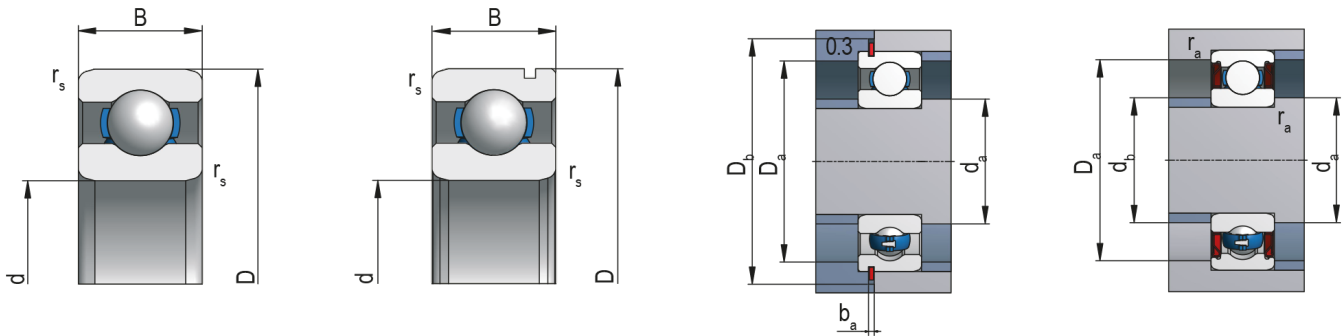


Single row deep groove ball bearings



Bearing Designation 6200; 6200ZR; 6200-2ZR; 6200RSR; 6200-2RSR

Dimensions (mm)

d	10
D	30
B	9
B ₁	9
r _s min	0,6

Abutment and Fillet Dimensions (mm)

d _a min	14
D _a max	26
r _a max	0,6

Basic Load Rating (kN)

C	5,1
C ₀	2,38

Limiting Speed for Lubrication (min⁻¹)

Grease Z, ZR	25 000
Grease RS, RSR	17 000
Oil	30 000

Weight [kg] 0,032

Tolerance Class

Tolerance Class	Inner Ring									
	Cylindrical Bore									
	Δ_{dmp}		V_{dp}			V_{dmp}	K_{ia}	Δ_{B_s}		V_{B_s}
			Diameter Series							
			7,8,9	0,1	2,3,4					
max	min	max	max	max	max	max	min	max		
μm										
P0	0	-8	10	8	6	6	10	0	-120	15
P6	0	-7	9	7	5	5	6	0	-120	15

Tolerance Class	Inner Ring														
	Tapered Bore 1:12					Tapered Bore 1:30									
	Δ_{dmp}		$\Delta_{d1mp} - \Delta_{dmp}$		$V_{dp}^{1)}$	Δ_{dmp}		$\Delta_{d1mp} - \Delta_{dmp}$		$V_{dp}^{1)}$					
											max	min	max	min	max
											max	min	max	min	max
μm															
P0 = P6	-	-	-	-	-	-	-	-	-	-					

Tolerance Class	Outer Ring									
	Δ_{Dmp}		V_{Dp}			bearings ²⁾ with seals	V_{Dmp}	K_{ea}	Δ_{CS}, V_{CS}	
			Diameter Series							
			7,8,9	0,1	2,3,4					
	max	min	max	max	max	max	max			
μm										
P0	0	-9	12	9	7	12	7	15	Corresponds to Δ_{B_s}, V_{B_s} of the same bearing inner ring	
P6	0	-8	10	8	6	10	6	9		

1) Valid in any bore radial plane

2) P0 - Valid only for bearings in diameter series 2, 3 and 4 * P6 - Valid only for bearings in diameter series 0, 1, 2, 3 and 4

Radial Clearance

C2		normal		C3		C4		C5			min	max
min	max	min	max	min	max	min	max	min	max			
μm												
0	7	2	13	8	23	14	29	20	37	E10, E12	15	30

Tolerance Symbols and Their Meaning

d	nominal bore diameter	H_4	rated height of spherical-roller bearing
d_1	nominal diameter of larger theoretical tapered bore diameter	Δ_{B_s}	inner ring single width deviation
d_2	nominal diameter of the shaft washer of double direction thrust bearings	Δ_{C_s}	outer ring single width deviation
Δ_{ds}	deviation of single bore diameter from nominal	Δ_{T_s}	bearing single width deviation (total)
Δ_{dmp}	mean cylindrical bore diameter deviation in single radial plane (for tapered bore Δ_{dmp} is valid for theoretical bore diameter)	$\Delta_{T_{1s}}$	cone sub-unit effective width deviation
Δ_{d1mp}	deviation of mean larger theoretical diameter of tapered bore	$\Delta_{T_{2s}}$	cup sub-unit effective width deviation
Δ_{d2mp}	mean shaft washer bore diameter deviation of double direction thrust bearings in single radial plane	Δ_{H_s}	height deviation of single direction axial bearings from nominal value
V_{dp}	single bore diameter variation in single radial plane	$\Delta_{H_{1s}}$	height deviation of single direction axial ball bearings with sphered housing washer from nominal value
V_{dmp}	mean cylindrical bore diameter variation	$\Delta_{H_{2s}}$	height deviation of double direction axial bearings from nominal value
V_{d2p}	shaft washer bore diameter variation of double direction thrust bearings in single radial plane	$\Delta_{H_{3s}}$	height deviation of double direction axial ball bearings with sphered housing washer from nominal value
D	nominal outside diameter	$\Delta_{H_{4s}}$	height deviation of axial spherical-roller bearing from the rated value
Δ_{Ds}	deviation of single outside diameter from the nominal dimension	C	outer ring nominal width
Δ_{Dmp}	mean outside cylindrical surface diameter deviation in single plane	V_{B_s}	inner ring single width variation
V_{Dp}	single outside cylindrical surface diameter variation in single radial plane	V_{C_s}	outer ring single width variation
V_{Dmp}	mean outside cylindrical surface diameter variation	K	radial runout of assembled bearing inner ring
B	inner ring nominal width	K^a	radial runout of assembled bearing outer ring
T	total nominal width of tapered roller bearings	S^{ea}	shaft washer raceway axial runout
T_1	nominal effective width of cup sub-unit	S_i	housing washer raceway axial runout
T_2	nominal effective width of cone sub-unit	S^e	inner ring flat seat face axial runout of assembled bearing
H	rated width of unidirectional axial bearing	S^{ia}	outer ring flat seat face axial runout of assembled bearing
H_1	rated height of unidirectional ball axial bearing including the body ring	S^{ea}	flat seat face axial runout
H_2	rated height of bidirectional axial bearing	S_d	runout of outside cylindrical surface towards outer ring face
H_3	rated height of bidirectional axial ball bearing including body rings	S_D	runout of supporting face towards seat face for single row tapered roller bearings
		S_s	