Technical data

24124.EAK30W33C3

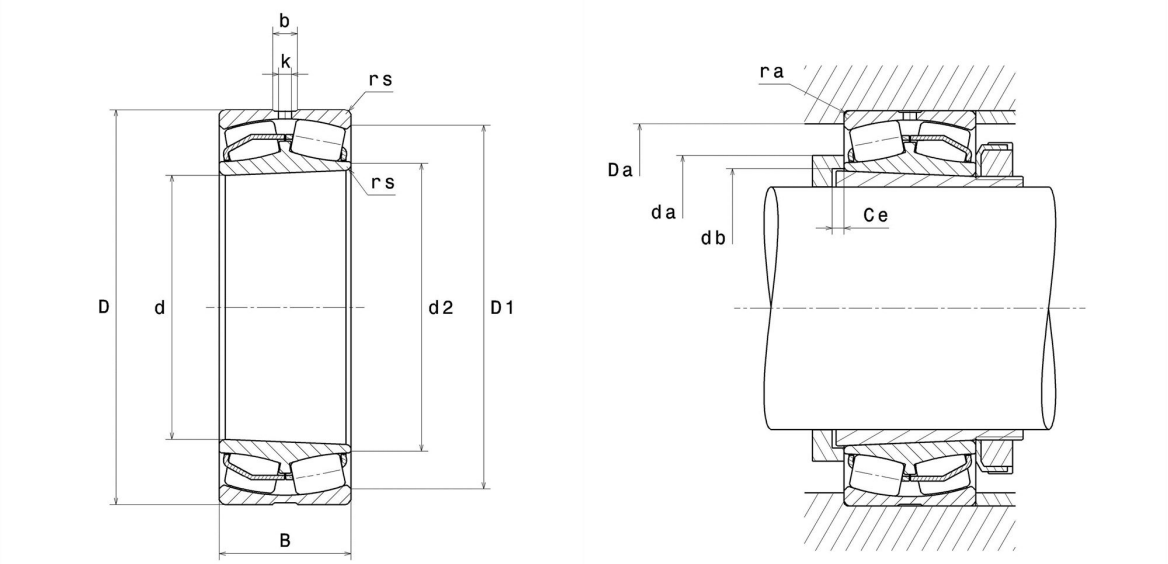
Double row spherical roller bearings



Spherical roller bearing, with central rib on inner ring, pressed steel cage, groove and lubrication holes on outer ring, tapered bore 1:30

ULTAGE

Visual(s)



Product definition

d	120 mm
D	200 mm
B	80 mm
d2	133.2 mm
D1	171.8 mm
rs min	2 mm
Number of lubrication holes	3
b	10 mm
k	4.5 mm
Associated sleeve reference	P0
e	0.39
Y1	1.74
Y2	2.59
Y0	1.7
Radial clearance class	C3
Mass	9.7 kg
Brand	SNR

Product performance

Dynamic load, C	749 kN
Static load, C0	948 kN
Fatigue limit load, Cu	60.2 kN
Nref	2,000 Tr/min
Nlim	2,600 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	7.23 Hz
Characteristic outer ring frequency, BPF0	8.68 Hz
Characteristic inner ring frequency, BPFI	11.32 Hz

Abutment dimensions

da min	131 mm
da max	2 mm
Da max	189 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

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .