



Technical data

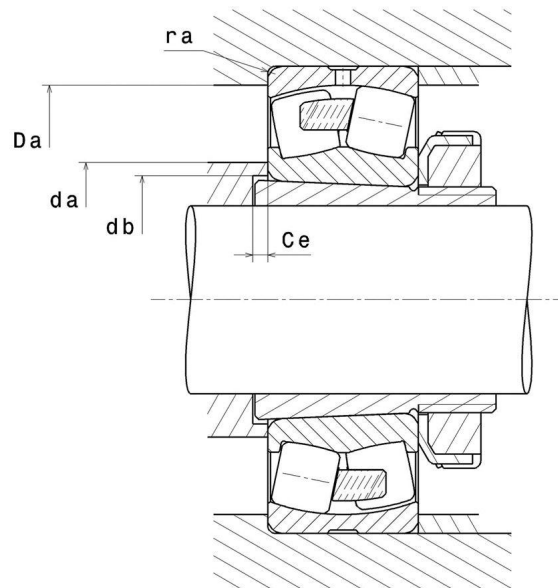
22312EKF800

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

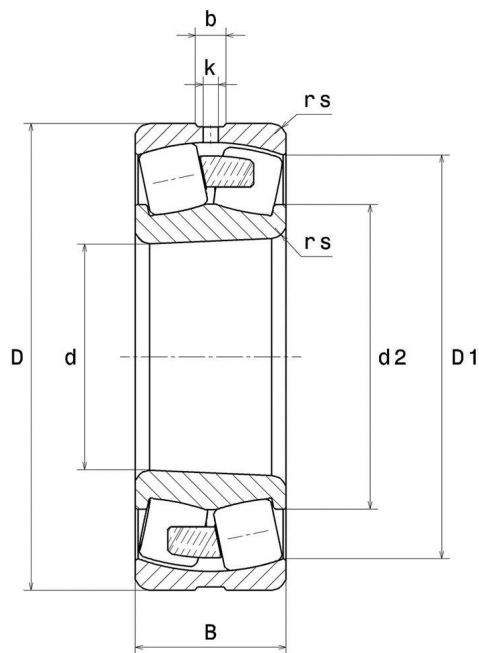
ULTAGE

VISUAL (S)



22312EKF800

Spherical roller bearings



PRODUCT DIMENSIONS

Internal diameter (d)	60 mm
External diameter (D)	130 mm
Bearing/Inner ring width (B)	46 mm
External diameter inner ring (d2)	0 mm
Inner diameter outer ring (D1)	111,9 mm
Min fillet radius (rs)	2,1 mm
Number of lubrication holes	3 or 4
Groove width (b)	9 mm
Hole diameter (k)	4 mm
Associated sleeve reference	H2312
Coef (e)	0.35
Lower axial load coef (Y1)	1.95
Upper axial load coef (Y2)	2.9

PRODUCT DIMENSIONS

Static axial load coef (Y0)	1.91
Radial clearance class	C4 Special
Mass	2,868 kg
Brand	SNR

PRODUCT PERFORMANCE

Dynamic load (C)	340 kN
Static load (C0)	319 kN
Fatigue limit load (Cu)	38,9 kN
Reference thermal speed (Nref)	4300 tr/min
Mechanical Limit Speed (Nlim)	5100 tr/min
Min operating temperature (Tmin)	-40 °C
Max operating temperature (Tmax)	200 °C

ABUTMENT

Max shoulder diameter IR (da max)	0 mm
Min shoulder diameter IR (da min)	72 mm
Min diameter for Sleeve (db)	66 mm
Min length fro Sleeve (Ce)	6 mm
Max shoulder diameter OR (Da max)	118 mm
Max shaft & housing fillet radius (ra max)	2 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

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

Fa / Fr ≤ e		Fa / Fr > 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 .