

PDF technical sheet

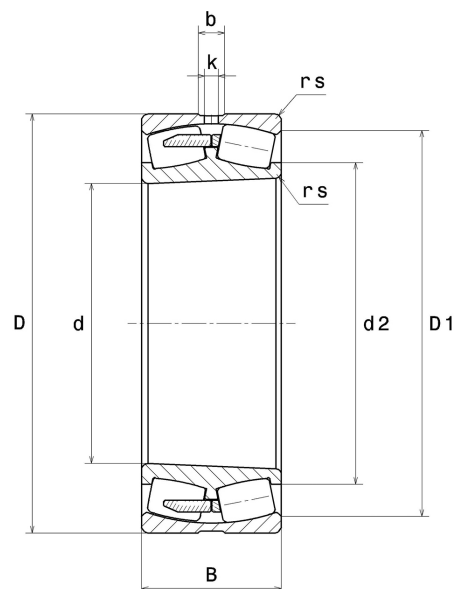
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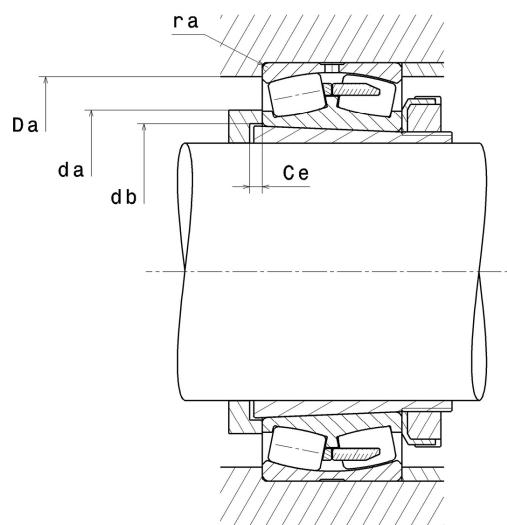
Double row spherical roller bearings

Spherical roller bearing, with central rib on inner ring, 2-part machined cage centred on inner ring, groove and lubrication holes on outer ring, tapered bore 1:12

Product definition	
d	15.7480 "
D	21.2598 "
B	4.1732 "
d2	17.6772 "
D1	19.5630 "
rs min	0.1575 "
Number of lubrication holes	8
b	0.6299 "
k	0.3937 "
Associated sleeve reference	H3980
e	0.18
Y1	3.71
Y2	5.53
Y0	3.63
Radial clearance class	C3
Brand	NTN



Product performance	
Dynamic load, C	1,580 kN
Static load, C0	3,650 kN
Fatigue limit load, Cu	296 kN
Nref	750 RPM
Nlim	1,000 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	15.18 Hz
Characteristic outer ring frequency, BPF0	18.70 Hz
Characteristic inner ring frequency, BPF1	21.30 Hz



Abutment dimensions

da min	16.3228 "
db min	16.2992 "
Ce min	0.5906 "
Da max	20.6850 "
ra max	0.1181 "

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 .