Technical data

24136.EAK30W33C3

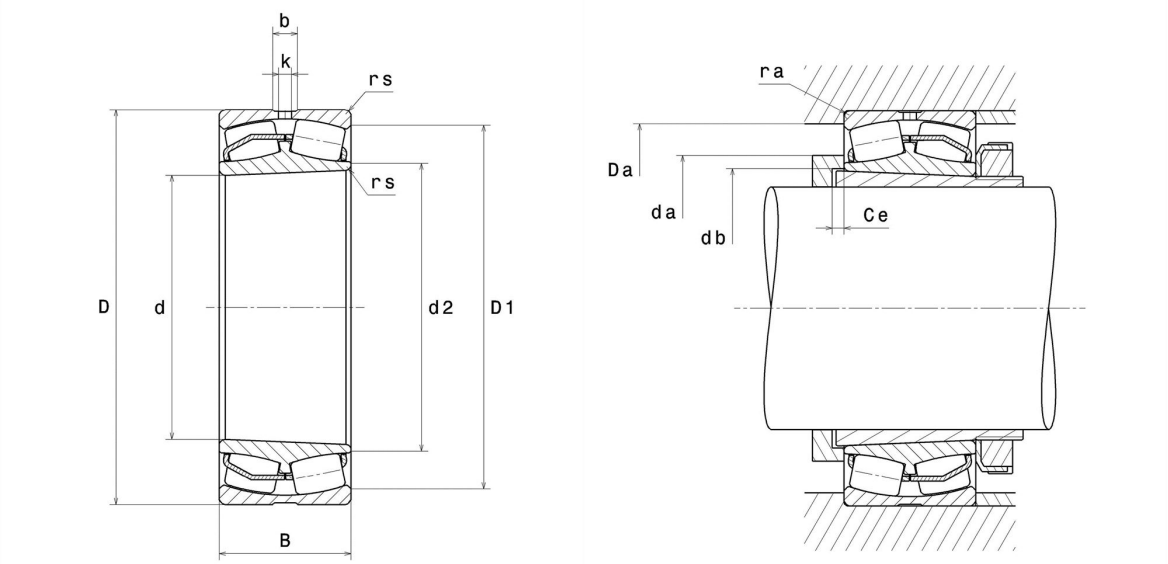
Double row spherical roller bearings



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	180 mm
D	300 mm
B	118 mm
d2	200 mm
D1	260.4 mm
rs min	3 mm
Number of lubrication holes	3
b	14.1 mm
k	6 mm
Associated sleeve reference	P0
e	0.38
Y1	1.78
Y2	2.66
Y0	1.74
Radial clearance class	C3
Mass	33.4 kg
Brand	SNR

Product performance

Dynamic load, C	1,550 kN
Static load, C0	2,050 kN
Fatigue limit load, Cu	123 kN
Nref	1,200 Tr/min
Nlim	1,700 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	7.14 Hz
Characteristic outer ring frequency, BPF0	8.67 Hz
Characteristic inner ring frequency, BPFI	11.33 Hz

Abutment dimensions

da min	194 mm
da max	2.5 mm
Da max	286 mm
ra max	2.5 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ 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 .