Technical data

21315.VK

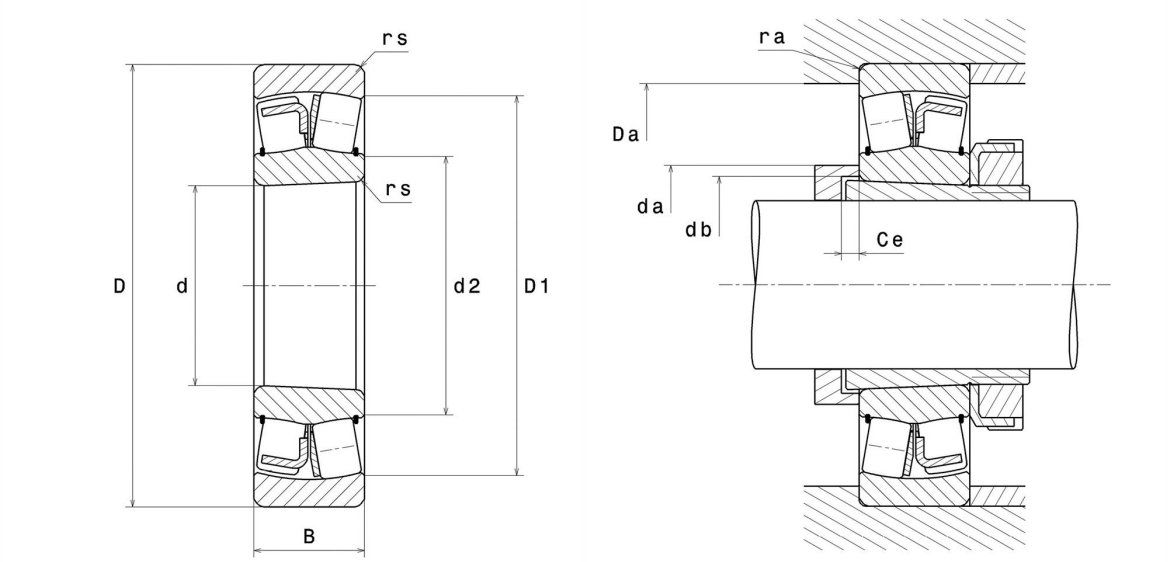
Double row spherical roller bearings



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

ULTAGE

Visual(s)



Product definition

d	75 mm
D	160 mm
B	37 mm
d2	97.7 mm
D1	136 mm
rs min	2.1 mm
Number of lubrication holes	0
b	2 mm
k	0 mm
Associated sleeve reference	H315
e	0.23
Y1	2.93
Y2	4.37
Y0	2.87
Radial clearance class	CN
Mass	3.55 kg
Brand	SNR

Product performance

Dynamic load, C	12.6 kN
Static load, C0	274 kN
Fatigue limit load, Cu	35.2 kN
Nref	4,000 Tr/min
Nlim	5,200 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	5.79 Hz
Characteristic outer ring frequency, BPF0	6.26 Hz
Characteristic inner ring frequency, BPFI	8.74 Hz

Abutment dimensions

da min	87 mm
da max	2 mm
db min	80 mm
Ce min	6 mm
Da max	148 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 .