Technical data

22330.EK.F800

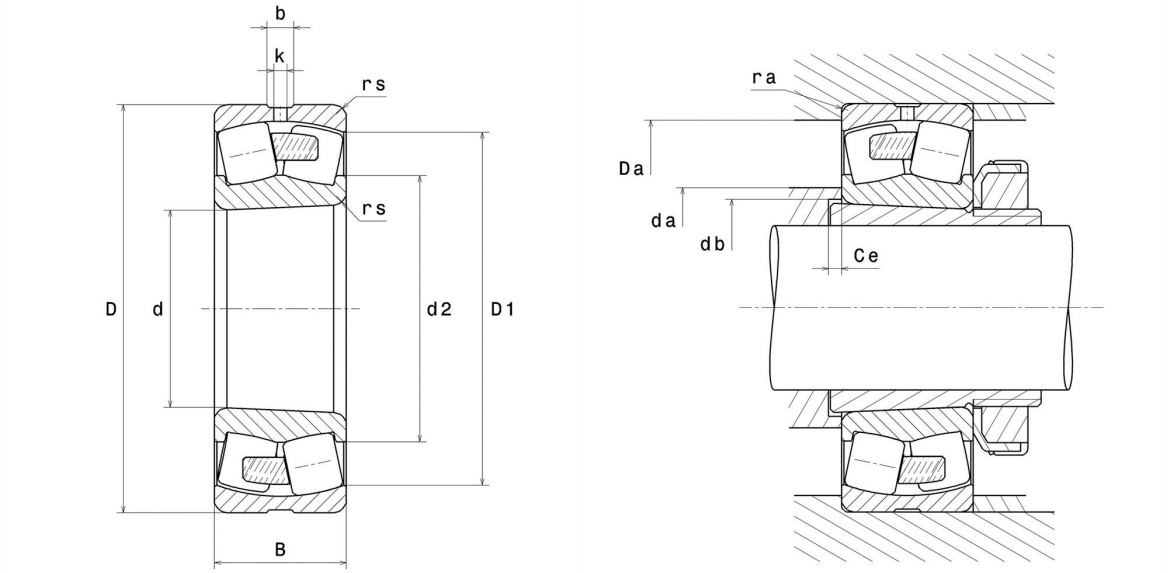
Double row spherical roller bearings



Spherical roller bearing for vibratory applications, one-piece machined cage, groove and lubrication holes on outer ring, tapered bore 1:12, special C4 class clearance

ULTAGE

Visual(s)



Product definition

d	150 mm
D	320 mm
B	108 mm
d2	201 mm
D1	278.3 mm
rs min	4 mm
Number of lubrication holes	3
b	19.9 mm
k	9 mm
Associated sleeve reference	H2330
e	0.34
Y1	2
Y2	2.98
Y0	1.96
Radial clearance class	C4 Special
Mass	41.2 kg
Brand	SNR

Product performance

Dynamic load, C	1,740 kN
Static load, C0	1,890 kN
Fatigue limit load, Cu	143 kN
Nref	1,500 Tr/min
Nlim	2,100 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.4 Hz
Characteristic rolling element frequency, BSF	4.96 Hz
Characteristic outer ring frequency, BPF0	6.08 Hz
Characteristic inner ring frequency, BPFI	8.92 Hz

Abutment dimensions

da min	167 mm
da max	3 mm
db min	163 mm
Ce min	8 mm
Da max	303 mm
ra max	3 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 .