

Technical data

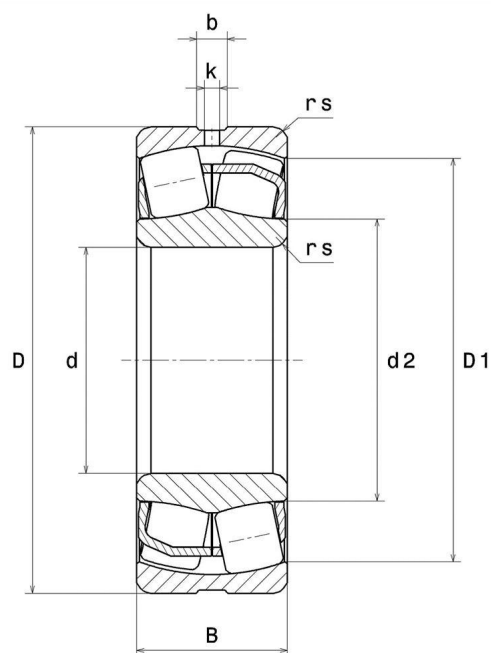
22219EAW33C3

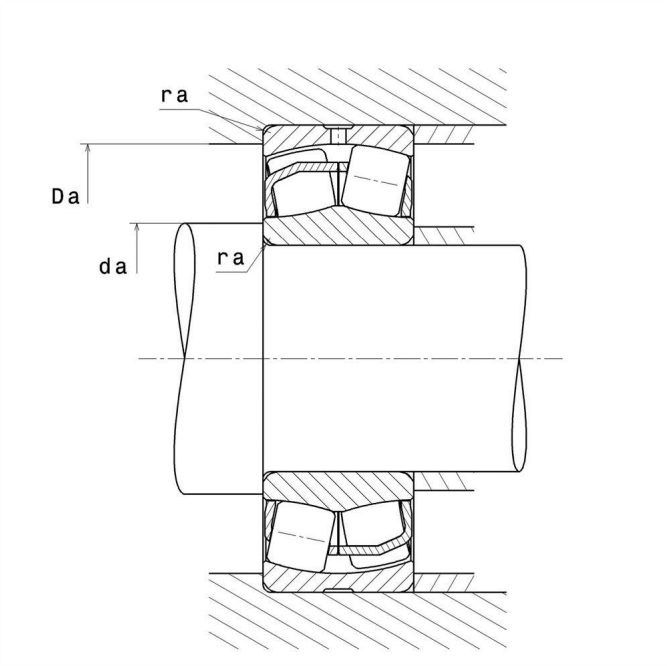
Spherical roller bearings



ULTAGE®

VISUAL (S)





PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	95 mm
D - External diameter	170 mm
B - Bearing/Inner ring width	43 mm
d2 - External diameter inner ring	110,8 mm
D1 - Inner diameter outer ring	152,8 mm
rs - Min fillet radius	2,1 mm
Number of lubrication holes	3
b - Groove width	9,54 mm
k - Hole diameter	4,5 mm
Radial clearance class	C3
Mass	3,95 kg

PRODUCT PERFORMANCE



PRODUCT PERFORMANCE

C - Dynamic load	416000000 mN
C0 - Static load	417000000 mN
Cu - Fatigue limit load	46500000 mN
e - Coefficient	0.23
Y0 - Static axial load coefficient	2.89
Y1 - Lower axial load coefficient	2.95
Y2 - Upper axial load coefficient	4.4
N ref - Reference thermal speed	22800 °/s
N lim - Mechanical Limit Speed	28800 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	473,15 °K

ABUTMENT

da min - Min shoulder diameter IR	107 mm
Da max - Max shoulder diameter OR	158 mm
ra max - Max shaft & housing fillet radius	2 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 .

