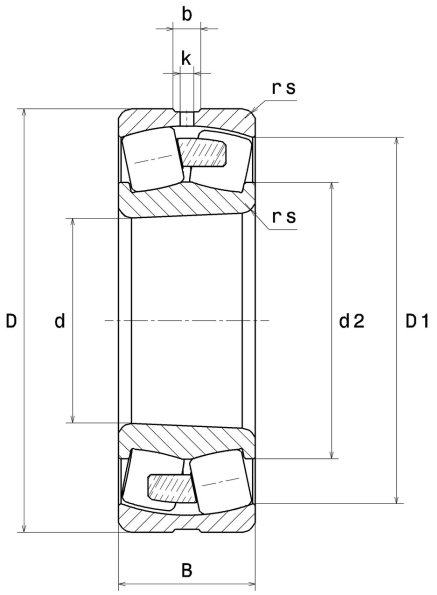
PDF technical sheet
22248EMKW33

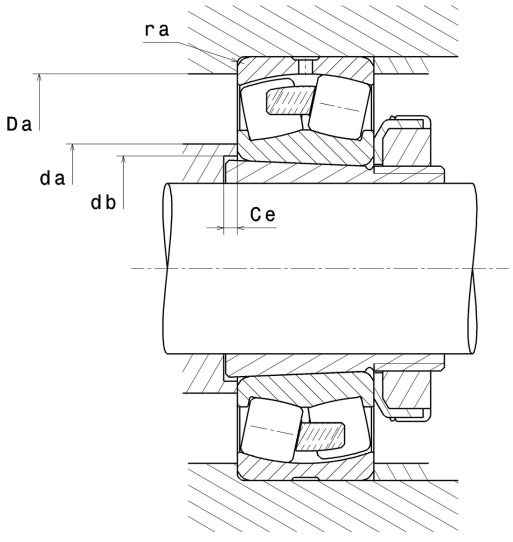
Double row spherical roller bearings

Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring, tapered bore 1:12

Product definition	
d	9.4488 "
D	17.3228 "
B	4.7244 "
d2	12.7362 "
D1	15.3583 "
rs min	0.1575 "
Number of lubrication holes	8
b	0.8295 "
k	0.4724 "
Associated sleeve reference	H3148H
e	0.25
Y1	2.74
Y2	4.08
Y0	2.68
Radial clearance class	CN
Mass	290.76 oz
Brand	SNR



Product performance	
Dynamic load, C	2,500 kN
Static load, C0	3,550 kN
Fatigue limit load, Cu	235 kN
Nref	1,100 RPM
Nlim	1,800 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.13 Hz
Characteristic outer ring frequency, BPF0	10.12 Hz
Characteristic inner ring frequency, BPFI	12.88 Hz



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Abutment dimensions	
da min	10.1181 "
db min	10.0000 "
Ce min	0.7480 "
Da max	16.6535 "
ra max	0.1181 "

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 .