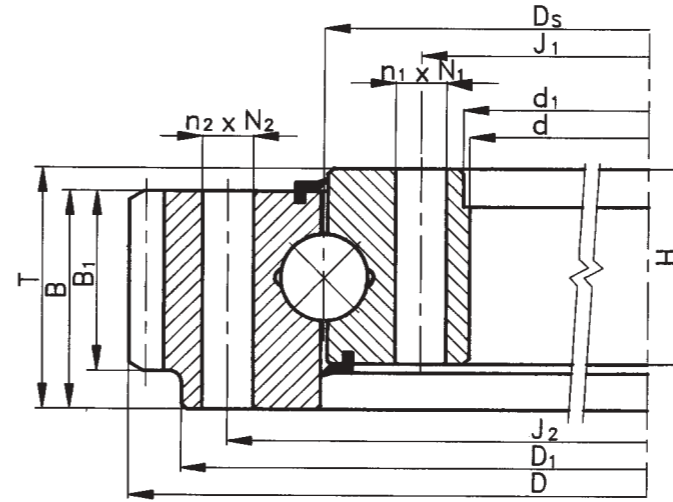


FOUR-POINT CONTACT BALL SLEWING RINGS

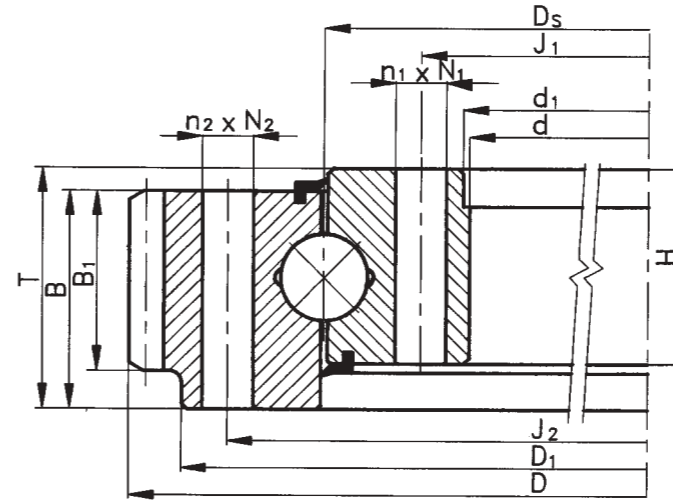
-with external gear [E]



Number of the Loading Curve	Boundary Dimensions			Static Ax. Basic Load Rating C _{0a}	Designation	Weight G	Abutment Dimensions				Other Specifications										Permissible circumferencial force		Note No	Notes
	d	D	T				J ₁	J ₂	N ₁	N ₂	n ₁	n ₂	d ₁	D ₁	H	B	B ₁	m(DP)	z	x	F _{TDov}	F _{TmaxDov}		
	[mm]	[mm]	[mm]	[kN]		[kg]	[mm]														[kN]			
28	145	316.58	50	440	9E-1B20-0221-0493	16.5	175	270	5/8-11 UNC	5/8-11 UNC	16	16	-	-	44	44	44	(5)	60	-	16	33	1	1 Right-hand helical gear $\alpha = 20^\circ$; $\beta = 6^\circ$
29	145	316.6	50	440	9E-1B20-0223-0201	16.5	175	270	5/8-11 UNC	5/8-11 UNC	15	16	-	-	44	44	44	5	61	-	16	32	2; 3	2 Right-hand helical gear $\alpha = 14^\circ30'$; $\beta = 6^\circ$
30	145	316.6	50	440	9E-1B20-0223-0282	16.5	175	270	5/8-11 UNC	5/8-11 UNC	15	16	-	-	44	44	44	5	61	-	16	32	2; 3	3 Fixing holes on inner ring are divided on the circumference with spacing a' 360°/16
31	145	312	50	440	9E-1B20-0223-0287	16.5	175	270	5/8-11 UNC	5/8-11 UNC	15	16	-	-	44	44	44	(5/7)	60	-	19	39	3; 4	4 Gear Fellows Stub $\alpha = 20^\circ$
32	171	318.6	40	441	9E-1B17-0235-0182	13	195	275	13	13	12	12	173	-	35	35	35	4	78	-	10	20		5 Fixing holes on inner ring are divided on the circumference with spacing a' 360°/28
33	235	403.5	55	742	9E-1B22-0308-0443	23.5	259	358	13	13	27	30	-	330	46	46	42	5	79	-	16	32	5; 6	6 Centering diameter is on the opposite bearing face
34	263.5	434.08	50	849	9E-1B22-0344-0396	29	295	390	5/8-11 UNC	5/8-11 UNC	23	18	-	-	44	44	44	(5/7)	84	-	20	41	4; 7	7 Fixing holes on inner ring are divided on the circumference with spacing a' 360°/24
35	265	433.5	50	714	9E-1B20-0345-0273	25.5	295	390	5/8-11 UNC	5/8-11 UNC	24	18	-	-	43	43	43	(5/7)	84	-	20	40	4	8 Gear Involute Stub $\alpha = 20^\circ$
36	265	433.5	50	714	9E-1B20-0345-0286	25.5	295	390	5/8-11 UNC	17	24	18	-	-	43	43	43	(5/7)	84	-	20	40	4	9 Non-through tapped fixing holes on both rings
37	265	433.9	50	714	9E-1B20-0343-0311	28.5	295	390	14	1/2-13 UNC	8	9	-	-	44	44	44	(5/7)	84	-	20	41	4	10 Gear Fellow Stub Tooth System Special-Full Fillet Radius $\alpha = 20^\circ$
38	265	437.34	50	708	9E-1B20-0343-0492	25.5	295	390	5/8-11 UNC	5/8-11 UNC	24	18	-	-	44	44	44	5	85	-	17	34	2	11 Fixing holes on inner ring are divided on the circumference with spacing a' 360°/36
39	323.7	520.3	54	1140	9E-1B25-0422-0354	46	365.1	479.4	5/8-11 UNC	5/8-11 UNC	20	20	-	-	52.3	52.3	52.3	(5/7)	101	-	25	51	4	12 Fixing holes on inner ring are recessed on $\varnothing 50$ into the depth of 6.35
40	323.7	537.21	57.15	1140	9E-1B25-0422-0477	47	365.1	479.425	20.65	3/4-10 UNC	16	18	-	-	50.8	50.8	50.8	(4)	83	-	24	49	8; 9	13 Non-through tapped fixing holes on outer ring
41	323.85	520.14	54.1	1140	9E-1B25-0422-0481	46	365.125	479.425	5/8-11 UNC	5/8-11 UNC	20	20	-	-	52.3	52.3	52.3	(5/7)	101	-	25	51	9; 10	14 Fixing holes on both rings ring are recessed on $\varnothing 30$ into the depth of 19.1
42	324	527.8	60	1043	9E-1B22-0422-0516	48	365	479.4	M16	M16	20	20	-	-	51	51	51	5	103	-	20	41	2; 9	15 Gear Agma Stub $\alpha = 20^\circ$
43	383	589.5	75	1646	9E-1B32-0475-0470	58.5	410	540	16	16	35	36	384	565	63	60	52	4.5	129	-	12	24	11	16 Fixing holes on inner ring are divided on the circumference with spacing a' 360°/30 (two places a' 180° are not occupied)
44	428.75	721.36	104.65	2778	9E-1B45-0572-0522	166	473.075	644.525	24	3/4-10 UNC	23	24	431.8	692.15	87.38	98.55	82.55	(4)	112	-	41	83	7; 8; 12; 13	17 Fixing holes on inner ring are recessed on $\varnothing 21$ into the depth of 11.5
45	431.8	721.36	88.9	2470	9E-1B40-0559-0390	141	473.075	644.525	20.6	20	23	18	-	-	81	81	81	(4)	112	-	49	98	7; 14; 15	18 Fixing holes on inner ring are divided on the circumference with spacing a' 360°/30
46	431.8	721.36	87	2470	9E-1B40-0559-0457	138	472.948	644.525	20	20	28	24	-	-	82	82	82	(4)	112	-	41	83	8; 14; 16	19 Fixing holes on inner ring are divided on the circumference with spacing a' 360°/40
47	545	765.4	68	1785	9E-1B25-0640-0150	84	580	700	17.5	M16	24	24	-	-	53	59	59	8	92	+1	45	91	13	20 Fixing holes on outer ring are recessed on $\varnothing 41.3$ into the depth of 28.6
48	552.45	816	123.9	2434	9E-1B32-0678-0430	167	604.012	753	20.5	20.5	35	36	-	786	92	92	82.5	6	132	+1.0922	57	114	11	21 Gear Involute Stub-Full Fillet radius $\alpha = 20^\circ$
49	556	742.3	53.5	1382	9E-1B20-0644-0208	51	595	685	13.5	M12	44	44	-	-	44.5	44.5	44.5	6	122	-	21	42	17	22 Fixing holes on inner ring are divided on the circumference with spacing a' 360°/52
50	667	888	69	2122	9E-1B25-0762-0321	107	703	819	17.5	M16	32	32	-	-	57	60	60	8	108	+0.6	56	111	13	23 Fixing holes on both rings ring are recessed on $\varnothing 34$ into the depth of 16
51	714.37	981.71	125.4	4275	9E-1B45-0857-0407	261	762	908.05	7/8-14 UNC	7/8-14 UNC	24	20	720.725	952.5	98.55	122.25	88.9	(4/5)	153	-	65	130	4; 9	
52	717.55	981.71	124.97	4275	9E-1B45-0854-0343	253	762	908.05	28.575	1-8 UNC	29	24	720.85	952.5	95.25	115.06	83.06	(4/5)	153	-	60	121	4; 13; 18	
53	717.55	981.71	124.97	4275	9E-1B45-0854-0343-1	250	762	908.05	1-8 UNC	1-8 UNC	35	36	720.85	952.5	95.25	115.06	83.06	(4/5)	153	-	60	121	4; 9; 11	
54	730	1006.6	98	3385	9E-1B35-0845-0476	196	770	920	M20	M20	20	20	-	965	79	80	70	8	122	+1	64	129		
55	778	1102	80	4141	9E-1B40-0910-0345	205	830	990	26	26	39	40	780	-	72	72	72	12	89	+0.5	100	200	19	
56	806.45	1155.7	125.5	4802	9E-1B45-0947-0484	371	854.456	1038.86	11/8 - 12 UNC	27.5	29	30	812.8	1089.66	98.6	122.25	88.9	(2)	89	-	106	212	18; 20	
57	812.8	1072.9	92.2	3355	9E-1B32-0924-0503	195	850.9	993.775	3/4-16 UNF	3/4-16 UNF	36	36	-	1030.22	68.33	82.55	76.2	(2.5)	104	-	74	148	21	
58	885	1173.6	82	3662	9E-1B32-1000-0223	195	929	1070	22	22	51	52	-	-	68	68	68	12	95	+0.5	78	157	22	
59	889	1082.8	82	2768	9E-1B25-0984-0451	140	922.02	1014.98	17.5	5/8-11 UNC	30	30	-	-	74.7	73.7	73.7	(2.5)	105	-	71	143	13	
60	955	1324	137	5597	9E-1B45-1105-0329	480	1010	1200	26	M24	42	42	960	1260	117	122	100	14	91	+0.93	154	308	13	

FOUR-POINT CONTACT BALL SLEWING RINGS

-with external gear [E]
(continued)



Number of the Loading Curve	Boundary Dimensions			Static Ax. Basic Load Rating C_{0a}	Designation	Weight G	Abutment Dimensions					Other Specifications										Permissible circumferencial force		Note No	Notes
	d	D	T				J ₁	J ₂	N ₁	N ₂	n ₁	n ₂	d ₁	D ₁	H	B	B ₁	m(DP)	z	x	F _{TmaxDov}	F _{TDov}			
	[mm]			[kN]		[kg]	[mm]					[mm]										[kN]			
61	991.36	1396.746	120.65	7462	9E-1B57-1165-0388	538	1050.925	1276.35	33	33	35	27	-	1331.98	111.25	111.25	101.6	(2)	108	-	103	206	11	1 Right-hand helical gear $\alpha = 20^\circ$; $\beta = 6^\circ$	
62	1020	1268	90	3858	9E-1B30-1122-0455	212	1058	1185	17	M16	40	40	-	-	62	80	80	10	123	+0.9	77	154	13	2 Right-hand helical gear $\alpha = 14^\circ30'$; $\beta = 6^\circ$	
63	1057.15	1391.92	155.45	7887	9E-1B57-1223-0344	553	1120.775	1282.7	11/4 - 7 UNC	11/4 - 7 UNC	24	24	1060.45	1339.85	117.35	146.05	101.6	(2)	108	-	123	247	9; 15	3 Fixing holes on inner ring are divided on the circumference with spacing a' 360°/16	
64	1063.75	1366.5	130.05	6211	9E-1B45-1209-0468	400	1114.425	1257.3	1-8 UNC	1-8 UNC	35	30	1069.85	1314.45	104.65	114.3	76.2	(2)	106	-	77	154	8; 9	4 Gear Fellows Stub $\alpha = 20^\circ$	
65	1079.5	1450.34	114.3	6909	9E-1B50-1224-0370	495	1127.125	1320.8	27	27	35	28	1082.55	1365.25	101.6	114.3	101.6	(1.5)	84	-	120	240	11	5 Fixing holes on inner ring are divided on the circumference with spacing a' 360°/28	
66	1092.2	1377.7	101.6	5535	9E-1B40-1213-0433	335	1135.13	1290.07	23.8	23.8	36	36	-	1330.45	88.9	85.9	82.6	(2.5)	134	-	74	148	15	6 Centering diameter is on the opposite bearing face	
67	1095	1380	110	5535	9E-1B40-1212-0478	348	1135	1290	23	23	36	36	1100	1330	101	101	93	10	136	-	74	148	23	7 Fixing holes on inner ring are divided on the circumference with spacing a' 360°/24	
68	1680	2028	120	8461	9E-1B40-1830-0521	620	1745	1915	30	30	48	48	-	-	100	90	90	10	200	+0.4	72	144	8 Gear Involute Stub $\alpha = 20^\circ$		
																								9 Non-through tapped fixing holes on both rings	
																								10 Gear Fellow Stub Tooth System Special-Full Fillet Radius $\alpha = 20^\circ$	
																								11 Fixing holes on inner ring are divided on the circumference with spacing a' 360°/36	
																								12 Fixing holes on inner ring are recessed on $\varnothing 50$ into the depth of 6.35	
																								13 Non-through tapped fixing holes on outer ring	
																								14 Fixing holes on both rings ring are recessed on $\varnothing 30$ into the depth of 19.1	
																								15 Gear Agma Stub $\alpha = 20^\circ$	
																								16 Fixing holes on inner ring are divided on the circumference with spacing a' 360°/30 (two places a' 180° are not occupied)	
																								17 Fixing holes on inner ring are recessed on $\varnothing 21$ into the depth of 11.5	
																								18 Fixing holes on inner ring are divided on the circumference with spacing a' 360°/30	
																								19 Fixing holes on inner ring are divided on the circumference with spacing a' 360°/40	
																								20 Fixing holes on outer ring are recessed on $\varnothing 41.3$ into the depth of 28.6	
																								21 Gear Involute Stub-Full Fillet radius $\alpha = 20^\circ$	
																								22 Fixing holes on inner ring are divided on the circumference with spacing a' 360°/52	
																								23 Fixing holes on both rings ring are recessed on $\varnothing 34$ into the depth of 16	