Technical data

21312.VKC3

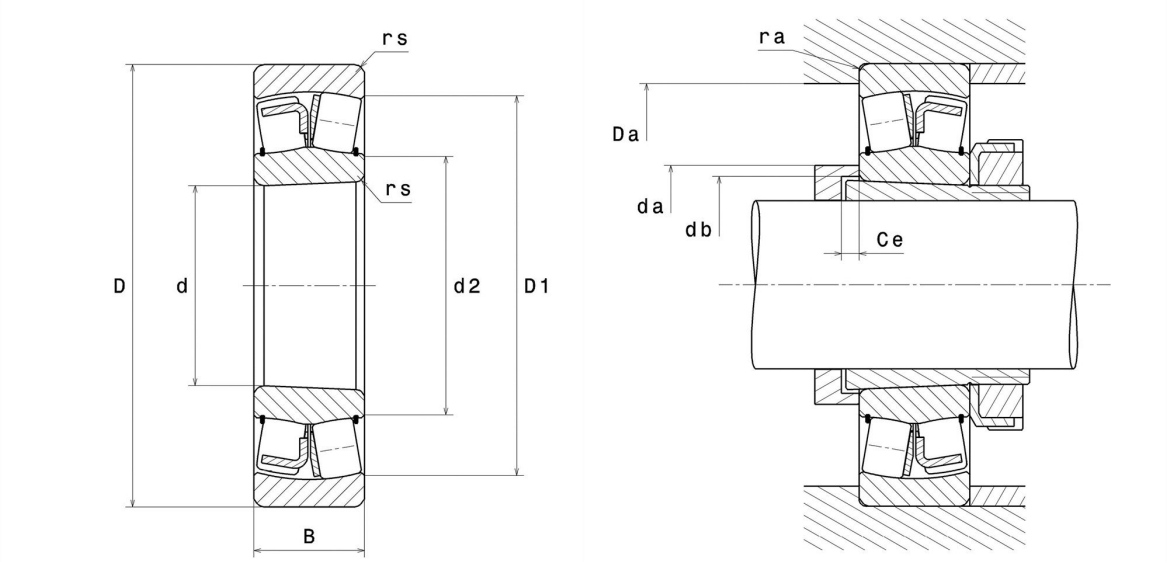
Double row spherical roller bearings



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

ULTAGE

Visual(s)



Product definition

d	60 mm
D	130 mm
B	31 mm
d2	79.5 mm
D1	109.9 mm
rs min	2.1 mm
Number of lubrication holes	0
b	2 mm
k	0 mm
Associated sleeve reference	H312
e	0.24
Y1	2.82
Y2	4.19
Y0	2.75
Radial clearance class	C3
Mass	1.96 kg
Brand	SNR

Product performance

Dynamic load, C	10.3 kN
Static load, C0	179 kN
Fatigue limit load, Cu	23.7 kN
Nref	4,700 Tr/min
Nlim	6,400 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	5.92 Hz
Characteristic outer ring frequency, BPF0	6.28 Hz
Characteristic inner ring frequency, BPFI	8.72 Hz

Abutment dimensions

da min	72 mm
da max	2 mm
db min	65 mm
Ce min	6 mm
Da max	118 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 .