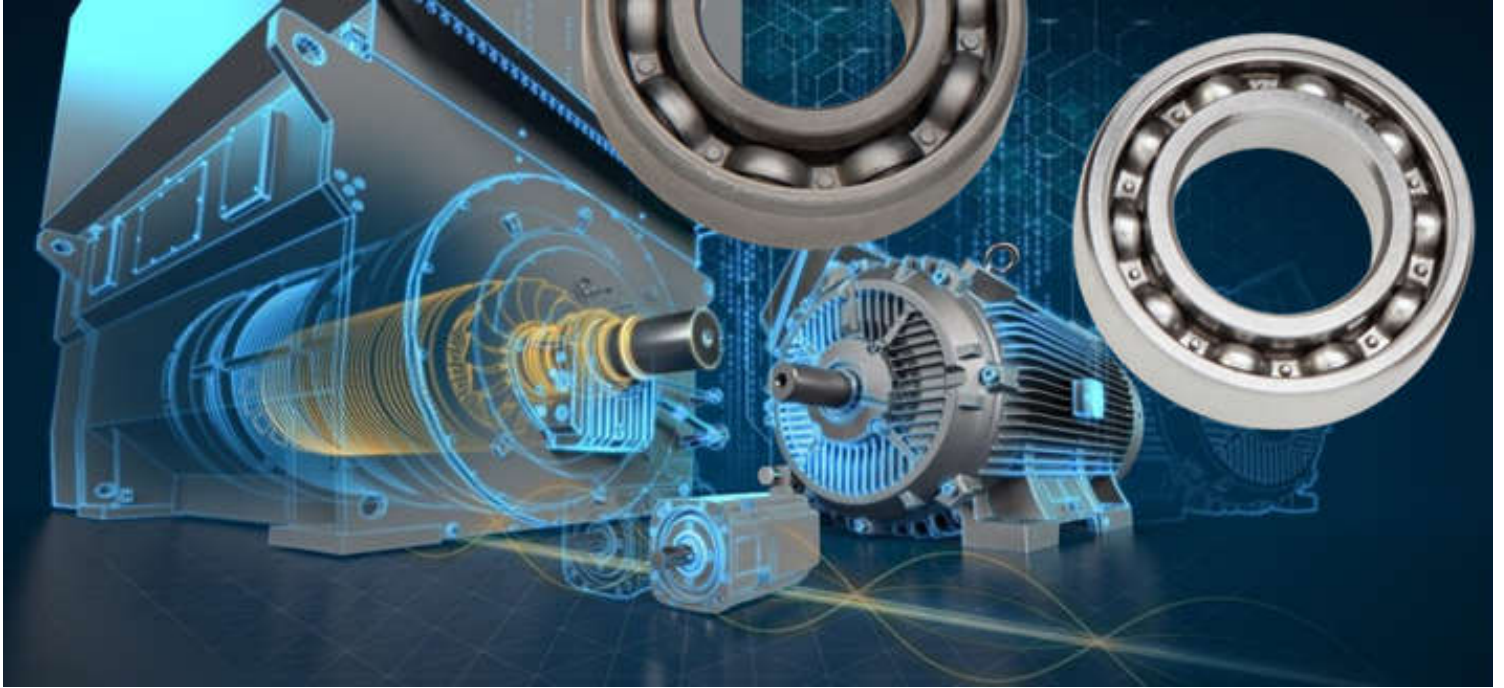


HIGH-TEMP DEEP GROOVE BALL BEARINGS FOR FAST SPEEDS



Version: 10/2023

Every care has been taken to ensure the correctness of the information contained in this document but no liability can be accepted for any errors or omissions. Subject to change without prior notice.

GMW High-temp Deep Groove Ball Bearings for fast speeds:

Besides High-temp Deep Groove Ball Bearings for slow speeds, our also offers normal bearings, which can be used for fast speeds. Due to their heat treatment, these bearings are suitable for considerably higher temperatures than normal standard bearings. Our offers two different versions:

T150 – The Standard (According to DIN 620 and DIN ISO 1132)

Every T150 bearing is filled with suitable lubricant or available as sealed bearing and comprises the following properties:

- Heat treatment of the bearing up to 150°C
- Material : AISI52100 steel
- Radial clearance: Normal clearance CN or C3
- Riveted sheet steel cage
- High-quality lubricant Polyurea (suitable up to 180°C)
- Optional:

Steel shields (2Z) or NBR seals (2RS1)

T200 – The Standard (According to DIN 620 and DIN ISO 1132)

Every T200 bearing is filled with suitable lubricant or available as sealed bearing and comprises the following properties:

- Heat treatment of the bearing up to 200°C
- Material : AISI52100 steel
- Radial clearance: Normal clearance CN or C3
- Riveted sheet steel cage
- High-quality lubricant Polyurea (suitable up to 200°C)
- Optional:

Steel shields (2Z) or NBR seals (2RS1)

T250 – The Standard (According to DIN 620 and DIN ISO 1132)

Every T250 bearing is filled with suitable lubricant or available as sealed bearing and comprises the following properties:

- Heat treatment of the bearing up to 250°C
- Material : AISI52100 steel
- Radial clearance: Normal clearance C3 or C4
- Riveted sheet steel cage
- High-quality lubricant PTFE (suitable up to 250°C)
- Optional:

Steel shields (2Z) or NBR seals (2RS1)

T250X The Upgrade (According to DIN 620 and DIN ISO 1132)

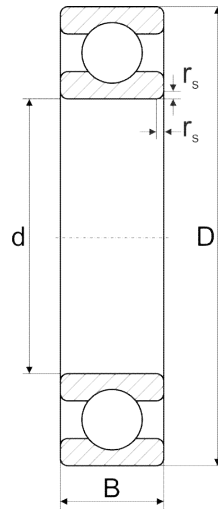
Every T250X bearing is filled with suitable lubricant or available as sealed bearing and comprises the following properties:

- Heat treatment of the bearing up to 250°C
- Material : AISI52100 steel
- Radial clearance: C4
- Manganese Phosphate surface treatment According DIN EN ISO 9717
- Riveted sheet steel cage
- High-quality lubricant PTFE (suitable up to 250°C)
- Optional:

Steel shields (2Z) or NBR seals (2RS1)



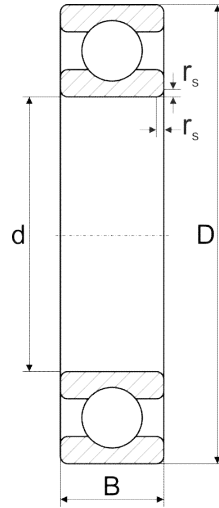
60XX



GMW	Dimensionen				Load Ratings		Max. Speed				Weight	
	Code	d	D	B	rs	C0	Cdyn	T150	T200	T250		T250X
		[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[min ⁻¹]	[min ⁻¹]	[min ⁻¹]		[min ⁻¹]
				min			2Z	2Z	2Z	2Z		
6000	10	26	8	0,3	1,96	4,55	22 222	19 000	16 667	2 400	0,019	
6001	12	28	8	0,3	2,36	5,10	20 000	18 000	15 000	2 190	0,020	
6002	15	32	9	0,3	2,85	5,60	17 021	16 000	12 766	1 950	0,031	
6003	17	35	10	0,3	3,25	6,00	15 385	14 000	11 538	1 700	0,038	
6004	20	42	12	0,6	5,00	9,30	12 903	12 000	9 677	1 620	0,068	
6005	25	47	12	0,6	5,85	10,0	11 111	10 000	8 333	1 380	0,080	
6006	30	55	13	1,0	8,00	12,7	9 412	8 500	7 059	1 195	0,122	
6007	35	62	14	1,0	10,2	16,0	8 247	7 500	6 186	1 050	0,157	
6008	40	68	15	1,0	11,6	16,6	7 407	6 700	5 556	890	0,194	
6009	45	75	16	1,0	14,3	20,0	6 667	6 000	5 000	810	0,247	
6010	50	80	16	1,0	15,6	20,8	6 154	5 600	4 615	730	0,272	
6011	55	90	18	1,1	21,2	28,5	5 517	5 000	4 138	695	0,397	
6012	60	95	18	1,1	23,2	29,0	5 161	4 500	3 871	620	0,404	
6013	65	100	18	1,1	25,0	30,5	4 848	4 300	3 636	580	0,411	
6014	70	110	20	1,1	31,0	38,0	4 444	4 000	3 333	530	0,594	
6015	75	115	20	1,1	33,5	39,0	4 211	3 800	3 158	495	0,639	
6016	80	125	22	1,1	40,0	47,5	3 902	3 300	2 927	450	0,844	
6017	85	130	22	1,1	43,0	49,0	3 721	3 100	2 791	410	0,880	
6018	90	140	24	1,5	50,0	58,5	3 478	3 000	2 609	390	1,010	
6019	95	145	24	1,5	54,0	60,0	3 333	2 800	2 500	365	1,070	
6020	100	150	24	1,5	54,0	60,0	3 200	2 600	2 400	320	1,140	

(Remark: The weight applies for the bearing only without lubricant and shields)

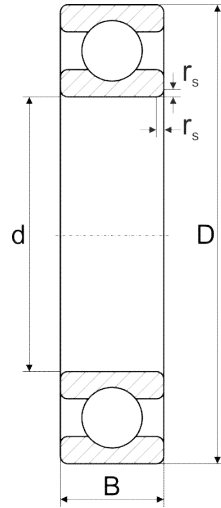
62XX



Code	Thông số kỹ thuật / Dimensionen				Load Ratings		Max. Speed				Weight [kg]
	d	D	B	rs	C0	Cdyn	T150	T200	T250	T250X	
	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[min ⁻¹]	[min ⁻¹]	[min ⁻¹]	[min ⁻¹]	
6200	10	30	9	0,6	2,60	6,00	20 000	17 000	15 000	2 250	0,031
6201	12	32	10	0,6	3,10	6,95	18 182	16 000	13 636	1 950	0,037
6202	15	35	11	0,6	3,75	7,80	16 000	14 000	12 000	1 660	0,043
6203	17	40	12	0,6	4,75	9,50	14 035	12 000	10 526	1 450	0,065
6204	20	47	14	1,0	6,55	12,7	11 940	10 000	8 955	1 220	0,105
6205	25	52	15	1,0	7,80	14,0	10 390	9 000	7 792	1 160	0,128
6206	30	62	16	1,0	11,2	19,3	8 696	7 500	6 522	895	0,195
6207	35	72	17	1,1	15,3	25,5	7 477	6 300	5 607	770	0,291
6208	40	80	18	1,1	18,0	29,0	6 667	5 600	5 000	690	0,371
6209	45	85	19	1,1	20,4	31,0	6 154	5 300	4 615	650	0,429
6210	50	90	20	1,1	24,0	36,5	5 714	4 800	4 286	615	0,466
6211	55	100	21	1,5	29,0	43,0	5 161	4 300	3 871	570	0,616
6212	60	110	22	1,5	36,0	52,0	4 706	4 000	3 529	480	0,789
6213	65	120	23	1,5	41,5	60,0	4 324	3 600	3 243	430	0,980
6214	70	125	24	1,5	44,0	62,0	4 103	3 400	3 077	410	1,060
6215	75	130	25	1,5	49,0	65,5	3 902	3 200	2 927	390	1,170
6216	80	140	26	2,0	53,0	72,0	3 636	3 000	2 727	350	1,390
6217	85	150	28	2,0	64,0	83,0	3 404	2 800	2 553	320	1,780
6218	90	160	30	2,0	72,0	96,5	3 200	2 500	2 400	290	2,140
6219	95	170	32	2,1	81,5	108,0	3 019	2 400	2 264	265	2,610
6220	100	180	34	2,1	93,0	122,0	2 857	2 400	2 143	220	3,130

(Remark: The weight applies for the bearing only without lubricant and shields)

63XX



GMW	Dimensions				Load Ratings		Max. Speed				Weight	
	Code	d	D	B	rs	C0	Cdyn	T150	T200	T250		T250X
		[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[min ⁻¹]	[min ⁻¹]	[min ⁻¹]		[min ⁻¹]
				min			2Z	2Z	2Z	2Z		
6300	10	35	11	0,6	3,45	8,15	17 778	15 000	13 333	1 880	0,055	
6301	12	37	12	1,0	4,15	9,65	16 327	13 000	12 245	1 790	0,062	
6302	15	42	13	1,0	5,40	11,4	14 035	12 000	10 526	1 680	0,088	
6303	17	47	14	1,0	6,55	13,4	12 500	11 000	9 375	1 550	0,114	
6304	20	52	15	1,1	7,80	16,0	11 111	9 500	8 333	1 460	0,151	
6305	25	62	17	1,1	11,4	22,4	9 195	7 500	6 897	1 320	0,234	
6306	30	72	19	1,1	16,3	29,0	7 843	6 300	5 882	1 280	0,355	
6307	35	80	21	1,5	19,0	33,5	6 957	5 600	5 217	1 195	0,471	
6308	40	90	23	1,5	25,0	42,5	6 154	5 000	4 615	895	0,640	
6309	45	100	25	1,5	31,5	53,0	5 517	4 500	4 138	770	0,847	
6310	50	110	27	2,0	38,0	62,0	5 000	4 000	3 750	620	1,100	
6311	55	120	29	2,0	47,5	76,5	4 571	3 600	3 429	550	1,390	
6312	60	130	31	2,1	52,0	81,5	4 211	3 400	3 158	490	1,750	
6313	65	140	33	2,1	60,0	93,0	3 902	3 000	2 927	430	2,070	
6314	70	150	35	2,1	68,0	104,0	3 636	2 800	2 727	375	2,510	
6315	75	160	37	2,1	76,5	114,0	3 404	2 600	2 553	340	3,010	
6316	80	170	39	2,1	86,5	122,0	3 200	2 500	2 400	320	3,580	
6317	85	180	41	3,0	96,5	132,0	3 019	2 400	2 264	310	4,220	
6318	90	190	43	3,0	102,0	134,0	2 857	2 300	2 143	290	4,900	
6319	95	200	45	3,0	112,0	143,0	2 712	2 200	2 034	265	5,660	
6320	100	215	47	3,0	134,0	163,0	2 540	2 100	1 905	230	6,990	

(Remark: The weight applies for the bearing only without lubricant and shields)