

Standard Ball Runner Blocks made of steel

SNS – Slimline, normal, standard height

R1622 ... 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 SNS

- Heavy Duty Ball Runner Blocks made of steel, size 55 and 65  64
- High Precision Ball Runner Blocks made of steel  72
- High-Speed Ball Runner Blocks made of steel  84
- Ball Runner Blocks made of aluminum  94
- Corrosion-resistant Ball Runner Blocks Resist NR  100 Resist NR II  104 Resist CR  108

Note

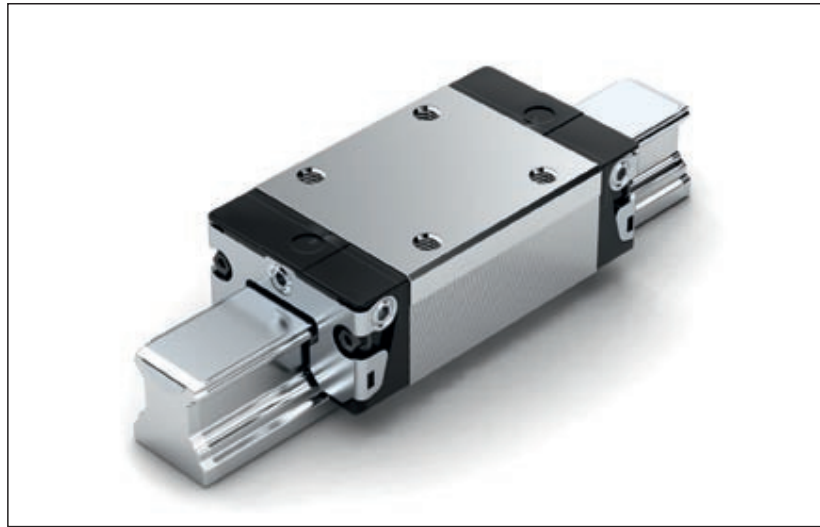
Can be used on all Ball Guide Rails SNS.

Ordering example

Options:

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

Part number: R1622 713 20



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	R1622 1	9	1		4	3	–	20	21	–	22	23	–
				2	4	3	2	20	21	–	22	23	–
				–	–	3	2	20	–	–	22	–	–
20	R1622 8	9	1		4	3	–	20	21	–	22	23	–
				2	4	3	2	20	21	2Z	22	23	2Y
				–	–	3	2	20	–	2Z	22	–	2Y
25	R1622 2	9	1		4	3	–	20	21	–	22	23	–
				2	4	3	2	20	21	2Z	22	23	2Y
				–	–	3	2	20	–	2Z	22	–	2Y
30	R1622 7	9	1		4	3	–	20	21	–	22	23	–
				2	4	3	2	20	21	2Z	22	23	2Y
				–	–	3	2	20	–	2Z	22	–	2Y
35	R1622 3	9	1		4	3	–	20	21	–	22	23	–
				2	4	3	2	20	21	2Z	22	23	2Y
				–	–	3	2	20	–	2Z	22	–	2Y
45	R1622 4	9	1		4	3	–	20	–	–	22	–	–
				2	4	3	2	20	–	2Z	22	–	2Y
				–	–	3	2	20	–	2Z	22	–	2Y
e.g.	R1622 7		1			3		20					

1) Only with accuracy classes N and H

Preload classes

C0 = without preload

C1 = preload 2% C

C2 = preload 8% C

Seals

SS = standard seal

LS = low-friction seal

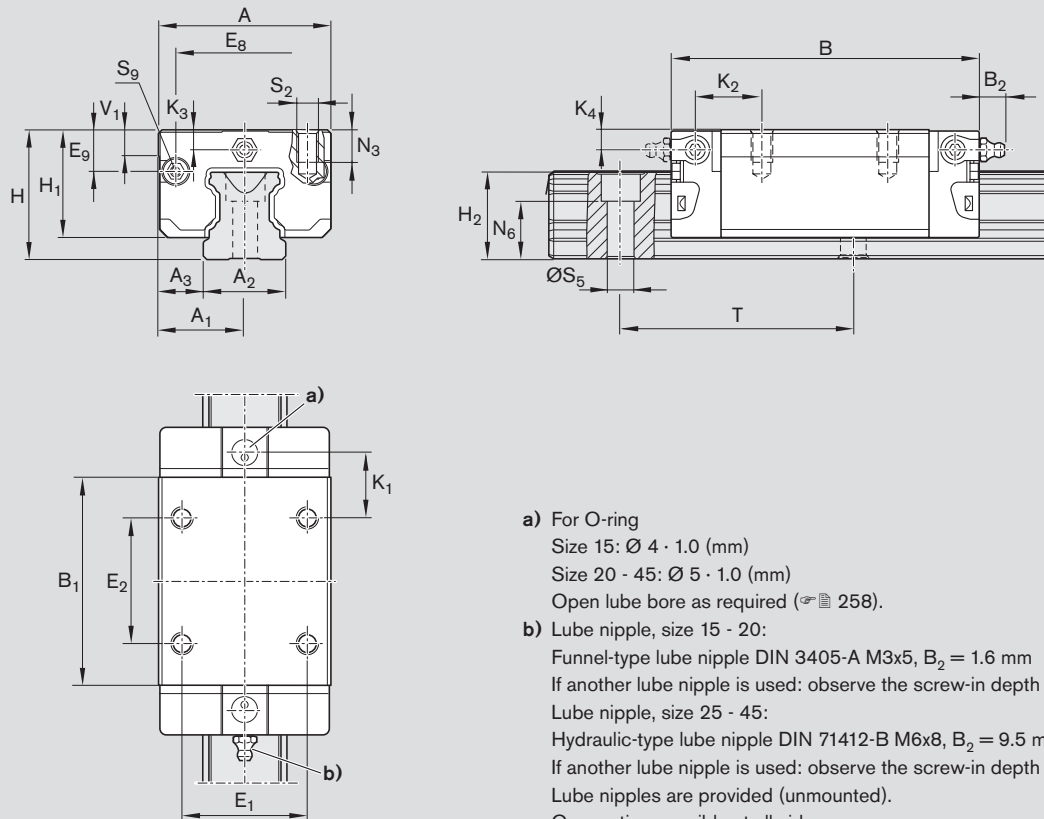
DS = double-lipped seal

Key to table

Gray numbers

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

Ball Runner Blocks SNS



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	58.2	39.2	26	26	24.55	6.70	24	19.90	16.30	16.20	10.00	11.60	3.20	3.20	
20	44	22	20	12.0	75.0	49.6	32	36	32.50	7.30	30	25.35	20.75	20.55	13.80	13.80	3.35	3.35	
25	48	24	23	12.5	86.2	57.8	35	35	38.30	11.50	36	29.90	24.45	24.25	17.45	18.60	5.50	5.50	
30	60	30	28	16.0	97.7	67.4	40	40	48.40	14.60	42	35.35	28.55	28.35	20.00	21.70	6.05	6.05	
35	70	35	34	18.0	110.5	77.0	50	50	58.00	17.35	48	40.40	32.15	31.85	20.50	22.00	6.90	6.90	
45	86	43	45	20.5	137.6	97.0	60	60	69.80	20.90	60	50.30	40.15	39.85	27.30	29.30	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	0.15	7 800	13 500	74	130	40	71		
20	7.5	13.2	M5	6.0	M3x5	60	6.0	0.35	18 800	24 400	240	310	130	165		
25	9.0	15.2	M6	7.0	M3x5	60	7.5	0.50	22 800	30 400	320	430	180	240		
30	12.0	17.0	M8	9.0	M3x5	80	7.0	0.85	31 700	41 300	540	720	290	380		
35	13.0	20.5	M8	9.0	M3x5	80	8.0	1.25	41 900	54 000	890	1 160	440	565		
45	18.0	23.5	M10	14.0	M4x7	105	10.0	2.40	68 100	85 700	1 830	2 310	890	1 130		

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.