Technical data

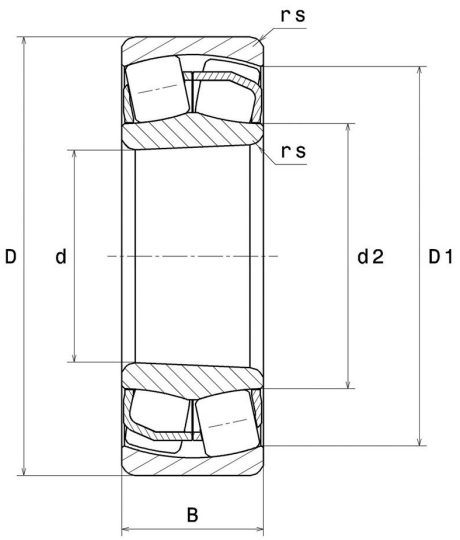
23218EAK.C3

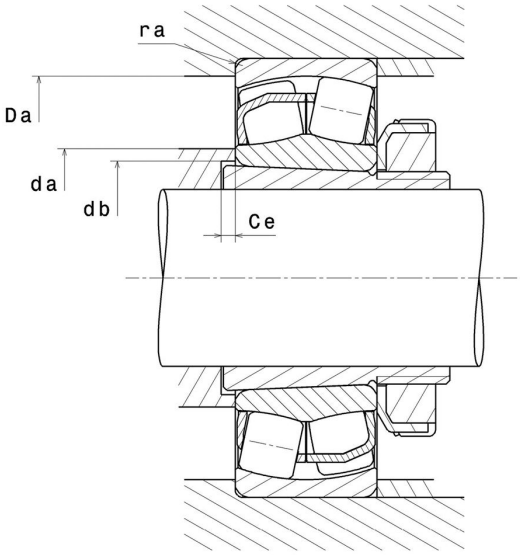
Double row spherical roller bearings

Spherical roller bearing, pressed steel cage, tapered bore 1:12

ULTAGE

Visual(s)





Product definition

d	90 mm
D	160 mm
B	52.4 mm
d2	104.3 mm
D1	141 mm
rs min	2 mm
Number of lubrication holes	0
b	2 mm
k	0 mm
Associated sleeve reference	H2318
e	0.3
Y1	2.25
Y2	3.34
Y0	2.2
Radial clearance class	C3
Mass	4.25 kg
Brand	SNR

Product performance

Dynamic load, C	467 kN
Static load, C0	513 kN
Fatigue limit load, Cu	43.5 kN
Nref	2,900 Tr/min
Nlim	3,700 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	6.25 Hz
Characteristic outer ring frequency, BPF0	7.62 Hz
Characteristic inner ring frequency, BPFI	10.38 Hz

Abutment dimensions

da min	101 mm
da max	2 mm
db min	100 mm
Ce min	18 mm
Da max	149 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

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
1	Y0

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