Technical data

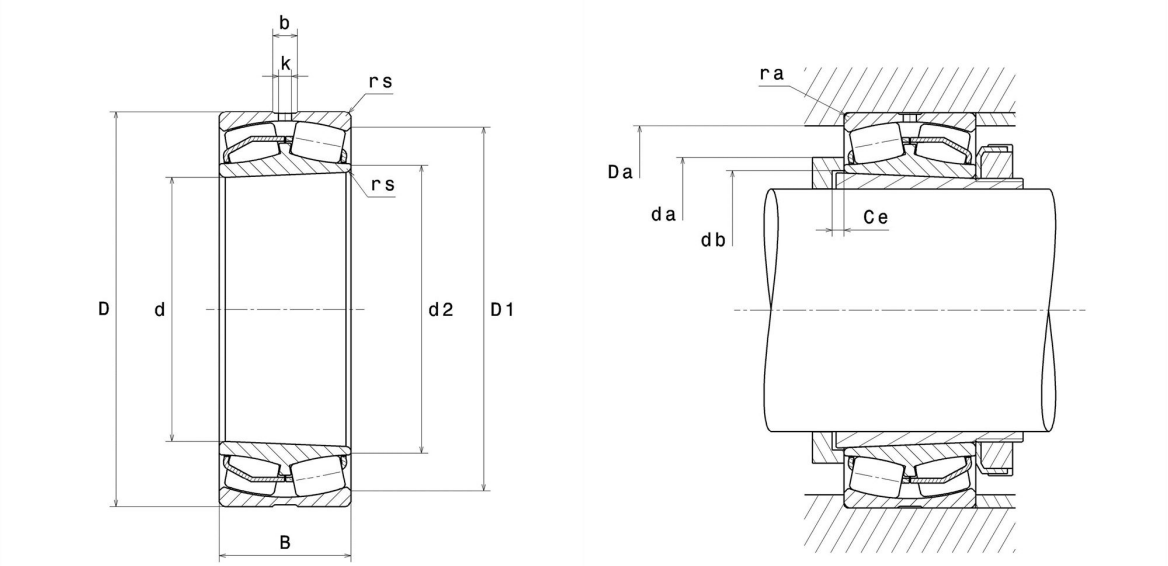
24130EAK30W33C3

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	150 mm
D	250 mm
B	100 mm
d2	165 mm
D1	218.1 mm
rs min	2.1 mm
Number of lubrication holes	3
b	10.4 mm
k	5 mm
Associated sleeve reference	P0
e	0.38
Y1	1.78
Y2	2.66
Y0	1.74
Radial clearance class	C3
Mass	19.6 kg
Brand	SNR

Product performance

Dynamic load, C	1,120 kN
Static load, C0	1,400 kN
Fatigue limit load, Cu	90.9 kN
Nref	1,600 Tr/min
Nlim	2,000 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	6.79 Hz
Characteristic outer ring frequency, BPF0	8.17 Hz
Characteristic inner ring frequency, BPFI	10.83 Hz

Abutment dimensions

da min	162 mm
da max	2 mm
Da max	238 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 .