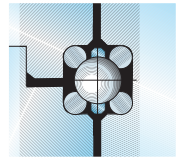
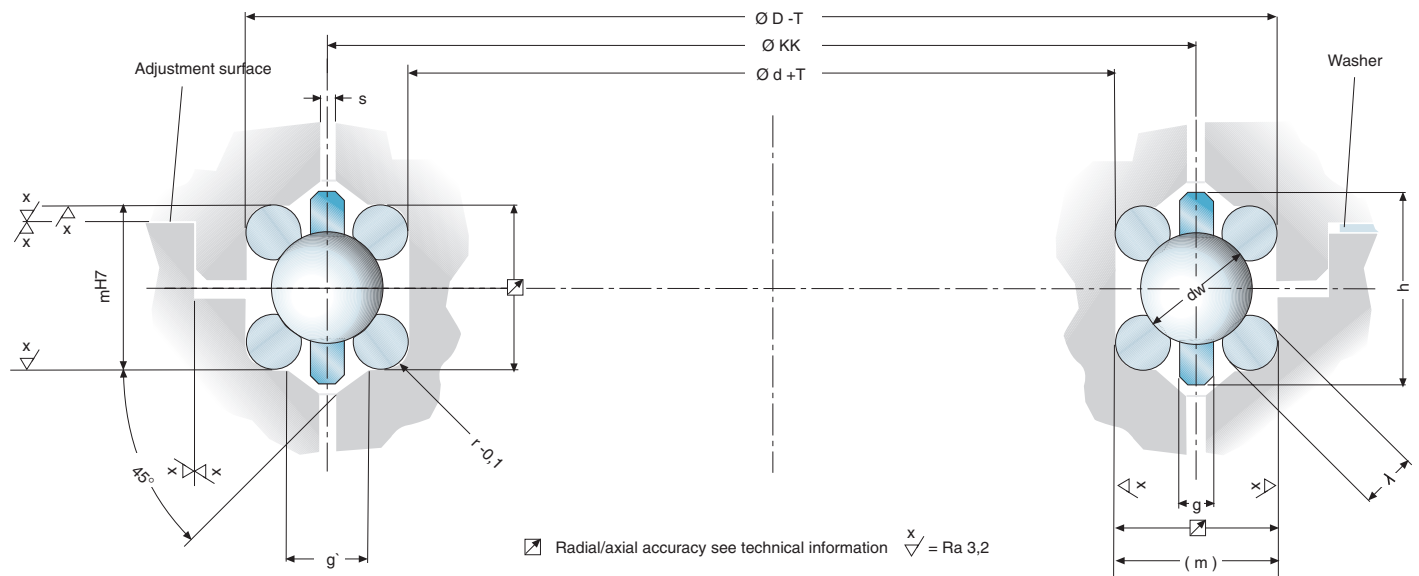


Bearing elements

with ground raceways



Series LEL



Ø KK	d _w	λ	m	r	g	h	g'	s	Tolerance T
70 - 145	5	1,5	5,9	0,65	1,5	7,6	-	2,6	
150 - 220	6	2,0	7,4	0,90	1,6	8,6	-	2,6	
225 - 295	8	2,5	9,2	1,15	2,0	10,6	4,0	1,4	
300 - 390	9	3,0	10,6	1,40	2,5	11,6	3,6	1,6	
400 - 790	12	4,0	14,1	1,90	2,5	15,0	4,5	2,0	
800 - 1180	16	5,0	18,4	2,40	3,0	19,6	5,5	2,0	
1200 - 1500	20	6,0	22,6	2,90	3,5	24,2	6,5	3,0	

KK Ø ≤ 500 mm T = (IT6*)
KK Ø ≥ 500 mm T = (IT7*)

Dimensions [mm], * DIN ISO 286

Consist of:

- Four ball race rings with ground raceways
- Segmented strip cage with retained balls

Features:

- Direct integration into your mating structure
- Free selection of ball pitch
- Smallest mounting space and high precision
- Best radial and axial accuracy
- Calculation programme to find the most suitable bearing

Ball race rings:

Standard diameters from 1,5 to 6mm

Special diameters up to 22 mm

For special applications other race ring diameters or race rings

- without raceways are also available. Please consult us.

Rolling elements:

Steel balls DIN5401, class III

Strip cage:

- Ball guided polyamide ball cage divided into segments
- The segmented strip cage runs very smoothly and silently and compensates length differences caused by high temperatures. The number of segments refers to the ball pitch diameter. For special applications and temperatures higher than 120° C we recommend ball cages made of non-corrosive steel or brass.

Lubrication:

with ball bearing grease. For more information see page 34.

Temperature:

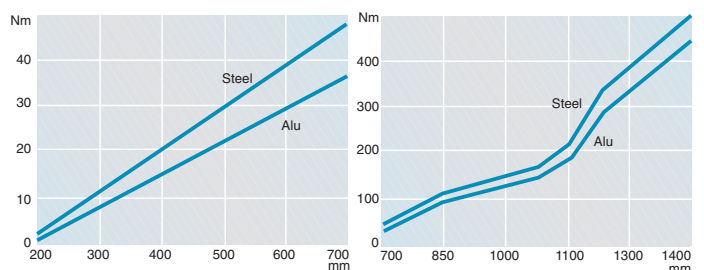
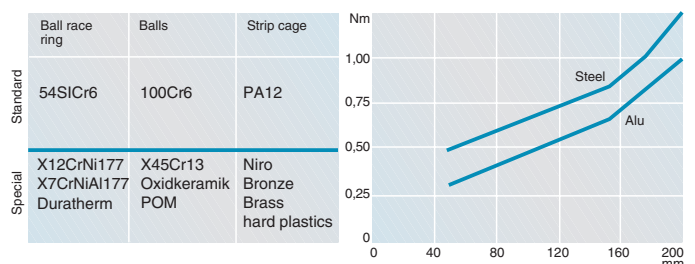
- Continuous operation: -40° C to +100° C, short time operation max. 120° C
- Other temperatures on request

Adjustment:

- By plane surface
 - By washers (see page 31)
- The preload is adjusted correctly when the rotational resistance without seal corresponds to table 1 (temperature range -40° C to +100° C).

Circumferential speed:

- with grease lubrication max. 10 m/s
- with oil lubrication max. 12 m/s



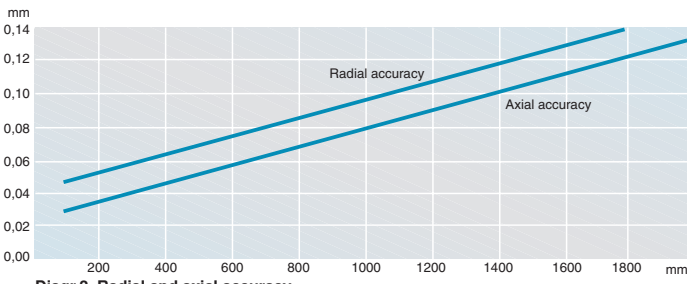
intermediate diameters
on request



Ball pitch	Load rating		Weight	Order number
Ø KK [mm]	C [kN]	Co [kN]	[kg]	
70	4	5	0,03	71001A
75	4	5	0,03	71003A
80	4	6	0,03	71005A
85	4	6	0,03	71007A
90	4	6	0,04	71009A
95	4	7	0,04	71011A
100	4	7	0,04	71013A
105	4	7	0,04	71015A
110	4	8	0,04	71017A
115	4	8	0,04	71019A
120	4	9	0,04	71021A
125	4	9	0,05	71023A
130	5	9	0,05	71025A
135	5	10	0,05	71027A
140	5	10	0,05	71029A
145	5	10	0,06	71031A
150	9	19	0,09	71033A
155	9	19	0,09	71035A
160	10	20	0,09	71037A
165	10	20	0,09	71039A
170	10	21	0,10	71041A
175	10	22	0,10	71043A
180	10	23	0,10	71045A
185	10	23	0,10	71047A
190	10	24	0,11	71049A
195	10	24	0,11	71051A
200	10	25	0,12	71053A
205	10	26	0,12	71055A
210	10	26	0,12	71057A
215	11	27	0,13	71059A
220	11	28	0,14	71061A
225	16	49	0,22	71063A
230	16	51	0,22	71065A
235	16	52	0,22	71067A
240	16	53	0,22	71069A
245	17	54	0,22	71071A
250	17	55	0,23	71073A
255	17	56	0,23	71075A
260	17	58	0,23	71077A
265	17	59	0,24	71079A
270	17	59	0,24	71081A
275	17	60	0,25	71083A
280	17	62	0,25	71085A
285	17	63	0,26	71087A
290	18	64	0,27	71089A
295	18	66	0,29	71091A
300	23	93	0,42	71093A
310	23	97	0,50	71095A
320	24	100	0,50	71097A
330	24	104	0,50	71099A
340	24	106	0,60	71101A
350	25	109	0,60	71103A
360	25	113	0,70	71105A
370	25	116	0,70	71107A
380	25	119	0,80	71109A
390	26	122	0,90	71111A
400	43	161	1,00	71113A
410	44	165	1,02	71115A
420	44	170	1,00	71117A
430	44	174	1,10	71119A
440	45	178	1,10	71121A
450	45	182	1,10	71123A

Ball pitch	Load rating		Weight	Order number
Ø KK [mm]	C [kN]	Co [kN]	[kg]	
460	46	186	1,10	71125A
470	46	191	1,10	71127A
480	46	195	1,20	71129A
490	47	199	1,20	71131A
500	47	203	1,20	71133A
510	47	207	1,20	71135A
520	48	211	1,30	71137A
530	48	216	1,30	71139A
540	49	220	1,30	71141A
550	49	222	1,30	71143A
560	49	226	1,40	71145A
570	49	230	1,40	71147A
580	50	234	1,40	71149A
590	50	239	1,50	71151A
600	50	243	1,50	71153A
610	51	245	1,50	71155A
620	51	251	1,50	71157A
630	51	255	1,60	71159A
640	51	259	1,60	71161A
650	52	264	1,60	71163A
660	52	268	1,70	71165A
670	52	272	1,70	71167A
680	53	276	1,70	71169A
690	53	280	1,80	71171A
700	53	285	1,80	71173A
710	54	289	1,80	71175A
720	54	293	1,90	71177A
730	54	297	1,90	71179A
740	54	301	2,00	71181A
750	55	305	2,00	71183A
760	55	310	2,00	71185A
770	55	314	2,10	71187A
780	56	318	2,10	71189A
790	56	322	2,10	71191A
800	83	426	3,40	71193A
810	83	433	3,50	71195A
820	84	437	3,50	71197A
830	84	444	3,60	71199A
840	84	447	3,60	71201A
850	85	454	3,70	71203A
860	85	461	3,80	71205A
870	85	464	3,80	71207A
880	86	471	3,90	71209A
890	86	474	4,00	71211A
900	87	481	4,00	71213A
920	87	492	4,10	71215A
940	88	502	4,20	71217A
960	89	512	4,20	71219A
980	89	523	4,30	71221A
1000	90	536	4,40	71223A
1020	91	547	4,50	71225A
1040	91	557	4,50	71227A
1060	92	567	4,60	71229A
1080	93	578	4,70	71231A
1100	93	588	4,80	71233A
1120	94	598	4,80	71235A
1140	95	612	4,90	71237A
1160	95	622	5,00	71239A
1180	96	633	5,00	71241A
1200	121	748	7,50	71243A
1220	122	764	7,60	71245A
1240	123	774	7,80	71247A
1260	124	790	7,90	71249A
1280	124	800	8,00	71251A
1300	125	816	8,20	71253A
1320	126	826	8,30	71255A
1340	126	837	8,50	71257A
1360	127	852	8,60	71259A
1380	128	863	8,80	71261A
1400	129	878	8,90	71263A
1420	129	889	9,10	71265A
1440	130	899	9,20	71267A
1460	130	915	9,40	71269A
1480	131	926	9,60	71271A
1500	132	941	9,60	71273A

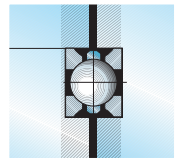
max. Ø 7000 mm



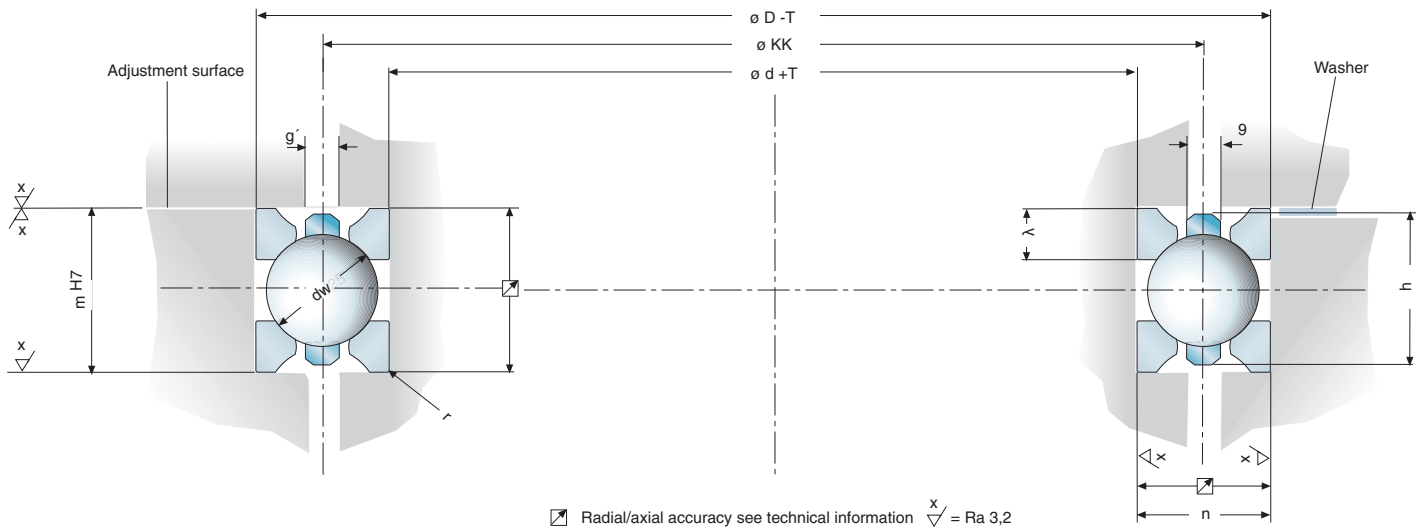
Antifriction wire race bearings

Bearing elements

Rectangular profile with drawn races



Series LER



Ø KK	dw	λ	m	n	r max	g	h	g'	Tolerance
100 - 1500	9,525	4 x 3	13	11	0,3	2,5	12,6	3	KK Ø ≤ 500 mm T = IT6* KK Ø > 500 mm T = IT7*

Dimensions [mm], * DIN ISO 286

Consist of:

- Four ball race rings with drawn raceways
- Segmented strip cage with retained balls

Features:

- Direct integration into your mating structure
- Free selection of ball pitch
- Small mounting space and high precision
- Easy machining of the mating structure
- Calculation programme to find the most suitable bearing

Ball race rings:

- Rectangular profile 4 x 3 mm
- Drawn raceways
- For special applications other race ring diameters are also available.
- Please consult us.

Rolling elements:

- Steel balls DIN5401, class III

Strip cage:

- Ball guided polyamide ball cage divided into segments
- The segmented strip cage runs very smoothly and silently and compensates length differences caused by high temperatures. The number of segments refers to the ball pitch diameter. For special applications and temperatures higher than 120° C we recommend ball cages made of non-corrosive steel or brass.

Lubrication:

- with ball bearing grease. For more information see page 34.

Temperature:

- Continuous operation: -40° C to +100° C, short time operation max. 120° C
- Other temperatures on request

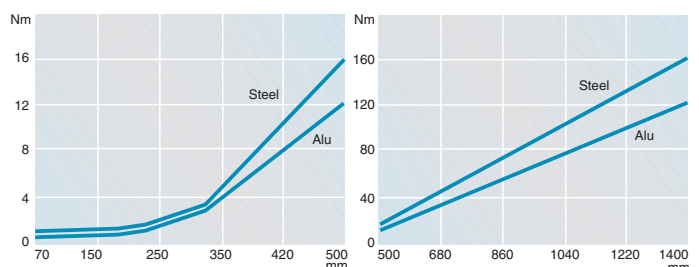
Adjustment:

- By plane surface
 - By washers (see page 31)
- The preload is adjusted correctly when the rotational resistance without seal corresponds to table 1 (temperature range -40° C to +100° C).

Circumferential speed:

- with grease lubrication max. 10 m/s
- with oil lubrication max. 12 m/s

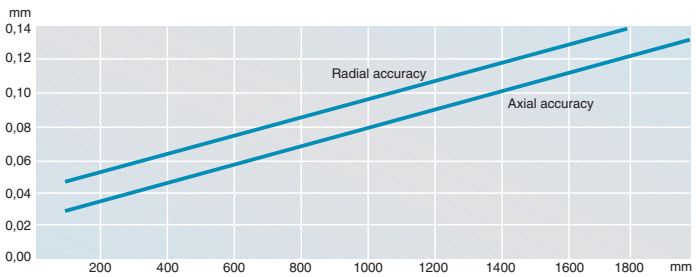
	54SiCr6 Ball race ring	100Cr6 Balls	PA12 Strip cage
Standard	Corrotec ATC-Beschichtung	Messing- Flachkäfig	X45Cr13
Special			



Intermediate diameters
on request



Ball pitch	Load rating		Weight	Order number
Ø KK [mm]	C [kN]	Co [kN]	[kg]	
100	17	25	0,20	68460A
105	17	26	0,20	68461A
110	18	28	0,20	68462A
115	18	29	0,20	68463A
120	18	30	0,20	68464A
125	19	33	0,20	68465A
130	19	34	0,20	68466A
135	20	35	0,20	68467A
140	20	36	0,20	68468A
145	20	37	0,20	68469A
150	20	39	0,30	74060A
155	20	40	0,30	74061A
160	20	41	0,30	74062A
165	21	43	0,30	74063A
170	21	45	0,30	74064A
175	21	46	0,30	74065A
180	22	47	0,30	74066A
185	22	48	0,30	74067A
190	22	49	0,30	74068A
195	22	51	0,30	74069A
200	23	52	0,30	74070A
205	23	54	0,30	74071A
210	23	55	0,30	74072A
215	23	57	0,30	74073A
220	24	58	0,40	74074A
225	24	59	0,40	74075A
230	24	60	0,40	74076A
235	24	61	0,40	74077A
240	24	63	0,40	74078A
245	24	64	0,40	74079A
250	25	66	0,40	74080A
255	25	67	0,40	74081A
260	25	69	0,40	74082A
265	25	70	0,40	74083A
270	25	71	0,40	74084A
275	26	72	0,50	74085A
280	26	73	0,50	74086A
285	26	75	0,50	74087A
290	26	77	0,50	74088A
295	26	78	0,50	74089A
300	27	79	0,50	74090A
310	27	82	0,50	74091A
320	27	84	0,50	74092A
330	28	88	0,60	74093A
340	28	90	0,60	74094A
350	28	92	0,60	74095A
360	28	95	0,60	74096A
370	29	98	0,60	74097A
380	29	100	0,60	74098A
390	29	103	0,60	74099A
400	29	106	0,70	74100A
410	30	109	0,70	74101A
420	30	112	0,70	74102A
430	30	114	0,70	74103A
440	31	116	0,70	74104A
450	31	119	0,70	74105A
460	31	122	0,80	74106A
470	31	125	0,80	74107A
480	32	127	0,80	74108A
490	32	130	0,80	74109A
500	32	133	0,80	74110A



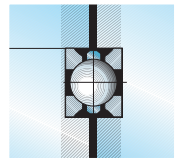
Diagr.2 Radial and axial accuracy

Ball pitch	Load rating		Weight	Order number
Ø KK [mm]	C [kN]	Co [kN]	[kg]	
510	32	136	0,80	74111A
520	33	138	0,90	74112A
530	33	140	0,90	74113A
540	33	144	0,90	74114A
550	33	146	0,90	74115A
560	33	149	1,00	74116A
570	34	151	1,00	74117A
580	34	155	1,00	74118A
590	34	157	1,00	74119A
600	34	159	1,10	74120A
610	34	162	1,10	74121A
620	35	165	1,10	74122A
630	35	168	1,10	74123A
640	35	170	1,20	74124A
650	35	173	1,20	74125A
660	36	176	1,20	74126A
670	36	179	1,20	74127A
680	36	181	1,30	74128A
690	36	183	1,30	74129A
700	36	187	1,30	74130A
710	36	189	1,40	74131A
720	37	192	1,40	74132A
730	37	194	1,40	74133A
740	37	198	1,50	74134A
750	37	200	1,50	74135A
760	37	203	1,50	74136A
770	38	205	1,50	74137A
780	38	209	1,60	74138A
790	38	211	1,60	74139A
800	38	213	1,60	74140A
810	38	216	1,60	74141A
820	39	219	1,70	74142A
830	39	222	1,70	74143A
840	39	224	1,70	74144A
850	39	226	1,70	74145A
860	39	229	1,80	74146A
870	39	232	1,80	74147A
880	40	235	1,80	74148A
890	40	237	1,90	74149A
900	40	240	1,90	74150A
920	40	246	1,90	74151A
940	40	250	1,90	74152A
960	41	256	2,00	74153A
980	41	261	2,00	74154A
1000	41	267	2,00	74155A
1020	42	272	2,10	74156A
1040	42	278	2,10	74157A
1060	42	283	2,10	74158A
1080	43	289	2,20	74159A
1100	43	293	2,20	74160A
1120	43	299	2,20	74161A
1140	43	304	2,30	74162A
1160	44	310	2,30	74163A
1180	44	315	2,40	74164A
1200	44	321	2,40	74165A
1220	45	326	2,40	74166A
1240	45	332	2,50	74167A
1260	45	337	2,50	74168A
1280	45	343	2,50	74169A
1300	46	347	2,60	74170A
1320	46	353	2,60	74171A
1340	46	358	2,70	74172A
1360	46	364	2,70	74173A
1380	47	369	2,80	74174A
1400	47	375	2,80	74175A
1420	47	377	2,80	74176A
1440	47	386	2,90	74177A
1460	48	390	2,90	74178A
1480	48	396	3,00	74179A
1500	48	401	3,00	74180A

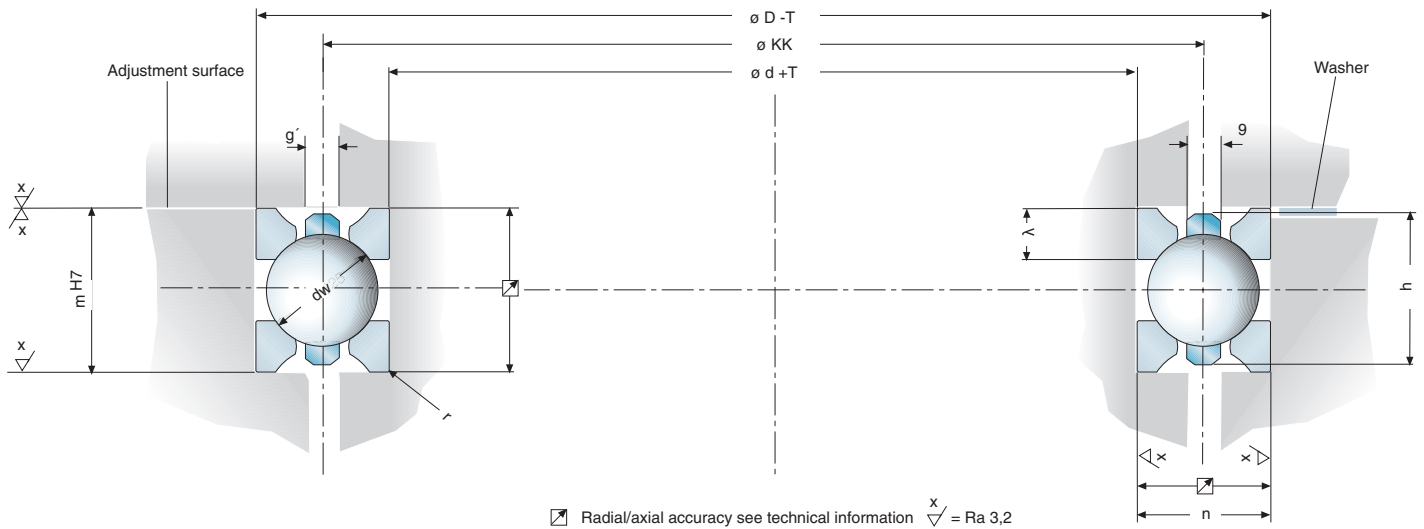
Antifriction wire race bearings

Bearing elements

Rectangular profile with drawn races



Series LER



Ø KK	dw	λ	m	n	r max	g	h	g'	Tolerance
100 - 1500	9,525	4 x 3	13	11	0,3	2,5	12,6	3	KK Ø ≤ 500 mm T = IT6* KK Ø > 500 mm T = IT7*

Dimensions [mm], * DIN ISO 286

Consist of:

- Four ball race rings with drawn raceways
- Segmented strip cage with retained balls

Features:

- Direct integration into your mating structure
- Free selection of ball pitch
- Small mounting space and high precision
- Easy machining of the mating structure
- Calculation programme to find the most suitable bearing

Ball race rings:

- Rectangular profile 4 x 3 mm
- Drawn raceways
- For special applications other race ring diameters are also available.
- Please consult us.

Rolling elements:

- Steel balls DIN5401, class III

Strip cage:

- Ball guided polyamide ball cage divided into segments
- The segmented strip cage runs very smoothly and silently and compensates length differences caused by high temperatures. The number of segments refers to the ball pitch diameter. For special applications and temperatures higher than 120° C we recommend ball cages made of non-corrosive steel or brass.

Lubrication:

- with ball bearing grease. For more information see page 34.

Temperature:

- Continuous operation: -40° C to +100° C, short time operation max. 120° C
- Other temperatures on request

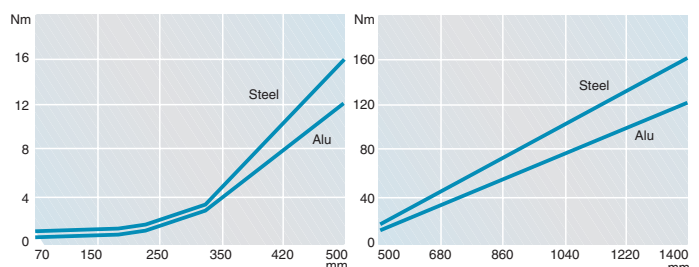
Adjustment:

- By plane surface
 - By washers (see page 31)
- The preload is adjusted correctly when the rotational resistance without seal corresponds to table 1 (temperature range -40° C to +100° C).

Circumferential speed:

- with grease lubrication max. 10 m/s
- with oil lubrication max. 12 m/s

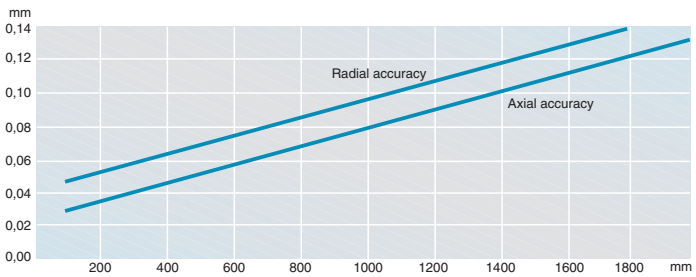
	54SiCr6 Ball race ring	100Cr6 Balls	PA12 Strip cage
Standard	Corrotec ATC-Beschichtung	Messing- Flachkäfig	X45Cr13
Special			



Intermediate diameters
on request



Ball pitch	Load rating		Weight	Order number
Ø KK [mm]	C [kN]	Co [kN]	[kg]	
100	17	25	0,20	68460A
105	17	26	0,20	68461A
110	18	28	0,20	68462A
115	18	29	0,20	68463A
120	18	30	0,20	68464A
125	19	33	0,20	68465A
130	19	34	0,20	68466A
135	20	35	0,20	68467A
140	20	36	0,20	68468A
145	20	37	0,20	68469A
150	20	39	0,30	74060A
155	20	40	0,30	74061A
160	20	41	0,30	74062A
165	21	43	0,30	74063A
170	21	45	0,30	74064A
175	21	46	0,30	74065A
180	22	47	0,30	74066A
185	22	48	0,30	74067A
190	22	49	0,30	74068A
195	22	51	0,30	74069A
200	23	52	0,30	74070A
205	23	54	0,30	74071A
210	23	55	0,30	74072A
215	23	57	0,30	74073A
220	24	58	0,40	74074A
225	24	59	0,40	74075A
230	24	60	0,40	74076A
235	24	61	0,40	74077A
240	24	63	0,40	74078A
245	24	64	0,40	74079A
250	25	66	0,40	74080A
255	25	67	0,40	74081A
260	25	69	0,40	74082A
265	25	70	0,40	74083A
270	25	71	0,40	74084A
275	26	72	0,50	74085A
280	26	73	0,50	74086A
285	26	75	0,50	74087A
290	26	77	0,50	74088A
295	26	78	0,50	74089A
300	27	79	0,50	74090A
310	27	82	0,50	74091A
320	27	84	0,50	74092A
330	28	88	0,60	74093A
340	28	90	0,60	74094A
350	28	92	0,60	74095A
360	28	95	0,60	74096A
370	29	98	0,60	74097A
380	29	100	0,60	74098A
390	29	103	0,60	74099A
400	29	106	0,70	74100A
410	30	109	0,70	74101A
420	30	112	0,70	74102A
430	30	114	0,70	74103A
440	31	116	0,70	74104A
450	31	119	0,70	74105A
460	31	122	0,80	74106A
470	31	125	0,80	74107A
480	32	127	0,80	74108A
490	32	130	0,80	74109A
500	32	133	0,80	74110A



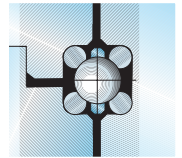
Diagr.2 Radial and axial accuracy

Ball pitch	Load rating		Weight	Order number
Ø KK [mm]	C [kN]	Co [kN]	[kg]	
510	32	136	0,80	74111A
520	33	138	0,90	74112A
530	33	140	0,90	74113A
540	33	144	0,90	74114A
550	33	146	0,90	74115A
560	33	149	1,00	74116A
570	34	151	1,00	74117A
580	34	155	1,00	74118A
590	34	157	1,00	74119A
600	34	159	1,10	74120A
610	34	162	1,10	74121A
620	35	165	1,10	74122A
630	35	168	1,10	74123A
640	35	170	1,20	74124A
650	35	173	1,20	74125A
660	36	176	1,20	74126A
670	36	179	1,20	74127A
680	36	181	1,30	74128A
690	36	183	1,30	74129A
700	36	187	1,30	74130A
710	36	189	1,40	74131A
720	37	192	1,40	74132A
730	37	194	1,40	74133A
740	37	198	1,50	74134A
750	37	200	1,50	74135A
760	37	203	1,50	74136A
770	38	205	1,50	74137A
780	38	209	1,60	74138A
790	38	211	1,60	74139A
800	38	213	1,60	74140A
810	38	216	1,60	74141A
820	39	219	1,70	74142A
830	39	222	1,70	74143A
840	39	224	1,70	74144A
850	39	226	1,70	74145A
860	39	229	1,80	74146A
870	39	232	1,80	74147A
880	40	235	1,80	74148A
890	40	237	1,90	74149A
900	40	240	1,90	74150A
920	40	246	1,90	74151A
940	40	250	1,90	74152A
960	41	256	2,00	74153A
980	41	261	2,00	74154A
1000	41	267	2,00	74155A
1020	42	272	2,10	74156A
1040	42	278	2,10	74157A
1060	42	283	2,10	74158A
1080	43	289	2,20	74159A
1100	43	293	2,20	74160A
1120	43	299	2,20	74161A
1140	43	304	2,30	74162A
1160	44	310	2,30	74163A
1180	44	315	2,40	74164A
1200	44	321	2,40	74165A
1220	45	326	2,40	74166A
1240	45	332	2,50	74167A
1260	45	337	2,50	74168A
1280	45	343	2,50	74169A
1300	46	347	2,60	74170A
1320	46	353	2,60	74171A
1340	46	358	2,70	74172A
1360	46	364	2,70	74173A
1380	47	369	2,80	74174A
1400	47	375	2,80	74175A
1420	47	377	2,80	74176A
1440	47	386	2,90	74177A
1460	48	390	2,90	74178A
1480	48	396	3,00	74179A
1500	48	401	3,00	74180A

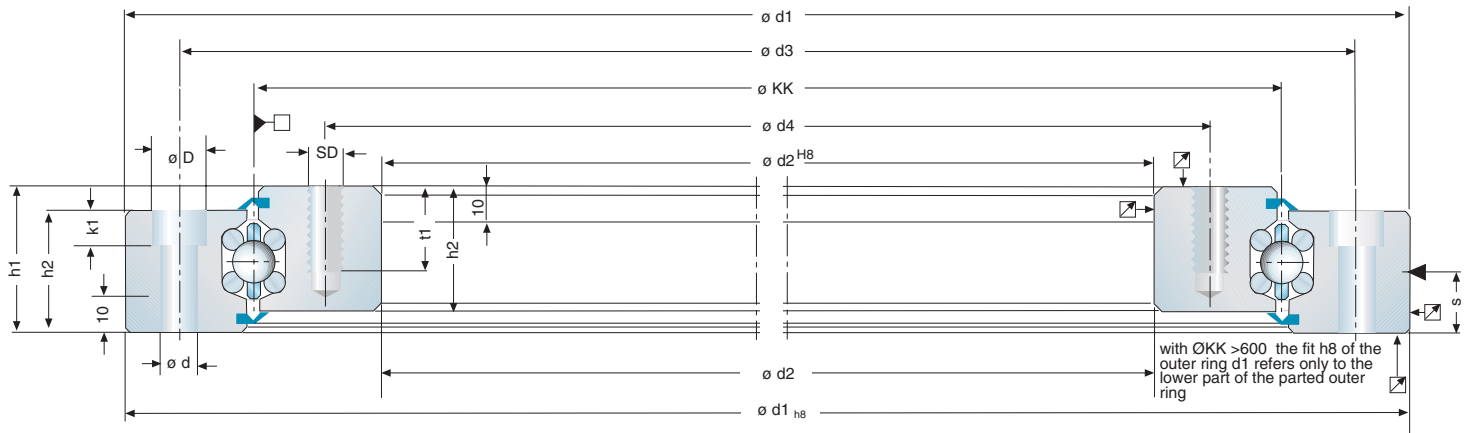
Antifriction wire race bearings

Bearing assemblies

Steel version

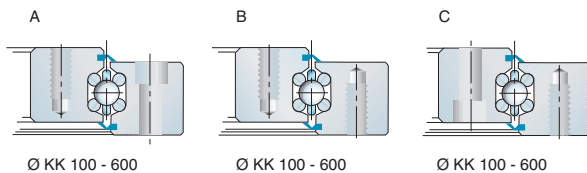


Series LDL

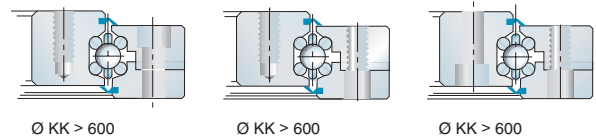


◀ Lubricating nipple DIN 3405
Position:
≤ KKØ600 Central between fastening bores, radial at 1x at periphery
> KKØ600 In the centre between the customer's fastening there are retaining screws (screwing of the bearing) lubricating nipple between the customer's fastening and retaining screws, radial 1x at periphery

Bore shape:



Ring design:



Consist of:

- Inner and outer ring of steel
- Bearing element with ground raceways
- Seal on both sides of the bearing
- Optional with inner or outer gear

Features:

- Ready-to-mount bearing assembly
 - Free selection of material and coating
 - Free selection of bearing geometry
 - Free selection of bore shape
 - Free selection of gear from 60 to 1500mm
 - Highest radial and axial accuracy with max. stiffness
 - Specified rotational resistance ex works
 - Rotational resistance adjustable from clearance to preload
 - Calculation programme to find the most suitable bearing
- Our calculation programme can be found in the download area of our homepage www.franke-gmbh.com. We are gladly prepared to calculate the bearing size for you

Lubrication:

- With ball bearing grease. For more information see page 34.

Temperature:

- Standard: Continuous operation: -30°C to +80°C, short time operation max. 100°C
 - Optional: Continuous operation -30°C to +180°C
- Please consult us

Adjustment:

- Preload ex works (see diagram 1)

Circumferential speed:

- with seal max. 5m/s
- without seal max. 10 m/s

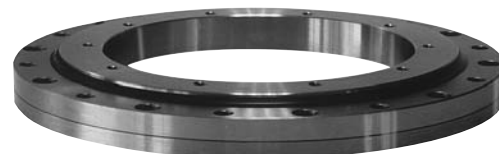
Gear:

- Standard see page 27
- Optional: toothed belt gear, worm gear, angular gear, etc. Please consult us.

	Inner outer ring	Race ways	Antifriction bearing	Strip cage	Seal
Standard	C45N	54SiCr6	100Cr6	PA12	NBR
Teeth: 42CrMo4V					
Special	Alu AlZnMgCu05 Brass CuSn12 Niro X5CrNi18.10 Plastic Magnesium	Niro X12CrNi177 X7CrNi177 Duratherm 600F1450 Corrotec, ATC coating	Niro X45Cr13 Oxydkeramik POM	Niro Bronze Hard plastics Brass	Viton Teflon Labyrinth Wave seal Metal seal

Tab. 1 Material

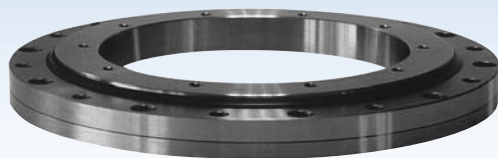
Intermediate diameters
on request



Diameter		Height		Fastening							Number		Load rating		Weight	Order number			
KK	d1 [mm]	d2 [mm]	h1 [mm]	h2 [mm]	d3 [mm]	d4 [mm]	D [mm]	d [mm]	k1 [mm]	SD [mm]	t1 [mm]	a [Num.]	s	C [kN]	Co [kN]	[kg]	A	B	C
100	150	50	30	24	135	65	11	6,6	6,8	M6	15	6x	15,0	17	25	2,5	66401Y	66402Y	66403Y
150	200	100	30	24	185	115	11	6,6	6,8	M6	15	6x	15,0	18	40	3,7	73000Y	73001Y	73002Y
160	210	110	30	24	195	125	11	6,6	6,8	M6	15	6x	15,0	18	43	4,0	73003Y	73004Y	73005Y
170	220	120	30	24	205	135	11	6,6	6,8	M6	15	6x	15,0	19	46	4,2	73006Y	73007Y	73008Y
180	230	130	30	24	215	145	11	6,6	6,8	M6	15	8x	15,0	19	49	4,5	73009Y	73010Y	73011Y
190	240	140	30	24	225	155	11	6,6	6,8	M6	15	8x	15,0	20	51	4,7	73012Y	73013Y	73014Y
200	250	150	30	24	235	165	11	6,6	6,8	M6	15	8x	15,0	20	54	5,0	73015Y	73016Y	73017Y
210	260	160	30	24	245	175	11	6,6	6,8	M6	15	8x	15,0	21	57	5,2	73018Y	73019Y	73020Y
220	270	170	30	24	255	185	11	6,6	6,8	M6	15	8x	15,0	21	60	5,5	73021Y	73022Y	73023Y
230	290	170	34	27	270	190	15	9,0	9,0	M8	20	8x	17,5	24	64	7,7	73024Y	73025Y	73026Y
240	300	180	34	27	280	200	15	9,0	9,0	M8	20	8x	17,5	24	67	8,1	73027Y	73028Y	73029Y
250	310	190	34	27	290	210	15	9,0	9,0	M8	20	10x	17,5	25	70	8,4	73030Y	73031Y	73032Y
260	320	200	34	27	300	220	15	9,0	9,0	M8	20	10x	17,5	25	73	8,8	73033Y	73034Y	73035Y
270	330	210	34	27	310	230	15	9,0	9,0	M8	20	10x	17,5	25	76	9,1	73036Y	73037Y	73038Y
280	340	220	34	27	320	240	15	9,0	9,0	M8	20	10x	17,5	26	78	9,4	73039Y	73040Y	73041Y
290	350	230	34	27	330	250	15	9,0	9,0	M8	20	10x	17,5	26	82	9,8	73042Y	73043Y	73044Y
300	360	240	38	31	340	260	15	9,0	9,0	M8	20	12x	19,5	27	84	11,6	73045Y	73046Y	73047Y
310	370	250	38	31	350	270	15	9,0	9,0	M8	20	12x	19,5	27	87	12,0	73048Y	73049Y	73050Y
320	380	260	38	31	360	280	15	9,0	9,0	M8	20	12x	19,5	27	90	12,4	73051Y	73052Y	73053Y
330	390	270	38	31	370	290	15	9,0	9,0	M8	20	14x	19,5	28	93	12,8	73054Y	73055Y	73056Y
340	400	280	38	31	380	300	15	9,0	9,0	M8	20	14x	19,5	28	96	13,2	73057Y	73058Y	73059Y
350	410	290	38	31	390	310	15	9,0	9,0	M8	20	14x	19,5	28	98	13,5	73060Y	73061Y	73062Y
360	420	300	38	31	400	320	15	9,0	9,0	M8	20	14x	19,5	28	101	13,9	73063Y	73064Y	73065Y
370	430	310	38	31	410	330	15	9,0	9,0	M8	20	14x	19,5	29	105	14,3	73066Y	73067Y	73068Y
380	440	320	38	31	420	340	15	9,0	9,0	M8	20	14x	19,5	29	107	14,7	73069Y	73070Y	73071Y
390	450	330	38	31	430	350	15	9,0	9,0	M8	20	14x	19,5	29	110	15,1	73072Y	73073Y	73074Y
400	470	330	44	37	445	355	18	11,0	11,0	M10	25	14x	22,5	28	128	21,6	73075Y	73076Y	73077Y
410	480	340	44	37	455	365	18	11,0	11,0	M10	25	14x	22,5	28	133	22,1	73078Y	73079Y	73080Y
420	490	350	44	37	465	375	18	11,0	11,0	M10	25	14x	22,5	28	136	22,7	73081Y	73082Y	73083Y
430	500	360	44	37	475	385	18	11,0	11,0	M10	25	14x	22,5	29	139	23,2	73084Y	73085Y	73086Y
440	510	370	44	37	485	395	18	11,0	11,0	M10	25	14x	22,5	29	142	23,7	73087Y	73088Y	73089Y
450	520	380	44	37	495	405	18	11,0	11,0	M10	25	14x	22,5	29	144	24,3	73090Y	73091Y	73092Y
460	530	390	44	37	505	415	18	11,0	11,0	M10	25	14x	22,5	29	149	24,8	73093Y	73094Y	73095Y
470	540	400	44	37	515	425	18	11,0	11,0	M10	25	14x	22,5	29	152	25,4	73096Y	73097Y	73098Y
480	550	410	44	37	525	435	18	11,0	11,0	M10	25	14x	22,5	30	155	25,9	73099Y	73100Y	73101Y
490	560	420	44	37	535	445	18	11,0	11,0	M10	25	14x	22,5	30	158	26,4	73102Y	73103Y	73104Y
500	580	420	49	42	550	450	20	14,0	13,0	M12	30	14x	25,0	30	162	35,0	73105Y	73106Y	73107Y
510	590	430	49	42	560	460	20	14,0	13,0	M12	30	14x	25,0	30	165	35,7	73108Y	73109Y	73110Y
520	600	440	49	42	570	470	20	14,0	13,0	M12	30	14x	25,0	31	168	36,4	73111Y	73112Y	73113Y
530	610	450	49	42	580	480	20	14,0	13,0	M12	30	16x	25,0	31	171	37,1	73114Y	73115Y	73116Y
540	620	460	49	42	590	490	20	14,0	13,0	M12	30	16x	25,0	31	175	37,8	73117Y	73118Y	73119Y
550	630	470	49	42	600	500	20	14,0	13,0	M12	30	16x	25,0	31	178	38,5	73120Y	73121Y	73122Y
560	640	480	49	42	610	510	20	14,0	13,0	M12	30	16x	25,0	31	181	39,2	73123Y	73124Y	73125Y
570	650	490	49	42	620	520	20	14,0	13,0	M12	30	16x	25,0	32	184	39,9	73126Y	73127Y	73128Y
580	660	500	49	42	630	530	20	14,0	13,0	M12	30	16x	25,0	32	188	40,6	73129Y	73130Y	73131Y
590	670	510	49	42	640	540	20	14,0	13,0	M12	30	16x	25,0	32	191	41,3	73132Y	73133Y	73134Y
600	680	520	49	42	650	550	20	14,0	13,0	M12	30	16x	25,0	32	194	42,0	73135Y	73136Y	73137Y
620	710	530	53	45	670	570	20	14,0	13,0	M12	30	22x	29,0	75	330	56,9	66141A	66142A	66143A
640	730	550	53	45	690	590	20	14,0	13,0	M12	30	22x	29,0	76	341	58,8	66144A	66145A	66146A
660	750	570	53	45	710	610	20	14,0	13,0	M12	30	22x	29,0	77	351	60,7	66147A	66148A	66149A
680	770	590	53	45	730	630	20	14,0	13,0	M12	30	22x	29,0	78	361	62,5	66150A	66151A	66152A
700	790	610	53	45	750	650	20	14,0	13,0	M12	30	22x	29,0	79	371	64,4	66153A	66154A	66155A
720	810	630	53	45	770	670	20	14,0	13,0	M12	30	22x	29,0	80	385	66,3	66156A	66157A	66158A
740	830	650	53	45	790	690	20	14,0	13,0	M12	30	24x	29,0	81	396	68,0	66159A	66160A	66161A
760	850	670	53	45	810	710	20	14,0	13,0	M12	30	24x	29,0	81	406	69,9	66162A	66163A	66164A
780	870	690	53	45	830	730	20	14,0	13,0	M12	30	24x	29,0	82	416	71,8	66156A	66157A	66158A
800	900	700	60	52	865	735	26	18,0	17,5	M16	35	24x	33,0	104	497	93,9	66168A	66169A	66170A
820	920	720	60	52	885	755	26	18,0	17,5	M16	35	24x	33,0	106	513	96,3	66171A	66172A	66173A
840	940	740	60	52	905	775	26	18,0	17,5	M16	35	24x	33,0	106	523	98,7	66174A	66175A	66176A
860	960	760	60	52	925	795	26	18,0	17,5	M16	35	24x	33,0	107	534	101,1	66177A	66178A	66179A
880	980	780	60	52	945	815	26	18,0	17,5	M16	35	24x	33,0	108	549	103,5	66180A	66181A	66182A
900	1000	800	60	52	965	835	26	18,0	17,5	M16	35	24x	33,0	109	560	105,9	66183A	66184A	66185A
920	1020	820	60	52	985	855	26	18,0	17,5	M16	35	24x	33,0	110	575	108,4	66186A	66187A	66188A
940	1040	840	60	52	1005	875	26	18,0	17,5	M16	35	24x	33,0	111	586	110,8	66189A	66190A	66191A
960	1060	860	60	52	1025	895	26	18,0	17,5	M16	35	26x	33,0	112	596	113,0	66192A	66193A	66194A
980	1080	880	60	52	1045	915	26	18,0	17,5	M16	35	26x	33,0	113	612	115,4	66195A	66196A	66197A
1000	1100	900	60	52	1065	935	26	18,0	17,5	M16	35	26x	33,0	113	623	117,8	66198A	66199A	66200A
1100	1200	1000	60	52	1165	1035	26	18,0	17,5	M16	35	30x	33,0	115	664	129,6	66386A	66387A	66388A
1200	1300	1100	60	52	1265	1135	26	18,0	17,5	M16	35	30x	33,0	121	747	141,6	66389A	66390A	66391A
1300	1400	1200	60	52	1365	1235	26	18,0	17,5	M16	35	36x	33,0	124	799	153,1	66392A	66393A	

Bearing assemblies

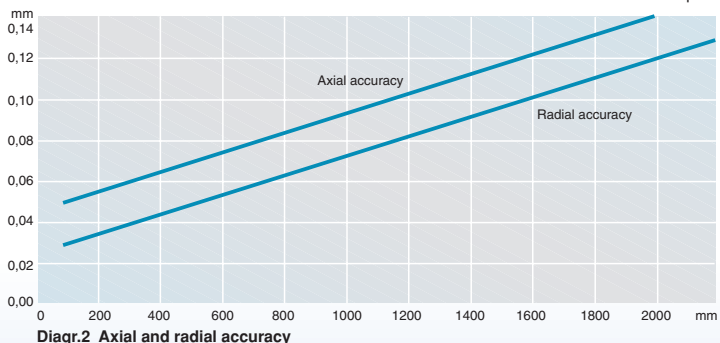
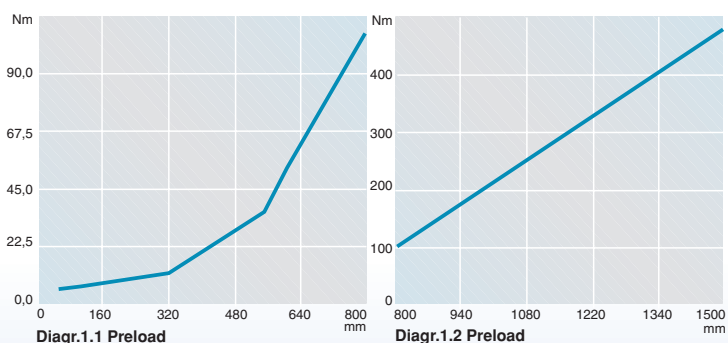
Series LDL Aluminium version



Intermediate diameters
on request

Diameter	Height		Fastening									Number	Load rating	Weight	Order number			
	KK	d1 [mm]	d2 [mm]	h1 [mm]	h2 [mm]	d3 [mm]	d4 [mm]	D [mm]	d [mm]	k1 [mm]	SD [mm]	t1 [mm]	a [Stück]	C [kN]	Co [kN]	[kg]	A	Bore shape B
100	150	50	30	24	135	65	11	6,6	6,8	M6	15	6x	17	25	1,00	66401L	66402L	66403L
150	200	100	30	24	185	115	11	6,6	6,8	M6	15	6x	18	40	1,48	73000L	73001L	73002L
160	210	110	30	24	195	125	11	6,6	6,8	M6	15	6x	18	43	1,60	73003L	73004L	73005L
170	220	120	30	24	205	135	11	6,6	6,8	M6	15	6x	19	46	1,68	73006L	73007L	73008L
180	230	130	30	24	215	145	11	6,6	6,8	M6	15	8x	19	49	1,80	73009L	73010L	73011L
190	240	140	30	24	225	155	11	6,6	6,8	M6	15	8x	20	51	1,88	73012L	73013L	73014L
200	250	150	30	24	235	165	11	6,6	6,8	M6	15	8x	20	54	2,00	73015L	73016L	73017L
210	260	160	30	24	245	175	11	6,6	6,8	M6	15	8x	21	57	2,08	73018L	73019L	73020L
220	270	170	30	24	255	185	11	6,6	6,8	M6	15	8x	21	60	2,20	73021L	73022L	73023L
230	290	170	34	27	270	190	15	9,0	9,0	M8	20	8x	24	64	2,96	73024L	73025L	73026L
240	300	180	34	27	280	200	15	9,0	9,0	M8	20	8x	24	67	3,12	73027L	73028L	73029L
250	310	190	34	27	290	210	15	9,0	9,0	M8	20	10x	25	70	3,23	73030L	73031L	73032L
260	320	200	34	27	300	220	15	9,0	9,0	M8	20	10x	25	73	3,38	73033L	73034L	73035L
270	330	210	34	27	310	230	15	9,0	9,0	M8	20	10x	25	76	3,50	73036L	73037L	73038L
280	340	220	34	27	320	240	15	9,0	9,0	M8	20	10x	26	78	3,62	73039L	73040L	73041L
290	350	230	34	27	330	250	15	9,0	9,0	M8	20	10x	26	82	3,77	73042L	73043L	73044L
300	360	240	38	31	340	260	15	9,0	9,0	M8	20	12x	27	84	4,46	73045L	73046L	73047L
310	370	250	38	31	350	270	15	9,0	9,0	M8	20	12x	27	87	4,62	73048L	73049L	73050L
320	380	260	38	31	360	280	15	9,0	9,0	M8	20	12x	27	90	4,77	73051L	73052L	73053L
330	390	270	38	31	370	290	15	9,0	9,0	M8	20	14x	28	93	4,92	73054L	73055L	73056L
340	400	280	38	31	380	300	15	9,0	9,0	M8	20	14x	28	96	5,08	73057L	73058L	73059L
350	410	290	38	31	390	310	15	9,0	9,0	M8	20	14x	28	98	5,19	73060L	73061L	73062L
360	420	300	38	31	400	320	15	9,0	9,0	M8	20	14x	28	101	5,35	73063L	73064L	73065L
370	430	310	38	31	410	330	15	9,0	9,0	M8	20	14x	29	105	5,50	73066L	73067L	73068L
380	440	320	38	31	420	340	15	9,0	9,0	M8	20	14x	29	107	5,65	73069L	73070L	73071L
390	450	330	38	31	430	350	15	9,0	9,0	M8	20	14x	29	110	5,81	73072L	73073L	73074L
400	470	330	44	37	445	355	18	11,0	11,0	M10	25	14x	28	128	8,00	73075L	73076L	73077L
410	480	340	44	37	455	365	18	11,0	11,0	M10	25	14x	28	133	8,19	73078L	73079L	73080L
420	490	350	44	37	465	375	18	11,0	11,0	M10	25	14x	28	136	8,41	73081L	73082L	73083L
430	500	360	44	37	475	385	18	11,0	11,0	M10	25	14x	29	139	8,59	73084L	73085L	73086L
440	510	370	44	37	485	395	18	11,0	11,0	M10	25	14x	29	142	8,78	73087L	73088L	73089L
450	520	380	44	37	495	405	18	11,0	11,0	M10	25	14x	29	144	9,00	73090L	73091L	73092L
460	530	390	44	37	505	415	18	11,0	11,0	M10	25	14x	29	149	9,19	73093L	73094L	73095L
470	540	400	44	37	515	425	18	11,0	11,0	M10	25	14x	29	152	9,41	73096L	73097L	73098L
480	550	410	44	37	525	435	18	11,0	11,0	M10	25	14x	30	155	9,59	73099L	73100L	73101L
490	560	420	44	37	535	445	18	11,0	11,0	M10	25	14x	30	158	9,78	73102L	73103L	73104L
500	580	420	49	42	550	450	20	14,0	13,0	M12	30	14x	30	162	12,96	73105L	73106L	73107L
510	590	430	49	42	560	460	20	14,0	13,0	M12	30	14x	30	165	13,22	73108L	73109L	73110L
520	600	440	49	42	570	470	20	14,0	13,0	M12	30	14x	31	168	13,48	73111L	73112L	73113L
530	610	450	49	42	580	480	20	14,0	13,0	M12	30	16x	31	171	13,74	73114L	73115L	73116L
540	620	460	49	42	590	490	20	14,0	13,0	M12	30	16x	31	175	14,00	73117L	73118L	73119L
550	630	470	49	42	600	500	20	14,0	13,0	M12	30	16x	31	178	14,26	73120L	73121L	73122L
560	640	480	49	42	610	510	20	14,0	13,0	M12	30	16x	31	181	14,52	73123L	73124L	73125L
570	650	490	49	42	620	520	20	14,0	13,0	M12	30	16x	32	184	14,78	73126L	73127L	73128L
580	660	500	49	42	630	530	20	14,0	13,0	M12	30	16x	32	188	15,04	73129L	73130L	73131L
590	670	510	49	42	640	540	20	14,0	13,0	M12	30	16x	32	191	15,30	73132L	73133L	73134L
600	680	520	49	42	650	550	20	14,0	13,0	M12	30	16x	32	194	15,56	73135L	73136L	73137L
620	710	530	53	45	670	570	20	14,0	13,0	M12	30	22x	75	330	21,07	66141L	66142L	66143L
640	730	550	53	45	690	590	20	14,0	13,0	M12	30	22x	76	341	21,78	66144L	66145L	66146L
660	750	570	53	45	710	610	20	14,0	13,0	M12	30	22x	77	351	22,48	66147L	66148L	66149L
680	770	590	53	45	730	630	20	14,0	13,0	M12	30	22x	78	361	23,15	66150L	66151L	66152L
700	790	610	53	45	750	650	20	14,0	13,0	M12	30	22x	79	371	23,85	66153L	66154L	66155L
720	810	630	53	45	770	670	20	14,0	13,0	M12	30	22x	80	385	24,56	66156L	66157L	66158L
740	830	650	53	45	790	690	20	14,0	13,0	M12	30	24x	81	396	25,19	66159L	66160L	66161L
760	850	670	53	45	810	710	20	14,0	13,0	M12	30	24x	81	406	25,89	66162L	66163L	66164L
780	870	690	53	45	830	730	20	14,0	13,0	M12	30	24x	82	416	26,59	66166L	66167L	66168L
800	900	700	60	52	865	735	26	18,0	17,5	M16	35	24x	104	497	36,12	66168L	66169L	66170L
820	920	720	60	52	885	755	26	18,0	17,5	M16	35	24x	106	513	37,04	66171L	66172L	66173L
840	940	740	60	52	905	775	26	18,0	17,5	M16	35	24x	106	523	37,96	66174L	66175L	66176L
860	960	760	60	52	925	795	26	18,0	17,5	M16	35	24x	107	534	38,88	66177L	66178L	66179L
880	980	780	60	52	945	815	26	18,0	17,5	M16	35	24x	108	549	39,81	66180L	66181L	66182L
900	1000	800	60	52	965	835	26	18,0	17,5	M16	35	24x	109	560	40,73	66183L	66184L	66185L
920	1020	820	60	52	985	855	26	18,0	17,5	M16	35	24x	110	575	41,69	66186L	66187L	66188L
940	1040	840	60	52	1005	875	26	1										

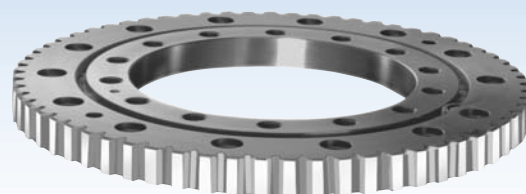
Other versions on request



Bearing assemblies

Series LDL with gear

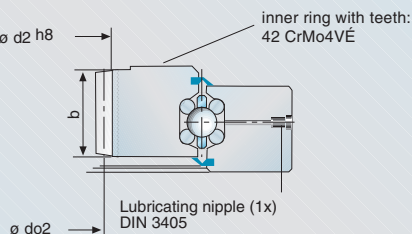
intermediate diameters
on request



KK	Wide Ø	Module b	Ball pitch m	Teeth number Z	Ø d2	Order number		
						Bore shape		
						A	B	C
100	19	2	40	20	50	66401W	66402W	66403W
150	19	2	90	45	100	73000W	73001W	73002W
160	19	2	100	50	110	73003W	73004W	73005W
170	19	2	110	55	120	73006W	73007W	73008W
180	19	2	120	60	130	73009W	73010W	73011W
190	19	2	130	65	140	73012W	73013W	73014W
200	19	2	140	70	150	73015W	73016W	73017W
210	19	2	150	75	160	73018W	73019W	73020W
220	19	2	160	80	170	73021W	73022W	73023W
230	22	2	160	80	170	73024W	73025W	73026W
240	22	2	170	85	180	73027W	73028W	73029W
250	22	2	180	90	190	73030W	73031W	73032W
260	22	2	190	95	200	73033W	73034W	73035W
270	22	2	200	100	210	73036W	73037W	73038W
280	22	2	210	105	220	73039W	73040W	73041W
290	22	2	220	110	230	73042W	73043W	73044W
300	26	3	228	76	240	73045W	73046W	73047W
310	26	3	237	79	250	73048W	73049W	73050W
320	26	3	249	83	260	73051W	73052W	73053W
330	26	3	258	86	270	73054W	73055W	73056W
340	26	3	264	88	280	73057W	73058W	73059W
350	26	3	276	92	290	73060W	73061W	73062W
360	26	3	288	96	300	73063W	73064W	73065W
370	26	3	297	99	310	73066W	73067W	73068W
380	26	3	306	102	320	73069W	73070W	73071W
390	26	3	318	106	330	73072W	73073W	73074W
400	32	3	318	106	330	73075W	73076W	73077W
410	32	3	324	108	340	73078W	73079W	73080W
420	32	3	336	112	350	73081W	73082W	73083W
430	32	3	348	116	360	73084W	73085W	73086W
440	32	3	357	119	370	73087W	73088W	73089W
450	32	3	366	122	380	73090W	73091W	73092W
460	32	3	378	126	390	73093W	73094W	73095W
470	32	3	387	129	400	73096W	73097W	73098W
480	32	3	396	123	410	73099W	73100W	73101W
490	32	3	408	136	420	73102W	73103W	73104W
500	35	3	408	136	420	73105W	73106W	73107W
510	35	3	414	138	430	73108W	73109W	73110W
520	35	3	426	142	440	73111W	73112W	73113W
530	35	3	438	146	450	73114W	73115W	73116W
540	35	3	444	148	460	73117W	73118W	73119W
550	35	3	456	152	470	73120W	73121W	73122W
560	35	3	468	156	480	73123W	73124W	73125W
570	35	3	477	159	490	73126W	73127W	73128W
580	35	3	486	162	500	73129W	73130W	73131W
590	35	3	498	166	510	73132W	73133W	73134W
600	35	3	507	169	520	73135W	73136W	73137W
620	38	4	512	128	530	66141W	66142W	66143W
640	38	4	532	133	550	66144W	66145W	66146W
660	38	4	552	138	570	66147W	66148W	66149W
680	38	4	572	143	590	66150W	66151W	66152W
700	38	4	592	148	610	66153W	66154W	66155W
720	38	4	612	153	630	66156W	66157W	66158W
740	38	4	632	158	650	66159W	66160W	66161W
760	38	4	648	162	670	66162W	66163W	66164W
780	38	4	672	168	690	66156W	66157W	66158W
800	45	5	680	136	700	66168W	66169W	66170W
820	45	5	700	140	720	66171W	66172W	66173W
840	45	5	720	144	740	66174W	66175W	66176W
860	45	5	740	148	760	66177W	66178W	66179W
880	45	5	760	152	780	66180W	66181W	66182W
900	45	5	780	156	800	66183W	66184W	66185W
920	45	5	800	160	820	66186W	66187W	66188W
940	45	5	820	164	840	66189W	66190W	66191W
960	45	5	840	168	860	66192W	66193W	66194W
980	45	5	860	172	880	66195W	66196W	66197W
1000	45	5	880	176	900	66198W	66199W	66200W
1100	45	5	980	196	1000	66386W	66387W	66388W
1200	45	5	1080	216	1100	66389W	66390W	66391W
1300	45	5	1180	236	1200	66392W	66393W	66394W
1400	45	5	1280	256	1300	66395W	66396W	66397W
1500	45	5	1380	276	1400	66398W	66399W	66400W

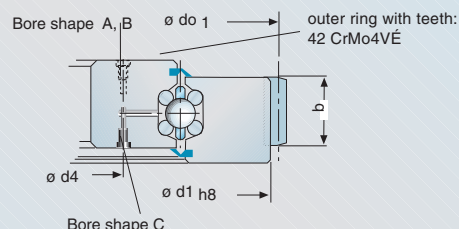
Other version on request

Teeth DIN 3967
quality 8e25
reference profile ϕ d2 h8
DIN 867



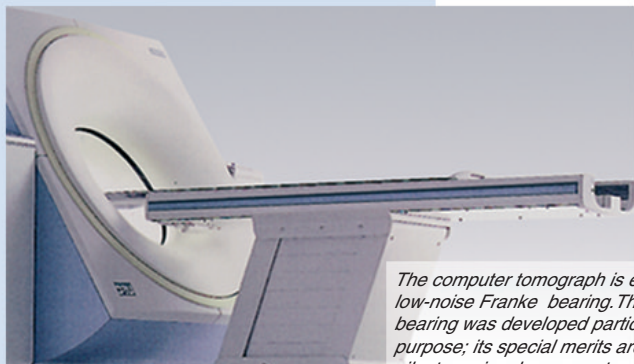
Inner gear

Teeth DIN 3967
quality 8e25
reference profile
DIN 867



Outer gear

Application examples antifriction bearings



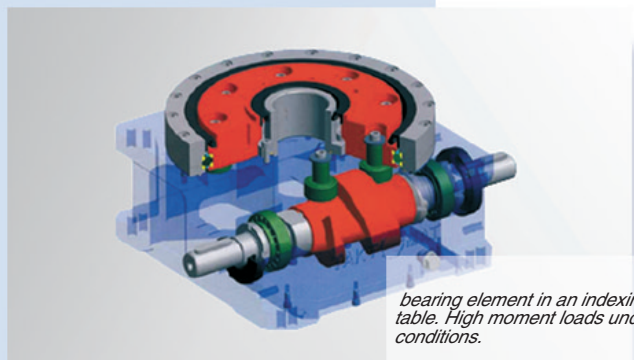
The computer tomograph is equipped with a low-noise Franke bearing. This patented bearing was developed particularly for this purpose; its special merits are very smooth and silent running, low current consumption, and high precision.

(Photo Siemens)



Circular knitting machine. bearing assembly has an excellent adaptability to changing thermal conditions, thus allowing high speeds with low energy consumption.

(Photo Mayer & Cie.)



bearing element in an indexing table. High moment loads under rough conditions.

(Photo Taktomat)

The special advantages of the bearings are the space saving design together with high load capacities for loads from whatever direction. The balls run on tough rings from spring steel which are embedded in the mating structure. Load capacity and running behaviour are therefore independent from the material of the mating structure, giving the designer a wide range of materials from which to choose.

Numerous series provide a wide selection range from the LowCost version to slim bearings and special solutions such as our angular ball bearings for CT-scanners.

