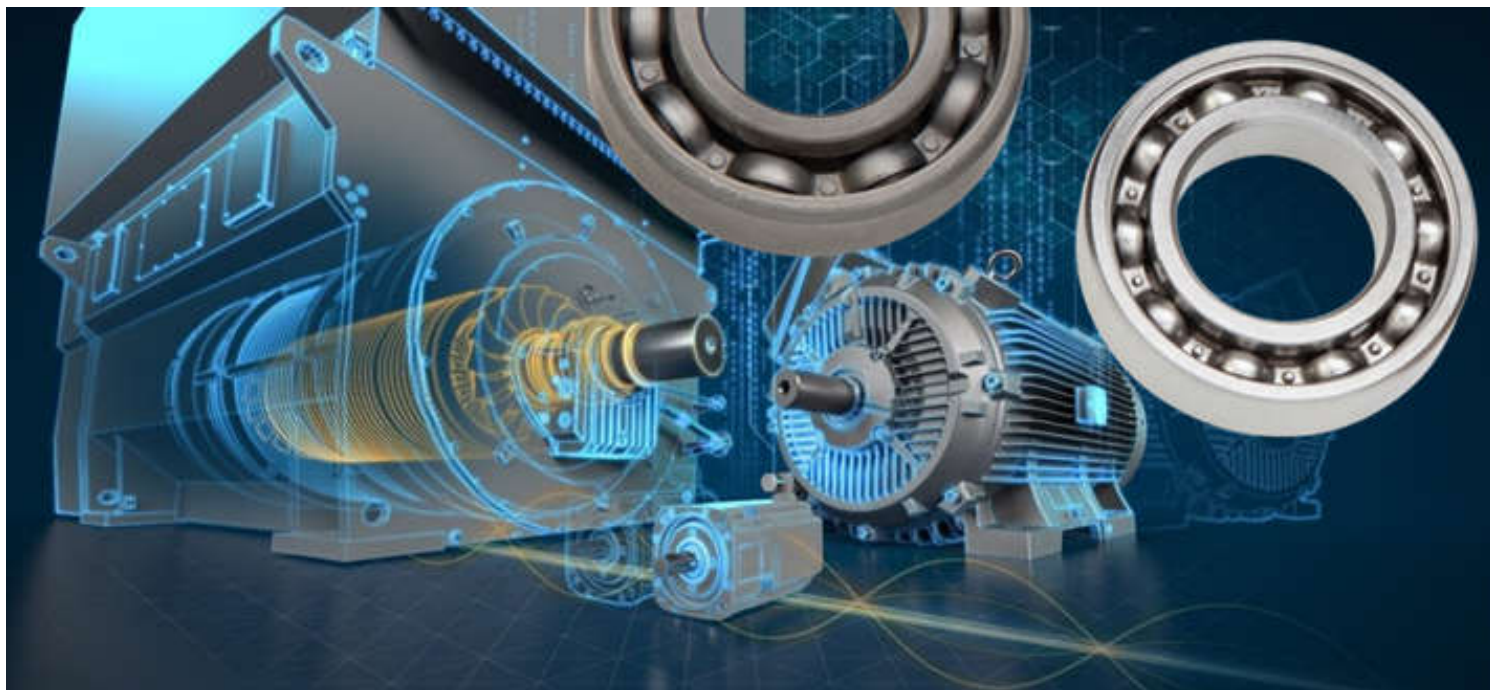


HIGH-TEMP DEEP GROOVE BALL BEARINGS FOR FAST SPEEDS



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 Basic (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 C3
- Riveted sheet steel cage
- High Temperature Semi-Synthetic (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 C3 or C4
- Riveted sheet steel cage
- High Temperature Semi-Synthetic Grease Containing PTFE (suitable up to 220°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 C4
- Riveted sheet steel cage
- High-quality lubricant PTFE (suitable up to 250°C)
- Optional:

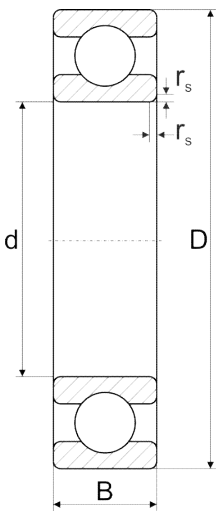
Steel shields (2Z) or NBR seals (2RS1)

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:

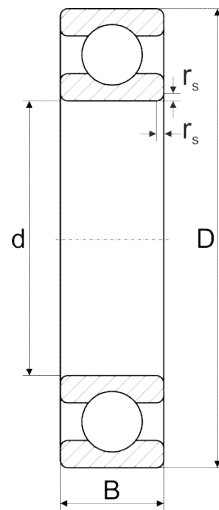
Steel shields (2Z) or NBR seals (2RS1)



GMW	Dimensionen				Load Ratings		Max. Speed				Weight
Code	d	D	B	rs	C0	Cdyn	T150	T200	T250	T250X	
	[mm]	[mm]	[mm]	min	[kN]	[kN]	2Z	2Z	2Z	2Z	
				[mm]			[min ⁻¹]	[min ⁻¹]	[min ⁻¹]	[min ⁻¹]	[kg]
6000	10	26	8	0,3	1,96	4,55	11 000	6 000	4 200	2 400	0,019
6001	12	28	8	0,3	2,36	5,10	10 500	5 800	4 070	2 190	0,020
6002	15	32	9	0,3	2,85	5,60	10 000	5 600	3 960	1 950	0,031
6003	17	35	10	0,3	3,25	6,00	9 000	5 400	3 750	1 700	0,038
6004	20	42	12	0,6	5,00	9,30	8 000	5 200	3 620	1 620	0,068
6005	25	47	12	0,6	5,85	10,0	7 000	4 800	3 350	1 380	0,080
6006	30	55	13	1,0	8,00	12,7	6 000	4 400	3 080	1 195	0,122
6007	35	62	14	1,0	10,2	16,0	5 000	4 000	2 820	1 050	0,157
6008	40	68	15	1,0	11,6	16,6	4 500	3 600	2 520	890	0,194
6009	45	75	16	1,0	14,3	20,0	4 000	3 200	2 230	810	0,247
6010	50	80	16	1,0	15,6	20,8	3 500	2 800	1 960	730	0,272
6011	55	90	18	1,1	21,2	28,5		2 400	1 680	695	0,397
6012	60	95	18	1,1	23,2	29,0		2 200	1 400	620	0,404
6013	65	100	18	1,1	25,0	30,5		1 810	1 260	580	0,411
6014	70	110	20	1,1	31,0	38,0		1 650	1 140	530	0,594
6015	75	115	20	1,1	33,5	39,0		1 430	950	495	0,639
6016	80	125	22	1,1	40,0	47,5		1 220		450	0,844
6017	85	130	22	1,1	43,0	49,0		1 000		410	0,880
6018	90	140	24	1,5	50,0	58,5		900		390	1,010
6019	95	145	24	1,5	54,0	60,0		800		365	1,070
6020	100	150	24	1,5	54,0	60,0		700		320	1,140

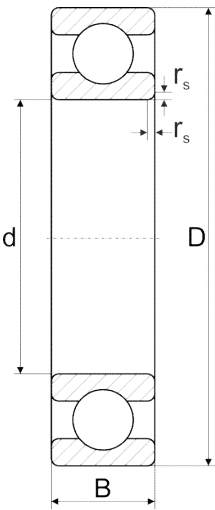
(Remark: The weight applies for the bearing only without lubricant and shields)

62XX



GMW	Thông số kỹ thuật / 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]	
6200	10	30	9	0,6	2,60	6,00	10 500	5 800	3 920	2 250	0,031
6201	12	32	10	0,6	3,10	6,95	10 000	5 600	3 780	1 950	0,037
6202	15	35	11	0,6	3,75	7,80	9 600	5 400	3 640	1 660	0,043
6203	17	40	12	0,6	4,75	9,50	9 000	5 200	3 360	1 450	0,065
6204	20	47	14	1,0	6,55	12,7	8 200	4 800	3 080	1 220	0,105
6205	25	52	15	1,0	7,80	14,0	7 100	4 400	2 800	1 160	0,128
6206	30	62	16	1,0	11,2	19,3	6 500	4 020	2 520	895	0,195
6207	35	72	17	1,1	15,3	25,5	5 200	3 650	2 240	770	0,291
6208	40	80	18	1,1	18,0	29,0	4 300	3 050	1 960	690	0,371
6209	45	85	19	1,1	20,4	31,0	3 500	2 820	1 680	650	0,429
6210	50	90	20	1,1	24,0	36,5	3 000	2 410	1 400	615	0,466
6211	55	100	21	1,5	29,0	43,0		2 020	1 260	570	0,616
6212	60	110	22	1,5	36,0	52,0		1 830	1 120	480	0,789
6213	65	120	23	1,5	41,5	60,0		1 650	980	430	0,980
6214	70	125	24	1,5	44,0	62,0		1 400	840	410	1,060
6215	75	130	25	1,5	49,0	65,5		1 220		390	1,170
6216	80	140	26	2,0	53,0	72,0		1 080		350	1,390
6217	85	150	28	2,0	64,0	83,0		900		320	1,780
6218	90	160	30	2,0	72,0	96,5		800		290	2,140
6219	95	170	32	2,1	81,5	108,0		700		265	2,610
6220	100	180	34	2,1	93,0	122,0		600		220	3,130

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



GMW	Dimensions				Load Ratings		Max. Speed				Weight
Code	d	D	B	rs	C0	Cdyn	T150	T200	T250	T250X	
	[mm]	[mm]	[mm]	min	[kN]	[kN]	2Z	2Z	2Z	2Z	
	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[min ⁻¹]	[min ⁻¹]	[min ⁻¹]	[min ⁻¹]	[kg]
6300	10	35	11	0,6	3,45	8,15	10 000	5 600	3 920	1 880	0,055
6301	12	37	12	1,0	4,15	9,65	9 500	5 400	3 780	1 790	0,062
6302	15	42	13	1,0	5,40	11,4	9 000	5 200	3 640	1 680	0,088
6303	17	47	14	1,0	6,55	13,4	8 000	4 800	3 360	1 550	0,114
6304	20	52	15	1,1	7,80	16,0	7 000	4 400	3 080	1 460	0,151
6305	25	62	17	1,1	11,4	22,4	6 100	4 020	2 800	1 320	0,234
6306	30	72	19	1,1	16,3	29,0	5 500	3 650	2 520	1 280	0,355
6307	35	80	21	1,5	19,0	33,5	4 200	3 220	2 240	1 195	0,471
6308	40	90	23	1,5	25,0	42,5	3 300	2 830	1 960	895	0,640
6309	45	100	25	1,5	31,5	53,0	2 500	2 420	1 640	770	0,847
6310	50	110	27	2,0	38,0	62,0	2 000	2 000	1 420	620	1,100
6311	55	120	29	2,0	47,5	76,5		1 860	1 260	550	1,390
6312	60	130	31	2,1	52,0	81,5		1 650	1 120	490	1,750
6313	65	140	33	2,1	60,0	93,0		1 410	980	430	2,070
6314	70	150	35	2,1	68,0	104,0		1 250	850	375	2,510
6315	75	160	37	2,1	76,5	114,0		1 000	720	340	3,010
6316	80	170	39	2,1	86,5	122,0		900		320	3,580
6317	85	180	41	3,0	96,5	132,0		800		310	4,220
6318	90	190	43	3,0	102,0	134,0		700		290	4,900
6319	95	200	45	3,0	112,0	143,0		600		265	5,660
6320	100	215	47	3,0	134,0	163,0		500		230	6,990

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