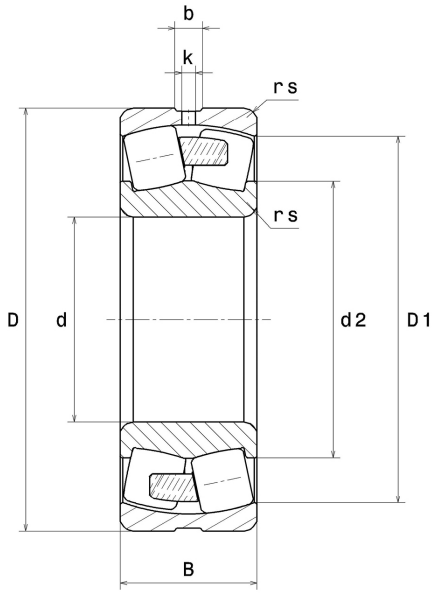
PDF technical sheet
21320D1

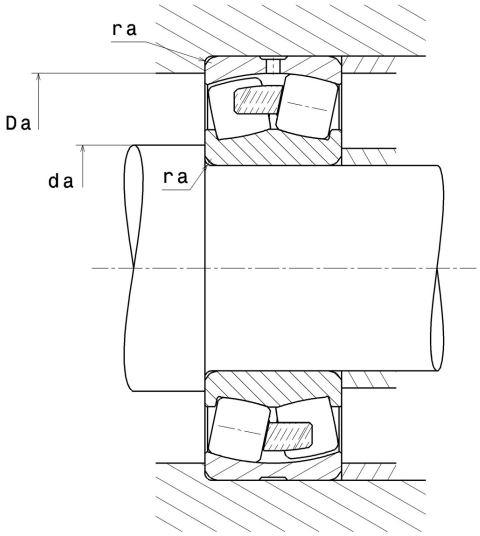
Double row spherical roller bearings

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

Product definition	
d	3.9370 "
D	8.4646 "
B	1.8504 "
d2	5.3937 "
D1	7.0354 "
rs min	0.1181 "
Number of lubrication holes	4
b	0.3543 "
k	0.1969 "
e	0.22
Y1	3.01
Y2	4.48
Y0	2.94
Radial clearance class	CN
Brand	NTN



Product performance	
Dynamic load, C	370 kN
Static load, C0	465 kN
Fatigue limit load, Cu	31.50 kN
Nref	3,200 RPM
Nlim	3,900 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	6.45 Hz
Characteristic outer ring frequency, BPF0	6.80 Hz
Characteristic inner ring frequency, BPFI	9.20 Hz



NTN-SNR ROULEMENTS – www.ntn-snr.com
1 rue des Usines – 74010 Annecy Cedex – France – Tel. +33 (0)4 50 65 30 00
S.A. au capital de 123 599 542 € - RCS ANNECY B 325 821 072 – Id. Fiscale : FR 48 325 821 072 – SIRET 325 821 072 00015 –
Code APE 2815 Z – Code NACE 28.15

Abutment dimensions	
da min	4.4882 "
Da max	7.9134 "
ra max	0.0984 "

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .