

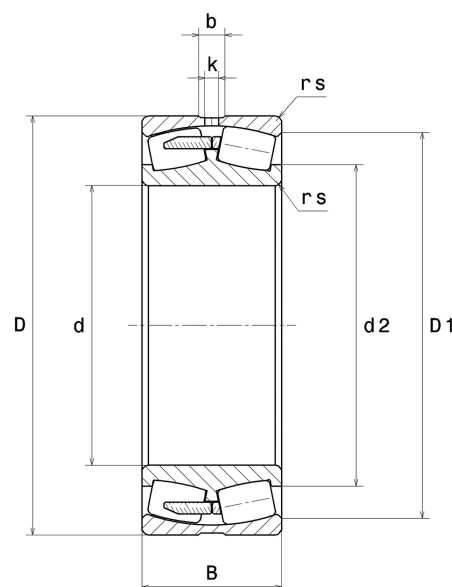
PDF technical sheet 23972



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	14.1732 "
D	18.8976 "
B	3.5433 "
rs min	0.1181 "
Number of lubrication holes	8
b	0.5512 "
k	0.3150 "
e	0.17
Y1	3.99
Y2	5.93
Y0	3.9
Radial clearance class	CN
Brand	NTN



Product performance	
Dynamic load, C	1,320 kN
Static load, C0	2,930 kN
Fatigue limit load, Cu	271 kN
Nref	800 RPM
Nlim	1,100 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	14.50 Hz
Characteristic outer ring frequency, BPF0	17.70 Hz
Characteristic inner ring frequency, BPF1	20.30 Hz



Abutment dimensions

da min	14.6614 "
Da max	18.4094 "
ra max	0.0984 "

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 .