

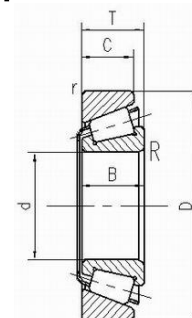


Tapered roller bearings
for machine tool spindle
with P4, P5 grade

Dalian Goldbull Bearing Co.,Ltd

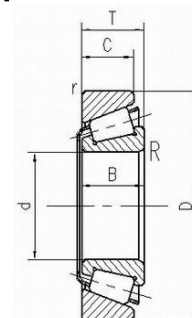
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Tapered roller bearings——single row for machine tool spindle with P4, P5 grade



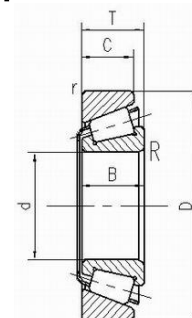
Bearing Designations		Principal Dimensions (mm)							Basic load rating (KN)		Speed rating (rpm)		Calculation coefficient				Weight (kg)
Old spec	Designations	d	D	T	B	C	R	r	Dynamic (Cr)	Static (Cor)	Grease	Oil	e	Y	Y ₀	α	
7516E	32216	80	140	35.25	33	28	2.5	2	195	291	2400	3400	0.42	1.43	0.79	32	2.190
7217E	30217	85	150	30.5	28	24	2.5	2	178	254	2200	3200	0.42	1.43	0.79	31	2.05
7517E	32217	85	150	38.5	36	30	2.5	2	226	344	2200	3200	0.42	1.43	0.79	34	2.70
2007118	32018	90	140	32	32	24	2	1.5	165	255	2200	3200	0.42	1.4	0.78	30	1.77
	32018X2A	90	140	32.4	30	26	2	1.5	150	227	2200	3200	0.34	1.76	0.97	23	1.74
7218E	30218	90	160	32.5	30	26	2.5	2	222	291	2000	3000	0.42	1.43	0.79	33	2.73
7518E	32218	90	160	42.5	40	34	2.5	2	267	417	2000	3000	0.42	1.43	0.79	37	3.61
7318E	30318	90	190	46.5	43	36	4	3	341	467	1800	2600	0.35	1.74	0.96	37	5.76
2007119	32019	95	145	32	32	24	2	1.5	182	292	2200	3200	0.44	1.35	0.8	31	1.87
	32019X2A	95	145	32.4	30	26	2	1.5	161	248	2200	3200	0.36	1.7	0.93	33	1.80
7219E	30219	95	170	34.5	32	27	3	2.5	228	332	1900	2800	0.42	1.73	0.79	35	3.27
7519E	32219	95	170	45.5	43	37	3	2.5	299	471	1900	2800	0.42	1.43	0.79	40	4.34
7319E	30319	95	200	49.5	45	38	4	3	365	445	1800	2600	0.35	1.74	0.96	39	6.91
2007120	32020	100	150	32	32	24	2	1.5	190	281	1600	2000	0.46	1.3	0.72	33	1.87
7220E	30220	100	180	37	34	29	3	2.5	254	374	1900	2800	0.42	1.73	0.79	37	3.56
7520E	32220	100	180	49	46	39	3	2.5	336	536	1800	2600	0.42	1.43	0.79	42	5.31

Tapered roller bearings——single row for machine tool spindle with P4, P5 grade



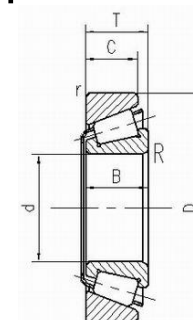
Bearing Designations		Principal Dimensions (mm)							Basic load rating (KN)		Speed rating (rpm)		Calculation coefficient				Weight (kg)
Old spec	Designations	d	D	T	B	C	R	r	Dynamic (Cr)	Static (Cor)	Grease	Oil	e	Y	Y ₀	α	
7320E	30320	100	215	51.5	47	39	4	3	407	562	1700	2400	0.35	1.74	0.96	41	8.09
2007121	32021	105	160	35	35	26	2.5	2	199	320	1900	2800	0.44	1.35	0.8	34	2.380
7221E	30221	105	190	39	36	30	3	2.5	292	405	1800	2600	0.42	1.43	0.79	39	4.47
7521E	32221	105	190	53	50	43	3	2.5	385	610	1800	2600	0.42	1.43	0.79	45	6.34
2007122	32022	110	170	38	38	29	2.5	2	231	365	1800	2600	0.43	1.4	0.77	37	3.08
	32022X2A	110	170	38.4	36	31	2.5	2	198	297	1800	2600	0.35	1.7	0.95	33	3.10
7222E	30222	110	200	41	38	32	3	2.5	313	470	1700	2400	0.42	1.43	0.79	41	5.27
7522E	32222	110	200	56	53	46	3	2.5	425	696	1700	2400	0.42	1.43	0.79	48	7.62
2007124	32024	120	180	38	38	29	2.5	2	237	395	1400	2400	0.46	1.3	0.72	40	3.31
	32024X2A	120	180	38.4	36	31	2.5	2	214	383	1700	2400	0.37	1.62	0.89	29	3.66
7224E	30224	120	215	43.5	40	34	3	2.5	337	514	1600	2200	0.44	1.38	0.76	45	6.32
7524E	32224	120	215	61.5	58	50	3	2.5	480	720	1600	2200	0.44	1.38	0.76	52	9.60
2007126	32026	130	200	45	45	34	2.5	2	340	580	1600	2200	0.43	1.4	0.8	42	5.06
	32026X2A	130	200	45.5	42	36	2.5	2	267	467	1600	2200	0.35	1.72	0.95	39	4.66
7226E	30226	130	230	43.75	40	34	4	3	360	580	1500	2000	0.44	1.38	0.76	47	7.02
7526E	32226	130	230	67.75	64	54	4	3	541	922	1500	2000	0.44	1.38	0.76	56	11.8

Tapered roller bearings——single row for machine tool spindle with P4, P5 grade



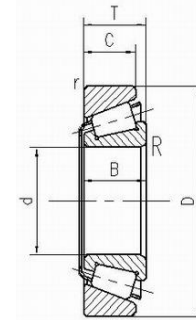
Bearing Designations		Principal Dimensions (mm)							Basic load rating (KN)		Speed rating (rpm)		Calculation coefficient				Weight (kg)
Old spec	Designations	d	D	T	B	C	R	r	Dynamic (Cr)	Static (Cor)	Grease	Oil	e	Y	Y ₀	α	
2007128	32028	140	210	45	45	34	2.5	2	330	560	1600	2200	0.46	1.3	0.72	46	5.84
	32028X2A	140	210	45.5	42	36	2.5	2	280	509	1600	2200	0.37	1.62	0.89	42	4.94
7228E	30228	140	250	45.75	42	36	4	3	405	615	1400	1900	0.44	1.38	0.76	50	8.8
7528E	32228	140	250	71.75	68	58	4	3	650	1000	1400	1900	0.44	1.38	0.76	61	14.7
2007130	32030	150	225	48	48	36	3	2.5	365	635	950	1400	0.46	1.3	0.72	49	6.40
	32030X2A	150	225	48.5	45	38	3	2.5	280	454	950	1400	0.39	1.5	0.85	46	6.84
7230E	30230	150	270	49	45	38	4	3	454	693	1300	1800	0.44	1.38	0.76	53	11.2
7530E	32230	150	270	77	73	60	4	3	735	1140	1200	1700	0.44	1.38	0.76	64	18.4
2007132	32032	160	240	51	51	38	3	2.5	415	730	1100	1600	0.46	1.3	0.72	53	7.69
	32032X2A	160	240	51.5	48	41	3	2.5	381	707	1300	1800	0.37	1.6	0.89	47	7.67
7232E	30232	160	290	52	48	40	4	3	510	758	1100	1600	0.44	1.38	0.76	57	13.4
7532E	32232	160	290	84	80	67	4	3	925	1490	1100	1600	0.44	1.38	0.76	70	23.3
2007934	32934	170	230	38	38	30	2.5	2	280	560	1400	1900	0.37	1.6	0.9	42	4.51
	32934X2A	170	230	38.5	36	31	2.5	2	244	490	1400	1900	0.28	2.12	1.17	36	3.86
2007134	32034	170	260	57	57	43	3	2.5	520	870	1200	1700	0.44	1.35	0.8	56	10.60
	32034X2A	170	260	57.5	54	46	3	2.5	417	816	1400	1900	0.31	1.94	1.07	47	10.10

Tapered roller bearings——single row for machine tool spindle with P4, P5 grade



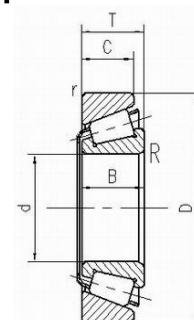
Bearing Designations		Principal Dimensions (mm)							Basic load rating (KN)		Speed rating (rpm)		Calculation coefficient				Weight (kg)
Old spec	Designations	d	D	T	B	C	R	r	Dynamic (Cr)	Static (Cor)	Grease	Oil	e	Y	Y ₀	α	
2007936	32936	180	250	45	45	34	2.5	2	345	725	1600	2500	0.48	1.25	0.7	53	6.70
2007136	32036	180	280	64	64	48	3	2.5	610	1070	950	1400	0.42	1.4	0.8	75	13.90
	32036X2A	180	280	64.5	60	52	3	2.5	511	950	1100	1600	0.28	2.16	1.19	53	13.00
2007938	32938	190	260	45	45	34	2.5	2	335	745	1100	1600	0.48	1.25	0.7	55	6.94
	32938X2A	190	260	45.5	42	36	2.5	2	350	670	1100	1600	0.38	1.6	0.86	49	6.52
7138	32038X2A-1	190	290	51	46	40	3	2.5	390	703	950	1400	0.38	1.58	0.87	53	10.50
2007138	32038X2A	190	290	64.5	60	52	3	2.5	520	882	1000	1500	0.37	1.6	0.89	58	15.28
2007940	32940	200	280	51	51	39	3	2.5	455	935	1000	1500	0.39	1.53	0.84	54	9.56
	32940X2A	200	280	51.5	48	51	3	2.5	380	742	1000	1500	0.39	1.53	0.84	54	8.86
2007140	32040X2A	200	310	70.5	66	52	3	2.5	549	1092	950	1400	0.39	1.53	0.84	65	18.20
2007944	32944X2A	220	300	51.5	48	51	3	2.5	390	835	900	1400	0.39	1.53	0.84	66	10.10
2007144	32044X2A	220	340	76.5	72	62	4	3	754	1447	950	1400	0.35	1.73	0.95	67	23.30
2007948	32948	240	320	51	51	39	3	2.5	500	1050	850	1200	0.46	1.3	0.7	64	11.50
	32948X2A	240	320	51	48	41	3	2.5	390	790	900	1300	0.32	1.88	1.04	52	10.8
2007148	32048	240	360	76	76	57	4	3	845	1410	850	1200	0.31	1.9	1.05	63	24.9

Tapered roller bearings——single row for machine tool spindle with P4, P5 grade



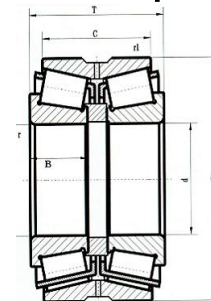
Bearing Designations		Principal Dimensions (mm)							Basic load rating (KN)		Speed rating (rpm)		Calculation coefficient				Weight (kg)
Old spec	Designations	d	D	T	B	C	R	r	Dynamic (Cr)	Static (Cor)	Grease	Oil	e	Y	Y ₀	α	
	32048X2A	240	360	76.5	72	62	4	3	770	1400	850	1200	0.31	1.9	1.05	65	23.80
2007952	32952X2A	260	360	64.5	60	52	3	2.5	595	1250	800	1100	0.3	2.03	1.09	60	19.20
2007152	32052X2A	260	400	87.7	82	71	5	4	1050	1960	800	1100	0.3	2.03	1.11	71	37.80
2007956	32956	260	380	63.5	63.5	48	3	2.5	720	1500	800	1100	0.43	1.4	0.77	100	20.0
	32956X2A	260	380	64.5	60	52	3	2.5	600	1250	800	1100	0.32	1.9	1.03	64	21.30
2007156	32056X2A	280	420	87.7	82	71	5	4	1000	1840	750	1000	0.37	1.6	0.89	83	39.60
2007960	32960	300	420	76	76	57	4	3	896	1820	630	850	0.4	1.5	0.8	79	32.0
	32960X2A	300	420	74.5	72	62	4	3	710	1810	700	950	0.28	2.1	1.17	67	30.20
2007160	32060	300	460	100	100	74	5	4	1440	2700	670	900	0.43	1.4	0.76	97	56.60
	32060X2A	300	460	100.7	95	77	5	4	1310	2400	700	950	0.36	1.7	0.9	89	57.00
2007964	32964	320	440	76	76	57	4	3	1000	2300	650	900	0.43	1.4	0.8	84	34.50
2007164	32064	320	480	100	100	74	5	3	1540	2940	630	850	0.46	1.3	0.72	104	62.70
2007968	32968	340	460	76	76	57	4	3	1000	2350	500	830	0.44	1.35	0.8	90	36.50
2007972	32972	360	480	76	76	57	4	3	970	2220	500	630	0.46	1.3	0.72	97	38.50

Tapered roller bearings——single row for machine tool spindle with P4, P5 grade



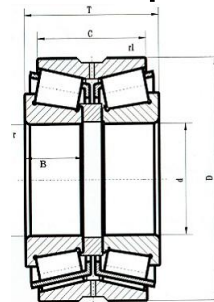
Bearing Designations		Principal Dimensions (mm)							Basic load rating (KN)		Speed rating (rpm)		Calculation coefficient				Weight (kg)
Old spec	Designations	d	D	T	B	C	R	r	Dynamic (Cr)	Static (Cor)	Grease	Oil	e	Y	Y _o	α	
1007980	31980	400	540	70	70	53	5	4	1040	2320	350	450	0.42	1.5	0.9	100	44.00
2007980	32980	400	540	87	82	71	5	4	1280	2880	380	480	0.4	1.4	0.8	185	54.10
2007984	32984	420	560	87	82	72	5	4	1300	2890	320	430	0.41	1.5	0.81		54.80

Tapered roller bearings——double row for machine tool spindle with P4, P5 grade



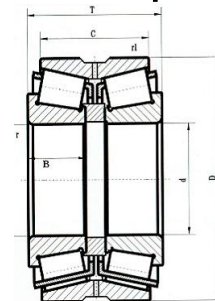
Bearing Designations		Principal Dimensions (mm)							Basic load rating (KN)		Speed rating (rpm)		Calculation coefficient				Weight (kg)
Old spec	Designations	d	D	T	B	C	R	r	Dynamic (Cr)	Static (Cor)	Grease	Oil	e	Y ₁	Y ₂	Y ₀	
2097940	352940X2	200	280	110	48	85	3	0.9	670	1530	900	1200	0.39	1.72	2.56	1.68	18.10
	352940X2-1	200	280	116	51.5	85	3	1	670	1530	900	1200	0.39	1.72	2.56	1.68	18.90
	352940X2-2	200	280	117	55	97	3	0.6	670	1530	900	1200	0.39	1.72	2.56	1.68	20.70
	352940X2-3	200	280	110	48.5	85	3	1	670	1530	900	1200	0.39	1.72	2.56	1.68	18.20
2097944	352944X2	220	300	110	48	88	3	0.8	705	1720	810	1100	0.31	2.18	3.24	2.13	21.20
2097948	352948X2	240	320	105	48	82	3	0.9	665	1590	760	1000	0.32	2.12	3.15	2.07	22.30
	352948X2-2	240	320	109	48	90	3	1	675	1550	760	1000	0.32	2.12	3.15	2.07	23.50
	352948X2-1	240	320	110	48	87	3	1	665	1590	760	1000	0.32	2.12	3.15	2.07	23.20
2097952	352952X2	260	360	134	60	108	3	0.9	1010	2500	670	900	0.3	2.23	3.32	2.18	39.70
	352952X2-1	260	360	133	60	109	3	1.1	1010	2500	670	900	0.3	2.23	3.32	2.18	39.80
	352952X2-3	260	360	92	40	62	3	1	630	1370	700	950	0.7	0.96	1.44	0.94	25.50
	352952	260	360	141	63.5	110	3	1	1120	2550	670	900	0.41	1.66	2.47	1.62	39.00
2097956	352956X2	280	380	134	60	108	3	0.9	1030	2650	620	820	0.32	2.1	3.13	2.05	44.00
2097960	352960X2	300	420	160	72	128	4	1.1	1670	3614	580	770	0.28	2.39	3.56	2.34	60.80
2097964	352964X2	320	440	160	72	128	4	1	1650	3900	530	710	0.31	2.15	3.21	2.11	67.40

Tapered roller bearings——double row for machine tool spindle with P4, P5 grade



Bearing Designations		Principal Dimensions (mm)							Basic load rating (KN)		Speed rating (rpm)		Calculation coefficient				Weight (kg)
Old spec	Designations	d	D	T	B	C	R	r	Dynamic (Cr)	Static (Cor)	Grease	Oil	e	Y ₁	Y ₂	Y ₀	
2097968	352968X2	340	460	160	72	128	4	1.1	1540	4050	500	660	0.31	2.15	3.2	2.1	71.00
2097972	352972X2	360	480	160	72	128	4	1	1640	2240	510	680	0.33	2.05	3.05	2	74.70
1097976	351976	380	520	145	65	105	4	1.1	1660	3800	530	710	0.38	1.77	2.64	1.73	78.80
	351976X2	380	520	149	65	112	4	1.1	1660	3800	530	710	0.38	1.77	2.64	1.73	82.40
1097980	351980	400	540	145	65	105	4	1.1	1650	3850	530	710	0.45	1.5	2.23	1.47	84.60
1097984	351984	420	560	145	65	105	4	1.1	1880	4450	360	480	0.38	1.77	2.64	1.73	87.00
1097988	351988	440	600	170	74	125	4	1.1	2060	5080	360	480					114.00
1097996	351996	480	650	180	78	130	5	1.5	2150	5150	360	480	0.42	1.61	2.4	1.58	159.00
10979/500	3519/500	500	670	180	78	130	5	1.5	1470	6200	350	460	0.43	1.55	2.31	1.52	158.00
10979/530	3519/530	530	710	190	82	136	5	1.5	2670	6300	320	420	0.39	1.73	2.57	1.69	176.00
10979/560	3519/560	560	750	213	85	156	5	1.5	3410	8500	310	410	0.43	1.57	2.34	1.53	232.00

Tapered roller bearings——double row for machine tool spindle with P4, P5 grade



Bearing Designations		Principal Dimensions (mm)							Basic load rating (KN)		Speed rating (rpm)		Calculation coefficient				Weight (kg)
Old spec	Designations	d	D	T	B	C	R	r	Dynamic (Cr)	Static (Cor)	Grease	Oil	e	Y ₁	Y ₂	Y ₀	
10979/600	3519/600	600	800	205	90	156	5	1.5	3410	9050	290	390	0.33	2.05	3.05	2	247.00
10979/710	3519/710	710	950	240	106	175	6	2.5	4730	13200	250	320	0.46	1.47	2.19	1.44	445.0