

PDF technical sheet

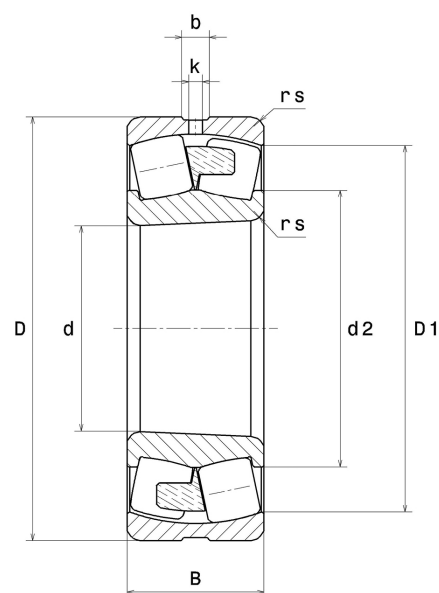
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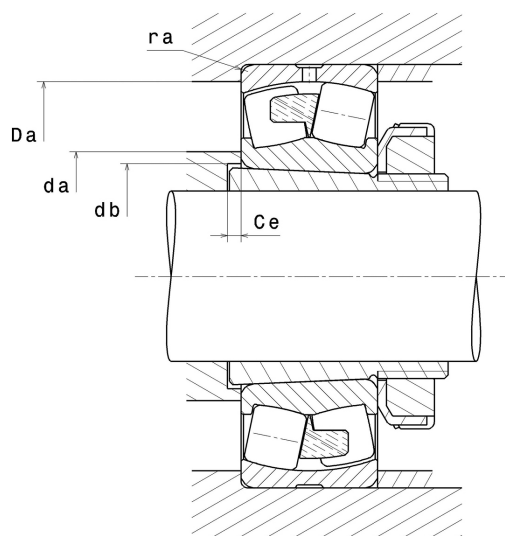
Double row spherical roller bearings

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

Product definition	
d	11.0236 "
D	18.1102 "
B	5.7480 "
D1	16.1142 "
rs min	0.1969 "
Number of lubrication holes	8
b	0.7874 "
k	0.4724 "
Associated sleeve reference	H3156H
e	0.29
Y1	2.35
Y2	3.5
Y0	2.3
Radial clearance class	CN
Mass	332.99 oz
Brand	SNR



Product performance	
Dynamic load, C	3,100 kN
Static load, C0	4,710 kN
Fatigue limit load, Cu	259 kN
Nref	850 RPM
Nlim	1,400 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	8.46 Hz
Characteristic outer ring frequency, BPF0	10.63 Hz
Characteristic inner ring frequency, BPFI	13.37 Hz



Abutment dimensions

da min	11.8110 "
db min	11.6535 "
Ce min	0.4724 "
Da max	17.3228 "
ra max	0.1575 "

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
1	Y0

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