

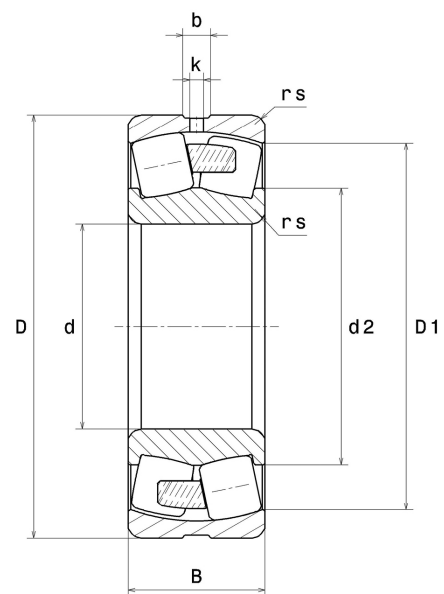
PDF technical sheet 21322D1



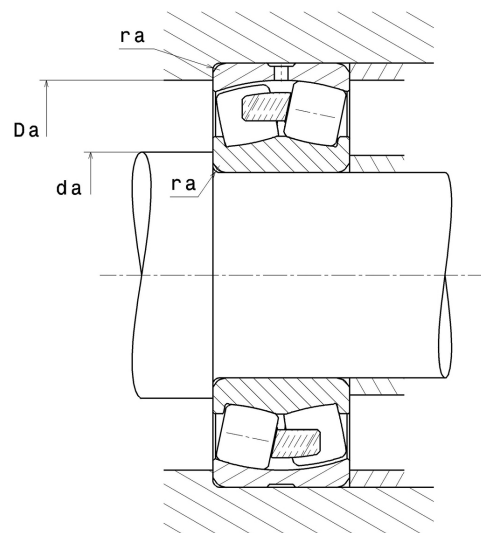
Double row spherical roller bearings

Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring

Product definition	
d	4.3307 "
D	9.4488 "
B	1.9685 "
d2	5.9134 "
D1	7.9803 "
rs min	0.1181 "
Number of lubrication holes	4
b	0.3543 "
k	0.1969 "
e	0.21
Y1	3.2
Y2	4.77
Y0	3.13
Radial clearance class	CN
Brand	NTN



Product performance	
Dynamic load, C	495 kN
Static load, C0	615 kN
Fatigue limit load, Cu	116 kN
Nref	2,800 RPM
Nlim	3,500 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.83 Hz
Characteristic outer ring frequency, BPF0	6.68 Hz
Characteristic inner ring frequency, BPF1	9.32 Hz



Abutment dimensions

da min	4.8819 "
Da max	8.8976 "
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 .