Technical data

24138EAK30W33

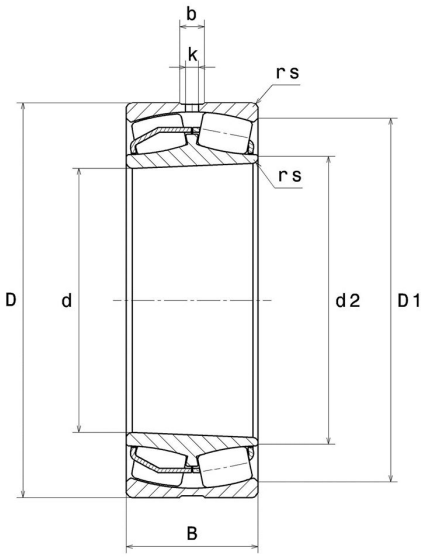
Double row spherical roller bearings

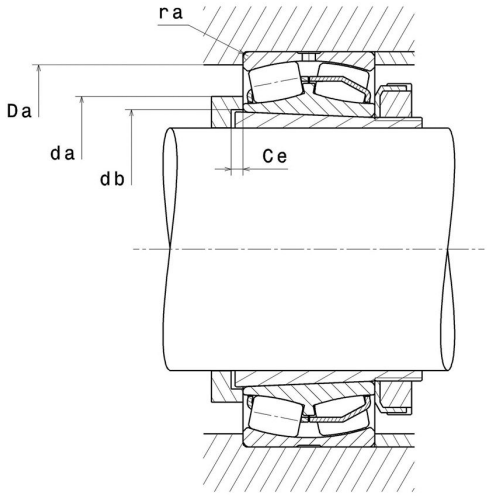


Spherical roller bearing, with central rib on inner ring, pressed steel cage, groove and lubrication holes on outer ring, tapered bore 1:30

ULTAGE

Visual(s)





Product definition

d	190 mm
D	320 mm
B	128 mm
d2	213 mm
D1	277.9 mm
rs min	3 mm
Number of lubrication holes	3
b	14.2 mm
k	6 mm
Associated sleeve reference	P0
e	0.38
Y1	1.76
Y2	2.62
Y0	1.72
Radial clearance class	CN
Mass	41 kg
Brand	SNR

Product performance

Dynamic load, C	1,850 kN
Static load, C0	2,480 kN
Fatigue limit load, Cu	141 kN
Nref	1,100 Tr/min
Nlim	1,600 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	6.98 Hz
Characteristic outer ring frequency, BPF0	8.64 Hz
Characteristic inner ring frequency, BPFI	11.36 Hz

Abutment dimensions

da min	204 mm
da max	2.5 mm
Da max	306 mm
ra max	2.5 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 .