Technical data

24144.EMW33

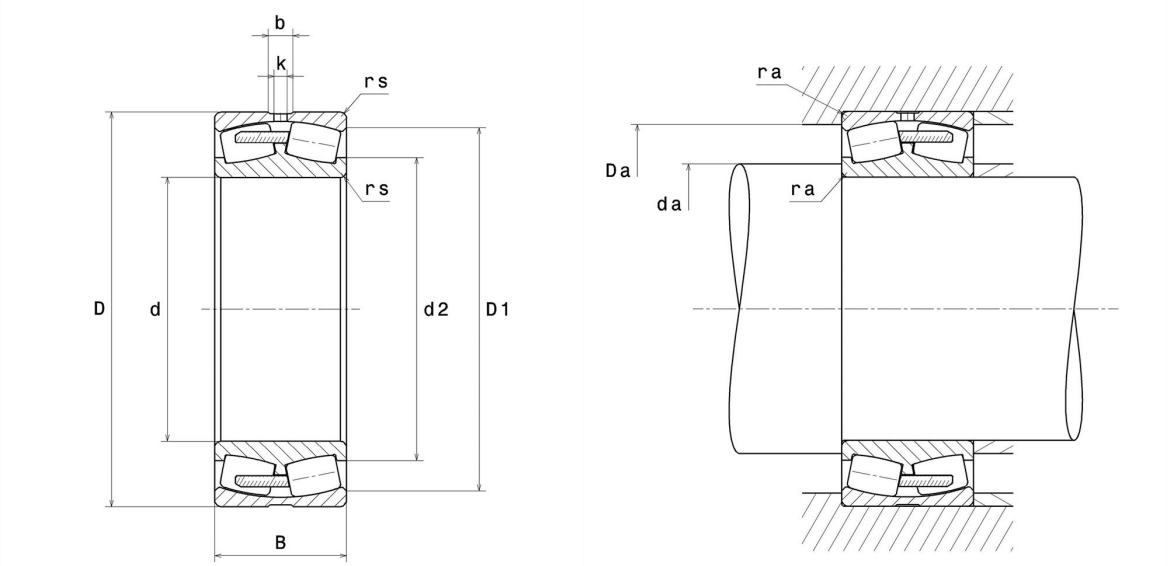
Double row spherical roller bearings



Spherical roller bearing, with central rib on inner ring, one-piece machined cage centred on inner ring, groove and lubrication holes on outer ring

ULTAGE

Visual(s)



Product definition

d	220 mm
D	370 mm
B	150 mm
D1	320.3 mm
rs min	4 mm
Number of lubrication holes	3
b	15.9 mm
k	7 mm
Associated sleeve reference	P0
e	0.39
Y1	1.74
Y2	2.59
Y0	1.7
Radial clearance class	CN
Mass	63.5 kg
Brand	SNR

Product performance

Dynamic load, C	2,600 kN
Static load, C0	3,540 kN
Fatigue limit load, Cu	178 kN
Nref	850 Tr/min
Nlim	1,400 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	6.74 Hz
Characteristic outer ring frequency, BPF0	8.16 Hz
Characteristic inner ring frequency, BPFI	10.84 Hz

Abutment dimensions

da min	237 mm
da max	3 mm
Da max	353 mm
ra max	3 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 .