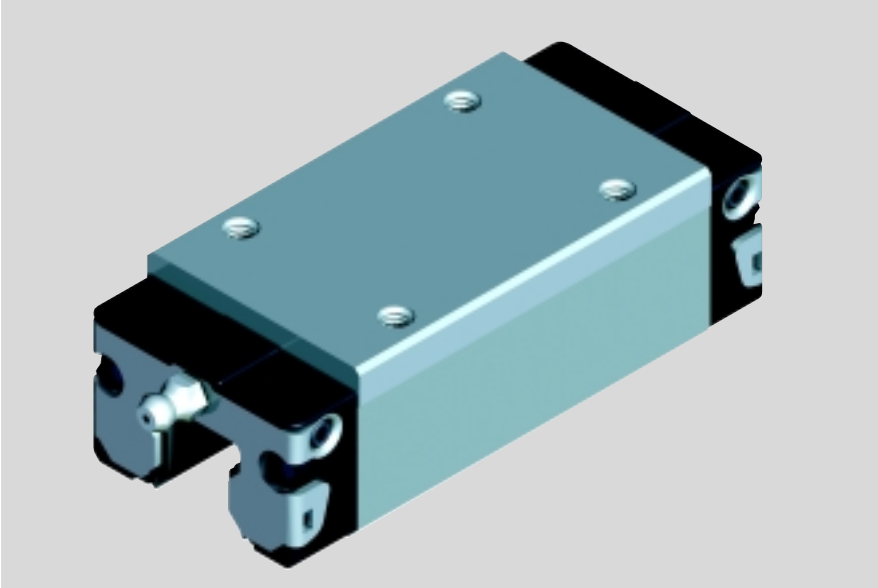
Rexroth Ball Rail Systems
Standard Runner Blocks, Steel Version

Runner Block 1624-

Slimline, high, long

Versions:

– Runner block without ball chain: for part numbers, see table
– Runner block with ball chain: part numbers 1624-...-22



Dynamic characteristics

Speed v_{max} = 5 m/s

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

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

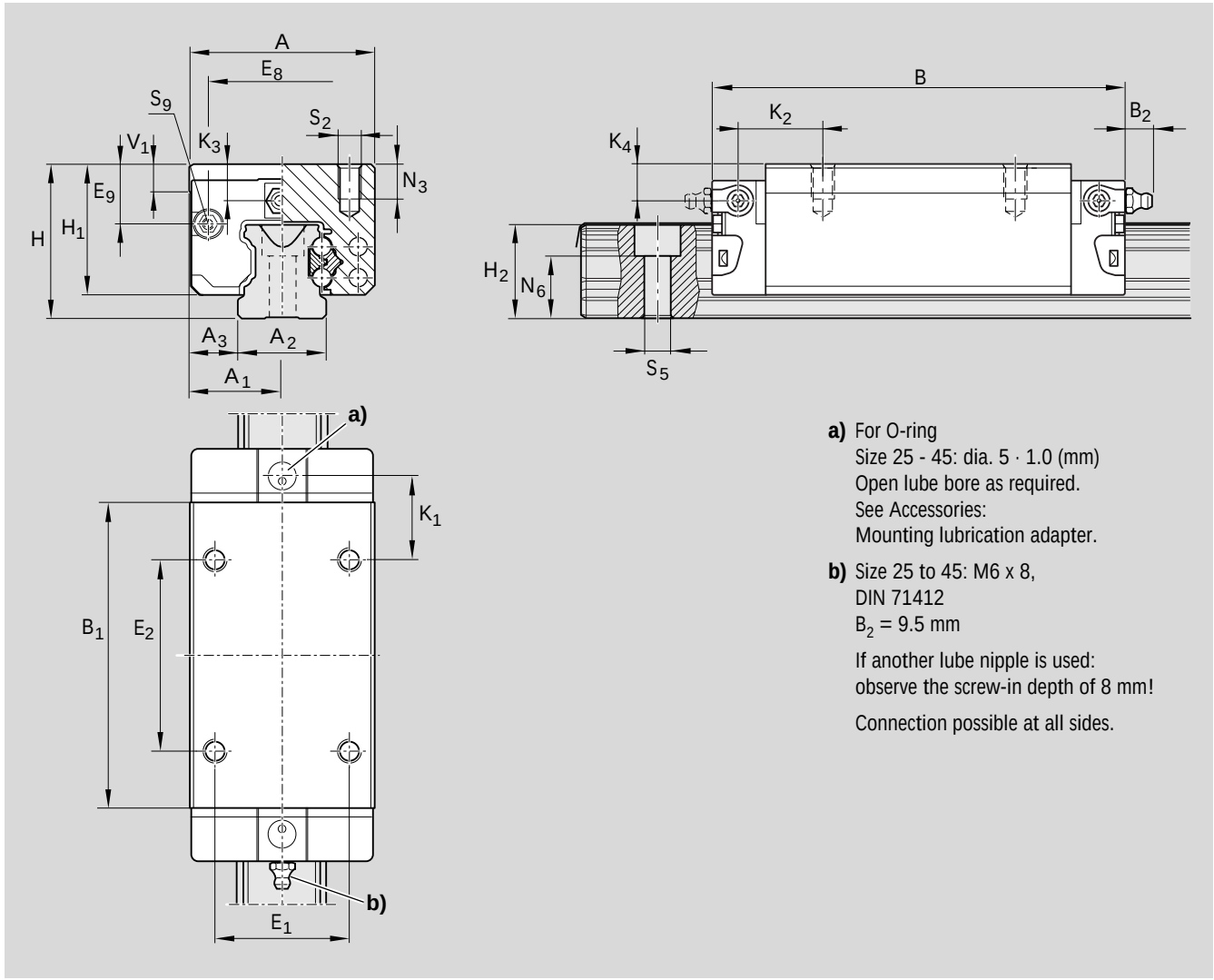
Part numbers

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
25	P		1624-212-20	1624-222-20	1624-232-20
	H	1624-293-20	1624-213-20	1624-223-20	
	N	1624-294-20	1624-214-20	1624-224-20	
30	P		1624-712-20	1624-722-20	1624-732-20
	H	1624-793-20	1624-713-20	1624-723-20	
	N	1624-794-20	1624-714-20	1624-724-20	
35	P		1624-312-20	1624-322-20	1624-332-20
	H	1624-393-20	1624-313-20	1624-323-20	
	N	1624-394-20	1624-314-20	1624-324-20	
45*	P		1624-412-20	1624-422-20	1624-432-20
	H	1624-493-20	1624-413-20	1624-423-20	
	N	1624-494-20	1624-414-20	1624-424-20	

* 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 25 - 45: dia. 5 · 1.0 (mm)
Open lube bore as required.
See Accessories:
Mounting lubrication adapter.

b) 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.

	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_2**	**E_8**	**E_9**	**K_1**	**K_2**	**K_3**	**K_4**
25	48	24	23	12.5	107.9	79.5	40	33.90	24.45	24.25	7.5	35	50	38.30	15.50	20.80	21.95	9.50	9.50
30	60	30	28	16.0	119.7	89.4	45	38.35	28.55	28.35	7.0	40	60	48.40	17.60	21.00	22.70	9.05	9.05
35	70	35	34	18.0	139.0	105.5	55	47.40	32.15	31.85	8.0	50	72	58.00	24.35	23.75	25.25	13.90	13.90
45	86	43	45	20.5	174.1	133.5	70	60.30	40.15	39.85	10.0	60	80	69.80	30.90	35.50	37.50	18.20	18.20

[1)] Dimension H_2 with rail seal cover strip

[2)] Dimension H_2 without rail seal cover strip

			Dimensions (mm)				Mass	Load capacities (N)[3)]		Moments (Nm)			
								C	C_0	M_t	M_{t0}	M_L	M_{L0}
Size	**N_3**		**$N_6^{\pm 0.5}$**	**S_2**	**S_5**	**S_9**	**(kg)**	**dyn.**	**stat.**	**dyn.**	**stat.**	**dyn.**	**stat.**
25	9.0		15.2	M6	7.0	M3-5 deep	0.80	30 400	45 500	430	650	345	510
30	12.0		17.0	M8	9.0	M3-5 deep	1.20	40 000	57 800	690	1 000	495	715
35	13.0		20.5	M8	9.0	M3-5 deep	2.10	55 600	81 000	1 200	1 740	830	1 215
45	18.0		23.5	M10	14.0	M4-7 deep	4.10	90 400	128 500	2 440	3 470	1 700	2 425

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

Rexroth Ball Rail Systems
Standard Runner Blocks, Steel Version

Runner Block 1624-

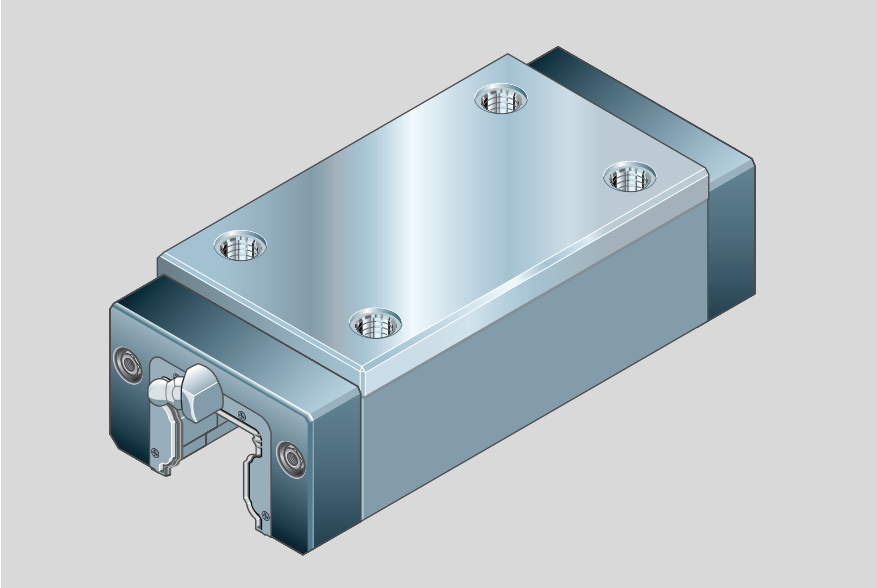
Slimline, high, long

Dynamic characteristics

Speed v_{max} = 3 m/s

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

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



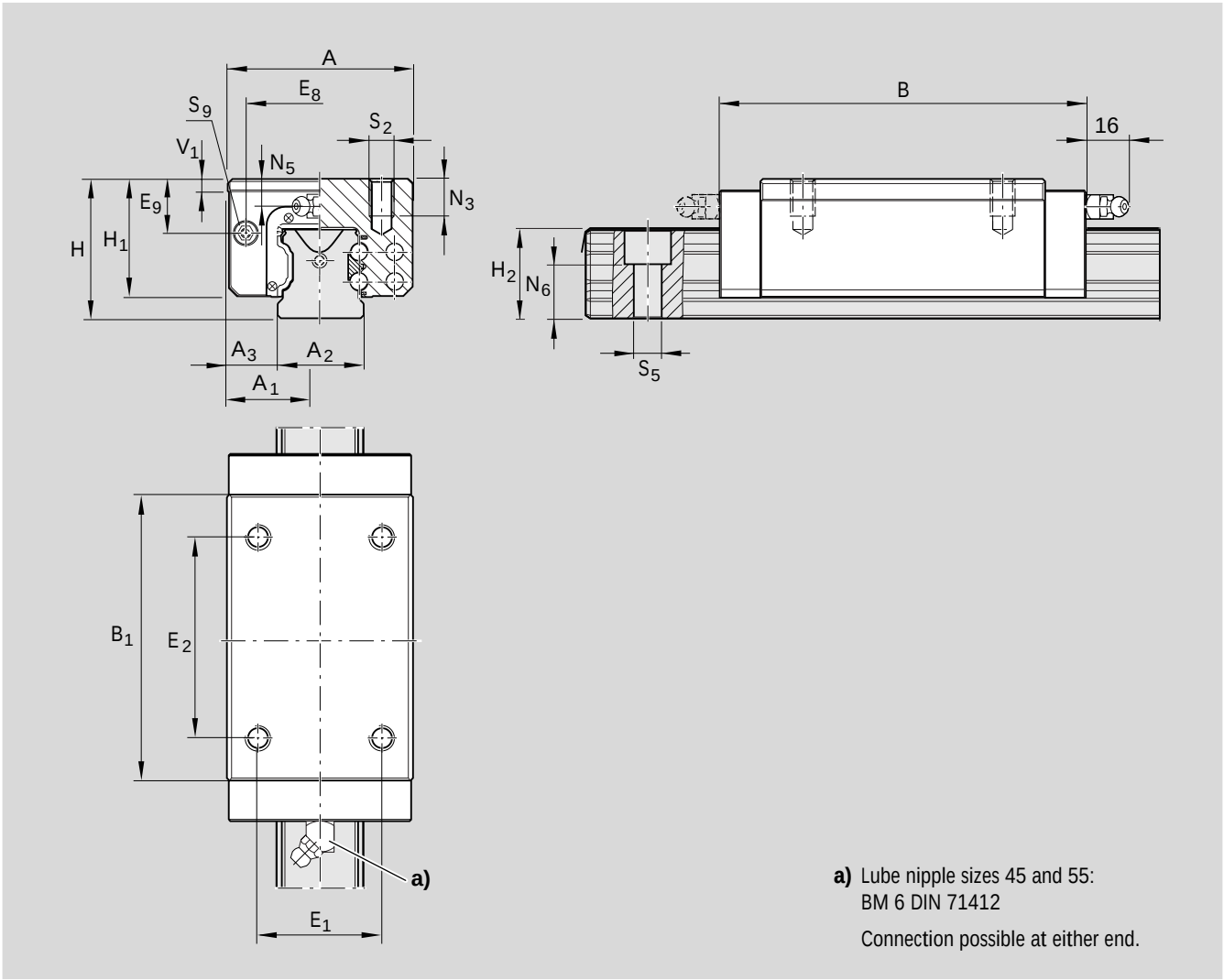
Part numbers

Size	Accuracy class	Part numbers for runner block for preload class			
		up to approx. 10 µm clearance	Preload 0.02 C	Preload 0.08 C	Preload 0.13 C
45*	P		1624-412-10	1624-422-10	1624-432-10
	H	1624-493-10	1624-413-10	1624-423-10	
	N	1624-494-10	1624-414-10	1624-424-10	
55	P		1624-512-10	1624-522-10	1624-532-10
	H	1624-593-10	1624-513-10	1624-523-10	
	N	1624-594-10	1624-514-10	1624-524-10	

* 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**, $\mathbf{M_t}$ and $\mathbf{M_L}$ by 1.26 in accordance with Rexroth table.



a) Lube nipple sizes 45 and 55:
BM 6 DIN 71412

Connection possible at either end.

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_2**	**E_8**	**E_9**			**N_3**
45	86	43	45	20.5	170	133.5	70	60.0	40.15	39.85	10.0	60	80	69.8	20.9			18
55	100	50	53	23.5	200	155.5	80	67.0	48.15	47.85	12.0	75	95	80.0	32.3			19

[1)] Dimension H_2 with rail seal cover strip

[2)] Dimension H_2 without rail seal cover strip

								Load capacities (N)		Moments (Nm)			
	Dimensions (mm)						Mass	C	C_0	M_t	M_{t0}	M_L	M_{L0}
Size	**N_5**	**$N_6^{\pm 0.5}$**		**S_2**	**S_5**	**S_9**	**(kg)**	**dyn.**	**stat.**	**dyn.**	**stat.**	**dyn.**	**stat.**
45	18.0	23.5		M10	14.0	M4-7 deep	4.00	90 400	128 500	2 440	3 470	1 700	2 425
55	19.0	29.0		M12	16.0	M5-8 deep	6.00	124 200	170 000	3 950	5 400	2 630	3 600