Rexroth Ball Rail Systems
Wide Runner Block, Steel Version

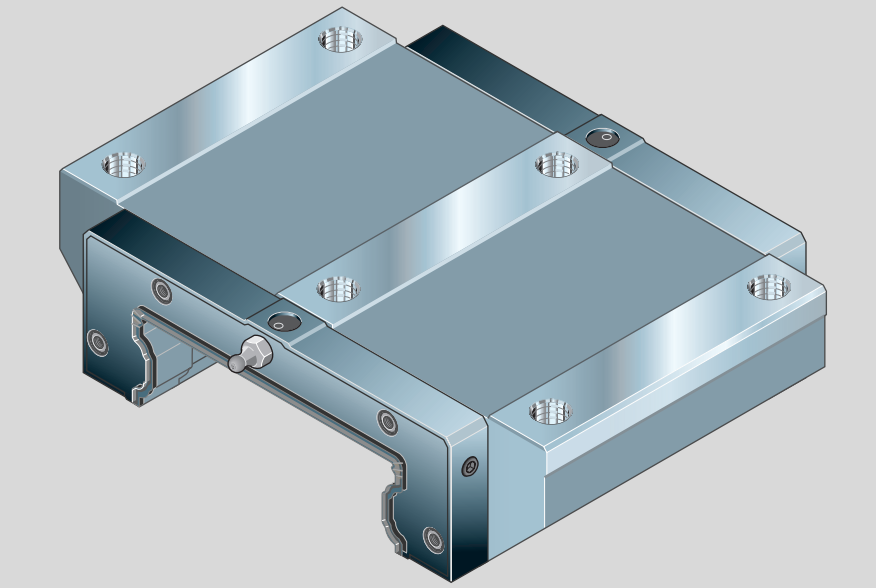
Runner Blocks
Steel Version 1671-

Wide

Dynamic characteristics

Speed v_{max} = 3 m/s

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

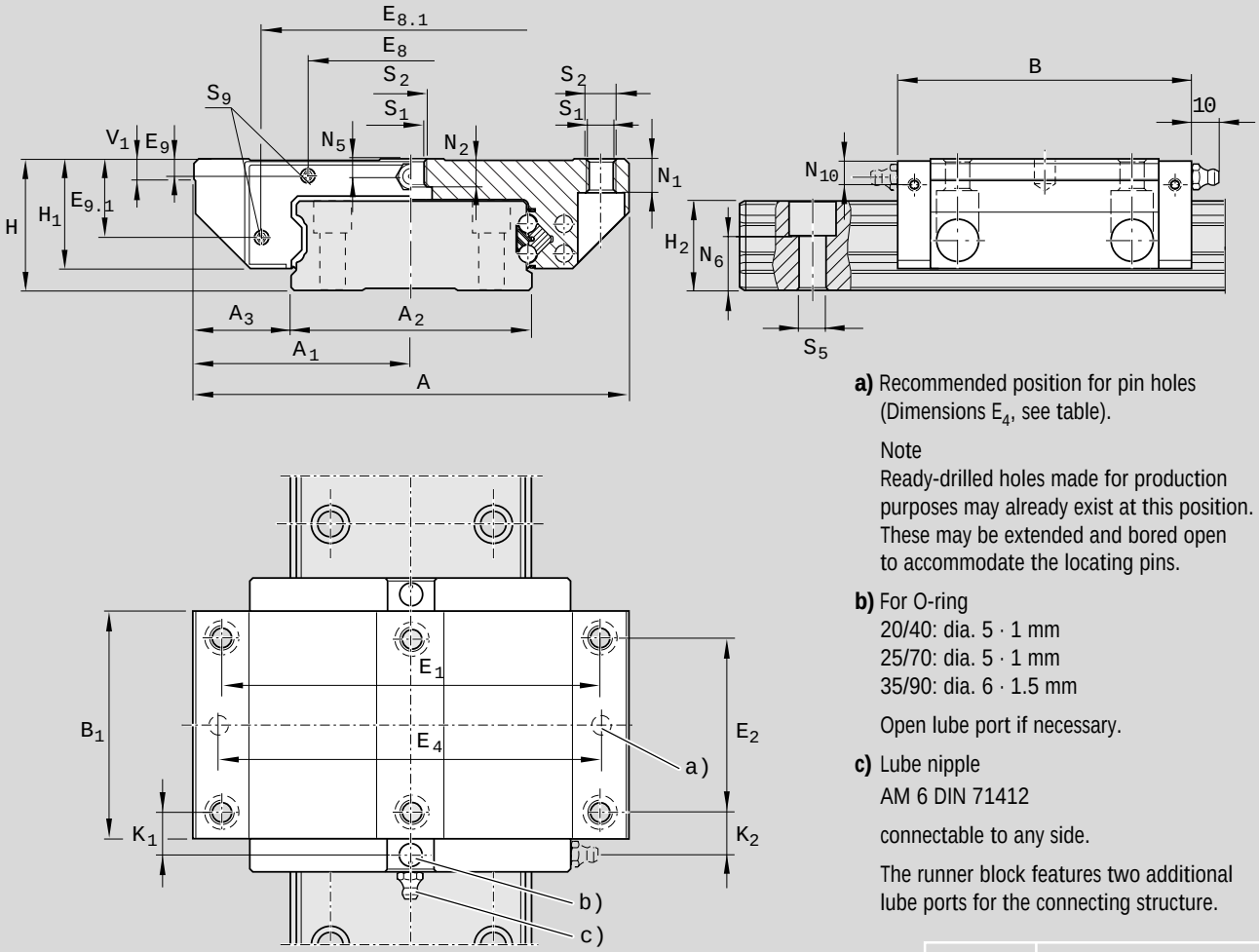


Part numbers

Size	Accuracy class	Part numbers for runner blocks for preload class	
		up to approx. 10 µm clearance	Preload 0.02 C
20/40	P		1671-812-10
	H	1671-893-10	1671-813-10
	N	1671-894-10	1671-814-10
25/70	P		1671-212-10
	H	1671-293-10	1671-213-10
	N	1671-294-10	1671-214-10
35/90	P		1671-312-10
	H	1671-393-10	1671-313-10
	N	1671-394-10	1671-314-10

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



a) Recommended position for pin holes (Dimensions E_4, see table).

Note
Ready-drilled holes made for production purposes may already exist at this position. These may be extended and bored open to accommodate the locating pins.

b) For O-ring
20/40: dia. 5 · 1 mm
25/70: dia. 5 · 1 mm
35/90: dia. 6 · 1.5 mm

Open lube port if necessary.

c) Lube nipple
AM 6 DIN 71412

connectable to any side.

The runner block features two additional lube ports for the connecting structure.

	Dimensions (mm)		
Size	**E_4**	**dia.**	**Depth**
20/40	70	4.7	7
25/70	107	5.7	8
35/90	144	7.7	8

	Dimensions (mm)																		
Size	**A**	**A_1**	**A_2**	**A_3**	**B**	**B_1**	**H**	**H_1**	**H_2**	**V_1**	**E_1**	**E_2**	**E_8**	**$E_{8.1}$**	**E_9**	**$E_{9.1}$**	**N_1**	**N_2**	**N_5**
20/40	80	40	42	19.0	73	52.0	27	23.5	19.05	6.0	70	40	36.0	57.5	3.55	15.5	7.7	3.7	4.0
25/70	120	60	69	25.5	105	79.5	35	30.0	23.40	7.5	107	60	70.2	90.7	5.6	20.3	9.0	7.0	5.5
35/90	162	81	90	36.0	142	113.6	50	42.5	32.00	8.0	144	80	79.0	116.0	6.8	29.9	14.0	12.0	9.0

									Load capacities (N)		Moments (Nm)			
	Dimensions (mm)							Mass	C	C_0	M_t	M_{t0}	M_L	M_{L0}
Size	**$N_6^{\pm 0.5}$**	**N_{10}**	**S1**	**S_2**	**K_1**	**K_2**	**S_9**	**(kg)**	**dyn.**	**stat.**	**dyn.**	**stat.**	**dyn.**	**stat.**
20/40	13.2	5.5	5.4	M6	10.6	11.0	M2.5-3.5 deep	0.45	15 600	24 100	370	640	116	200
25/70	14.4	8.0	6.4	M8	15.4	16.3	M3-5 deep	1.70	30 400	45 500	1 130	1 690	345	510
35/90	20.5	9.0	8.4	M10	22.8	24.8	M3-5 deep	3.70	58 200	86 300	2 880	4 270	920	1 370