

Technical data

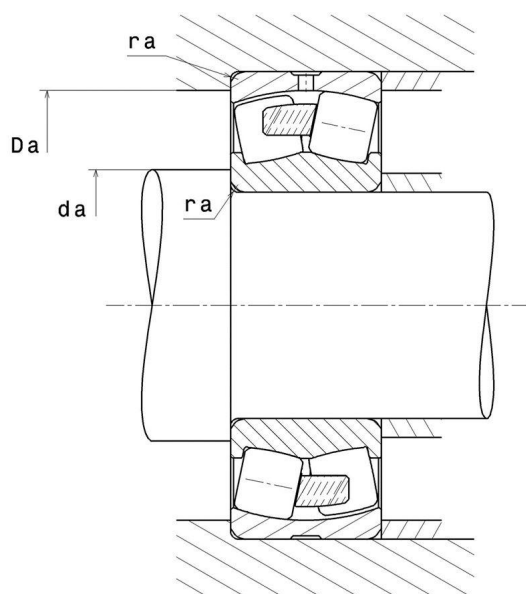
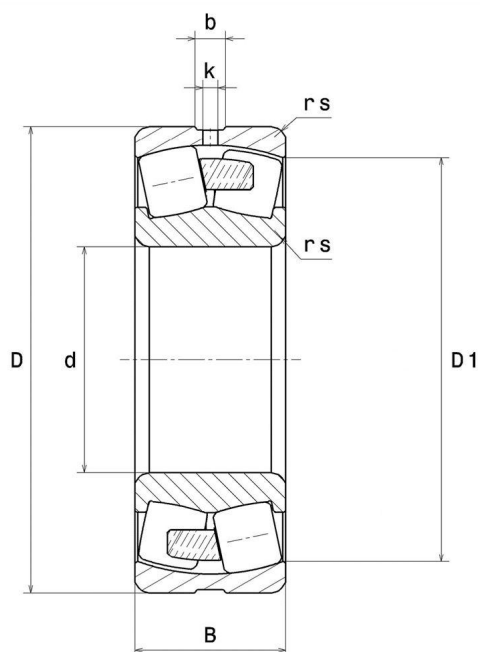
21319D1

Spherical roller bearings



Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring

VISUAL (S)



PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	95 mm
D - External diameter	200 mm
B - Bearing/Inner ring width	45 mm
d2 - External diameter inner ring	131,4 mm
D1 - Inner diameter outer ring	171 mm
rs - Min fillet radius	3 mm
Number of lubrication holes	4
b - Groove width	7 mm
k - Hole diameter	4 mm
Radial clearance class	CN
Mass	7,1 kg

PRODUCT PERFORMANCE

C - Dynamic load	375000000 mN
C0 - Static load	420000000 mN
Cu - Fatigue limit load	54000000 mN
e - Coefficient	0.22
Y0 - Static axial load coefficient	2.94
Y1 - Lower axial load coefficient	3.01
Y2 - Upper axial load coefficient	4.48
N lim - Oil lubrication limit speed	16200 °/s
N lim - Grease lubrication limit speed	12600 °/s
Tmin - Min operating temperature	233,15 °K



PRODUCT PERFORMANCE

Tmax - Max operating temperature	393,15 °K
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ABUTMENT

da min - Min shoulder diameter IR	109 mm
Da max - Max shoulder diameter OR	186 mm
ra max - Max shaft & housing fillet radius	2,5 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .



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