

PDF technical sheet 23280BC3



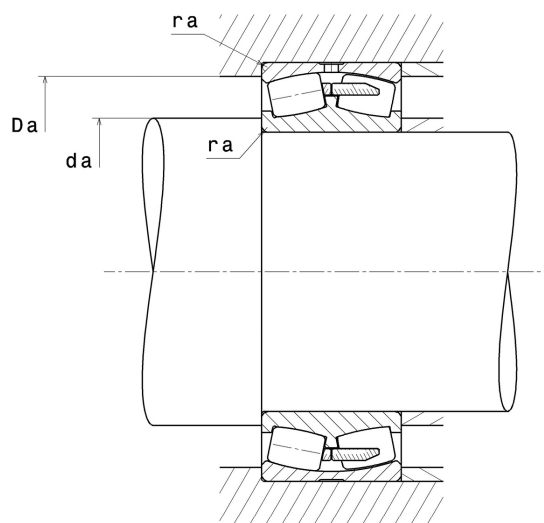
Double row spherical roller bearings

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	15.7480 "
D	28.3465 "
B	10.0787 "
d2	19.7244 "
D1	24.0591 "
rs min	0.2362 "
Number of lubrication holes	8
b	1.2992 "
k	0.7874 "
e	0.37
Y1	1.81
Y2	2.69
Y0	1.77
Radial clearance class	C3
Brand	NTN



Product performance	
Dynamic load, C	5,850 kN
Static load, C0	10,600 kN
Fatigue limit load, Cu	636 kN
Nref	370 RPM
Nlim	750 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	6.90 Hz
Characteristic outer ring frequency, BPF0	8.19 Hz
Characteristic inner ring frequency, BPF1	10.81 Hz



Abutment dimensions

da min	16.7717 "
Da max	27.3228 "
ra max	0.1969 "

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 .