



Brand of NTN corporation

Technical data

22320EKF800

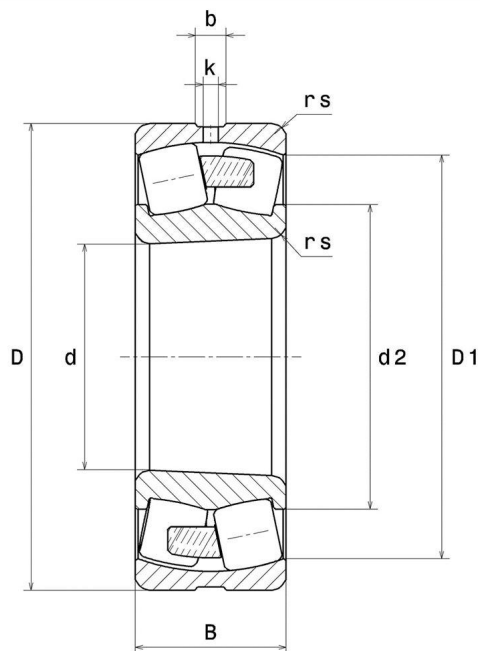
Spherical roller bearings



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

ULTAGE

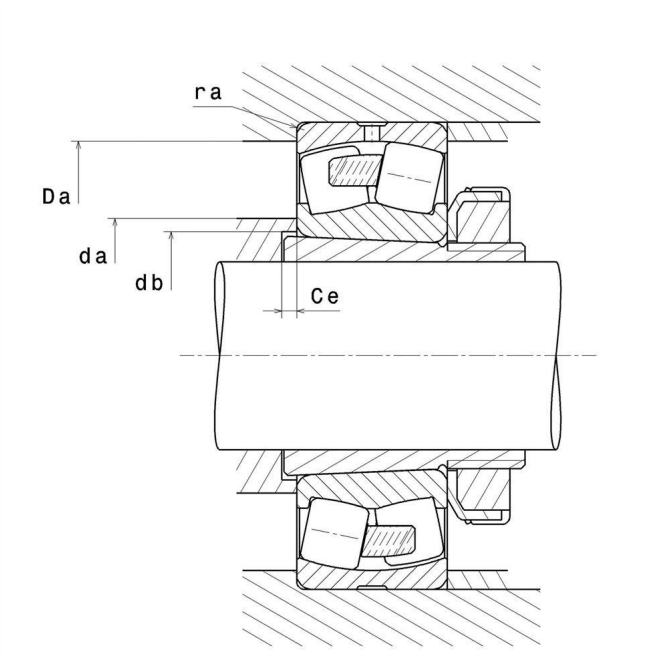
VISUAL (S)



NTN Europe

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S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

22320EKF800
Spherical roller bearings



PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	100 mm
D - External diameter	215 mm
B - Bearing/Inner ring width	73 mm
d2 - External diameter inner ring	0 mm
D1 - Inner diameter outer ring	186,7 mm
rs - Min fillet radius	3 mm
Number of lubrication holes	3
b - Groove width	13,26 mm
k - Hole diameter	6 mm
Associated sleeve reference	H2320
Radial clearance class	C4 Special
Mass	12,55 kg



PRODUCT PERFORMANCE

C - Dynamic load	827000000 mN
C0 - Static load	844000000 mN
Cu - Fatigue limit load	88900000 mN
e - Coefficient	0.34
Y0 - Static axial load coefficient	1.93
Y1 - Lower axial load coefficient	1.98
Y2 - Upper axial load coefficient	2.94
N ref - Reference thermal speed	15600 °/s
N lim - Mechanical Limit Speed	18600 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	473,15 °K

BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	6.08 Hz
BPFI - Over rolling frequency on inner (60 rpm)	8.92 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	4.964 Hz
BRF - Rotational frequency - rolling element (60 rpm)	2.482 Hz
FTF - Rotational frequency - cage (60 rpm)	0.405 Hz

ABUTMENT

da max - Max shoulder diameter IR	0 mm
da min - Min shoulder diameter IR	114 mm
db - Min diameter for Sleeve	110 mm
Ce - Min length fro Sleeve	7 mm
Da max - Max shoulder diameter OR	201 mm



ABUTMENT

ra max - Max shaft & housing fillet radius

2,5 mm

INDUSTRY CALCUL 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 .



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