

PDF technical sheet 24168B



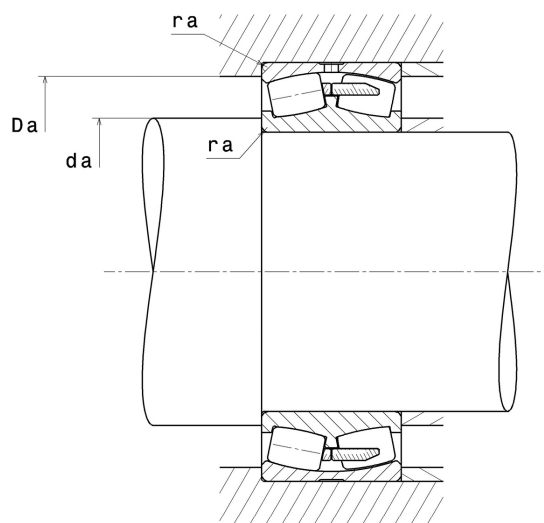
Double row spherical roller bearings

Spherical roller bearing, with central rib on inner ring, 2-part machined cage centred on inner ring, groove and lubrication holes on outer ring

Product definition	
d	13.3858 "
D	22.8346 "
B	9.5669 "
rs min	0.1969 "
Number of lubrication holes	8
b	1.2992 "
k	0.7874 "
e	0.42
Y1	1.61
Y2	2.39
Y0	1.57
Radial clearance class	CN
Brand	NTN



Product performance	
Dynamic load, C	4,600 kN
Static load, C0	8,950 kN
Fatigue limit load, Cu	642 kN
Nref	360 RPM
Nlim	900 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	7.59 Hz
Characteristic outer ring frequency, BPF0	9.19 Hz
Characteristic inner ring frequency, BPF1	11.81 Hz



Abutment dimensions

da min	14.1732 "
Da max	22.0472 "
ra max	0.1575 "

Calculation factors

Equivalent dynamic radial load

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

Fa / Fr ≤ e		Fa / Fr > 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 .