Technical data

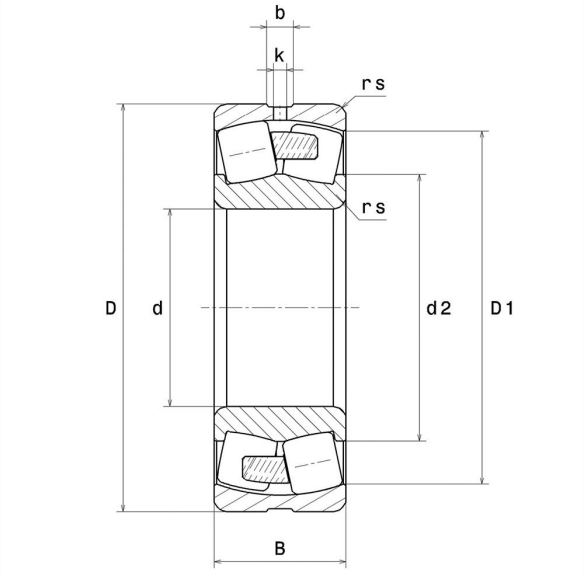
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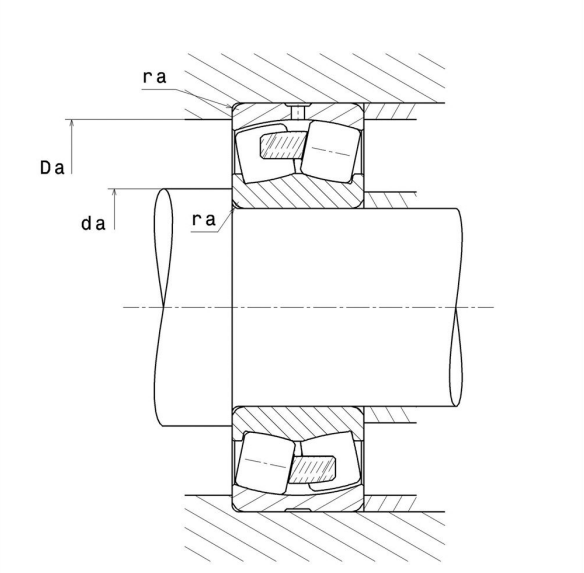
Double row spherical roller bearings



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

Visual(s)





Product definition

d	110 mm
D	240 mm
B	50 mm
d2	150.2 mm
D1	202.7 mm
rs min	3 mm
Number of lubrication holes	4
b	9 mm
k	5 mm
e	0.21
Y1	3.2
Y2	4.77
Y0	3.13
Radial clearance class	C3
Brand	NTN

Product performance

Dynamic load, C	495 kN
Static load, C0	615 kN
Fatigue limit load, Cu	116 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	5.83 Hz
Characteristic outer ring frequency, BPF0	6.68 Hz
Characteristic inner ring frequency, BPFI	9.32 Hz

Abutment dimensions

da min	124 mm
Da max	226 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 .