

Technical data

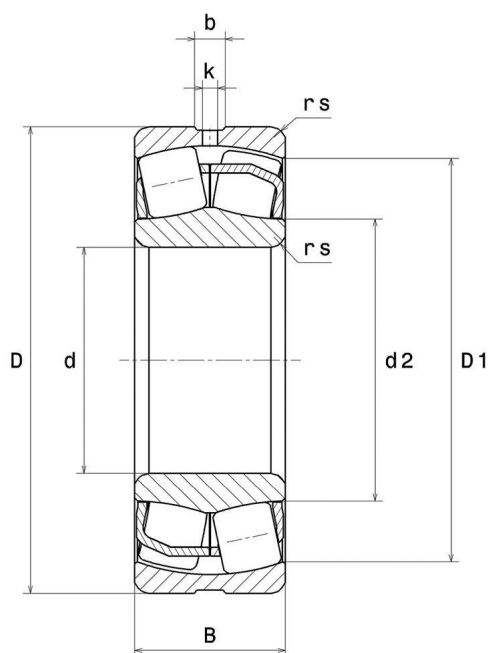
23228EAW33

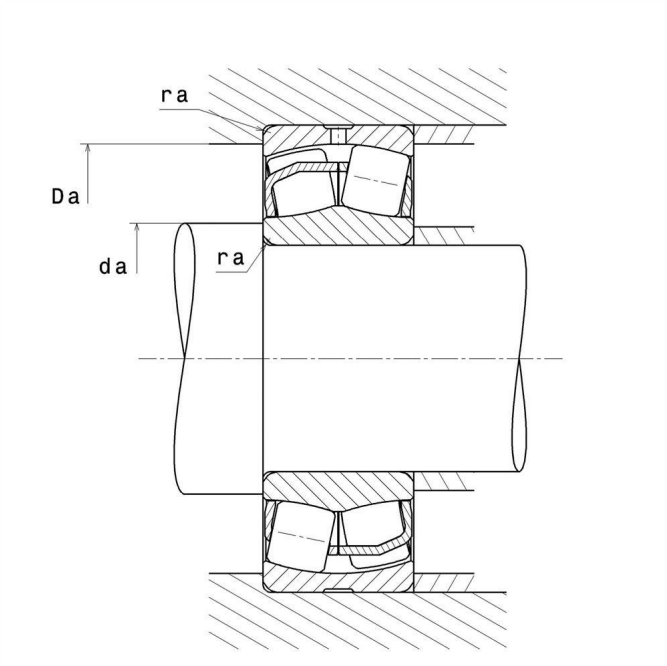
Spherical roller bearings



ULTAGE®

VISUAL (S)





PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	140 mm
D - External diameter	250 mm
B - Bearing/Inner ring width	88 mm
d2 - External diameter inner ring	162,6 mm
D1 - Inner diameter outer ring	219,6 mm
rs - Min fillet radius	3 mm
Number of lubrication holes	3
b - Groove width	12,64 mm
k - Hole diameter	6 mm
Radial clearance class	CN
Mass	17,92 kg

PRODUCT PERFORMANCE



PRODUCT PERFORMANCE

C - Dynamic load	1140000000 mN
C0 - Static load	1370000000 mN
Cu - Fatigue limit load	136000000 mN
e - Coefficient	0.33
Y0 - Static axial load coefficient	2.01
Y1 - Lower axial load coefficient	2.06
Y2 - Upper axial load coefficient	3.06
N ref - Reference thermal speed	10200 °/s
N lim - Mechanical Limit Speed	14400 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	473,15 °K

ABUTMENT

da min - Min shoulder diameter IR	154 mm
Da max - Max shoulder diameter OR	236 mm
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 .



NTN Europe

1 rue des Usines · BP 2017 · 74010 Annecy Cedex · France · Tel. +33 (0)4 50 65 30 00
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