Technical data

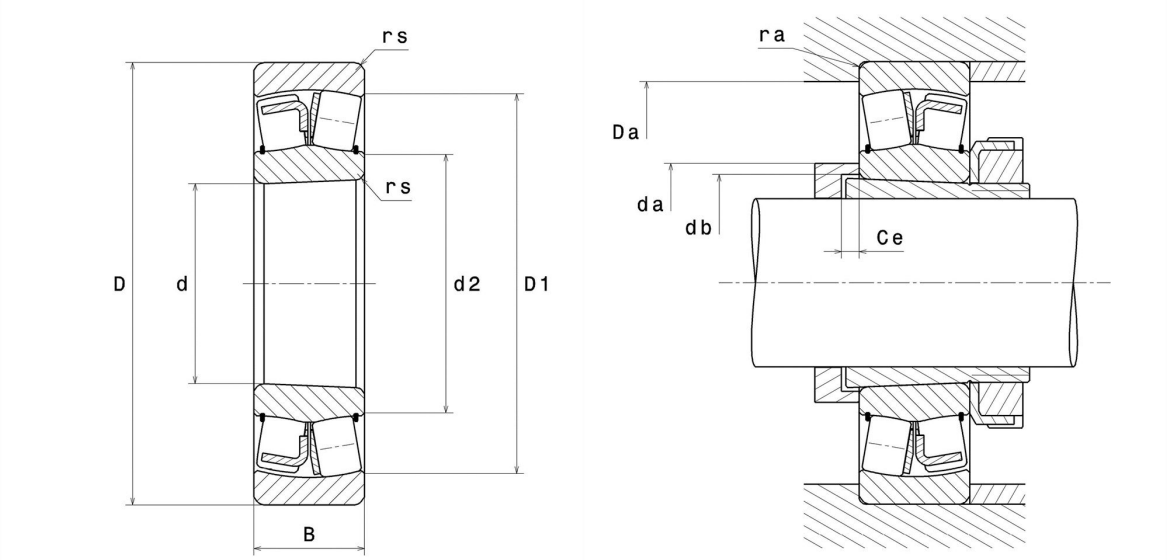
21310.VK

Double row spherical roller bearings

Spherical roller bearing, pressed steel cage, tapered bore 1:12

ULTAGE

Visual(s)



Product definition

d	50 mm
D	110 mm
B	27 mm
d2	66.8 mm
D1	92.4 mm
rs min	2 mm
Number of lubrication holes	0
b	2 mm
k	0 mm
Associated sleeve reference	H310
e	0.25
Y1	2.71
Y2	4.04
Y0	2.65
Radial clearance class	CN
Mass	1.23 kg
Brand	SNR

Product performance

Dynamic load, C	8.7 kN
Static load, C0	128 kN
Fatigue limit load, Cu	17 kN
Nref	5,400 Tr/min
Nlim	7,600 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	5.86 Hz
Characteristic outer ring frequency, BPF0	6.27 Hz
Characteristic inner ring frequency, BPFI	8.73 Hz

Abutment dimensions

da min	61 mm
da max	2 mm
db min	55 mm
Ce min	5 mm
Da max	99 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 .