

## SKS – Slimline, short, standard height R1666 ... 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

**Note**

Can be used on all SNS/SNO ball guide rails.

**Options and material numbers**

Size	Ball runner blocks with size	Preload class		Accuracy class		Seals on ball runner blocks					
		C0	C1	N	H	without ball chain			with ball chain		
						SS	LS	DS	SS	LS	DS
15	R1666 1	9		4	3	20	21	–	22	23	–
			1	4	3	20	21	2Z	22	23	2Y
20	R1666 8	9		4	3	20	21	–	22	23	–
			1	4	3	20	21	2Z	22	23	2Y
25	R1666 2	9		4	3	20	21	–	22	23	–
			1	4	3	20	21	2Z	22	23	2Y
30	R1666 7	9		4	3	20	21	–	22	23	–
			1	4	3	20	21	2Z	22	23	2Y
35	R1666 3	9		4	3	20	21	–	22	23	–
			1	4	3	20	21	2Z	22	23	2Y
<b>E.g.:</b>	R1666 7		1		3	20					

**Order example**

Options:

- ▶ Ball runner block SKS
- ▶ Size 30
- ▶ Preload class C1
- ▶ Accuracy class H
- ▶ With standard seal, without ball chain

Material number:

R1666 713 20

**Preload classes**

C0 = Without preload (clearance)

C1 = Moderate preload

**Seals**

SS = Standard seal

LS = Low-friction seal

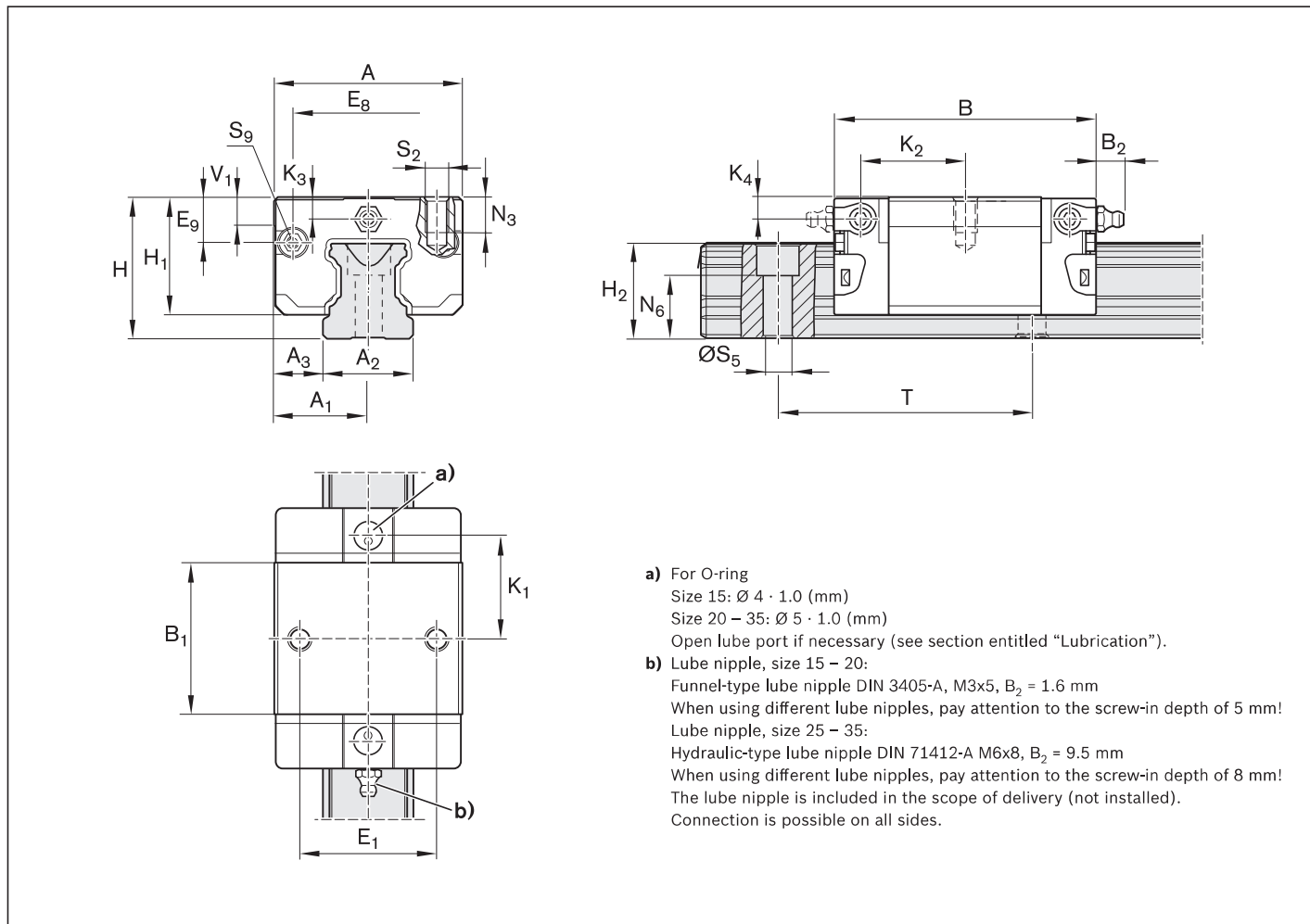
DS = Double-lip seal

**Key**

gray numbers

= No preferred variant / combination

(partially longer delivery times)



Size	Dimensions (mm)																
	A	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	B <sup>+0.5</sup>	B <sub>1</sub>	E <sub>1</sub>	E <sub>8</sub>	E <sub>9</sub>	H	H <sub>1</sub>	H <sub>2</sub> <sup>1)</sup>	H <sub>2</sub> <sup>2)</sup>	K <sub>1</sub>	K <sub>2</sub>	K <sub>3</sub>	K <sub>4</sub>
15	34	17	15	9.5	44.7	25.7	26	24.55	6.70	24	19.90	16.30	16.20	16.25	17.85	3.20	3.20
20	44	22	20	12.0	57.3	31.9	32	32.50	7.30	30	25.35	20.75	20.55	22.95	22.95	3.35	3.35
25	48	24	23	12.5	67.0	38.6	35	38.30	11.50	36	29.90	24.45	24.25	25.35	26.50	5.50	5.50
30	60	30	28	16.0	75.3	45.0	40	48.40	14.60	42	35.35	28.55	28.35	28.80	30.50	6.05	6.05
35	70	35	34	18.0	84.9	51.4	50	58.00	17.35	48	40.40	32.15	31.85	32.70	34.20	6.90	6.90

Size	Dimensions (mm)								Mass (kg)	Load capacities <sup>3)</sup> (N)		Load moments <sup>3)</sup> (Nm)			
	N <sub>3</sub>	N <sub>6</sub> <sup>±0.5</sup>	S <sub>2</sub>	S <sub>5</sub>	S <sub>9</sub>	T	V <sub>1</sub>	m		C	C <sub>0</sub>	M <sub>t</sub>	M <sub>t0</sub>	M <sub>L</sub>	M <sub>L0</sub>
15	6.0	10.3	M4	4.5	M2.5x3.5	60	5.0	0.10	6720	7340	65	71	29	32	
20	7.5	13.2	M5	6.0	M3x5	60	6.0	0.25	15400	16500	200	210	83	89	
25	9.0	15.2	M6	7.0	M3x5	60	7.5	0.35	19800	21200	280	300	130	140	
30	12.0	17.0	M8	9.0	M3x5	80	7.0	0.60	25600	28900	440	500	200	230	
35	13.0	20.5	M8	9.0	M3x5	80	8.0	0.90	36600	49300	790	1060	340	460	

1) Dimension H<sub>2</sub> with cover strip

2) Dimension H<sub>2</sub> without cover strip

3) Load ratings and load moments for ball runner block **without** ball chain. Load ratings and load moments for ball runner block **with** ball chain 12

Determination of the dynamic load capacities and load moments is based on a stroke travel of 100,000 m according to DIN ISO 14728-1. Often only 50,000 m are actually stipulated. For comparison: Multiply the values **C**, **M<sub>t</sub>** and **M<sub>L</sub>** by 1.26 according to the table.