6 Recirculating unit

6.1 Type SK and SKD

Type SK

Type SKD

The type SK recirculating unit is equipped with balls and is suitable for small to medium loads.

This recirculating unit is used combined with SCHNEEBERGER linear guideways of type R and/or RD. In this way space-saving designs can be created that can be equally loaded in all directions.

Sizes 6 and 9 (size 12 on request) can additionally be equipped with damping elements (type designation SKD). These provide improved smoothness with slightly reduced load carrying capacity.

Benchmark data

Supporting structure
- Hardened and ground with high precision

Materials
- Supporting structure made of through hardened tool steel, hardness 58 - 62 HRC
- Rolling element made of through hardened roller bearing steel, hardness 58 - 64 HRC
- Transmission part in sizes 1, 2, 9 and 12 made of anodized aluminium
- Transmission part in sizes 3 and 6t depending on the length made of plastic or aluminium
- Non-corrosive version on request
- Damping elements for SKD made of plastic
- Wipers made of plastic

Wipers
- From size 3 interchangeable track wipers are made from plastic as standard fitted

Speed
- 2 m/s

Acceleration
- 50 m/s^2

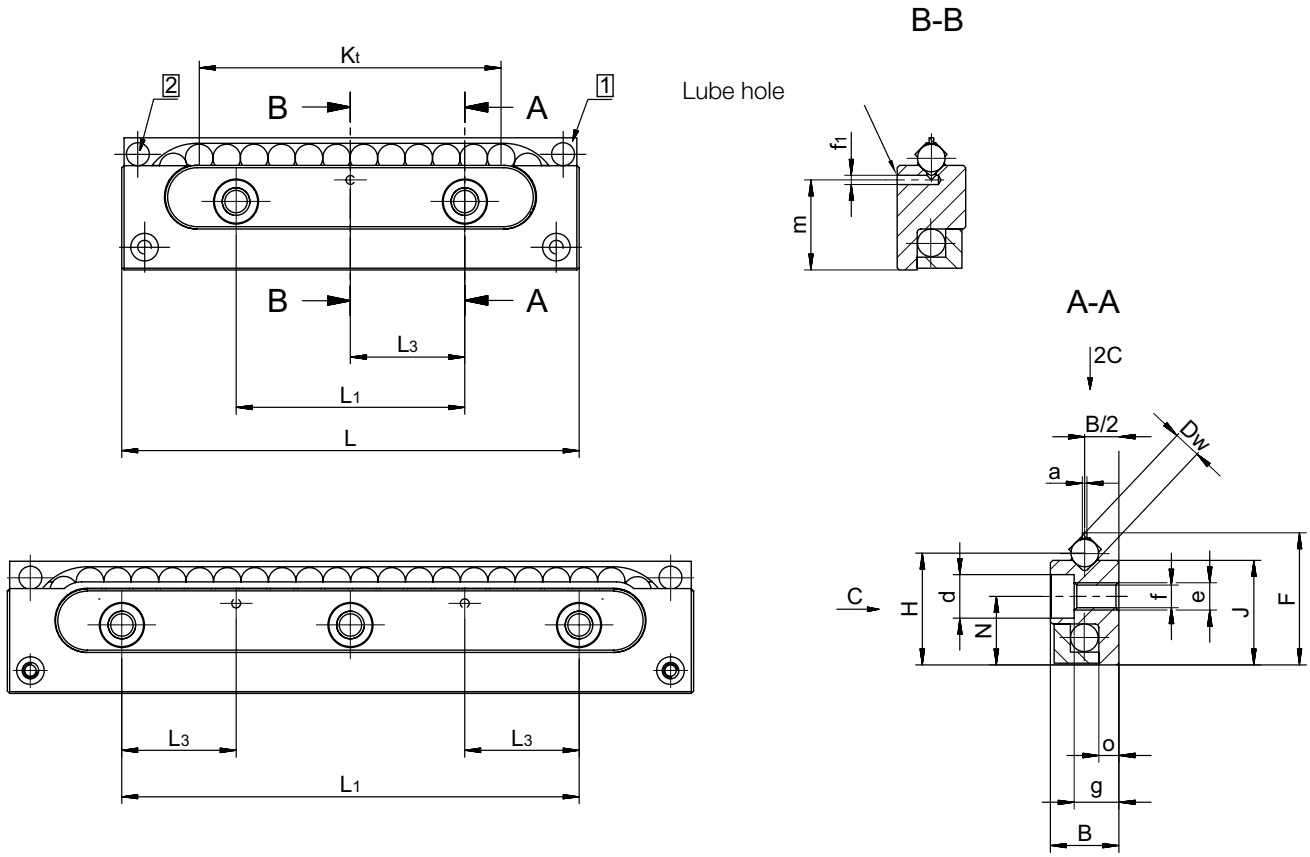
Operating temperatures
- -40° C to +80° C

Same installation with the following recirculating units
- SKC and SR

Can be combined with the following products
- Linear guideway type R and RD

6 Recirculating unit

Dimensions and load capacities type SK and SKD



1 Retaining web may not be used as a stop

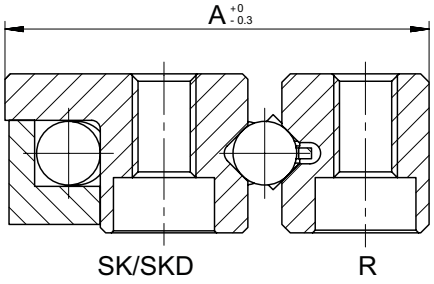
2 Wiper from size SK 3-075

Type and size		Weight in g	B	Dw	F	H	J	K_t	L	L_1	L_3	N	a	d	e	f	f_1	g	m	o	C in N SK	C in N SKD	Options (see chapter 8)
SK 1-022		5	4	1.5	8.4	7.25	6.9	9	22	10	-	4.8	0.3	3	M2	1.65	-	2.6	-	1.2	63		GP
SK 2-032		10	6	2	11	9.5	9	16	32	15	-	6	0.3	4.4	M3	2.55	-	4	-	1.9	135		GP
SK 3-075		45	8	3	16.9	14.5	13.8	48	75	25	12.5	9	0.5	6	M4	3.3	1.5	4.9	11.5	2.4	425		GP
SK 6-100	**SKD 6-100**	200	15	6	28.9	24.5	22.9	60	100	50	25	15	1	9.5	M6	5.2	2	9.8	19.7	4.4	715	650	GP
SK 6-150	**SKD 6-150**	300						102	150	2 x 50											1'170	1'100	
SK 9-150	**SKD 9-150**	670	22	9	45.1	39	36.7	90	150	100	50	26	1.5	10.5	M8	6.8	3	15.8	32.4	6.3	1'650	1'500	GP
SK 9-200	**SKD 9-200**	940						144	200												2'550	2'400	
SK 12-200	SKD 12-200	1'470	28	12	57.1	49	45.9	120	200	100	50	32	2	13.5	M10	8.5	3	19.8	40.2	7.7	2'860	2'600	GP

The types in bold are standard. Types SK12 and SKD 12 are available on request

6 Recirculating unit

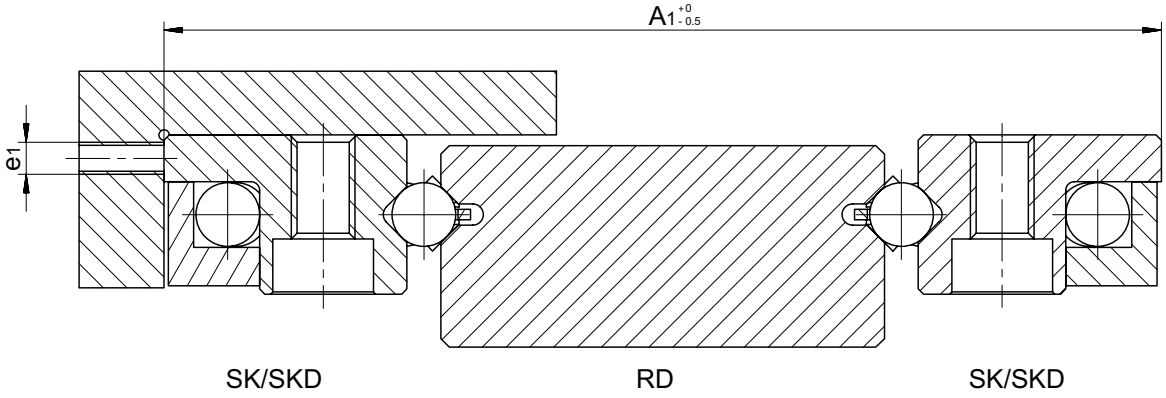
Installed dimensions and permissible torque for type SK and SKD

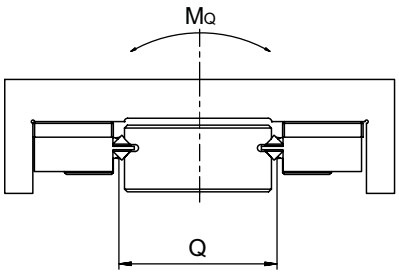


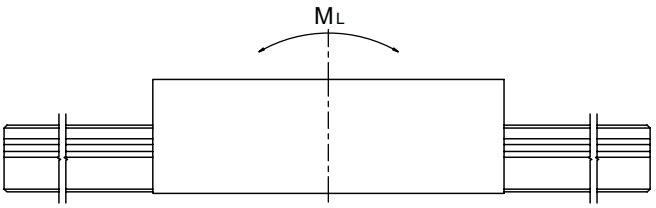
Installed dimensions for type SK and SKD

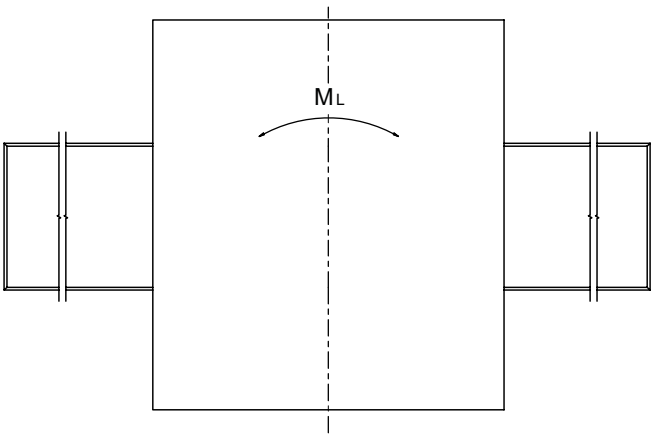
Type	Size	A	A_1	e_1
SK	**1-022**	11.5	28	M1.6
	2-032	15.5	37	M2.5
	3-075	23.5	57	M3
SK and SKD	**6-100**	40	94	M5
	6-150	40	94	M5
	9-150	61	150	M6
	9-200	61	150	M6
SK and SKD	12-200	78	175	M8

The types in bold are standard. Types SK12 and SKD 12 are available on request









Permissible torques for type SK and SKD

Type	Size	Q	M_L in Nm		M_Q in Nm	
			SK	SKD	SK	SKD
SK	**1-023**	13.5	0.4		0.8	
	2-033	18.0	1.4		2.4	
	3-076	28.0	7.2		12.0	
SK and SKD	**6-100**	45.0	23.0	23.0	32.0	29.0
	6-150		40.0	40.0	53.0	50.0
	9-150	72.0	81.0	81.0	119.0	108.0
	9-200		130.0	130.0	184.0	173.0
SK and SKD	12-200	77.0	187.0	187.0	220.0	200.0

The types in bold are standard. Types SK12 and SKD 12 are available on request