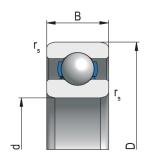
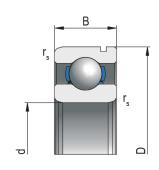
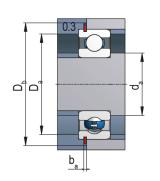
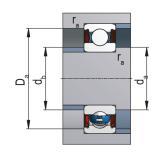
Single row deep groove ball bearings











Bear			
	 	J	

6220

Dimensions (mm)

d	100
D	180
В	34
B ₁	34
r _s min	2,1

Abutment and Fillet Dimensions (mm)

d _a min	112
D _a max	169
r _a max	2

Basic Load Rating (kN)

С	122,14
C ₀	92,72

Limiting Speed for Lubrication (min⁻¹)

Grease Z, ZR	3 500
Grease RS, RSR	-
Oil	4 200

Weight [kg]

2,95

Tolerance Class

	Inner Ring												
	Cylindrical Bore												
				V_{dp}									
Tolerance	nce $\Delta_{ ext{dmp}}$			iameter Serie	s	$V_{ m dmp}$	K _{ia}	$\Delta_{B_{S}}$		V_{B_s}			
Class			7,8,9	0,1	2,3,4								
	max	max min		max	max	max	max	max	min	max			
	μm												
P0	0	-20	-20 25 25			15	25	0	-200	25			
P6	0	-15	19	19	11	11	13	0	-200	25			

		Inner Ring												
		Та	pered Bore	1:12		Tapered Bore 1:30								
Tolerance Class	Δ_{dmp}		$\Delta_{ exttt{d1mp}} - \Delta_{ exttt{dmp}}$		V _{dp}	Z	∆ _{dmp}	$\Delta_{ ext{d1mp}} - \Delta_{ ext{dmp}}$		V _{dp}				
	max	min	max	max min		max	min	max	min	max				
	μм													
P0 = P6	35	0	35	0	25	20	0	35	0	22				

			Outer Ring							
Tolerance				\	√ _{Dp}					
	$\Delta_{{\sf Dmp}}$			iameter Serie	es .	bearings 2)	V Dmp	K _{ea}		
Class	Tolcianoc	7,8,9	0,1	2,3,4	with seals			$\Delta_{ extsf{CS},}$ $ extsf{V}_{ extsf{CS}}$		
	max min		max	max	max	max	max	max		
	μт									
P0	0	-25	31	31	19	38	19	45	Corresponds to $\Delta_{\rm BS,}$ $\rm V_{\rm BS}$	
P6	0	-18	23	23	14	30	14	23	of the same bearing inner ring	

¹⁾ Valid in any bore radial plane

Radial Clearance

С	2	nor	mal	С	3	С	4	C	5			
min	max		min	max								
	μт											
1	18	12	36	30	58	53	84	75	120			

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

Tolerance Symbols and Their Meaning

- nominal bore diameter d
- nominal diameter of larger theoretical tapered bore diameter
- nominal diameter of the shaft washer of double direction thrust d,
- $\boldsymbol{\Delta}_{ds}$ deviation of single bore diameter from nominal
 - mean cylindrical bore diameter deviation in single radial plane
- (for tapered bore $\Delta_{\mbox{\tiny dmp}}$ is valid for theoretical bore diameter) deviation of mean larger theoretical diameter of tapered bore mean shaft washer bore diameter deviation of double direction thrust bearings in single radial plane
- single bore diameter variation in single radial plane
- mean cylindrical bore diameter variation
- $V_{\rm dmp} \ V_{\rm d2p}$ shaft washer bore diameter variation of double direction thrust bearings in single radial plane
- D nominal outside diameter
- deviation of single outside diameter from the nominal dimension mean outside cylindrical surface diameter deviation in single
- \boldsymbol{V}_{Dp} single outside cylindrical surface diameter variation in single radial plane
- mean outside cylindrical surface diameter variation
- inner ring nominal width В
- total nominal width of tapered roller bearings Τ
- nominal effective width of cup sub-unit
- nominal effective width of cone sub-unit
- rated width of unidrectional axial bearing
- H, rated height of unidirectional ball axial bearing including the body ring
- rated height of bidirectional axial bearing
- rated height of bidirectional axial ball bearing including body

- rated height of spherical-roller bearing
- inner ring single width deviation
- outer ring single width deviation
- bearing single width deviation (total)
- Δ_{T1s} cone sub-unit effective width deviation
- $\boldsymbol{\Delta}_{\text{T2s}}$ cup sub-unit effective width deviation $\boldsymbol{\Delta}_{\!Hs}$ height deviation of single direction axial bearings from nominal
- value height deviation of single direction axial ball bearings with
- sphered housing washer from nominal value $\boldsymbol{\Delta}_{H2s}$ height deviation of double direction axial bearings from nominal
- value height deviation of double direction axial ball bearings with
- sphered housing washer from nominal value
- height deviation of axial spherical-roller bearing from the rated value
- С outer ring nominal width
- inner ring single width variation
- outer ring single width variation
- radial runout of assembled bearing inner ring radial runout of assembled bearing outer ring
- shaft washer raceway axial runout
- housing washer raceway axial runout
- inner ring flat seat face axial runout of assembled bearing
- outer ring flat seat face axial runout of assembled bearing
 - flat seat face axial runout
- runout of outside cylindrical surface towards outer ring face runout of supporting face towards seat face for single row
 - tapered roller bearings