



Bearing type

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Characteristics

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Mating structure

The bearing element mounted determines the overall construction's load bearing capacity. Hence the mating construction can be made of alternative materials such as steel, aluminium or plastic. Axial and radial accuracy (see diagram below) are defined to a substantial extent by the mating components. These properties can be enhanced by boosting the accuracy of manufacture.

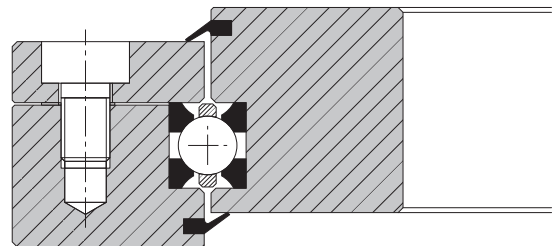
Please find construction examples, special forms, special accuracies and other options of individual tailoring on pages 11 – 19.

Technical details

Material	Ball race rings: 54SiCr6, rolling element: 100Cr6, cage: PA12/TPU
Temperature in use	–30 °C to +80 °C, briefly up to +100 °C
Circumferential speed	max. 5 m/s, without seals max. 10 m/s
Lubricant grease	Klüber ISOFLEX TOPAS NCA52
Lubrication schedule	See 'Technical information'.
Tolerance details	See 'Technical information'.

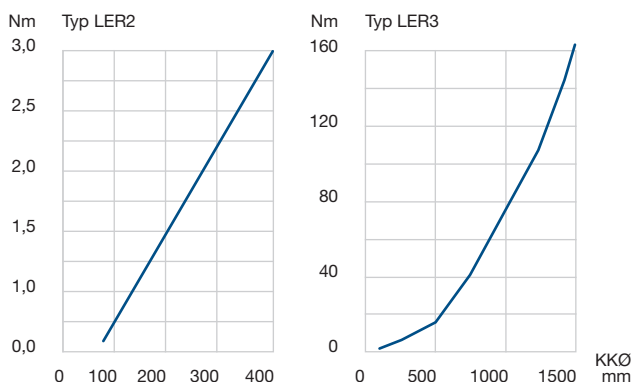
Please find additional data on calculation, mounting and setting in 'Technical information'.

Constructive example



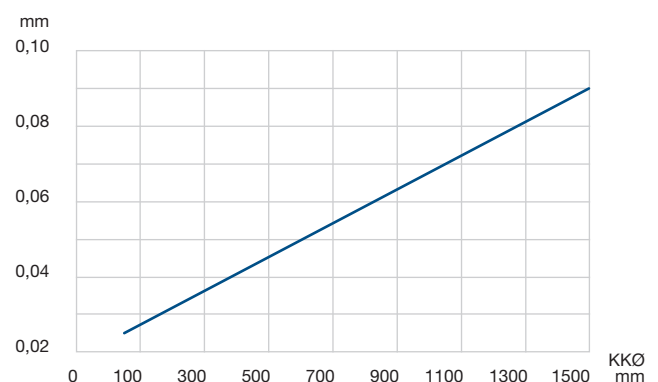
Rotational resistance

The rotational resistance indicates the preload on the bearing assembly. It is dependent on the respective type and the race ring diameter. The values indicated in the diagram are standard values and can be aligned individually.



Radial and axial runout accuracy

The running accuracies indicated in the diagram are maximum values and may be improved by restricting the tolerances.



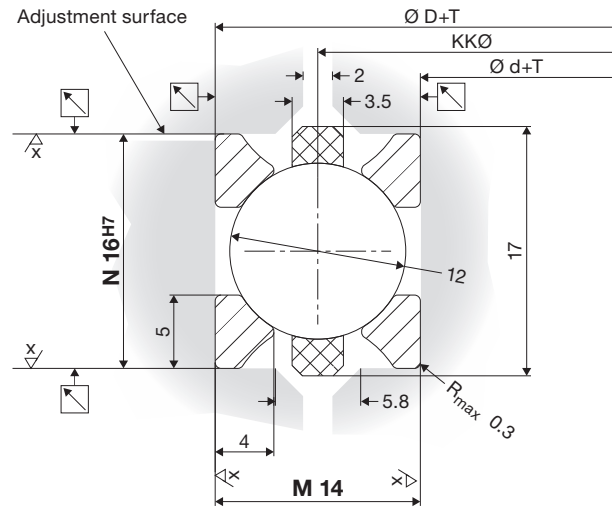
Rectangular profile/profiled raceway

Type LER

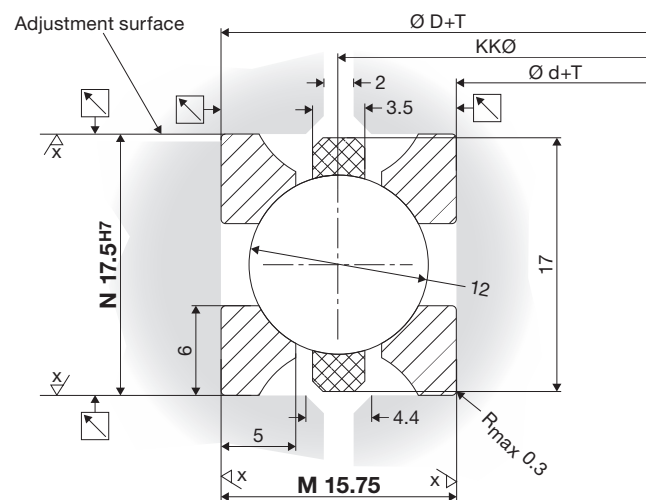
LER4

New

KKØ mm	Load rating kN				Stat. moment kNm	Weight kg
	C _{0a}	C _{0r}	C _a	C _r		
LER4-0200	174	82	44	38	8	0,61
LER4-0250	219	103	48	42	13	0,76
LER4-0300	264	124	52	45	19	0,91
LER4-0350	312	147	55	48	26	1,07
LER4-0400	357	168	58	50	34	1,22
LER4-0450	401	189	60	52	42	1,37
LER4-0500	446	210	63	54	52	1,57
LER4-0550	490	231	65	56	63	1,67
LER4-0600	535	252	67	58	75	1,89
LER4-0650	583	274	69	60	89	1,99
LER4-0700	628	295	71	62	103	2,14
LER4-0750	672	316	73	63	119	2,29
LER4-0800	717	337	75	65	135	2,45
LER4-0850	761	358	76	66	152	2,60
LER4-0900	806	379	78	68	171	2,75
LER4-0950	855	402	80	69	191	2,90
LER4-1000	899	423	81	70	212	3,05
LER4-1100	988	465	84	73	256	3,36
LER4-1200	1077	507	87	75	304	3,67
LER4-1300	1170	551	90	77	358	3,98
LER4-1400	1259	593	92	80	415	4,28
LER4-1500	1348	635	94	82	476	4,59

**LER5**

KKØ mm	Load rating kN				Stat. moment kNm	Weight kg
	C _{0a}	C _{0r}	C _a	C _r		
LER5-0250	260	122	48	42	15	1,33
LER5-0300	313	147	52	45	22	1,52
LER5-0350	371	175	55	48	31	1,71
LER5-0400	424	199	58	50	40	1,90
LER5-0450	477	224	60	52	50	2,09
LER5-0500	530	249	63	54	62	2,29
LER5-0550	583	274	65	55	66	2,48
LER5-0600	635	299	67	58	90	2,67
LER5-0650	693	326	69	60	106	2,85
LER5-0700	746	351	71	62	123	3,05
LER5-0750	799	376	73	63	141	3,24
LER5-0800	852	401	75	65	160	3,43
LER5-0850	905	426	76	66	181	3,62
LER5-0900	958	451	78	68	203	3,81
LER5-0950	1016	478	80	69	227	4,19
LER5-1000	1068	503	81	70	251	4,57
LER5-1100	1174	553	84	73	304	4,96
LER5-1200	1280	602	87	75	361	5,34
LER5-1300	1391	655	90	77	425	5,72
LER5-1400	1497	704	92	80	493	6,18
LER5-1500	1603	754	94	82	566	6,48
LER5-1600	1713	806	97	84	645	6,87


$$KK\varnothing \leq 500 \text{ mm } T = IT6 \quad KK\varnothing > 500 \text{ mm } T = IT7 \quad \frac{X}{\nabla} = Ra \ 3.2$$

Available infinitely variable in all intermediate diameters.

The table of tolerances, see page 79.



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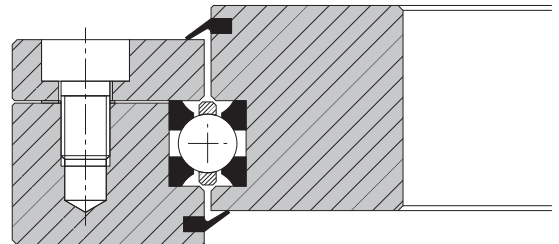
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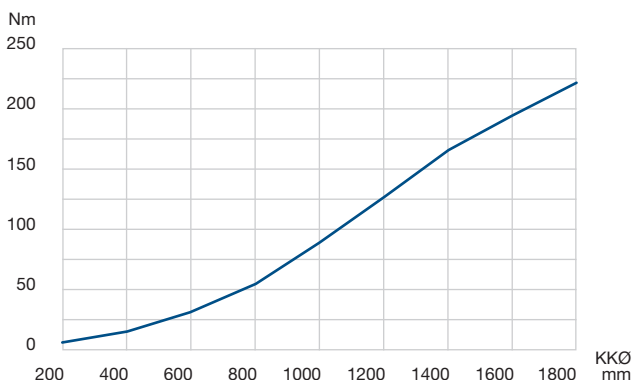
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Constructive example



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