Technical data

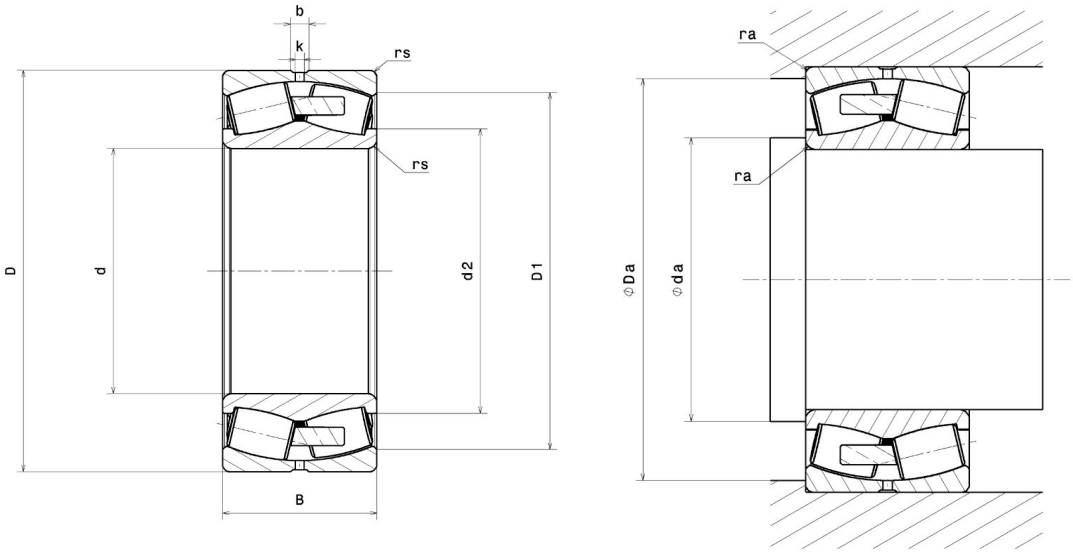
23160EMD1C3

Double row spherical roller bearings

ULTAGE



Visual(s)



Product definition

d	300 mm
D	500 mm
B	160 mm
d2	345 mm
D1	436 mm
rs min	5 mm
Number of lubrication holes	8
b	20 mm
k	12 mm
e	0.31
Y1	2.2
Y2	3.27
Y0	2.15
Radial clearance class	C3
Brand	NTN

Product performance

Dynamic load, C	3,540 kN
Static load, C0	5,170 kN
Fatigue limit load, Cu	205 kN
Nlim (oil)	950 Tr/min
Nlim (grease)	750 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	7.81 Hz
Characteristic outer ring frequency, BPF0	9.64 Hz
Characteristic inner ring frequency, BPFI	12.36 Hz

Abutment dimensions

da min	320 mm
Da max	480 mm
ra max	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 .