

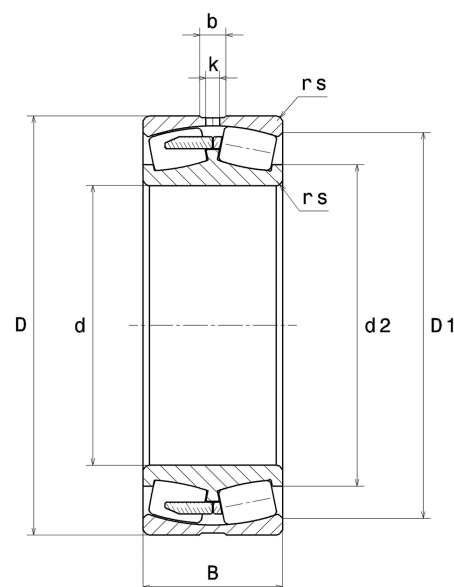
PDF technical sheet 24072B



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	21.2598 "
B	7.0866 "
d2	16.3386 "
D1	18.7717 "
rs min	0.1969 "
Number of lubrication holes	8
b	1.0630 "
k	0.6299 "
e	0.33
Y1	2.06
Y2	3.07
Y0	2.02
Radial clearance class	CN
Brand	NTN



Product performance	
Dynamic load, C	3,100 kN
Static load, C0	6,600 kN
Fatigue limit load, Cu	446 kN
Nref	570 RPM
Nlim	1,100 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	9.96 Hz
Characteristic outer ring frequency, BPF0	12.19 Hz
Characteristic inner ring frequency, BPF1	14.81 Hz



Abutment dimensions

da min	14.8819 "
Da max	20.5512 "
ra max	0.1575 "

Calculation 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 .