

Standard Ball Runner Blocks made of steel

SLS – Slimline, long, standard height

R1623 ... 2.

Dynamic characteristics

Travel speed: $v_{\max} = 5 \text{ m/s}$





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

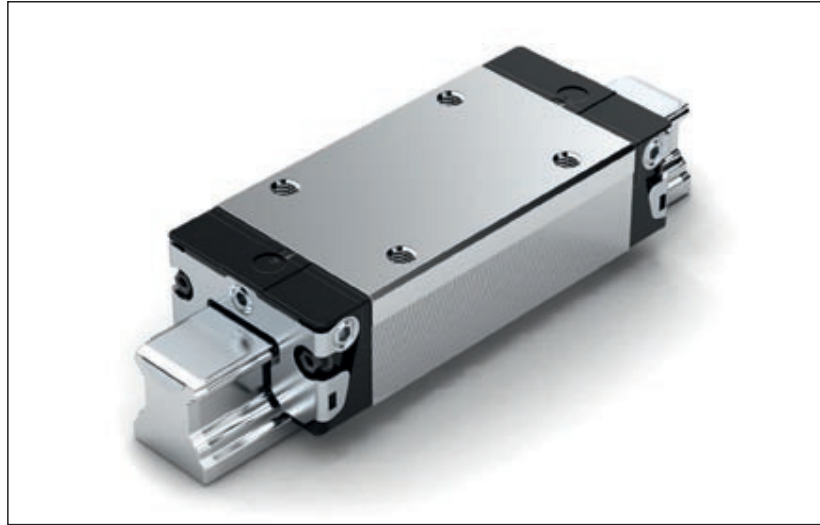
(If $F_{\text{comb}} > 2.8 \cdot F_{\text{pr}}$: $a_{\max} = 50 \text{ m/s}^2$)

Note on lubrication

- Pre-lubricated

Further Ball Runner Blocks SLS

- Heavy Duty Ball Runner Blocks made of steel, size 55 and 65  66
- High Precision Ball Runner Blocks made of steel  72
- Corrosion-resistant Ball Runner Blocks
Resist NR  100
Resist CR  108



Note

Can be used on all Ball Guide Rails SNS.

Options and part numbers

Size	Ball runner block with size	Preload class			Accuracy class			Seal for ball runner block					
		C0	C1	C2	N	H	P	without ball chain			with ball chain		
								SS	LS ¹⁾	DS	SS	LS ¹⁾	DS
15	R1623 1	9	1		4	3	–	20	21	–	22	23	–
				2	4	3	2	20	21	–	22	23	–
20	R1623 8	9	1		4	3	–	20	21	–	22	23	–
				2	4	3	2	20	21	2Z	22	23	2Y
25	R1623 2	9	1		4	3	–	20	21	–	22	23	–
				2	4	3	2	20	21	2Z	22	23	2Y
30	R1623 7	9	1		4	3	–	20	21	–	22	23	–
				2	4	3	2	20	21	2Z	22	23	2Y
35	R1623 3	9	1		4	3	–	20	21	–	22	23	–
				2	4	3	2	20	21	2Z	22	23	2Y
45	R1623 4	9	1		4	3	–	20	–	–	22	–	–
				2	4	3	2	20	–	2Z	22	–	2Y
e.g.	R1623 7		1			3		20					

1) Only with accuracy classes N and H

Ordering example

Options:

- Ball Runner Block SLS
- Size 30
- Preload class C1
- Accuracy class H
- With standard seal, without ball chain

Part number: R1623 713 20

Preload classes

C0 = without preload

C1 = preload 2% C

C2 = preload 8% C

Seals

SS = standard seal

LS = low-friction seal

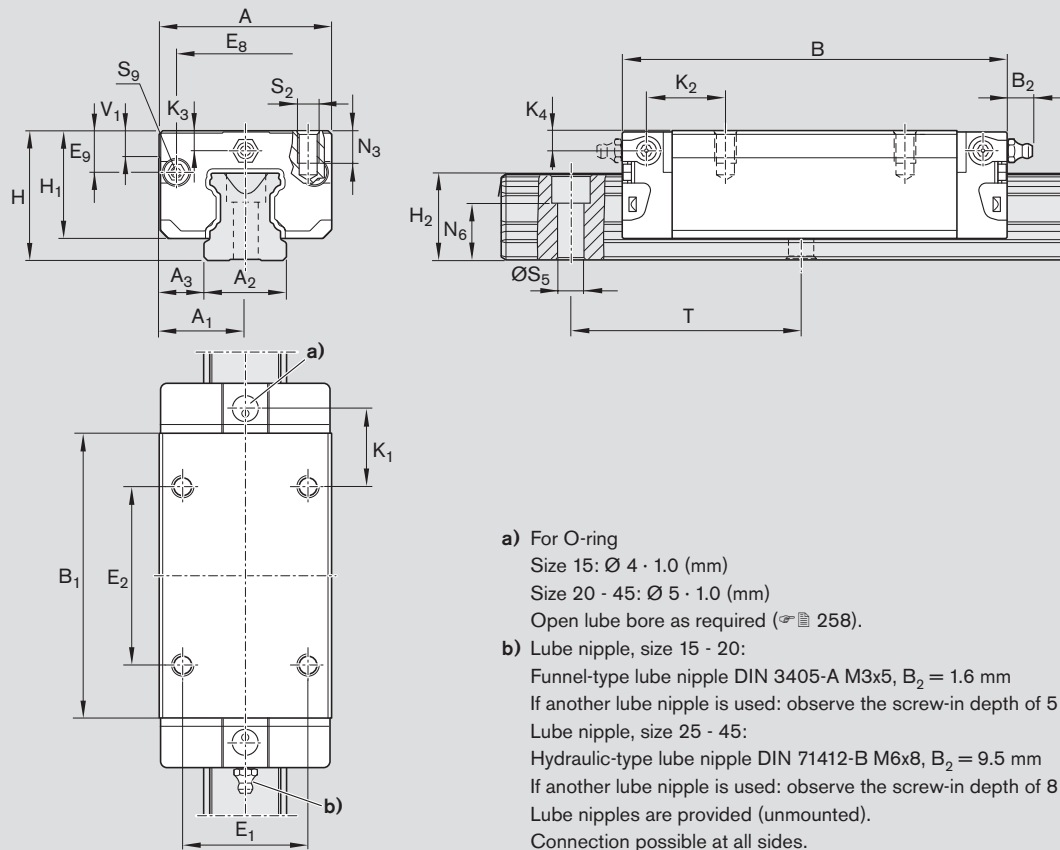
DS = double-lipped seal

Key to table

Gray numbers

= version/combination not preferred (longer delivery times in some cases)

Ball Runner Blocks SLS



Size	Dimensions (mm)																		
	A	A ₁	A ₂	A ₃	B	B ₁	E ₁	E ₂	E ₈	E ₉	H	H ₁	H ₂ ¹⁾	H ₂ ²⁾	K ₁	K ₂	K ₃	K ₄	
15	34	17	15	9.5	72.6	53.6	26	26	24.55	6.70	24	19.90	16.30	16.20	17.20	18.80	3.20	3.20	
20	44	22	20	12.0	91.0	65.6	32	50	32.50	7.30	30	25.35	20.75	20.55	14.80	14.80	3.35	3.35	
25	48	24	23	12.5	107.9	79.5	35	50	38.30	11.50	36	29.90	24.45	24.25	20.80	21.95	5.50	5.50	
30	60	30	28	16.0	119.7	89.4	40	60	48.40	14.60	42	35.35	28.55	28.35	21.00	22.70	6.05	6.05	
35	70	35	34	18.0	139.0	105.5	50	72	58.00	17.35	48	40.40	32.15	31.85	23.75	25.25	6.90	6.90	
45	86	43	45	20.5	174.1	133.5	60	80	69.80	20.90	60	50.30	40.15	39.85	35.50	37.50	8.20	8.20	

Size	Dimensions (mm)									Weight (kg)	Load capacities ³⁾ (N)		Load moments ³⁾ (Nm)			
	N ₃	N ₆ ^{±0.5}	S ₂	S ₅	S ₉	T	V ₁	C	C ₀		M _t	M _{t0}	M _L	M _{L0}		
15	6.0	10.3	M4	4.4	M2.5x3.5	60	5.0	0.20	10 000	20 200	96	190	75	150		
20	7.5	13.2	M5	6.0	M3x5	60	6.0	0.45	24 400	35 200	310	450	225	330		
25	9.0	15.2	M6	7.0	M3x5	60	7.5	0.65	30 400	45 500	430	650	345	510		
30	12.0	17.0	M8	9.0	M3x5	80	7.0	1.10	40 000	57 800	690	1 000	495	715		
35	13.0	20.5	M8	9.0	M3x5	80	8.0	1.70	55 600	81 000	1 200	1 740	830	1 215		
45	18.0	23.5	M10	14.0	M4x7	105	10.0	3.20	90 400	128 500	2 440	3 470	1 700	2 425		

1) Dimension H₂ with cover strip

2) Dimension H₂ without cover strip

3) Load capacities and moments for Ball Runner Block **without** ball chain. Load capacities and moments for Ball Runner Block **with** ball chain ☞ 8.

Determination of the dynamic load capacities and moments is based on a travel life of 100,000 m per ISO 14728-1. Often only 50,000 m are actually stipulated. For comparison: Multiply values **C**, **M_t** and **M_L** from the table by 1.26.