Technical data

24024.EAW33

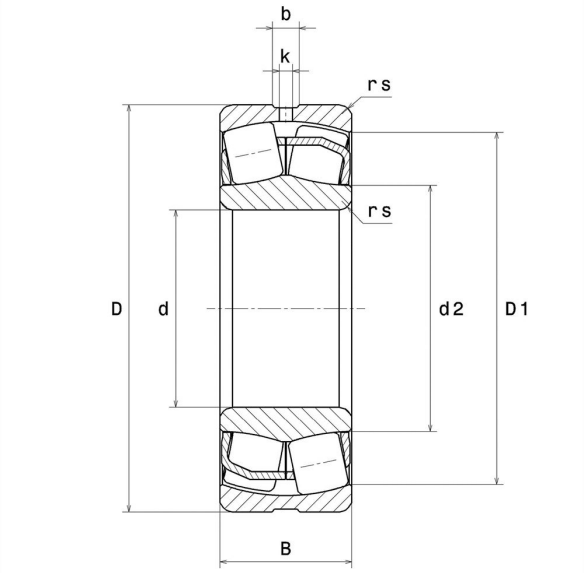
Double row spherical roller bearings

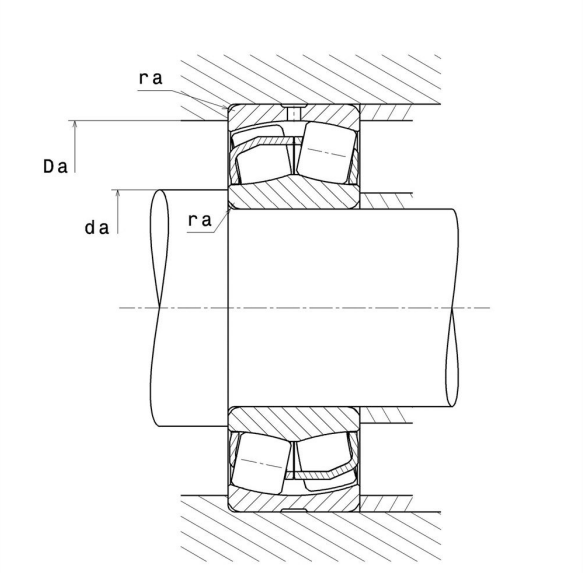


Spherical roller bearing, pressed steel cage, groove and lubrication holes on outer ring

ULTAGE

Visual(s)





Product definition

d	120 mm
D	180 mm
B	60 mm
d2	130.6 mm
D1	162.2 mm
rs min	2 mm
Number of lubrication holes	3
b	6.4 mm
k	3.5 mm
Associated sleeve reference	P0
e	0.3
Y1	2.28
Y2	3.39
Y0	2.23
Radial clearance class	CN
Mass	5.1 kg
Brand	SNR

Product performance

Dynamic load, C	535 kN
Static load, C0	705 kN
Fatigue limit load, Cu	76 kN
Nref	2,500 Tr/min
Nlim	3,400 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.57 Hz
Characteristic outer ring frequency, BPF0	10.2 Hz
Characteristic inner ring frequency, BPFI	12.8 Hz

Abutment dimensions

da min	128.8 mm
da max	2 mm
Da max	171.2 mm
ra max	2 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa/Fr \leq e$		$Fa/Fr > e$	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
1	Y0

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