
	N	1622-894-20	1622-814-20	1622-824-20	
25	P		1622-212-20	1622-222-20	1622-232-20
	H	1622-293-20	1622-213-20	1622-223-20	
	N	1622-294-20	1622-214-20	1622-224-20	
30	P		1622-712-20	1622-722-20	1622-732-20
	H	1622-793-20	1622-713-20	1622-723-20	
	N	1622-794-20	1622-714-20	1622-724-20	
35	P		1622-312-20	1622-322-20	1622-332-20
	H	1622-393-20	1622-313-20	1622-323-20	
	N	1622-394-20	1622-314-20	1622-324-20	
45*	P		1622-412-20	1622-422-20	1622-432-20
	H	1622-493-20	1622-413-20	1622-423-20	
	N	1622-494-20	1622-414-20	1622-424-20	

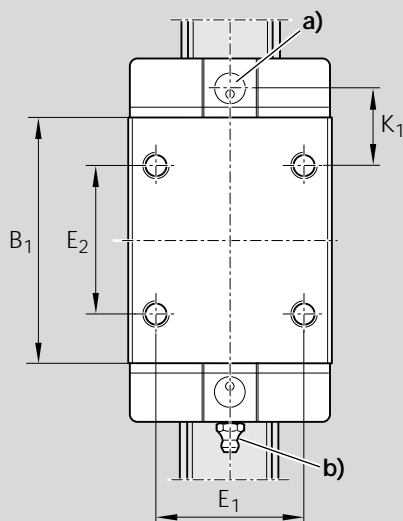
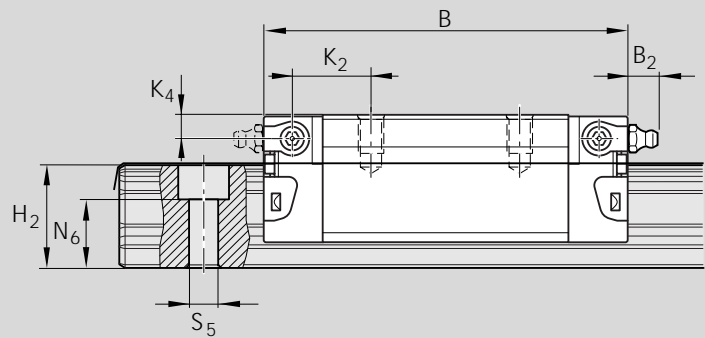
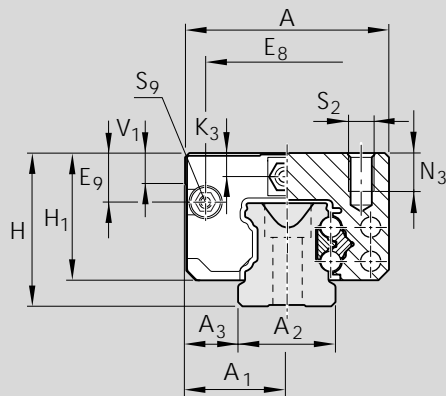
* Under preparation

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 20-45: dia. 5 · 1.0 (mm)
 Open lube bore as required.
 See Accessories:
 Mounting lubrication adapter.
- b) Lube nipple sizes 15 and 20:
 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 45: 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.

Size	Dimensions (mm)																			
	A	A ₁	A ₂	A ₃	B	B ₁	H	H ₁	H ₂ ¹⁾	H ₂ ²⁾	V ₁	E ₁	E ₂	E ₈	E ₉	K ₁	K ₂	K ₃	K ₄	
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	
20	44	22	20	12.0	75.0	49.6	30	25.35	20.75	20.55	6.0	32	36	32.50	7.30	13.80	13.80	3.35	3.35	
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	
45	86	43	45	20.5	137.6	97.0	60	50.30	40.15	39.85	10.0	60	60	69.80	20.90	27.30	29.30	8.20	8.20	

¹⁾ Dimension H₂ with rail seal cover strip

²⁾ Dimension H₂ without rail seal cover strip

Size	N ₃	Dimensions (mm)					Mass (kg)	Load capacities (N) ³⁾		Moments (Nm)			
		N ₆ ^{±0.5}	S ₂	S ₅	S ₉	C dyn.		C ₀ stat.	M _t dyn.	M _{t0} stat.	M _L dyn.	M _{L0} stat.	
15	6.0	10.3	M4	4.4	M2.5-3.5 deep	0.15	7 800	13 500	74	130	40	71	
20	7.5	13.2	M5	6.0	M3-5 deep	0.35	18 800	24 400	240	310	130	165	
25	9.0	15.2	M6	7.0	M3-5 deep	0.50	22 800	30 400	320	430	180	240	
30	12.0	17.0	M8	9.0	M3-5 deep	0.85	31 700	41 300	540	720	290	380	
35	13.0	20.5	M8	9.0	M3-5 deep	1.25	41 900	54 000	890	1160	440	565	
45	18.0	23.5	M10	14.0	M4-7 deep	2.40	68 100	85 700	1830	2310	890	1130	

³⁾ Load capacities for version without ball chain. Load capacities for version without ball chain, see Product Overview with Load Capacities.

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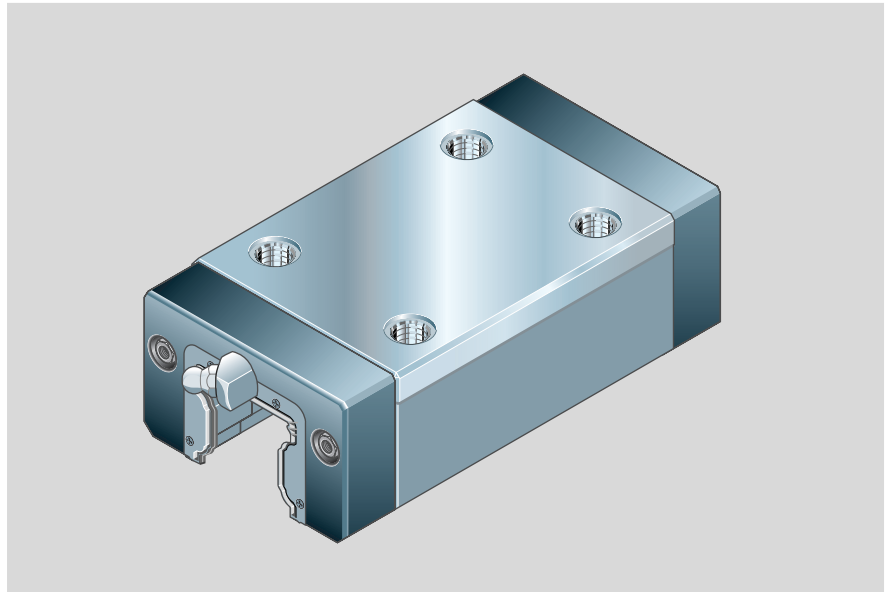
Slimline

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	Preload 0.08 C	Preload 0.13 C
45*	P		1622-412-10	1622-422-10	1622-432-10
	H	1622-493-10	1622-413-10	1622-423-10	
	N	1622-494-10	1622-414-10	1622-424-10	
55	P		1622-512-10	1622-522-10	1622-532-10
	H	1622-593-10	1622-513-10	1622-523-10	
	N	1622-594-10	1622-514-10	1622-524-10	
65	P		1622-612-10	1622-622-10	1622-632-10
	H	1622-693-10	1622-613-10	1622-623-10	
	N	1622-694-10	1622-614-10	1622-624-10	

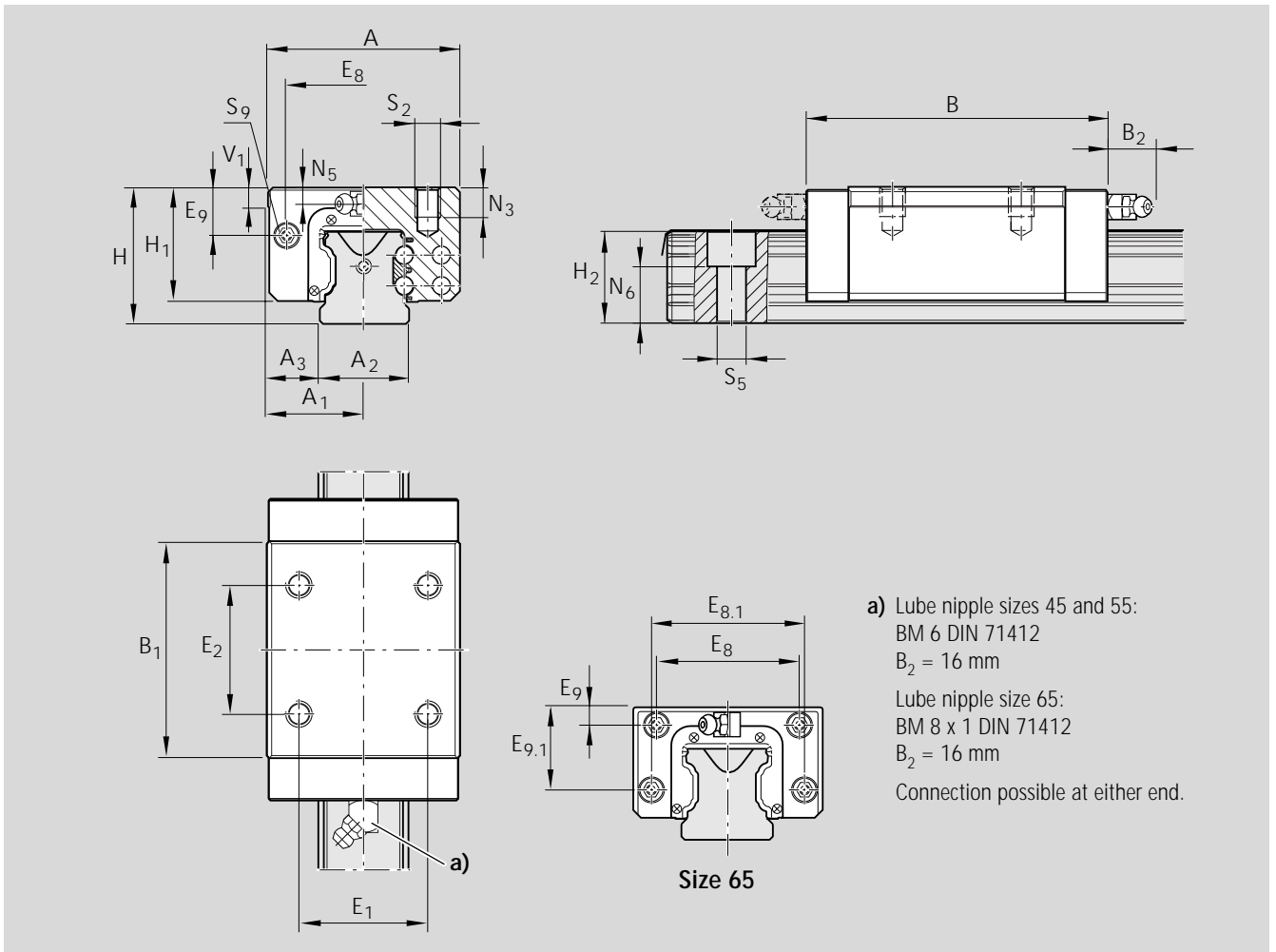
* Phased-out model

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.



Size	Dimensions (mm)																		
	A	A ₁	A ₂	A ₃	B	B ₁	H	H ₁	H ₂ ¹⁾	H ₂ ²⁾	V ₁	E ₁	E ₂	E ₈	E _{8.1}	E ₉	E _{9.1}	N ₃	
45	86	43	45	20.5	133	97.0	60	50.0	40.15	39.85	10.0	60	60	69.8		20.9		18.0	
55	100	50	53	23.5	159	115.5	70	57.0	48.15	47.85	12.0	75	75	80.0		22.3		19.0	
65	126	63	63	31.5	188	139.6	90	76.0	60.15	59.85	15.0	76	70	76.0	100	11.0	53.5	21.0	

¹⁾ Dimension H₂ with rail seal cover strip

²⁾ Dimension H₂ without rail seal cover strip

Size	Dimensions (mm)						Mass (kg)	Load capacities (N)				Moments (Nm)			
	N ₅	N ₆ ^{±0.5}	S ₂	S ₅	S ₉	C dyn.		C ₀ stat.	M _t dyn.	M _{t0} stat.	M _L dyn.	M _{L0} stat.			
45	8.0	23.5	M10	14.0	M4-7 deep	2.30	68 100	85 700	1 830	2 310	890	1 130			
55	9.0	29.0	M12	16.0	M5-8 deep	3.80	98 200	121 400	3 100	3 860	1 540	1 905			
65	16.0	38.5	M16	18.0	M4-7 deep	6.90	123 000	192 700	6 300	7 610	3 160	3 815			