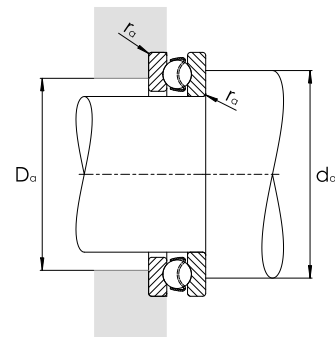
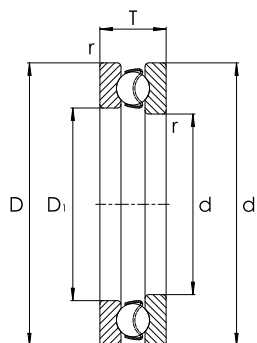


Axial-Rillenkugellager, einseitig wirkend, Reihe 51



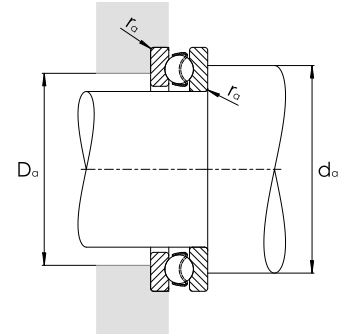
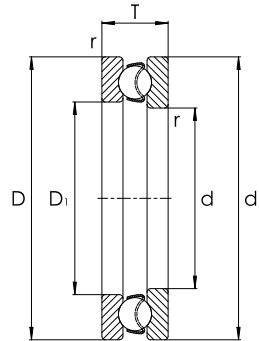
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Anschlussmaße

Maßtabelle - Abmessungen in mm

Haupt- abmessungen			Tragzahlen		Ermüdungs- grenzbelastung	Minimal- lastfaktor	Grenzdrehzahl	Bezugsdrehzahl	Gewicht		Kurzzeichen			
			dyn.	stat.					Lager	Unterleg- scheibe	Lager	Unterleg- scheibe		
d	D	T	C _a kN	C _{0a} kN	C _{0a} kN	A	n _G min ⁻¹	n _B min ⁻¹	≈ kg	≈ kg				
10	24	9	10,0	14,0	0,62	0,001	12.700	19.200	0,018	–	51100			–
12	26	9	10,3	15,4	0,69	0,001	13.100	16.900	0,021	–	51101			–
15	28	9	10,5	16,8	0,75	0,002	13.100	14.000	0,027	–	51102			–
17	30	9	11,3	19,6	0,87	0,002	12.900	12.500	0,028	–	51103			–
20	35	10	15,0	26,5	1,18	0,004	10.900	11.100	0,040	–	51104			–
25	42	11	18,1	35,5	1,57	0,006	9.700	9.500	0,055	–	51105			–
30	47	11	18,8	40,0	1,77	0,008	9.300	8.100	0,063	–	51106			–
35	52	12	20,0	46,5	2,06	0,011	8.800	6.800	0,089	–	51107			–
40	60	13	25,5	62,0	2,75	0,020	7.400	6.400	0,114	–	51108			–
45	65	14	26,5	69,0	3,05	0,025	7.100	5.800	0,087	–	51109			–
50	70	14	27,0	75,0	3,30	0,029	6.800	5.200	0,151	–	51110			–
55	78	16	30,5	75,0	3,30	0,036	6.100	5.200	0,208	–	51111			–
60	85	17	41,5	113,0	5,00	0,065	5.500	4.650	0,278	–	51112			–
65	90	18	38,5	100,0	4,40	0,063	5.300	4.450	0,300	–	51113			–
70	95	18	40,0	110,0	4,85	0,074	5.100	4.100	0,352	–	51114			–
75	100	19	44,5	123,0	5,50	0,093	4.800	3.800	0,365	–	51115			–

Axial-Rillenkugellager, einseitig wirkend, Reihe 51

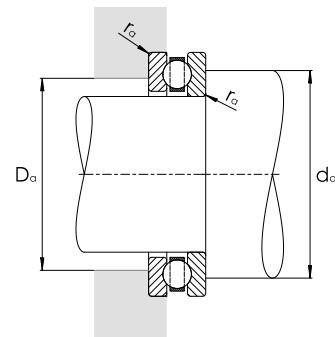
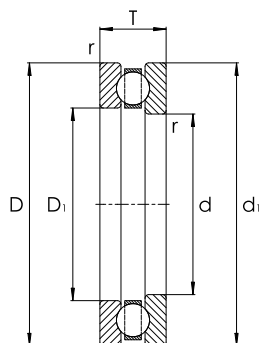


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Anschlussmaße

Abmessungen									Anschlussmaße			
d	D ₁	d ₁	r min.	R	A	D ₂	D ₃	C	T ₁	d _a min.	D _a max.	r _a max.
10	11	24	0,3	–	–	–	–	–	–	18	16	0,3
12	13	26	0,3	–	–	–	–	–	–	20	18	0,3
15	16	28	0,3	–	–	–	–	–	–	23	20	0,3
17	18	30	0,3	–	–	–	–	–	–	25	22	0,3
20	21	35	0,3	–	–	–	–	–	–	29	26	0,3
25	26	42	0,6	–	–	–	–	–	–	35	32	0,6
30	32	47	0,6	–	–	–	–	–	–	40	37	0,6
35	37	52	0,6	–	–	–	–	–	–	45	42	0,6
40	42	60	0,6	–	–	–	–	–	–	52	48	0,6
45	47	65	0,6	–	–	–	–	–	–	57	53	0,6
50	52	70	0,6	–	–	–	–	–	–	62	58	0,6
55	57	78	0,6	–	–	–	–	–	–	69	64	0,6
60	62	85	1,0	–	–	–	–	–	–	75	70	1,0
65	67	90	1,0	–	–	–	–	–	–	80	75	1,0
70	72	95	1,0	–	–	–	–	–	–	85	80	1,0
75	77	100	1,0	–	–	–	–	–	–	90	85	1,0

Axial-Rillenkugellager, einseitig wirkend, Reihe 51



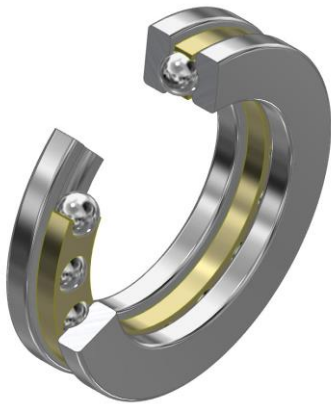
511...M

Anschlussmaße

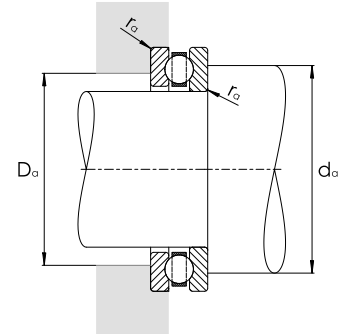
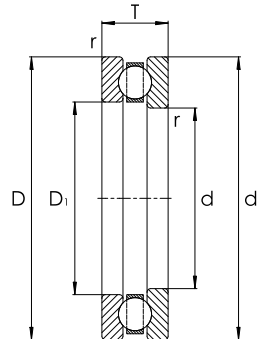
Maßtable - Abmessungen in mm

Haupt- abmessungen			Tragzahlen		Ermüdungs- grenzbelastung	Minimal- lastfaktor	Grenzdrehzahl	Bezugsdrehzahl	Gewicht		Kurzzeichen		
			dyn.	stat.					Lager	Unterleg- scheibe	Lager		Unterleg- scheibe
d	D	T	C _a kN	C _{0a} kN	C _{ua} kN	A	n _G min ⁻¹	n _B min ⁻¹	≈ kg	≈ kg			
80	105	19	45,0	129	5,7	0,100	4.650	3.600	0,384	–	51116	🌐 🛒 🏠	–
85	110	19	45,5	134	6,0	0,110	4.500	3.400	0,404	–	51117	🌐 🛒 🏠	–
90	120	22	45,5	140	6,1	0,120	4.300	3.500	0,617	–	51118	🌐 🛒 🏠	–
100	135	25	85,0	270	10,9	0,360	3.500	3.100	0,992	–	51120	🌐 🛒 🏠	–
110	145	25	87,0	290	11,3	0,420	3.350	2.800	1,080	–	51122	🌐 🛒 🏠	–
120	155	25	89,0	310	11,6	0,490	3.200	2.600	1,160	–	51124	🌐 🛒 🏠	–
130	170	30	111,0	390	14,2	0,760	2.850	2.490	1,750	–	51126	🌐 🛒 🏠	–
140	180	31	111,0	400	14,2	0,830	2.750	2.330	1,900	–	51128	🌐 🛒 🏠	–
150	190	31	109,0	400	13,8	0,890	2.650	2.200	2,170	–	51130M	🌐 🛒 🏠	–
160	200	31	112,0	425	14,2	1,000	2.550	2.060	2,290	–	51132M	🌐 🛒 🏠	–
170	215	34	127,0	510	16,2	1,400	2.330	2.010	3,020	–	51134M	🌐 🛒 🏠	–
180	225	34	127,0	520	16,3	1,500	2.250	1.910	3,060	–	51136M	🌐 🛒 🏠	–
190	240	37	161,0	650	19,7	2,300	2.040	1.850	4,060	–	51138M	🌐 🛒 🏠	–
200	250	37	162,0	670	19,8	2,500	1.980	1.760	4,120	–	51140M	🌐 🛒 🏠	–
220	270	37	168,0	730	20,7	3,000	1.870	1.600	4,540	–	51144M	🌐 🛒 🏠	–
240	300	45	237,0	990	27,0	5,200	1.640	1.540	7,410	–	51148M	🌐 🛒 🏠	–

Axial-Rillenkugellager, einseitig wirkend, Reihe 51



511...M



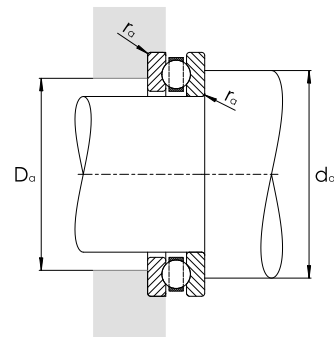
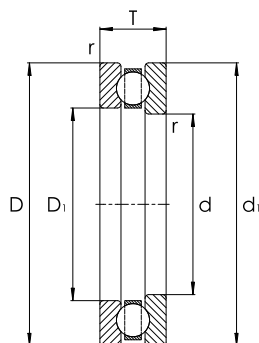
Anschlussmaße

Abmessungen

Anschlussmaße

d	D ₁	d ₁	r min.	R	A	D ₂	D ₃	C	T ₁	d _α min.	D _α max.	r _α max.
80	82	105	1,0	–	–	–	–	–	–	95	90	1,0
85	87	110	1,0	–	–	–	–	–	–	100	95	1,0
90	92	120	1,0	–	–	–	–	–	–	108	102	1,0
100	102	135	1,0	–	–	–	–	–	–	121	114	1,0
110	112	145	1,0	–	–	–	–	–	–	131	124	1,0
120	122	155	1,0	–	–	–	–	–	–	141	134	1,0
130	132	170	1,0	–	–	–	–	–	–	154	146	1,0
140	142	178	1,0	–	–	–	–	–	–	164	156	1,0
150	152	188	1,0	–	–	–	–	–	–	174	166	1,0
160	162	198	1,0	–	–	–	–	–	–	184	176	1,0
170	172	213	1,1	–	–	–	–	–	–	197	188	1,0
180	183	222	1,1	–	–	–	–	–	–	207	198	1,0
190	193	237	1,1	–	–	–	–	–	–	220	210	1,0
200	203	247	1,1	–	–	–	–	–	–	230	220	1,0
220	223	267	1,1	–	–	–	–	–	–	250	240	1,0
240	243	297	1,5	–	–	–	–	–	–	276	264	1,5

Axial-Rillenkugellager, einseitig wirkend, Reihe 51



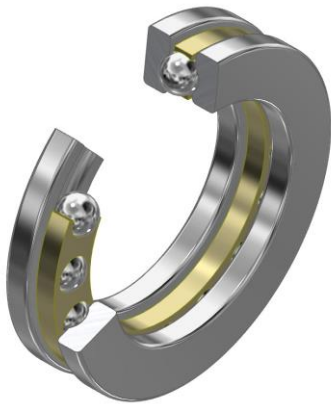
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Anschlussmaße

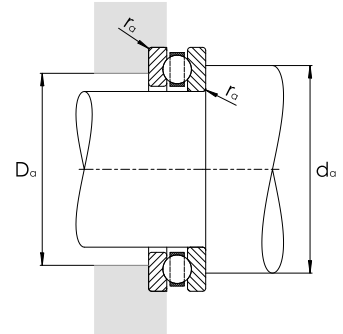
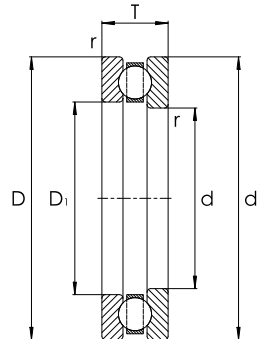
Maßtable - Abmessungen in mm

Haupt- abmessungen			Tragzahlen		Ermüdungs- grenzbelastung	Minimal- lastfaktor	Grenzdrehzahl	Bezugsdrehzahl	Gewicht		Kurzzeichen	
			dyn.	stat.					Lager	Unterleg- scheibe	Lager	Unterleg- scheibe
d	D	T	C _a kN	C _{0a} kN	C _{ua} kN	A	n _G min ⁻¹	n _B min ⁻¹	≈ kg	≈ kg		
260	320	45	236	1.020	31,5	5,6	1.500		7,89	–	51152M	🌐 🛒 🏠 –
280	350	53	315	1.340	40,5	10,0	1.300		12,00	–	51156M	🌐 🛒 🏠 –
300	380	62	365	1.600	46,0	14,0	1.200		17,10	–	51160M	🌐 🛒 🏠 –
320	400	63	375	1.700	47,5	16,0	1.100		18,50	–	51164M	🌐 🛒 🏠 –
340	420	64	380	1.800	49,0	18,0	750		19,90	–	51168M	🌐 🛒 🏠 –
360	440	65	405	2.000	45,0	22,0	700		21,50	–	51172M	🌐 🛒 🏠 –
380	460	65	430	2.240	48,5	24,0	670		22,40	–	51176M	🌐 🛒 🏠 –
400	480	65	440	2.320	49,5	28,0	670		23,50	–	51180M	🌐 🛒 🏠 –
420	500	65	440	2.450	51,0	30,0	630		24,40	–	51184M	🌐 🛒 🏠 –
460	560	80	530	3.100	61,0	50,0	560		37,20	–	51192M	🌐 🛒 🏠 –
480	580	80	540	3.250	63,0	53,0	530		38,70	–	51196M	🌐 🛒 🏠 –
500	600	80	550	3.350	63,0	56,0	530		44,90	–	511/500M	🌐 🛒 🏠 –
530	640	85	620	3.900	73,0	80,0	480		55,90	–	511/530M	🌐 🛒 🏠 –
560	670	85	630	4.150	74,0	85,0	480		58,80	–	511/560M	🌐 🛒 🏠 –
600	710	85	640	4.400	76,0	100,0	450		62,70	–	511/600M	🌐 🛒 🏠 –
630	750	95	720	5.000	84,0	130,0	430		81,50	–	511/630M	🌐 🛒 🏠 –
670	800	105	800	5.700	94,0	170,0	400		105,00	–	511/670M	🌐 🛒 🏠 –

Axial-Rillenkugellager, einseitig wirkend, Reihe 51



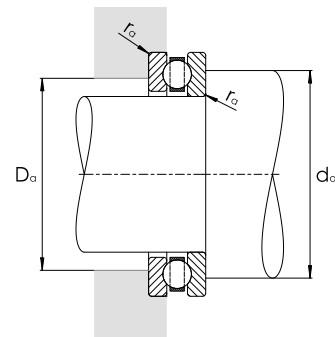
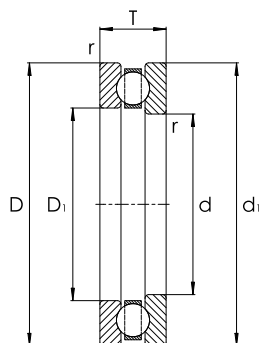
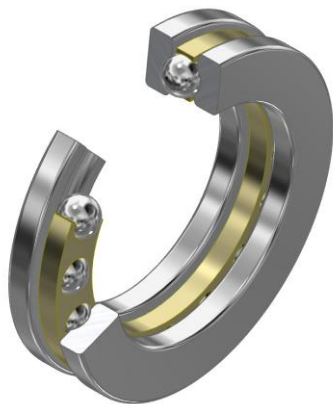
511...M



Anschlussmaße

Abmessungen											Anschlussmaße		
d	D ₁	d ₁	r min.	R	A	D ₂	D ₃	C	T ₁		d _a min.	D _a max.	r _a max.
260	263	317	1,5	–	–	–	–	–	–	–	296	284	1,5
280	283	347	1,5	–	–	–	–	–	–	–	322	308	1,5
300	304	376	2,0	–	–	–	–	–	–	–	348	332	2,0
320	324	396	2,0	–	–	–	–	–	–	–	368	352	2,0
340	344	416	2,0	–	–	–	–	–	–	–	388	372	2,0
360	364	436	2,0	–	–	–	–	–	–	–	408	392	2,0
380	384	456	2,0	–	–	–	–	–	–	–	428	412	2,0
400	404	476	2,0	–	–	–	–	–	–	–	448	432	2,0
420	424	495	2,0	–	–	–	–	–	–	–	468	452	2,0
460	464	555	2,1	–	–	–	–	–	–	–	520	500	2,1
480	484	575	2,1	–	–	–	–	–	–	–	540	520	2,1
500	505	595	2,1	–	–	–	–	–	–	–	560	540	2,1
530	535	635	3,0	–	–	–	–	–	–	–	596	574	2,5
560	565	665	3,0	–	–	–	–	–	–	–	626	604	2,5
600	605	705	2,0	–	–	–	–	–	–	–	666	644	2,5
630	635	745	3,0	–	–	–	–	–	–	–	702	678	2,5
670	675	795	4,0	–	–	–	–	–	–	–	744	722	3,0

Axial-Rillenkugellager, einseitig wirkend, Reihe 51



511...M

Anschlussmaße

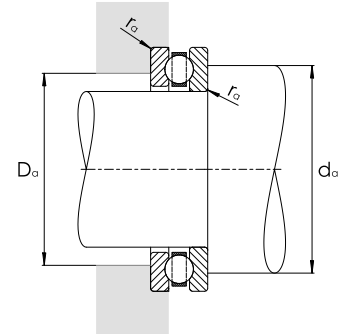
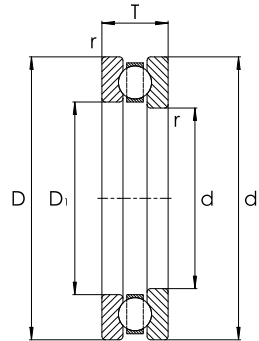
Maßtable - Abmessungen in mm

Haupt- abmessungen			Tragzahlen		Ermüdungs- grenzbelastung	Minimal- lastfaktor	Grenzdrehzahl	Bezugsdrehzahl	Gewicht		Kurzzeichen				
			dyn.	stat.					Lager	Unterleg- scheibe	Lager			Unterleg- scheibe	
d	D	T	C _a kN	C _{0a} kN	C _{ua} kN	A	n _G min ⁻¹	n _B min ⁻¹	≈ kg	≈ kg					
710	850	112	865	6.550	104	220	380		113	–	511/710M				–
750	900	120	1.020	7.800	124	320	360		147	–	511/750M				–
800	950	120	1.020	8.300	125	360	340		157	–	511/800M				–
850	1.000	120	1.060	8.800	130	400	340		168	–	511/850M				–
900	1.060	130	1.080	9.300	132	450	320		217	–	511/900M				–
950	1.120	135	1.220	11.000	151	630	320		250	–	511/950M				–
1.000	1.180	140	1.320	12.200	163	750	300		278	–	511/1000M				–
1.060	1.250	150	1.530	14.600	193	1.100	280		353	–	511/1060M				–
1.120	1.320	160	1.500	14.600	187	1.100	260		390	–	511/1120M				–
1.180	1.400	175	1.660	17.000	209	1.500	240		533	–	511/1180M				–
1.250	1.460	175	1.730	18.300	221	1.700	220		507	–	511/1250M				–
1.320	1.540	175	1.760	19.000	224	1.900	200		594	–	511/1320M				–
1.400	1.630	180	1.930	22.000	250	2.400	200		643	–	511/1400M				–
1.500	1.750	195	2.120	25.000	270	3.200	180		836	–	511/1500M				–
1.700	1.970	212	2.400	30.000	315	4.800	170		1.110	–	511/1700M				–

Axial-Rillenkugellager, einseitig wirkend, Reihe 51



511...M



Anschlussmaße

Abmessungen											Anschlussmaße		
d	D ₁	d ₁	r min.	R	A	D ₂	D ₃	C	T ₁		d _α min.	D _α max.	r _α max.
710	715	845	4,0	–	–	–	–	–	–	–	794	766	3,0
750	755	895	4,0	–	–	–	–	–	–	–	840	810	3,0
800	805	945	4,0	–	–	–	–	–	–	–	890	860	3,0
850	855	995	4,0	–	–	–	–	–	–	–	940	910	3,0
900	905	1.055	5,0	–	–	–	–	–	–	–	996	964	4,0
950	955	1.115	5,0	–	–	–	–	–	–	–	1.052	1.018	4,0
1.000	1.005	1.175	5,0	–	–	–	–	–	–	–	1.108	1.072	4,0
1.060	1.065	1.245	5,0	–	–	–	–	–	–	–	1.174	1.136	4,0
1.120	1.125	1.315	5,0	–	–	–	–	–	–	–	1.240	1.200	4,0
1.180	1.185	1.395	6,0	–	–	–	–	–	–	–	1.312	1.268	5,0
1.250	1.255	1.455	6,0	–	–	–	–	–	–	–	1.378	1.332	5,0
1.320	1.325	1.535	6,0	–	–	–	–	–	–	–	1.454	1.406	5,0
1.400	1.410	1.620	6,0	–	–	–	–	–	–	–	1.540	1.490	5,0
1.500	1.510	1.740	6,0	–	–	–	–	–	–	–	1.651	1.599	5,0
1.700	1.710	1.960	7,5	–	–	–	–	–	–	–	1.862	1.808	6,0