

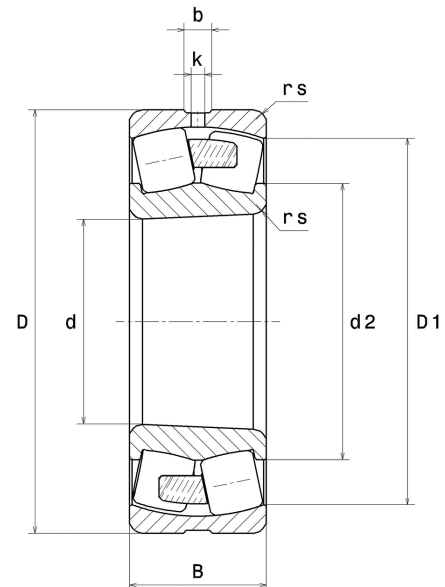
## PDF technical sheet 22324EKF800



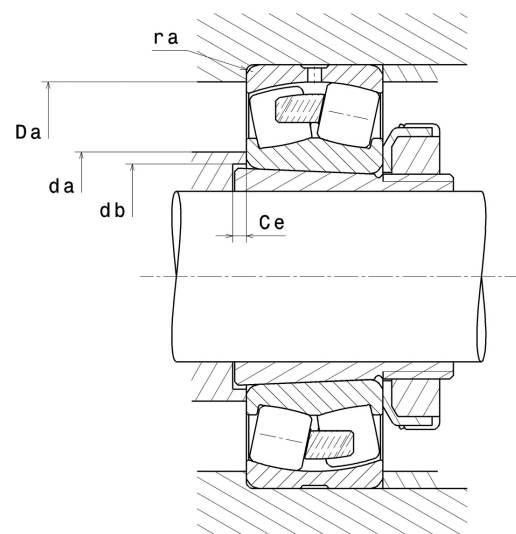
### Double row spherical roller bearings

Spherical roller bearing for vibratory applications, one-piece machined cage, groove and lubrication holes on outer ring, tapered bore 1:12, special C4 class clearance

Product definition	
d	4.7244 "
D	10.2362 "
B	3.3858 "
d2	6.1772 "
D1	8.8189 "
rs min	0.1181 "
Number of lubrication holes	3
b	0.7087 "
k	0.3150 "
Associated sleeve reference	H2324
e	0.32
Y1	2.09
Y2	3.11
Y0	2.04
Radial clearance class	C4 Special
Mass	78.13 oz
Brand	SNR



Product performance	
Dynamic load, C	1,170 kN
Static load, C0	1,280 kN
Fatigue limit load, Cu	96.20 kN
Nref	2,000 RPM
Nlim	2,500 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.33 Hz
Characteristic outer ring frequency, BPF0	6.58 Hz
Characteristic inner ring frequency, BPF1	9.42 Hz



### Abutment dimensions

da min	5.2756 "
db min	5.1575 "
Ce min	0.2756 "
Da max	9.6850 "
ra max	0.0984 "

### 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

$$Po = Xo.Fr + Yo.Fa$$

Xo	Yo
1	Y0

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