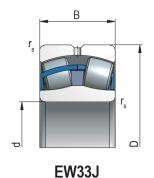
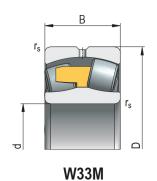
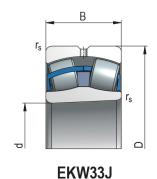
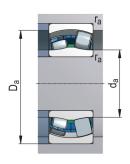
Double row spherical roller bearings with cylindrical and tapered bore











Bearing Designation with Cylindrical Bore	21307W33M
Bearing Designation with Tapered Bore (1:12)	21307KW33M

Dimensions (mm)

d	35
D	80
В	21
r _s min	1,5

Abutment and Fillet Dimensions (mm)

d _a min	44
D _a max	71
r _a max	1,5

Basic Load Rating (kN)

С	75,91
C ₀	80,78

Limiting	Speed	for	Lubrication	(min ⁻¹))
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Grease	6700
Oil	9500

Weight [kg]	0,600
Weight - K [kg]	0,540

Corresponding

Adapter Sleeve	H307
Withdrawal Sleeve	AH307
Withdrawal Nut	KM8

Coefficients

е	0,28
Y ₁	2,4
Y ₂	3,6
Y ₃	2,5

Tolerance Class

	Inner Ring									
	Cylindrical Bore									
	olerance $\Delta_{ extsf{dmp}}$		$V_{ ext{dp}}$		V_{dmp}	K _{ia}	$\Delta_{B_{S}}$			
Tolerance			Diameter Series						V_{B_s}	
Class			7,8,9	0,1	2,3,4					
	max	min	max	max	max	max	max	max	min	max
	μт									
P0	0	-12	15	12	9	9	15	0	-120	20
P6	0	-10	13	10	8	8	10	0	-120	20

	Inner Ring									
	Tapered Bore 1:12					Tapered Bore 1:30				
Tolerance Class		$\Delta_{ ext{dmp}}$ $\Delta_{ ext{d1mp}}$ $-\Delta_{ ext{dmp}}$		V _{dp}	$\Delta_{ extsf{dmp}}$		$\Delta_{ m d1mp} - \Delta_{ m dmp}$		V _{dp}	
	max	min	max	min	max	max	min	max	min	max
	μт									
P0 - P6	25	0	25	0	15	-	-	-	-	-

	Outer Ring										
				V_Dp							
Tolerance	4	Δ_{Dmp}		Diameter Serie	es	bearings 2)	V Dmp	K _{ea}			
Class		·	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	-13	16	13	10	20	10	25	Corresponds to $\Delta_{\rm BS,}$ $\rm V_{\rm BS}$		
P6	0	-11	14	11	8	16	8	13	of the same bearing inner ring		

¹⁾ Valid in any bore radial plane

Radial Clearance - Cylindrical Bore

C2		normal		C3		C4		C5			
min	max	min	max	min	max	min	max	min	max		
μm											
15	30	30	45	45	60	60	80	80	100		

Radial Clearance - Tapered Bore

C2		normal		C3		C4		C5			
min	max	min	max	min	max	min	max	min	max		
μm											
25	35	35	50	50	65	65	85	85	105		

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

d nominal bore diameter

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

 Δ_{ds} deviation of single bore diameter from nominal

mean cylindrical bore diameter deviation in single radial plane

(for tapered bore Δ_{dmp} is valid for theoretical bore diameter) Δ_{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

 Δ_{Ds} deviation of single outside diameter from the nominal dimension mean outside cylindrical surface diameter deviation in single

 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 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

 Δ_{T1s} cup sub-unit effective width deviation

 Δ_{T2s} Δ_{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

 Δ_{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