Technical data

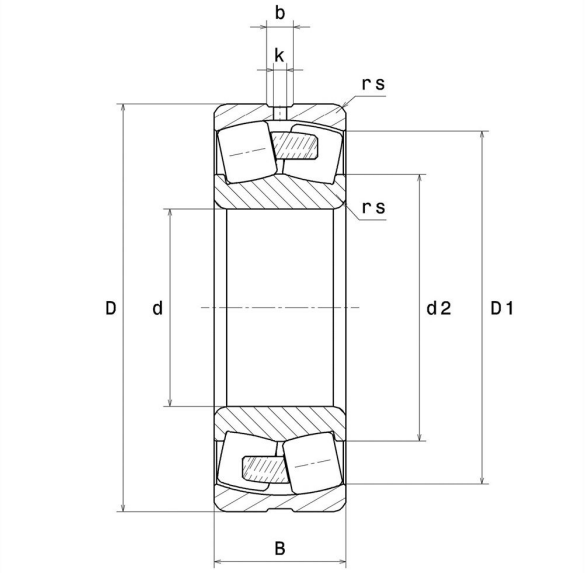
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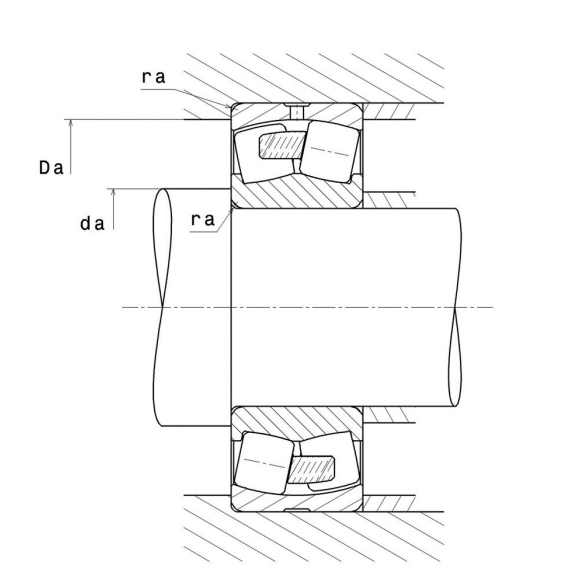
Double row spherical roller bearings

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



Visual(s)





Product definition

d	100 mm
D	215 mm
B	47 mm
d2	137 mm
D1	178.7 mm
rs min	3 mm
Number of lubrication holes	4
b	9 mm
k	5 mm
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	31.5 kN
Nref	0 Tr/min
Nlim	0 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	6.44 Hz
Characteristic outer ring frequency, BPF0	6.8 Hz
Characteristic inner ring frequency, BPFI	9.2 Hz

Abutment dimensions

da min	114 mm
Da max	201 mm
ra max	2.5 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa/Fr \leq e$		$Fa/Fr > e$	
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 .