Technical data

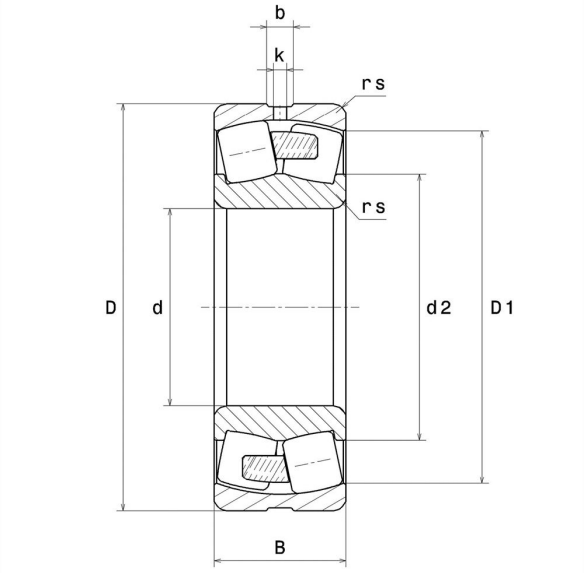
23936EMD1

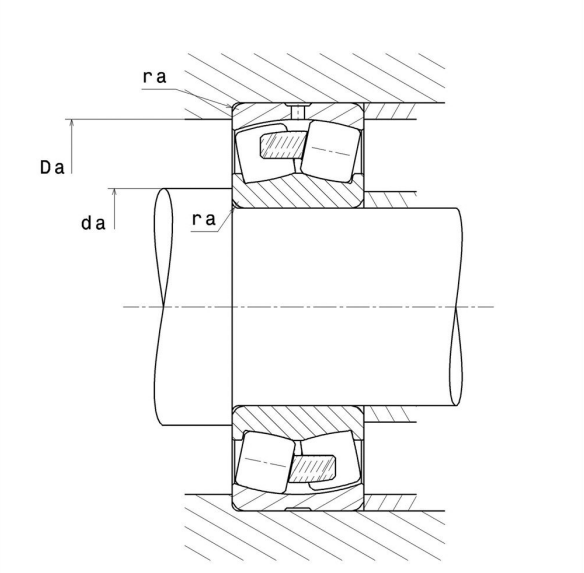
Double row spherical roller bearings

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

ULTAGE

Visual(s)





Product definition

d	180 mm
D	250 mm
B	52 mm
rs min	2 mm
Number of lubrication holes	4
b	9 mm
k	5 mm
e	0.17
Y1	3.9
Y2	5.81
Y0	3.81
Radial clearance class	CN
Brand	NTN

Product performance

Dynamic load, C	573 kN
Static load, C0	869 kN
Fatigue limit load, Cu	81.4 kN
Nref	0 Tr/min
Nlim	0 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	12.45 Hz
Characteristic outer ring frequency, BPF0	15.19 Hz
Characteristic inner ring frequency, BPFI	17.81 Hz

Abutment dimensions

da min	188.8 mm
Da max	241.2 mm
ra max	2 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 .