Technical data

22334.EK.F800

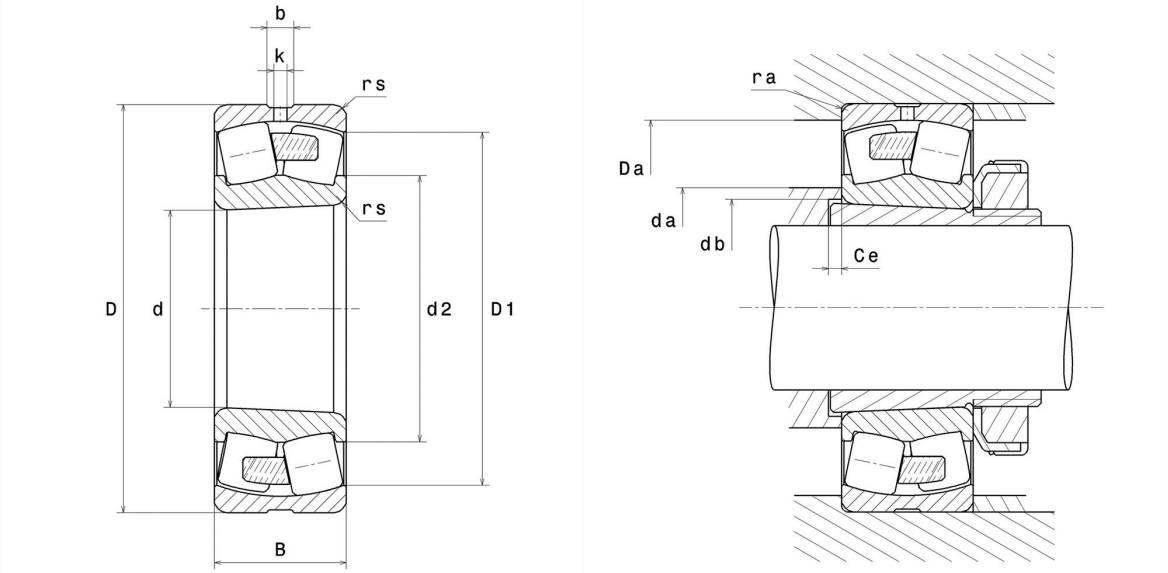
Double row spherical roller bearings



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	170 mm
D	360 mm
B	120 mm
d2	236 mm
D1	312.9 mm
rs min	4 mm
Number of lubrication holes	3
b	20.3 mm
k	10 mm
Associated sleeve reference	H2334
e	0.32
Y1	2.09
Y2	3.11
Y0	2.04
Radial clearance class	C4 Special
Mass	58.2 kg
Brand	SNR

Product performance

Dynamic load, C	2,200 kN
Static load, C0	2,630 kN
Fatigue limit load, Cu	175 kN
Nref	1,200 Tr/min
Nlim	1,800 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.68 Hz
Characteristic outer ring frequency, BPF0	7.08 Hz
Characteristic inner ring frequency, BPFI	9.92 Hz

Abutment dimensions

da min	187 mm
da max	3 mm
db min	185 mm
Ce min	8 mm
Da max	343 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 .