

WNBZ

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PRODUCT CATALOG

- THRUST ROLLER BEARING

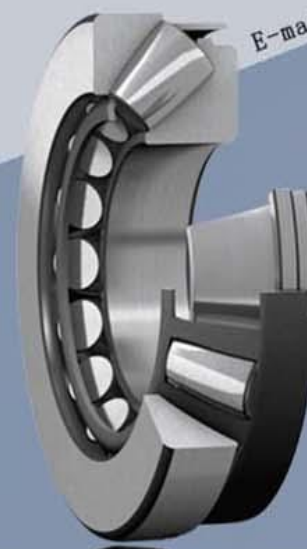
Web: www.nbz-bearing.com

E-mail: [wnzbearing@gmail.com](mailto:wnbzbearing@gmail.com)

Add: Wafangdian, Dalian, China

P.C.: 116300

E-mail: wnzbearing@gmail.com

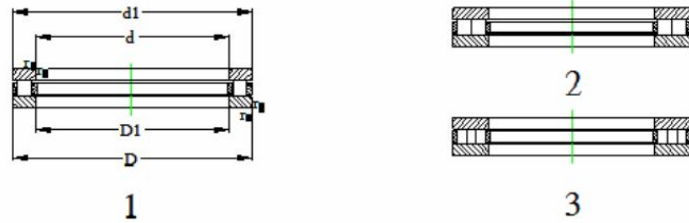


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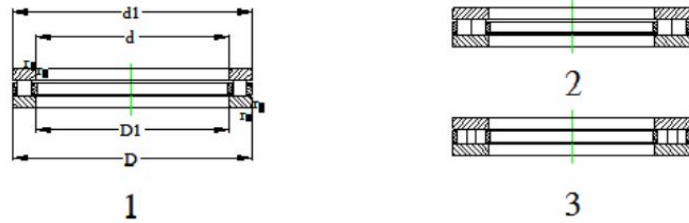
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Cylindrical roller thrust bearings

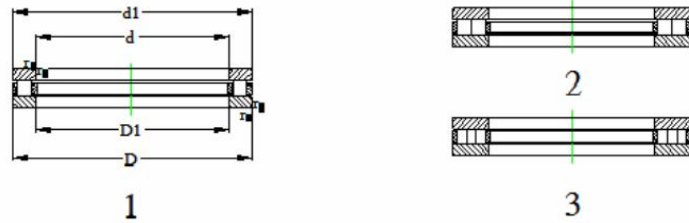
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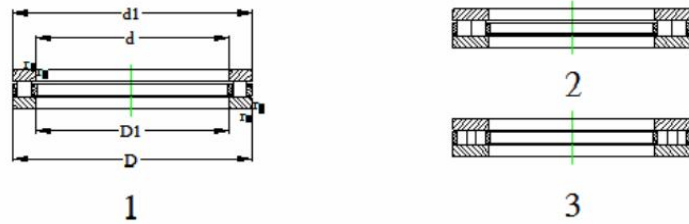
Boundary Dimensions (mm)						Basic Load Ratings (kN)		Minimum Load Factor	Designation		Design	Mass (kg)
d	D	H	r _{1,2min}	d ₁	D ₁	Ca	Coa	A	New	Old	design	Refer.
100	135	25	1	135	102	146	585	0.027	81120	9120	1	1.0
	150	38	1.1	150	103	224	830	0.055	81220	9220	1	2.2
	170	42	1.5	170	103	300	1370	0.15	89320	9549320	2	4.2
	210	50	3	210	103	540	2750	0.61	87420	7549420	3	9.0
	210	67	3	210	103	680	2800	0.63	89420	9549420	2	12
	110	145	25	1	145	112	153	630	0.031	81122	9122	1
110	160	38	1.1	160	113	240	915	0.066	81222	9222	1	2.45
	190	48	2	190	113	400	1830	0.27	89322	9549322	2	6.05
	230	54	3	230	113	640	3200	0.82	87422	7549422	3	11.5
	230	73	3	230	113	800	3350	0.90	89422	9549422	2	15.5
	120	155	25	1	155	122	160	680	0.036	81124	9124	1
120	170	39	1.1	170	123	245	965	0.074	81224	9224	1	2.7
	210	54	2.1	210	123	500	2280	0.42	89324	9549324	2	8.5
	250	58	4	250	123	765	4000	1.3	87424	7549424	3	15.0
	250	78	4	250	123	930	3900	1.2	89424	9549424	2	19.5
	130	170	30	1	170	132	183	780	0.048	81126	9126	1
130	190	45	1.5	187	133	335	1250	0.13	81226	9226	1	4.2
	225	58	2.1	225	134	560	2650	0.56	89326	9549326	2	10.0
	270	63	4	270	134	830	4400	1.5	87426	7549426	3	18.5
	270	85	4	270	134	1060	4500	1.6	89426	9549426	2	24.0



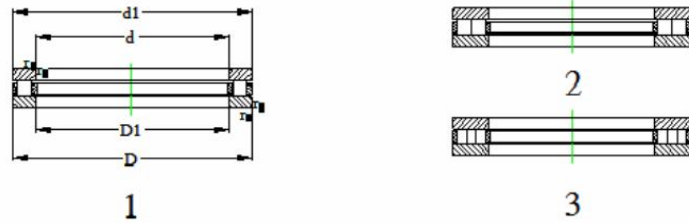
Boundary Dimensions (mm)					Basic Load Ratings (kN)		Minimum Load Factor	Designation		Design	Mass (kg)	
d	D	H	r _{1,2min}	d ₁	D ₁	Ca	Coa	A	New	Old	design	Refer.
140	180	31	1	178	142	193	850	0.057	81128	9128	1	1.95
	200	46	1.5	197	143	360	1400	0.16	81228	9228	1	4.55
	240	60	2.1	240	144	640	3100	0.77	89328	9549328	2	12.0
	280	63	4	280	144	880	4800	1.8	87428	7549428	3	19.5
	280	85	4	280	144	1100	4800	1.8	89428	9549428	2	27.0
150	190	31	1	188	152	200	900	0.064	81130	9130	1	2.05
	215	50	1.5	212	153	465	1900	0.29	81230	9230	1	5.9
	250	60	2.1	250	154	670	3250	0.85	89330	9549330	2	12.5
	300	67	4	300	154	1000	5400	2.3	87430	7549430	3	23.5
	300	90	4	300	154	1250	5600	2.5	89430	9549430	2	32.0
160	200	31	1	198	162	204	965	0.074	81132	9132	1	2.7
	225	51	1.5	222	163	480	2000	0.32	81232	9232	1	6.2
	270	67	3	270	164	780	3800	1.2	89332	9549332	2	16.5
	320	73	5	320	164	1160	6400	3.3	87432	7549432	3	29.5
	320	95	5	320	164	1430	6400	3.3	89432	9549432	2	38.0
170	215	34	1.1	213	172	260	1180	0.11	81134	9134	1	2.95
	240	55	1.5	237	173	540	2280	0.42	81234	9234	1	7.7
	280	67	3	280	174	800	4000	1.3	89334	9549334	2	17.5
	340	78	5	340	174	1290	7100	4	87434	7549434	3	35.5
	340	103	5	340	174	1600	7200	4.1	89434	9549434	2	47.0



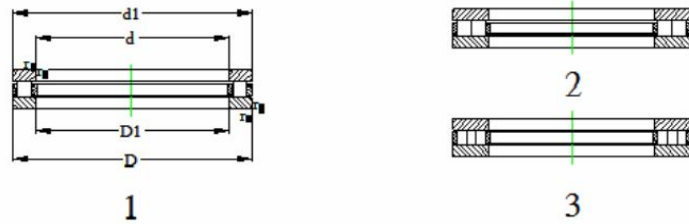
Boundary Dimensions (mm)					Basic Load Ratings (kN)		Minimum Load Factor	Designation		Design	Mass (kg)	
d	D	H	r _{1,2min}	d ₁	D ₁	Ca	Coa	A	New	Old	design	Refer.
180	225	34	1.1	222	183	270	1270	0.13	81136	9136	1	3.05
	250	56	1.5	247	183	550	2400	0.46	81236	9236	1	8.25
	300	73	5	300	184	1020	5000	2	89336	9549336	2	22.0
	360	82	5	360	184	1500	8500	4.1	87436	7549436	3	42.5
	360	109	5	360	186	1900	7200	5.8	89436	9549436	1	56.5
190	240	37	1.1	237	193	310	1460	0.17	81138	9138	1	3.85
	270	62	2	267	194	695	2900	0.67	81238	9238	1	10.5
	320	78	4	320	195	1140	5600	2.5	89338	9549338	2	27.0
	380	85	5	380	195	1600	9150	6.7	87438	7549438	3	48.5
200	250	37	1.1	247	203	310	1500	0.18	81140	9140	1	4.0
	280	62	2	277	204	720	3100	0.77	81240	9240	1	12.0
	340	85	4	340	205	1290	6400	3.3	89340	9549340	2	32.0
	400	90	5	400	205	1830	10400	8.7	87440	7549440	3	57.0
220	270	37	1.1	267	223	335	1700	0.23	81144	9144	1	4.5
	300	63	2	297	224	750	3350	0.90	81244	9244	1	13.0
	360	85	4	360	220	1210	5450	4.1	89344	9549344	2	36.9
	360	112	4	360	225	2450	8500	5.8	81344	9344	1	49.0
	420	112	6	420	225	2320	11200	10	89444	9549444	2	82.0
240	300	45	1.5	297	243	475	2450	0.48	81148	9148	1	7.25
	340	78	2.1	335	244	1100	4900	1.9	81248	9248	1	22.0
	380	85	4	380	240	1290	6100	5.8	89348	9549348	2	39.4



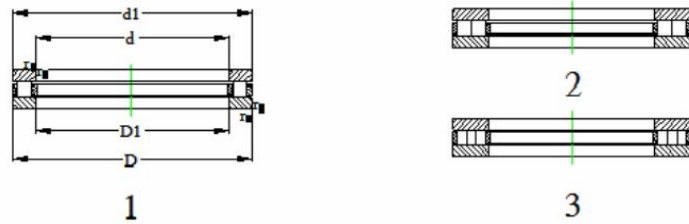
Boundary Dimensions (mm)					Basic Load Ratings (kN)		Minimum Load Factor	Designation		Design	Mass (kg)	
d	D	H	r _{1,2min}	d ₁	D ₁	Ca	Coa	A	New	Old	design	Refer.
260	320	45	1.5	317	263	490	2600	0.54	81152	9152	1	7.85
	360	79	2.1	355	264	1140	5300	2.2	81252	9252	1	24.0
	420	95	1.1	420	260	1670	7700	8.7	89352	9549352	2	55.2
	480	132	6	480	265	2850	14300	16	89452	9549452	2	114
280	350	53	1.5	347	283	680	3550	1	81156	9156	1	10.5
	380	80	2	375	284	1160	5500	2.4	81256	9256	1	26.0
	440	95	5	438	282	1800	8650	8.7	89356	9549356	2	58.4
	520	190	6	520	286	3900	14600	17	81456	9456	1	195
300	380	48	2	377	303	640	3550	1	89160	9549160	1	13.5
	380	62	2	376	304	850	4400	1.5	81160	9160	1	16.5
	420	95	3	415	304	1530	7200	4.1	81260	9260	1	40.5
	480	109	5	480	300	2260	10500	6.7	89360	9549360	2	81.7
320	400	63	2	396	324	880	4650	1.7	81164	9164	1	18.0
	440	95	3	435	325	1560	7500	4.5	81264	9264	1	42.5
	500	109	5	500	325	2200	10400	6.7	89364	9549364	2	85.9
340	420	64	2	416	344	900	4900	1.9	81168	9168	1	19.5
	460	96	3	455	345	1630	8000	5.1	81268	9268	1	47.0
	540	122	5	540	345	2790	13300	8.7	89368	9549368	2	115
360	440	48	2	437	363	680	4150	1.4	89172	9549172	1	15.5
	440	65	2	436	364	900	4900	1.9	81172	9172	1	19.5
	500	110	4	495	365	2160	10400	8.7	81272	9272	1	65.5



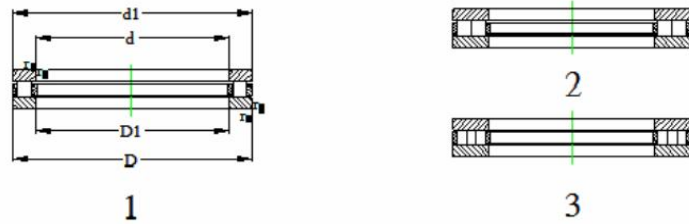
Boundary Dimensions (mm)					Basic Load Ratings (kN)		Minimum Load Factor	Designation		Design	Mass (kg)	
d	D	H	r _{1,2min}	d ₁	D ₁	Ca	Coa	A	New	Old	design	Refer.
560	122	5	560	360	2870	14000	8.7	89372	9549372	2	120	
380	460	48	2	457	383	710	4400	1.5	89176	9549176	1	16.5
	460	65	2	456	384	930	5300	2.2	81176	9176	1	22.0
	520	112	4	515	385	2200	10800	9.3	81276	9276	1	70.0
400	480	48	2	477	403	735	4650	1.7	89180	9549180	1	17.5
	480	65	2	476	404	965	5600	2.5	81180	9180	1	23.0
	540	112	4	535	405	2240	11200	10	81280	9280	1	73.0
	710	185	7.5	710	405	5700	31000	77	89480	9549480	1	350
420	500	48	2	497	423	765	4900	1.9	89184	9549184	1	18.0
	500	65	2	495	424	980	5850	2.7	81184	9184	1	24.0
	580	130	5	575	425	2850	14000	16	81284	9284	1	95.5
440	540	60	2.1	537	443	1040	6400	3.3	89188	9549188	1	30.0
	540	80	2.1	535	444	1430	8000	5.1	81188	9188	1	39.5
	600	130	5	595	445	2900	14600	17	81288	9288	1	110
460	560	60	2.1	557	463	1080	6700	3.6	89192	9549192	1	31.5
	560	80	2.1	555	464	1460	8500	5.8	81192	9192	1	41.0
	620	130	5	615	465	2700	13400	14	81292	9292	1	118
480	580	60	2.1	577	483	1100	6950	3.9	89196	9549196	1	32.5
	580	80	2.1	575	484	1460	8650	6	81196	9196	1	43.0
	650	135	5	645	485	3350	17000	23	81296	9296	1	128



Boundary Dimensions (mm)						Basic Load Ratings (kN)		Minimum Load Factor	Designation		Design	Mass (kg)
d	D	H	r _{1,2min}	d ₁	D ₁	Ca	Coa	A	New	Old	design	Refer.
500	600	60	2.1	597	503	1220	8150	5.3	891/500	95491/500	1	34.0
	600	80	2.1	595	505	1560	9300	6.9	811/500	91/500	1	44.0
	670	135	5	665	505	3400	17600	25	812/500	92/500	1	133
530	640	67	3	636	534	1370	8800	6.2	891/530	95491/530	1	44.0
	640	85	3	635	535	1730	10600	9	811/530	91/530	1	55.5
	710	140	5	705	535	3650	18600	28	812/530	92/530	1	154
560	670	67	3	666	564	1370	9150	6.7	891/560	95491/560	1	46.5
	670	85	3	665	565	1760	11100	9.7	811/560	91/560	1	58.0
	750	150	5	745	565	3800	20000	32	812/560	92/560	1	187
600	710	67	3	706	604	1430	9650	7.4	891/600	95491/600	1	49.5
	710	85	3	705	605	1800	11600	11	811/600	91/600	1	62.0
	800	160	5	795	605	4400	24000	46	812/600	92/600	1	240
630	750	73	3	746	634	1630	11200	10	891/630	95491/630	1	62.0
	750	95	3	746	634	2160	13700	15	811/630	91/630	1	80.0
	850	175	6	842	638	4800	26000	54	812/630	92/630	1	295
670	800	78	4	795	675	2000	13400	14	891/670	95491/670	1	75.5
	800	105	4	795	675	2550	16300	21	811/670	91/670	1	110
	900	180	6	892	678	5700	30500	74	812/670	92/670	1	335
710	850	85	4	845	715	2200	15000	18	891/710	95491/710	1	95.0
	850	112	4	845	715	2900	18300	27	811/710	91/710	1	155



Boundary Dimensions (mm)					Basic Load Ratings (kN)		Minimum Load Factor	Designation		Design	Mass (kg)	
d	D	H	r _{1,2min}	d ₁	D ₁	Ca	Coa	A	New	Old	design	Refer.
950	190	6	942	718	5850	32000	82	812/710	92/710	1	395	
750	900	90	4	895	755	2400	16600	22	891/750	95491/750	1	115
	900	120	4	895	755	3250	21200	36	811/750	91/750	1	155
	1000	195	6	992	758	6550	36000	100	812/750	92/750	1	445
800	950	90	4	945	805	2500	18000	26	891/800	95491/800	1	120
	950	120	4	945	805	3450	22000	39	811/800	91/800	1	165
	1060	205	7.5	1050	810	7350	40500	130	812/800	92/800	1	515
850	1000	90	4	995	955	2600	19000	29	891/850	95491/850	1	130
	1000	120	4	995	855	3450	23200	43	811/850	91/850	1	170
	1120	212	7.5	1110	860	8150	45500	170	812/850	92/850	1	580
900	1060	95	5	1055	905	3050	22000	39	891/900	95491/900	1	150
	1060	130	5	1054	906	4000	27000	58	811/900	91/900	1	210
	1180	220	7.5	1170	910	8500	49000	190	812/900	92/900	1	665
950	1120	103	5	1115	955	3450	25000	50	891/950	95491/950	1	185
	1120	135	5	1114	956	4400	30000	72	811/950	91/950	1	250
	1250	236	7.5	1240	960	10000	58500	270	812/950	92/950	1	805
1000	1090	70	2.1	1090	1003.5	1830	15300	19	810/1000	90/1000	1	68.0
	1180	109	5	1175	1005	3900	28500	65	891/1000	95491/1000	1	220
	1180	140	5	1174	1006	4750	32500	84	811/1000	91/1000	1	285
	1320	250	9.5	1308	1012	10200	60000	290	812/1000	92/1000	1	965



Boundary Dimensions (mm)						Basic Load Ratings (kN)		Minimum Load Factor	Designation		Design	Mass (kg)
d	D	H	r _{1,2min}	d ₁	D ₁	Ca	Coa	A	New	Old	design	Refer.
1060	1250	115	5	1245	1065	4150	31000	77	891/1060	95491/1060	1	260
	1250	150	5	1244	1066	5300	36500	110	811/1060	91/1060	1	225
	1400	265	9.5	1388	1972	12000	71000	400	812/1060	92/1060	1	1150
1120	1320	122	5	1315	1125	4900	36500	110	891/1120	95491/1120	1	305
	1320	160	5	1314	1126	6000	41500	140	811/1120	91/1120	1	410



Boundary Dimensions (mm)									Basic Load Ratings (kN)		Speed Ratings (rpm)		Designation		Abutment and Fillet Dimensions (mm)			Mass (kg)
d	D	B	C	S	H	r _{1.2min}	d ₁	D ₁	Ca	Coa	Grease	oil	new	old	d _{a min}	D _{a max}	r _{a max}	Refer.
100	170	26.2	20.8	58	42	1.5	152	128	410	1280	1500	2000	29320	9039320	130	150	1.5	3.91
	210	45	32	62	67	3	190	146	590	860	1000	1400		9069420	150	175	2.5	10.5
	210	43	33	62	67	3	185	144	840	2400	1100	1600	29420	9039420	150	175	2.5	10.5
110	190	30	24	64	48	2	175	135	347	970	1100	1600		9069322				5.46
	190	16	23	64	48	2	175	143	530	1710	1300	1800	29322	9039322	145	165	2	6.94
	230	43	35	69	73	2	195	150	545	1497	950	1400		9069422				12.8
	230	26	34.4	69	73	3	208	155.5	1010	2930	950	1400	29422	9039422	165	190	2.5	18.1
120	210	34	30	57	54	2.5	188	161	380	680	1000	1600		9069324	160	181	2	6.88
	210	34	27	70	54	2.1	187.5	156.5	645	2100	1100	1600	29324	9039324	160	180	2	7.3
	250	48	38	74	78	4	222	181	720	1100	750	1100		9069424	180	209	3	19.5
	250	50.5	37	74	78	4	222	172	1160	3400	900	1300	29424	9039424	180	205	3	17.1
130	225	37	29	76	58	2.5	200	170	440	750	950	1500		9069326	175	194	2	8.26
	225	36.5	28	76	58	2.1	200	166	740	2450	1000	1500	29326	9039326	170	195	2	8.48
	270	55	44	79	85	4	240	190	760	1100	700	1100		9069426	195	227	3	23.0
	270	31	39.7	81	85	4	246	183	1330	3900	850	1200	29426	9039426	195	225	3	28.3
140	240	38.5	30	82	60	2.1	216.5	179	840	2810	950	1400	29328	9039328	185	205	2	10.4
	280	55	47	64	85	4	247	203	825	1120	670	950		9069428	205	236	3	22.7
	280	54	42	86	85	4	244.5	195.5	1370	4200	850	1200	29428	9039428	205	235	3	22.2
150	215				39	1.5	177		351	1560		1800	29230	9039230				4.6
	250	36	31	87	60	2.1	220	185	525	1670	1200			9069330				10.2
	250	20	29	87	60	2.1	240	194	870	2900	950	1400	29330	9039330	195	215	2	11.5
300	60	48	69	90	4	270	220	995	1760	630	900			9069430	220	253	3	27.3
	300	58	44	92	90	4	266	206	1580	4900	800	1100	29430	9039430	220	250	3	27.9
160	225				39	1.5		188	362	1650		1700	29232	9039232				4.8



Boundary Dimensions (mm)									Basic Load Ratings (kN)		Speed Ratings (rpm)		Designation		Abutment and Fillet Dimensions (mm)			Mass (kg)
d	D	B	C	S	H	r _{1.2min}	d ₁	D ₁	Ca	Coa	Grease	oil	new	old	d _{a min}	D _{a max}	r _{a max}	Refer.
270	45	32	92	67	3	240	200	610	2240			1100		9069332				13.5
270	42	33	92	67	3	243	203	1010	3400	850	1200		29332	9039332	210	235	2.5	14.3
320	61	53	74	95	5	275	234	1000	1720	560	800			9069432	235	270	4	33.3
320	34	46.9	99	95	5	285	218.5	1740	5400	750	1000		29432	9039432	230	265	4	32.8
170	240			42	1.5		201	408	1900			1600	29234	9039234				6.0
	280	43.5	31.7	96	67	3	260.3	216	1050	3500	850	1200	29334	9039334	220	245	2.5	15.7
	340	71	48	104	103	5	310	243	1210	2200	530	750		9069434	250	286	3	40.7
	340	65.5	50	104	103	5	302	235	1680	5800	700	950	29434	9039434	245	285	4	39.7
180	250	15	21.3	97	42	1.5	239	209	420	2010	900	1600	29236	9039236	215	227	1.5	7.05
	300	46	36	103	73	3	270	225	790	2731	630	900		9069336	235	262	2.5	18.3
	300	25	34.4	103	73	3	275	229	1230	4200	800	1100	29336	9039336	235	260	2.5	19.9
	360	67	58	82	109	5	308	265	1210	2200	550	750		9069436	265	304	4	42.3
	360	39	51.2	110	109	5	326	249.5	1870	6500	670	900	29436	9039436	265	304	4	64.2
190	270	30	24	110	48	2	250	224	420	1746		1000		9069238				8.0
	270	25.5	103	518	48	2	255	226	2200			1400	29238	9039238	225	243	2	8.7
	320	49	38	110	78	4	288.5	244	1370	4700	750	1000	29338	9039338	250	275	3	23.0
	380	41	53.7	117	115	5	345	263	2100	7450	630	850	29438	9039438	275	320	4	75.6
200	280	15	24	108	48	2	266	236	540	2310		1400	29240	9039240	235	255	2	8.5
	340				85	4						800		9069340				29.5
	340	53.5	41	116	85	4	306.5	257	1570	5450	700	950	29340	9039340	265	295	3	28.5
	400	62	62	122	122	5	360	278	1740	6054		710		9069440				60.6
	400	44	56.7	122	122	5	360	267.5	2290	8150	600	800	29440	9039440	290	335	4	83.5
220	300	31	24	117	48	6	286	260	504	1932	850	1300		9069244	260	273	5	8.0



Boundary Dimensions (mm)									Basic Load Ratings (kN)		Speed Ratings (rpm)		Designation		Abutment and Fillet Dimensions (mm)			Mass (kg)
d	D	B	C	S	H	r _{1.2min}	d ₁	D ₁	Ca	Coa	Grease	oil	new	old	d _{a min}	D _{a max}	r _{a max}	Refer.
300	15	24	117	48	6	285	254	560	2500			1300	29244	9039244	260	275	5	9.2
360	52	44	125	85	6	320	270	970	3768			800		9069344			5	32.5
360	29	40.7	125	85	6	330	277.5	1340	5200	700	950		29344	9039344	285	315	5	28.6
420	78	59	142	122	6	400	330	1830	6624			710		9069444			5	74.5
420	43	58	132	122	6	385	308	2350	8650	560	750		29444	9039444	310	355	5	74.0
240	340	19	30	130	60	2.1	325	283	800	3450	1100		29248	9039248	285	305	2	16.5
	380	52	44	135	85	4	340	290	1320	4250		800		9069348				33.8
	380	29	41	135	85	4	360	298.5	1360	5400	670	900	29348	9039348	300	330	3	35.5
	440	62	62	142	122	6	380	310	1920	7160	550	750		9069448				74.5
	440	43	60	142	122	6	400	316	2420	9100	560	750	29448	9039448	330	375	5	96.1
260	360	38	30	139	60	2.1	335	302	645	2880	530	750		9069252	310	326	2	15.7
	360	19	30	139	60	2.1	345	302	855	3850	1100		29252	9039252	305	325	2	18.0
	420	60	46	148	95	5	370	315	1420	5850	710			9069352				45.6
	420	70.9	46	148	95	5	392.3	327.5	1700	7500	600	800	29352	9039352	330	365	4	50.2
	480	80	66	154	132	6	415	335	2120	8220	630			9069452				91.8
	480	86	63	154	132	6	445	346	2820	10700	500	670	29452	9039452	360	405	5	101.5
280	380	19	30	150	60	2.1	365	323	885	4100	700	1000	29256	9039256	325	345	2	21.7
	440	64	46	158	95	5	413	348	1560	6120	530	750		9069356	355	390	4	49.1
	440	32	46	158	95	5	410	348	1830	7650	600	800	29356	9039356	350	390	4	52.2
	520	75	72	166	145	6	450	365	2600	9860	630			9069456				115
	520	104	68	160	145	6	480	384	3400	13100	480	630	29456	9039456	390	440	5	134



Boundary Dimensions (mm)									Basic Load Ratings (kN)		Speed Ratings (rpm)		Designation		Abutment and Fillet Dimensions (mm)			Mass (kg)	
d	D	B	C	S	H	r _{1.2min}	d ₁	D ₁	Ca	Coa	Grease	oil	new	old	d _{a min}	D _{a max}	r _{a max}	Refer.	
300	420	21	38	162	73	3	400	353	1160	5150	900		29260	9039260	355	380	2.5	30.0	
	480	58	52	168	109	5	425	365	1870	7650	630			9069360				61.4	
	480	37	50	168	109	5	450	379	2190	9100	530	700	29360	9039360	380	420	4	74.0	
540	52	70	175	145	6	500	402	3500	13700	450	600	29460	9039460	410	460	5	140.0		
320	440	21	38	172	73	3	420	372	1190	5450	850		29264	9039264	375	400	2.5	32.5	
	500	68	55	180	109	5	445	385	2030	7960	560			9069364				73.4	
	500	83.4	52.3	180	109	5	463	394	2230	9400	500	670	29364	9039364	400	440	4	75.7	
580	95	75	191	155	7.5	500	410	2930	11660					9069464				171	
580	108	75	191	155	7.5	555	436	3650	14600	430	560	29464	9039464	435	495	6	178		
340	340	48	36	204	73	3	438	388	1150	2550	530	750			9069268	400	422	2.5	31.4
	460	21	37	183	73	3	440	395	1230	5750	850		29268	9039268	395	420	2.5	33.5	
540	74	62	192	122	5	480	410	2710	11000					9069368				94.9	
540	41	59	192	122	5	510	428	2640	11200		600	29368	9039368	430	470	4	103		
620	61	80	201	170	7.5	560	449.5	4400	17400	380	500	29468	9039468	465	530	6	218		
360	500	25	44	194	85	4	480	423	1550	7300		750	29272	9039272	420	455	3	51	
	560	41	59	202	122	5	525	448	2670	11500		600	29372	9039372	450	495	4	107	
640	87	85	210	170	7.5	555	460	3790	15440		450			9069472				199	
640	63	83.5	210	170	7.5	580	474	5200	21000		500	29472	9039472	485	550	6	230		
380	520	27	42	202	85	4	496	441	1620	7800		700	29276	9039276	440	475	3	52	
	600	44	61.4	216	132	6	561	475	3300	14200		530	29376	9039376	480	525	5	129	
	670	120	87.5	222	175	7.5	610	494	5800	24000		480	29476	9039476	510	575	6	260	
400	540	55	42	212	85	4	500	450	1260	7060				9069280				49	



Boundary Dimensions (mm)									Basic Load Ratings (kN)		Speed Ratings (rpm)		Designation		Abutment and Fillet Dimensions (mm)			Mass (kg)
d	D	B	C	S	H	r _{1.2min}	d ₁	D ₁	Ca	Coa	Grease	oil	new	old	d _{a min}	D _{a max}	r _{a max}	Refer.
540	27	42	212	85	4	510	460	1640	8000	500	700	29280	9039280	460	490	3	65	
620	81	65	225	132	6	555	475	2860	12200				9069380					134
620	44	64.7	225	132	6	582	489	3250	14500	440	620	29380	9039380	500	550	5	153	
710	112	96	236	185	7.5	659	547	4450	19200				9069480					272
710	67	89.5	234	185	7.5	645	525	6350	26100		450	29480	9039480	540	610	6	310	
420	580	62	46	251	95	5	548	489	1880	5300		560		9069284	500	525	4	78.9
580	30	46	225	95	5	553	489	2010	9800		630	29284	9039284	490	525	4	72.0	
650	48	68	235	140	6	610	514.5	3600	16000	420	600	29384	9039384	525	575	5	175	
730	67	90.5	244	185	7.5	665	545	6650	27500		430	29484	9039484	560	630	6	323	
440	600	30	49	235	95	5	575	508	2030	10100		630	29288	9039288	510	545	4	77
680	49	70.5	245	145	6	626	540	4250	16700		480	29388	9039388	550	600	5	180	
780	74	101	260	206	9.5	710	577	7550	32000		380	29488	9039488	595	670	8	410	
780	110	100	260	206	9.5	660	588	7880	34000			29488/HV		595	670	8	346.6	
460	620	30	49.4	245	95	5	590	525.5	2060	10300	400	600	29292	9039292	530	570	4	75
710	51	72	257	150	6	666	567	4100	18400		450	29392	9039392	575	630	5	210	
800	74	100	272	206	9.5	765	608	6900	28300		380	29492	9039492	615	690	8	420	
480	650	65	50	259	103	5	600	540	1950	10500				9069296				89.4
650	33	55	259	103	5	624	556	2370	12100		560	29296	9039296	555	595	4	97	
730	51	72	270	150	6	690	590	4150	19000		450	29396	9039396	595	650	5	215	
850	81	108	280	224	9.5	810	638	7200	31000		340	29496	9039496	645	730	8	545	
500	670	60	50	268	103	5	620	560	2050	1080			90692/500					92
670	33	55	268	103	5	645	574	2390	12400	380	560	292/500	90392/500	575	615	4	100	



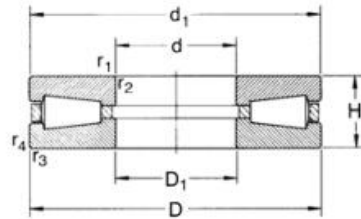
Boundary Dimensions (mm)									Basic Load Ratings (kN)		Speed Ratings (rpm)		Designation		Abutment and Fillet Dimensions (mm)			Mass (kg)
d	D	B	C	S	H	r _{1.2min}	d ₁	D ₁	Ca	Coa	Grease	oil	new	old	d _{a min}	D _{a max}	r _{a max}	Refer.
750	98	71	280	150	6	705	611	3550	1720				293/500	90693/500				211
750	51	74	280	150	6	715	611	4350	20400	340	520		293/500	90393/500	615	670	5	220
870	140	110	290	224	9.5	760	630	6290	27340					90694/500				520
870	81	107	290	224	9.5	790	648	7850	33000	320	460		294/500	90394/500	670	750	8	589
530	710			109	5									90692/530				117
	710	69.5	54	288	109	5	680	604	2620	15300	350	530	292/530	90392/530	620	655	4	118
800	54	76	295	160	7.5	760	648	5050	23300			400	293/530	90393/530	655	710	6	284
920	145	116	309	236	9.5	840	700	8386	32600					90694/530				573
920	85	114	310	236	9.5	880	696	8550	37000			320	294/530	90394/530	715	790	8	660
560	750	72	58	300	115	5	695	625	2430	13300				90692/560				127
	750	37	61	302	115	5	732	644	2990	17900	360	480	292/560	90392/560	655	685	4	140
850	59	85	310	175	7.5	810	687	5700	26700			360	293/560	90393/560	695	750	6	354
980	91	124	325	250	12	935	744	9600	42000			300	294/560	90394/560	755	835	10	800
980	142	122	328	250	12	830	727	12000	51000				294/560/HV					674
600	800	39	58	321	122	5	772	688	3300	17800		450	292/600	90392/600	690	735	4	169.0
	900	65	89	340	180	7.5	840	720	6330	33700		340	293/600	90393/600	755	810	6	400
1030	156	130	360	258	12	900	750	9860	38500					90694/600				700
1030	93	127	345	258	12	985	780	10100	43000		280		294/600	90394/600	800	885	10	895
630	850	86	65	338	132	6	800	728	3450	19800		300		90692/630	740	780	5	188
	850	50	62	338	132	6	810	723	4770	24200		400	292/630	90392/630	740	780	5	210
	950	68	92	359	190	9.5	880	761	8450	40300		320	293/630	90393/630	795	860	8	485
1090	100	136	365	280	12	1040	830	11600	51500			260	294/630	90394/630	845	935	10	1100



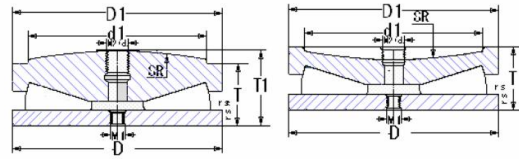
Boundary Dimensions (mm)									Basic Load Ratings (kN)		Speed Ratings (rpm)		Designation		Abutment and Fillet Dimensions (mm)			Mass (kg)
d	D	B	C	S	H	r _{1.2min}	d ₁	D ₁	Ca	Coa	Grease	oil	new	old	d _{a min}	D _{a max}	r _{a max}	Refer.
	1090	179	137	365	280	12	995	815					294/630EM					989
670	900	86	70	365	140	6	830	750	3670	20280				90692/670				218
	900	45	73	361	140	6	880	773	4200	25500		380	292/670	90392/670	790	825	5	255
	1000	73	98	379	200	9.5	935	804	7360	39600		300	293/670	90393/670	840	900	8	545
	1150	105	140	385	290	15	1090	870	12500	56000		240	294/670	90394/670	895	990	12	1250
710	950	92	75	380	145	6	895	805	3600	12000		240		90692/710	820	880	5	279
	950	46	71	380	145	6	900	815	5230	27500		360	292/710	90392/710	830	875	5	290
	1060	74	103	404	212	9.5	985	855	9950	45500		280	293/710	90393/710	890	960	8	660
	1220	132	148	407	308	15	1160	920	14300	65500		220	294/710	90394/710	950	1050	12	1500
750	1000	52	74	409	150	6	950	858	5870	33700			292/750	90392/750	880	925	5	325
	1120	76	109	415	224	9.5	1086	910	9370	51000			293/750	90393/750	935	1000	8	770
	1280	160	158	448	315	15	1152	972	14340	58600				90694/750	1015	1120	12	1340
	1280	128	152	429	315	15	1220	970	15100	69000			294/750	90394/750	995	1105	12	1680
800	1060	80	80	475	155	7.5	985	890	5635	28870				90692/800				323
	1060	50	80	426	155	7.5	1010	907.5	6350	33700			292/800	90392/800	935	980	6	343
	1180	78	111	440	230	9.5	1146	965	9950	56100			293/800	90393/800	995	1060	8	865
	1360	121	162	445	335	15	1300	1030	16600	77500			294/800	90394/800	1060	1175	12	2010
	1360	185	165	462	335	15	1160	1034	20200	93000			294/800A					1658
850	1120	47	82	455	160	7.5	1060	967	6730	37400			292/850	90392/850	980	1030	6	425
	1250				243	12		1024	11100	61600			293/850	90393/850				1000
	1440	142	172	507	355	15	1250	1034	18700	99000			294/850	90394/850	1160	1270	12	2350
900	1180				170	7.5		1023	6330	40900			292/900	90392/900				
	1520	135	185	520	372	15	1450	1164	22200	121000			294/900	90394/900	1190	1315	12	2760



Boundary Dimensions (mm)									Basic Load Ratings (kN)		Speed Ratings (rpm)		Designation		Abutment and Fillet Dimensions (mm)			Mass (kg)
d	D	B	C	S	H	r _{1.2min}	d ₁	D ₁	Ca	Coa	Grease	oil	new	old	d _{a min}	D _{a max}	r _{a max}	Refer.
950	1250	58	88	507	180	7.5	1185	1081	8280	46600			292/950	90392/950	1095	1155	6	600
	1600	153	191	546	390	15	1470	1209	28200	13200			294/950	90394/950	1275	1400	12	3065
1000	1320				190	9.5		1139	7990	52800			292/1000	90392/1000				710
	1460	100	137	561	276	12	1365	1192	14400	82500			293/1000	90393/1000	1245	1330	10	1550
1060	1400	128	103	566	206	9.5	1300	1180	7800	48000				90692/1060				824
	1400	66	100	566	206	9.5	1335	1208	10500	59400			292/1060	90392/1060	1225	1290	8	767
1180	1520	83	101	625	206	9.5	1450	1331	10900	64000			292/1180	90392/1180	1345	1410	8	950
1250	1800	147	161	698	330	12	1685	1474	24800	129000			293/1250	9039/1250	1540	1640	10	2770
1600	2280	166	195	894	408	19	2130	1885	36800	200000			293/1600	9039/1600	1955	2090	15	5375



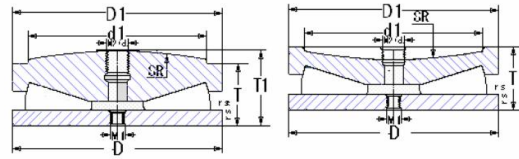
Boundary Dimensions (mm)							Basic Load Ratings (kN)		Designation		Mass (kg)
d	D	H	$r_{1.2min}$	$r_{3.4min}$	d_1	D_1	C_a	C_{oa}	new	old	Refer.
170	340	103	5	5	174	335	1520	2630	99434	9019434	58
260	480	132	6	6	265	475	2540	11300	99452	9019452	111
280	520	145	6	6	285	515	2930	13300	99456	9019456	143.8
320	580	155	7.5	7.5	325	575	3700	17500	99464	9019464	194
380	670	175	7.5	7.5	385	665	5040	10400	99476	9019476	254



TTSX000型 (439000型)

TTSV000型 (429000型)

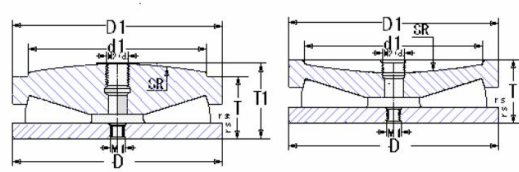
Boundary Dimensions (mm)									Basic Load Ratings (kN)	Designation		Mass (kg)
D	T	T ₁	SR	M ₁	M ₂ (d)	r _{min}	d ₁	D ₁	Coa	New	Old	Refer.
150	48		228.6	M12	20	1.5	127	148	2320	TTSV150		5.47
	48	55	457.2	M12	20	1.5	127	148	2320		TTSX150	6.3
175	53		228.6	M12	20	1.5	152	173	3200	TTSV175		7.92
	53	62	457.2	M12	20	1.5	152	173	3200		TTSX175	9.6
205	65		254	M20	26	1.5	178	203	4550	TTSV205		14.3
	65	76	508	M20	26	1.5	178	203	4550		TTSX205	16.2
265	81		304.8	M20	26	1.5	229	263	7700	TTSV265		33.6
	81	95	609	M20	26	1.5	229	263	7700		TTSX265	35.5
320	95		380	M24	M30	1.5	280	318	11460	TTSV320		42.5
	95	112	762	M24	M30	1.5	280	318	11460		TTSX320	58.9
380	112		457.2	M24	M30	1.5	330	378	17100	TTSV380		96
	112	129	914.4	M24	M30	1.5	330	378	17100		TTSX380	116
410	122		508	M24	M30	3	355	408	20000	TTSV410		125
	122	142	1016	M24	M30	3	355	408	20000		TTSX410	155
440	130		508	M24	M36	3	380	438	23000	TTSV440		170
	130	152	1016	M24	M36	3	380	438	23000		TTSX440	191
495	146		558.8	M24	M36	3	432	492	30000	TTSV495		205



TTSX000型 (439000型)

TTSV000型 (429000型)

Boundary Dimensions (mm)									Basic Load Ratings (kN)	Designation		Mass (kg)
D	T	T ₁	SR	M ₁	M ₂ (d)	r _{min}	d ₁	D ₁	Coa	New	Old	Refer.
	146	172	1066.8	M24	M36	3	432	492	30000		TTSX495	229
508	177.419		1143	M24	M36	2.5	440	504.825	31000		TTSX508	225
525	155		635	M24	M36	3	460	522	35800	TTSV525		203
	155	180	1270	M24	M36	3	460	522	35800		TTSX525	248
554	190.5		1270	M24	M42	3	414	555	37500	TTSV554		312
	190.5		1270	M24	M42	3	465.4	555	37500	TTSV554A		312
555	165		635	M24	M36	3	482	552	37500	TTSV555		300
	165	192	1270	M24	M36	3	482	552	37500		TTSX555	345
580	165		710	M24	M42	3	510	577	38500	TTSV580		240
	165	195	1422.4	M24	M42	3	510	577	38500		TTSX580	305
610	178		762	M30	M42	3	533	607	44500	TTSV610		400
	178	205	1524	M30	M42	3	533	607	44500		TTSX610	443
640	185		762	M30	M42	3	550	637	47500	TTSV640		410
	185	214.8	1524	M30	M43	3	550	637	47500		TTSX640	440
710	235	250	1600	M30	M42	4	610	705	62500		TTSX710	697
750	240	260	1600	M30	M48	4	650	745	63400		TTSX750	740



TTSX000型 (439000型)

TTSV000型 (429000型)

Boundary Dimensions (mm)									Basic Load Ratings (kN)	Designation		Mass (kg)
D	T	T ₁	SR	M ₁	M ₂ (d)	r _{smin}	d ₁	D ₁	Coa	New	Old	Refer.
800	206	250	1524	M36	M48	7	700	800	71500		TTSX800	857
900	231	275	1800	M36	M48	4	750	930	93000		TTSX900	1270
920		280	2300	M36	M48	7.5	830	920	93000		TTSX920	1180

Double directional tapered roller thrust bearings

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Boundary Dimensions (mm)					Abutment and Fillet Dimensions (mm)			Basic Load Ratings (kN)		Designation		Mass (kg)	Equivalent to					
d	D	H	r _{1.2min}	r _{3.4min}	B	da	D ₁	Ca	Coa	New	Old	Refer.	SKF	NSK	FAG	KOYO	NTN	
120	250	95	1	3	20	144	145	640		512250Y		21.9		120TFD2501				
130	280	125	1	3	30	150	163	1020		513280Y		36.8		130TFD2801				
160	225	78	1	2	18	169	175	325		516225Y		9.3		160TFD2201				
	300	110	1	2	34	186	190	825	3000	515805	829232	3.5		515805				
170	240	84	1	2	20	182	184	320	1200	528974	829234	12.5	350980C	170TFD2401	528974	2THR342408A	CRTD3401	
180	280	90	1	2	20	192	196	560	2340	528294	829736	22.0	353162	180TFD2801	528294		CRTD3618	
	400	200	2	4	50	208	212	1970		518400Y		122		180TFD4001				
190	330	120	1	2	26	206	215	1110		519330Y		41.9		190TFD3301				
200	280	96	1	2	22	210	216	495		520280Y		17.7		200TFD2801				
	300	96	1	2	22	231	236	570	2230	563400		23.0		563400				
	560	138	3	4	40	413	430	1600	6700	520560Y		105		CRTD4013				
220	300	96	1	2	22	231	236	570	2240	528876	829244	20.0	351019C	220TFD3001	528876			
	340	130	1	2	39	242	250	860	3700	522340Y		40.5						
	372	195	2	2						522372Y	829744	88.3		CRTD4401				
230	410	150	2	4	34	264	270	1450	5650	523410Y		82.8		230TFD4101				
	400	180	2	4	42		260	1500	5800	530852	829746	110		530852				
240	320	96	1	2	22	251	256	565	1980	529086	829748	22.5	351182C	240TFD3201	529086		CRTD4802	
	380	105	2	2	27		270	980	5200	545678		42.0		545678				
	470	180	3	6	45	240	290			532584		140		532584				
250	360	96	1	2	24	250	285	680	2820	547482		30.0		547482				
	380	100	1	2	22	265	275	1010	4750	522010	829950	43.5	353005	250TFD3801	522010	2THR503810	CRTD5007 CRTD5005	
260	360	92	1	2	20	276	285	620	2750	509352	829252	26.3	350981C	260TFD3601	509352	2THR52369	CRTD5216	

Double directional tapered roller thrust bearings

WNBZ



Boundary Dimensions (mm)					Abutment and Fillet Dimensions (mm)			Basic Load Ratings (kN)		Designation		Mass (kg)	Equivalent to					
d	D	H	r _{1.2min}	r _{3.4min}	B	da	D ₁	Ca	Coa	New	Old	Refer.	SKF	NSK	FAG	KOYO	NTN	
	360	92	1	2	20	276	285	620	2750	526360Y		25.6	260TFD3602					
	400	120	2	3	25	276	290	920	3930	526400Y		51.5	2THR524012 CRTD5317					
270	450	180	2	5	45	300	310	1610	6000	527450Y	829954	120	351164C					
	450	180	3	6	44	270	316	1820	7500	527907		115	527907					
300	420	100	2	2	23	320	330	935	2820	524740	829260	41.4	300TFD4201 524740 CRTD6001					
305	530	200	2	5	56	305	345	2160	8200	544025		200	544025 CRTD6104					
310	490	130	3	3	29	310	350	1310	4870	524902		92.4	524902					
320	440	108	1	3	20	349	355	985	4840	528562	829264	46.7	353102	320TFD4401	528562	2THR644411	CRTD6405	
	470	130	1	3	30	340	350	1210	5940	509654	829764	80.0	350982C	320TFD4701	509654	2THR644713	CRTD6404	
	500	218	2	5	60	320	350	2200	8280	540295		175	540295					
	600	240	2	4	50	320	380	3780	9890	522837		335	522837					
350	490	130	1	3	30	380	390	1350	5390	530739	829970	73.5	351100C	350TFD4901	530739	2THR704913A	CRTD7012	
	490	145	2	3	45	350	390	1350	6700	579703		81.0	579703					
	540	135	1	4	30	384	400	1790	9680	522008	829970K	115	353006	350TFD5401	522008			
360	530	145	2	4	45		410	1310	5800	573320		101	573320					
	560	200	2	5	48	360	396	1700	7200	524194	829272	180	524194					
380	530	130	2	4	30	380	410	1660	8500	513828	829276	95.0	513828					
	560	130	2	3	32	416	430	1680	10500	513125	829776	102	351175C	380TFD5601	513125	2THR765613	CRTD7612	
	560	138	2	3	40	380	430			548285		110	548285					
	560	145	2	3	47	416	430	1720	9200	567356		130	567356					
	650	215	2	4	65	446	450	3030	17200	545936	829976	205	BFDB353204	545936				

Double directional tapered roller thrust bearings

WNBZ



Boundary Dimensions (mm)					Abutment and Fillet Dimensions (mm)			Basic Load Ratings (kN)		Designation		Mass (kg)	Equivalent to				
d	D	H	r _{1.2min}	r _{3.4min}	B	da	D ₁	Ca	Coa	New	Old	Refer.	SKF	NSK	FAG	KOYO	NTN
400	650	200	2	5	50	400	450	2700	13700	540162	829780	250			540162		
410	560	160	2	5	40	410	440	2780	10200	524134		112			524134		CRTD8201
420	620	170	2	3	35	455	465	2180	11000	542620Y	829784	185	351121C	420TFD6201		2THR846217	CRTD8403
	620	170	2	3	35	455	470	2180	11200	509392		185			509392		
	620	185	2	3	50	455	465	2060	11900	542621Y	829784K	200	BFDB353200/HA3				
	620	185	2	3	50	455	470	2200	12000	545991		202			545991		
	620	200	3	3	65	420	470	2200	12000	579704		217			579704		
440	645	167	3	4	50	480	490	2010	11200	534038	829788	190	353152		534038		CRTD8801
	660	155	3	5	35	485	505	2430	12000	523720		180		440TFD6601	523720		
450	645	155	4	4	38	480	490	2280	11200	545645Y	829990	170	350916D	450TFD6401			
	645	155	3	5	38	480	500	2350	12200	513401		157			513401		
460	680	155	2	4	30	496	510	2450		546680Y		186		460TFD6801			
470	720	200	2	4	40	518	535	3140	17600	509391		285		470TFD7201	509391	2THR947220	CRTD9408
	720	200	2	4	50	515	535	3140	17600	547720Y	829994	305	353151				
	720	210	2	4	60	515	535	3410	18700	549701		325			549701		
480	710	218	3	5	57	480	575	2700	13000	547584		280			547584		
530	710	218	2	3	57	560	575	2500	11400	511746		245	351475C	530TFD7101	511746		
550	760	230	2	5	50	585	610	2700	14100	515196		310	350976C	550TFD7601	515196	2THR550	CRTD11002
	760	230	5	2	50	583	590	3200		550760Y		310		550TFD7602			
600	910	290	5	6	70	670	680	5200	22400	560910Y		655	350901C	600TFD9101			
	880	290	5	6	70	670	680	5200	22400	560880Y		550	BFDB350824B/HA1				
670	900	230	2	5	50	705	725	3700	19800	521823		425	351761A	670TFD9001	521823		



Boundary Dimensions (mm)					Abutment and Fillet Dimensions (mm)			Basic Load Ratings (kN)		Designation		Mass (kg)	Equivalent to				
d	D	H	r _{1.2min}	r _{3.4min}	B	da	D ₁	Ca	Coa	New	Old	Refer.	SKF	NSK	FAG	KOYO	NTN
900	1180	220	2	6	48	960	990	4450	29000	590118Y		605	353002	900TFD1101			



Web: www.nbz-bearing.com
 E-mail: wnzbearing@gmail.com
 Add: Wafangdian, Dalian, China
 P.C.: 116300