

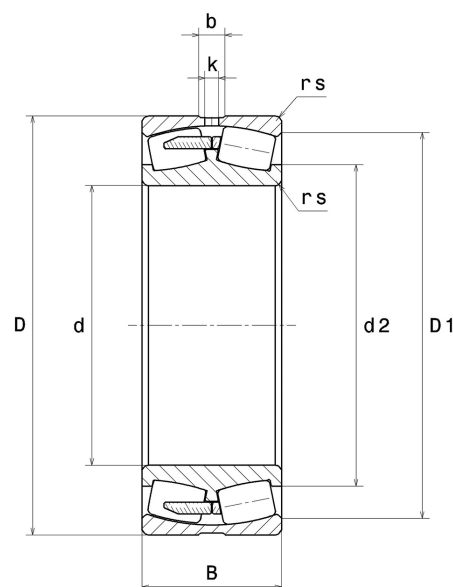
PDF technical sheet 23288B



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	17.3228 "
D	31.1024 "
B	11.0236 "
d2	21.7323 "
D1	26.3976 "
rs min	0.2953 "
Number of lubrication holes	8
b	1.2992 "
k	0.7874 "
e	0.36
Y1	1.88
Y2	2.8
Y0	1.84
Radial clearance class	CN
Brand	NTN



Product performance	
Dynamic load, C	6,900 kN
Static load, C0	12,800 kN
Fatigue limit load, Cu	861 kN
Nref	320 RPM
Nlim	680 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	7.08 Hz
Characteristic outer ring frequency, BPF0	8.22 Hz
Characteristic inner ring frequency, BPF1	10.78 Hz



Abutment dimensions

da min	18.5827 "
Da max	29.8425 "
ra max	0.2362 "

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 .