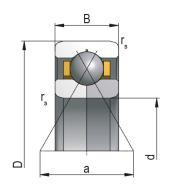
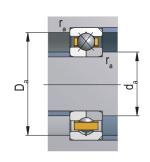
# Single row

# four-point angular contact ball bearings







# **Bearing Designation**

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u	me	HSI	ons	(IIIIII)	)

d	
D	
В	
r <sub>s</sub> min	
а	

### **Abutment and Fillet Dimensions (mm)**

d <sub>a</sub> min	
D <sub>a</sub> max	
r <sub>a</sub> max	

### **Basic Load Rating (kN)**

С	
C <sub>0</sub>	

# Limiting Speed for Lubrication (min<sup>-1</sup>)

Grease	
Oil	

Weight [kg]

# **Tolerance Class**

	Inner Ring												
	Cylindrical Bore												
	$\Delta_{ extsf{dmp}}$		V <sub>dp</sub> Diameter Series			$V_{dmp}$	K <sub>ia</sub>	$\Delta_{B_{\mathtt{S}}}$		$V_{B_{S}}$			
Tolerance													
Class			7,8,9	0,1	2,3,4								
	max	min	max	max	max	max	max	max	min	max			
					!	um							
P0													
P6													

	Inner Ring											
	Tapered Bore 1:12						Tapered Bore 1:30					
Tolerance Class	$\Delta_{\sf dmp}$		$\Delta_{ extsf{d1mp}} - \Delta_{ extsf{dmp}}$		V <sub>dp</sub>	$\Delta_{ extsf{dmp}}$		$\Delta_{ extsf{d1mp}} - \Delta_{ extsf{dmp}}$		V <sub>dp</sub>		
	max	min	max	min	max	max	min	max	min	max		
	μт											
P0 = P6												

	Outer Ring											
			V <sub>Dp</sub>					K <sub>ea</sub>				
Tolerance	$\Delta_{{\sf Dmp}}$		Diameter Series			bearings <sup>2)</sup>	V Dmp					
Class			7,8,9	0,1	2,3,4	with seals			$\Delta_{ t CS,}  { t V}_{ t CS}$			
	max	min	max	max	max	max	max	max				
	μm											
P0									Corresponds to $\Delta_{\rm BS,}$ ${\rm V}_{\rm BS}$			
P6									of the same bearing inner ring			

<sup>1)</sup> Valid in any bore radial plane

# **Axial Clearance**

C2		normal		С	3	C4	
min	max	min	max	min	max	min	max
	μт						

<sup>2)</sup> 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**

d nominal bore diameter

nominal diameter of larger theoretical tapered bore diameter d, nominal diameter of the shaft washer of double direction thrust

 $\Delta_{\text{ds}}$ deviation of single bore diameter from nominal

mean cylindrical bore diameter deviation in single radial plane

(for tapered bore  $\Delta_{dmp}$  is valid for theoretical bore diameter)  $\Delta_{d1mp}$  deviation of mean larger theoretical diameter of tapered bore  $\Delta_{\rm d2mp}^{\rm d1mp}$  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 ,dmp

 $V_{\rm d2p}$ shaft washer bore diameter variation of double direction thrust bearings in single radial plane

D nominal outside diameter

 $\Delta_{\text{Ds}}$ deviation of single outside diameter from the nominal dimension mean outside cylindrical surface diameter deviation in single

 $V_{\text{Dp}}$ 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 nominal effective width of cup sub-unit

 $T_1$ nominal effective width of cone sub-unit

rated width of unidrectional axial bearing

rated height of unidirectional ball axial bearing including the H,

rated height of bidirectional axial bearing

rated height of bidirectional axial ball bearing including body

rated height of spherical-roller bearing

 $\Delta_{\!\scriptscriptstyle Bs}$ inner ring single width deviation

outer ring single width deviation

bearing single width deviation (total) cone sub-unit effective width deviation

 $\Delta_{\text{T1s}}$ cup sub-unit effective width deviation

 $\Delta_{\text{T2s}}$  $\Delta_{\text{Hs}}$ height deviation of single direction axial bearings from nominal

height deviation of single direction axial ball bearings with sphered housing washer from nominal value

 $\Delta_{\text{H2s}}$ 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