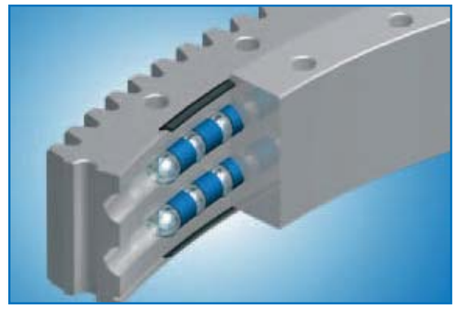
10.2 Kugeldrehverbindungen; 2-reihig, Achtpunktlager
10.2 Double-row ball slewing bearings



K 2 1 · 4 0 · 3 1 5 0 – Zeichnungsendnummer / – Drawing end number

Bauform/ Erzeugnis:	Laufbahn-form:	Verzahnung:	Wälzkörper – Ø:	Laufkreis – Ø:
K = KDV, Kugel-DV X = Kreuzrollen-DV R = RDV, Rollen-DV L = Leichtbauform, Flanschlager	1 = einreihig 2 = zweireihig 3 = dreireihig	0 = ohne 1 = außen gerade 2 = innen gerade 3 = außen schräg 4 = innen schräg	Kugel Ø Rollen Ø Angabe in mm	Angabe in mm
Build / Product:	**Raceway:**	**Gear:**	**Rolling element – Ø:**	**Raceway – Ø:**
K = ball slewing bearing X = crossed-roller slewing bearing R = roller slewing bearing L = light-weight flange bearing	1 = single-row 2 = double-row 3 = triple-row	0 = without gear 1 = outer straight gear 2 = inner straight gear 3 = outer helical gear 4 = inner helical gear	Ball diameter Ø Roller diameter Ø unit in mm	unit in mm

DV = Drehverbindung

Kugeldrehverbindungen; 2-reihig, Achtpunktlager
Double-row ball slewing bearings

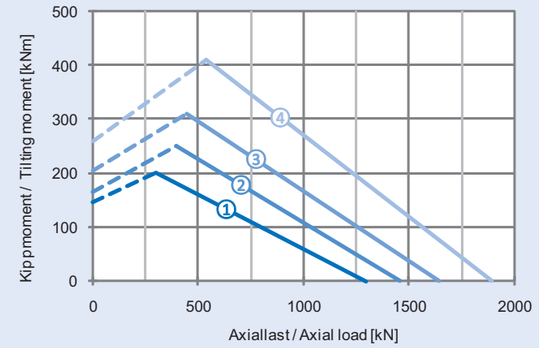
außenverzahnt - external gear

Typbezeichnung / Type designation	Abmessungen und Gewicht / Dimensions and weight								Befestigungsbohrungen / Fastening boreholes						Lagerspiel / Bearing play		Verzahnung und Zahnkräfte / Gear and gear tooth forces							
									Außenring / Outer ring			Innenring / Inner ring											
	Da	Di	H	H1	H2	O	U	G	La	na	B	Li	ni	b	axial	radial	do	m	z	x	fz norm	fz max	n1	Kurve / Curve
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	[mm]	[-]	[mm]	[mm]	[-]	[mm]	[mm]	[mm]	[mm]	[mm]	[-]	[-]	[kN]	[kN]	[-]	
K21.20.0800	916,8	707	85	76	76	799	801	143	853	24	17,5	747	24	17,5	-	-	900	6	150	0,5	44	88	2	**1**
K21.20.1000	1126,4	907	85	76	76	999	1001	180	1053	30	17,5	947	30	17,5	-	-	1104	8	138	0,5	59	118	2	**2**
K21.20.1200	1326,4	1107	85	76	76	1199	1201	212	1253	48	17,5	1147	48	17,5	-	-	1304	8	163	0,5	59	118	3	**3**
K21.20.1400	1526,4	1307	85	76	76	1399	1401	247	1453	54	17,5	1347	54	17,5	-	-	1504	8	188	0,5	59	118	4	**4**

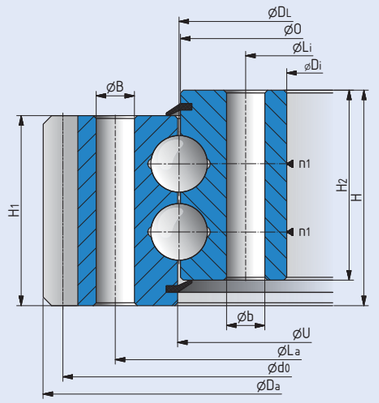
innenverzahnt - internal gear

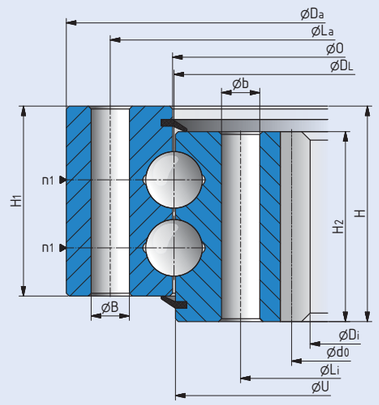
Typbezeichnung / Type designation	Da	Di	H	H1	H2	O	U	G	La	na	B	Li	ni	b	axial	radial	do	m	z	x	fz norm	fz max	n1	Kurve / Curve
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	[mm]	[-]	[mm]	[mm]	[-]	[mm]	[mm]	[mm]	[mm]	[mm]	[-]	[-]	[kN]	[kN]	[-]	
K22.20.0800	893	690	85	76	76	801	799	133	853	24	17,5	747	24	17,5	-	-	696	6	116	-0,5	44	88	2	**1**
K22.20.1000	1093	872	85	76	76	1001	999	178	1053	30	17,5	947	30	17,5	-	-	880	8	110	-0,5	59	118	2	**2**
K22.20.1200	1293	1072	85	76	76	1201	1199	210	1253	48	17,5	1147	48	17,5	-	-	1080	8	135	-0,5	59	118	3	**3**
K22.20.1400	1493	1272	85	76	76	1401	1399	246	1453	54	17,5	1347	54	17,5	-	-	1280	8	160	-0,5	59	118	4	**4**

Grenzlastdiagramm · Statische Tragfähigkeit
Limit load diagram · Static load capacity



Schraubenkurve · Bolt Curve
Laufbahnkurve · Raceway Curve





Kugeldrehverbindungen; 2-reihig, Achtpunktlager
Double-row ball slewing bearings

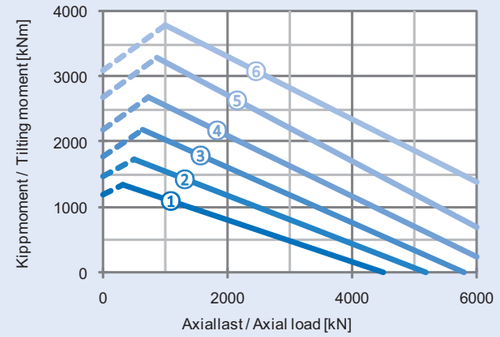
außenverzahnt - external gear

Typbezeichnung / Type designation	Da	Di	H	H1	H2	O	U	G	La	na	B	Li	ni	b	axial	radial	do	m	z	x	fz norm	fz max	n1	Kurve / Curve
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	[mm]	[-]	[mm]	[mm]	[-]	[mm]	[mm]	[mm]	[mm]	[mm]	[-]	[-]	[kN]	[kN]	[-]	
K21.30.1300	1485,6	1171	119	110	110	1298	1302	474	1372	36	26	1228	36	26	-	-	1452	12	121	0,5	120	240	4	**1**
K21.30.1500	1689,6	1371	119	110	110	1498	1502	556	1572	40	26	1428	40	26	-	-	1656	12	138	0,5	120	240	4	**2**
K21.30.1700	1893,6	1571	119	110	110	1698	1702	641	1772	44	26	1628	44	26	-	-	1860	12	155	0,5	120	240	4	**3**
K21.30.1900	2085,6	1771	119	110	110	1898	1902	694	1972	48	26	1828	48	26	-	-	2052	12	171	0,5	120	240	4	**4**
K21.30.2100	2289,6	1971	119	110	110	2098	2102	780	2172	52	26	2028	52	26	-	-	2256	12	188	0,5	120	240	4	**5**
K21.30.2300	2493,6	2171	119	110	110	2198	2302	867	2372	56	26	2228	56	26	-	-	2460	12	205	0,5	120	240	4	**6**

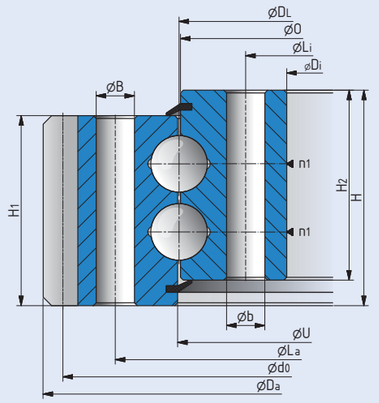
innenverzahnt - internal gear

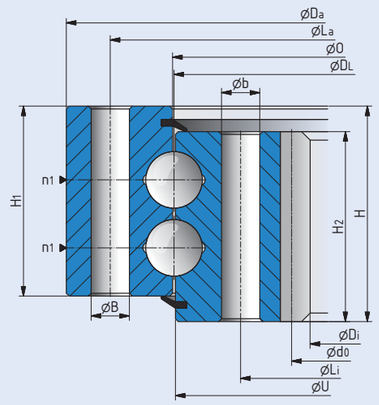
Typbezeichnung / Type designation	Da	Di	H	H1	H2	O	U	G	La	na	B	Li	ni	b	axial	radial	do	m	z	x	fz norm	fz max	n1	Kurve / Curve
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	[mm]	[-]	[mm]	[mm]	[-]	[mm]	[mm]	[mm]	[mm]	[mm]	[-]	[-]	[kN]	[kN]	[-]	
K22.30.1300	1429	1104	119	110	110	1302	1298	477	1372	36	26	1228	36	26	-	-	1116	12	93	-0,5	120	240	4	**1**
K22.30.1500	1629	1308	119	110	110	1502	1498	546	1572	40	26	1428	40	26	-	-	1320	12	110	-0,5	120	240	4	**2**
K22.30.1700	1829	1512	119	110	110	1702	1698	613	1772	44	26	1628	44	26	-	-	1524	12	127	-0,5	120	240	4	**3**
K22.30.1900	2029	1704	119	110	110	1902	1898	706	1972	48	26	1828	48	26	-	-	1716	12	143	-0,5	120	240	4	**4**
K22.30.2100	2229	1908	119	110	110	2102	2098	771	2172	52	26	2028	52	26	-	-	1920	12	160	-0,5	120	240	4	**5**
K22.30.2300	2429	2112	119	110	110	2302	2198	835	2372	56	26	2228	56	26	-	-	2124	12	177	-0,5	120	240	4	**6**

Grenzlastdiagramm · Statische Tragfähigkeit
Limit load diagram · Static load capacity



Schraubenkurve · Bolt Curve
Laufbahnkurve · Raceway Curve





Kugeldrehverbindungen; 2-reihig, Achtpunktlager
Double-row ball slewing bearings

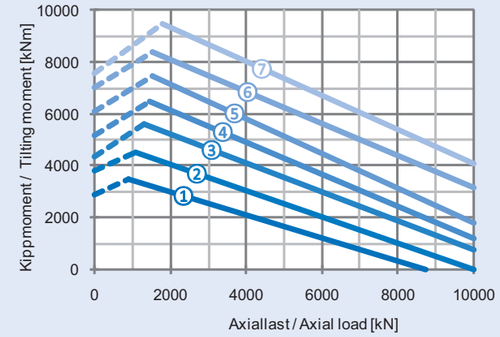
außenverzahnt - external gear

Typbezeichnung / Type designation	Abmessungen und Gewicht / Dimensions and weight								Befestigungsbohrungen / Fastening boreholes						Lagerspiel / Bearing play		Verzahnung und Zahnkräfte / Gear and gear tooth forces							
									Außenring / Outer ring			Innenring / Inner ring											
	Da	Di	H	H1	H2	O	U	G	La	na	B	Li	ni	b	axial	radial	do	m	z	x	fz norm	fz max	n1	Kurve / Curve
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	[mm]	[-]	[mm]	[mm]	[-]	[mm]	[mm]	[mm]	[mm]	[mm]	[-]	[-]	[kN]	[kN]	[-]	
K21.40.1900	2140,8	1731	152	143	143	1898	1902	1172	1993	40	33	1807	40	33	-	-	2096	16	131	0,5	198	396	4	**1**
K21.40.2100	2332,8	1931	152	143	143	2098	2102	1262	2193	44	33	2007	44	33	-	-	2288	16	143	0,5	198	396	4	**2**
K21.40.2300	2540,8	2131	152	143	143	2298	2302	1417	2393	48	33	2207	48	33	-	-	2496	16	156	0,5	198	396	4	**3**
K21.40.2500	2732,8	2331	152	143	143	2498	2502	1501	2593	52	33	2407	52	33	-	-	2688	16	168	0,5	198	396	6	**4**
K21.40.2700	2948,4	2531	152	143	143	2698	2702	1680	2793	56	33	2607	56	33	-	-	2898	18	161	0,5	223	446	6	**5**
K21.40.2900	3164,4	2731	152	143	143	2898	2902	1892	2993	60	33	2807	60	33	-	-	3114	18	173	0,5	223	446	6	**6**
K21.40.3100	3362,4	2931	152	143	143	3098	3102	2009	3193	64	33	3007	64	33	-	-	3312	18	184	0,5	223	446	6	**7**

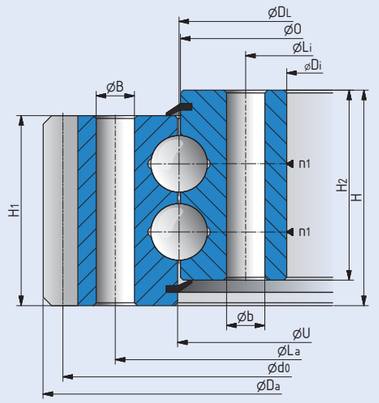
innenverzahnt - internal gear

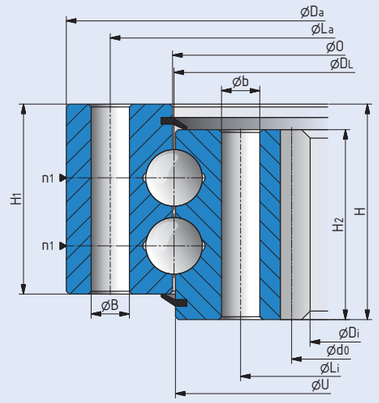
Typbezeichnung / Type designation	Da	Di	H	H1	H2	O	U	G	La	na	B	Li	ni	b	axial	radial	do	m	z	x	fz norm	fz max	n1	Kurve / Curve
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	[mm]	[-]	[mm]	[mm]	[-]	[mm]	[mm]	[mm]	[mm]	[mm]	[-]	[-]	[kN]	[kN]	[-]	
K22.40.1900	2069	1648	152	143	143	1902	1898	1179	1993	40	33	1807	40	33	-	-	1664	16	104	-0,5	198	396	4	**1**
K22.40.2100	2269	1856	152	143	143	2102	2098	1278	2193	44	33	2007	44	33	-	-	1872	16	117	-0,5	198	396	4	**2**
K22.40.2300	2469	2048	152	143	143	2302	2298	1431	2393	48	33	2207	48	33	-	-	2064	16	129	-0,5	198	396	4	**3**
K22.40.2500	2669	2256	152	143	143	2502	2498	1525	2593	52	33	2407	52	33	-	-	2272	16	142	-0,5	198	396	6	**4**
K22.40.2700	2869	2448	152	143	143	2702	2698	1666	2793	56	33	2607	56	33	-	-	2466	18	137	-0,5	223	446	6	**5**
K22.40.2900	3069	2646	152	143	143	2902	2898	1801	2993	60	33	2807	60	33	-	-	2664	18	148	-0,5	223	446	6	**6**
K22.40.3100	3269	2844	152	143	143	3102	3098	1937	3193	64	33	3007	64	33	-	-	2862	18	159	-0,5	223	446	6	**7**

Grenzlastdiagramm · Statische Tragfähigkeit
Limit load diagram · Static load capacity



Schraubenkurve · Bolt Curve
Laufbahnkurve · Raceway Curve





Kugeldrehverbindungen; 2-reihig, Achtpunktlager
Double-row ball slewing bearings

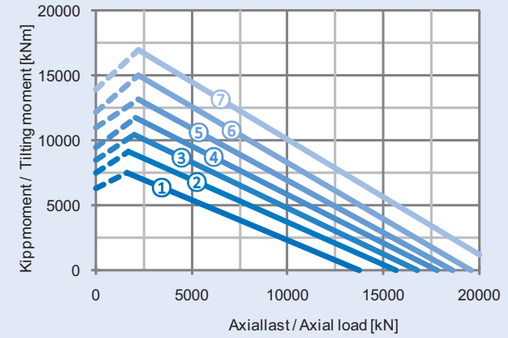
außenverzahnt - external gear

Typbezeichnung / Type designation	Abmessungen und Gewicht / Dimensions and weight								Befestigungsbohrungen / Fastening boreholes						Lagerspiel / Bearing play		Verzahnung und Zahnkräfte / Gear and gear tooth forces								Kurve / Curve
									Außenring / Outer ring			Innenring / Inner ring												
	Da	Di	H	H1	H2	O	U	G	La	na	B	Li	ni	b	axial	radial	do	m	z	x	fz norm	fz max	n1	
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	[mm]	[-]	[mm]	[mm]	[-]	[mm]	[mm]	[mm]	[mm]	[mm]	[-]	[-]	[kN]	[kN]	[-]	
K21.50.2700	2966,4	2521	186	177	177	2698	2702	2226	2803	60	33	2597	60	33	-	-	2916	18	162	0,5	305	610	6	**1**
K21.50.2900	3164,4	2721	186	177	177	2898	2902	2386	3003	60	33	2797	60	33	-	-	3114	18	173	0,5	305	610	6	**2**
K21.50.3100	3362,4	2921	186	177	177	3098	3102	2531	3203	66	33	2997	66	33	-	-	3312	18	184	0,5	305	610	6	**3**
K21.50.3300	3560,4	3121	186	177	177	3298	3302	2673	3403	72	33	3197	72	33	-	-	3510	18	195	0,5	305	610	6	**4**
K21.50.3500	3776,0	3321	186	177	177	3498	3502	2924	3603	78	33	3397	78	33	-	-	3720	20	186	0,5	342	684	6	**5**
K21.50.3700	3976,0	3521	186	177	177	3698	3702	3086	3803	84	33	3597	84	33	-	-	3920	20	196	0,5	342	684	6	**6**
K21.50.3900	4176,0	3721	186	177	177	3898	3902	3248	4003	90	33	3797	90	33	-	-	4120	20	206	0,5	342	684	6	**7**

innenverzahnt - internal gear

Typbezeichnung / Type designation	Da	Di	H	H1	H2	O	U	G	La	na	B	Li	ni	b	axial	radial	do	m	z	x	fz norm	fz max	n1	Kurve / Curve
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	[mm]	[-]	[mm]	[mm]	[-]	[mm]	[mm]	[mm]	[mm]	[mm]	[-]	[-]	[kN]	[kN]	[-]	
K22.50.2700	2879	2430	186	177	177	2702	2698	2200	2803	60	33	2597	60	33	-	-	2448	18	136	-0,5	305	610	6	**1**
K22.50.2900	3079	2628	186	177	177	2902	2898	2387	3003	60	33	2797	60	33	-	-	2646	18	147	-0,5	305	610	6	**2**
K22.50.3100	3279	2826	186	177	177	3102	3098	2561	3203	66	33	2997	66	33	-	-	2844	18	158	-0,5	305	610	6	**3**
K22.50.3300	3479	3024	186	177	177	3302	3298	2737	3403	72	33	3197	72	33	-	-	3042	18	169	-0,5	305	610	6	**4**
K22.50.3500	3679	3220	186	177	177	3502	3498	2901	3603	78	33	3397	78	33	-	-	3240	20	162	-0,5	342	684	6	**5**
K22.50.3700	3879	3420	186	177	177	3702	3698	3065	3803	84	33	3597	84	33	-	-	3440	20	172	-0,5	342	684	6	**6**
K22.50.3900	4079	3620	186	177	177	3902	3898	3229	4003	90	33	3797	90	33	-	-	3660	20	182	-0,5	342	684	6	**7**

Grenzlastdiagramm · Statische Tragfähigkeit
Limit load diagram · Static load capacity



Schraubenkurve · Bolt Curve
Laufbahnkurve · Raceway Curve