Technical data

22314.EK.F800

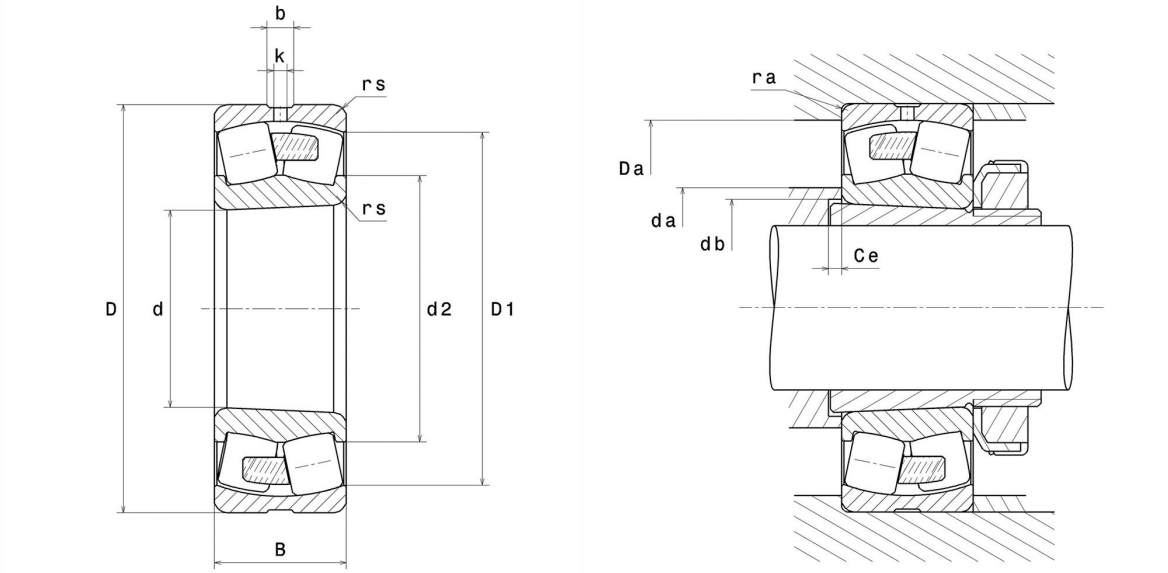
Double row spherical roller bearings



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	70 mm
D	150 mm
B	51 mm
d2	86 mm
D1	128.7 mm
rs min	2.1 mm
Number of lubrication holes	3
b	10.4 mm
k	5 mm
Associated sleeve reference	H2314
e	0.34
Y1	2
Y2	2.98
Y0	1.96
Radial clearance class	C4 Special
Mass	4.2 kg
Brand	SNR

Product performance

Dynamic load, C	420 kN
Static load, C0	396 kN
Fatigue limit load, Cu	37.8 kN
Nref	3,800 Tr/min
Nlim	4,500 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	4.72 Hz
Characteristic outer ring frequency, BPF0	5.61 Hz
Characteristic inner ring frequency, BPFI	8.39 Hz

Abutment dimensions

da min	82 mm
da max	2 mm
db min	76 mm
Ce min	6 mm
Da max	138 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 .