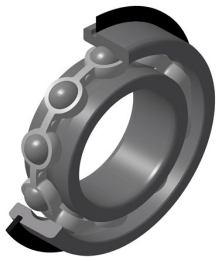
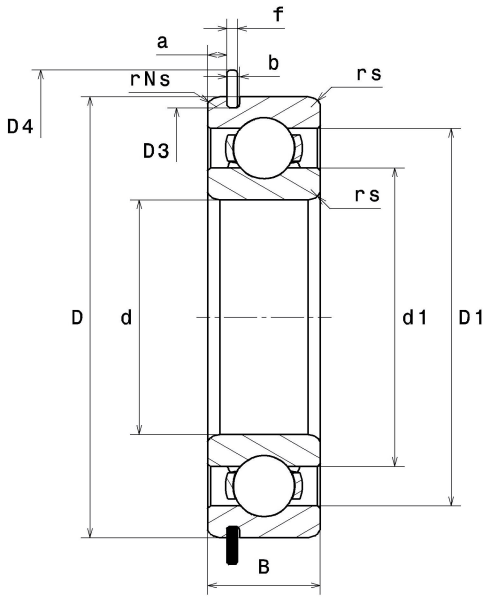
PDF technical sheet
6410NR

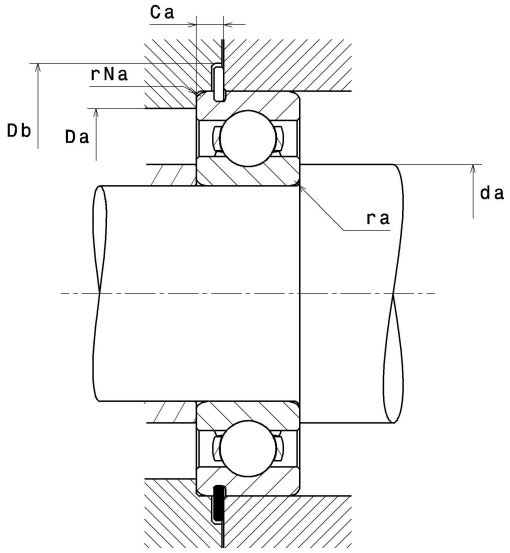


Single row deep groove ball bearings

Product definition	
d	50 mm
D	130 mm
B	31 mm
a min	3.86 mm
a max	4.06 mm
Ca min	6.63 mm
Ca max	6.83 mm
rs min	2.10 mm
rNs min	0.50 mm
D3 max	125.22 mm
b min	3.10 mm
b max	3.40 mm
r0 max	0.60 mm
D4 max	139.70 mm
f	2.77 mm
Snap ring reference	R130
Radial clearance class	CN
Mass	1.88 kg
Brand	NTN



Product performance	
Dynamic load, C	83 kN
Static load, C0	49.50 kN
Fatigue limit load, Cu	2.25 kN
f0	12.5
Nlim (oil)	6,700 Tr/min
Nlim (grease)	5,700 Tr/min
Min operating temperature, Tmin	−20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.37 Hz
Characteristic rolling element frequency, BSF	3.54 Hz
Characteristic outer ring frequency, BPF0	2.58 Hz
Characteristic inner ring frequency, BPFI	4.42 Hz



NTN-SNR ROULEMENTS – www.ntn-snr.com
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Abutment dimensions	
da min	61 mm
Da max	119 mm
ra max	2 mm
rNa max	0.50 mm
Db min	141.50 mm

Calculation factors

Equivalent dynamic radial load

P = X.Fr + Y.Fa

$\frac{f_0 F_a}{C_0}$	e	Fa / Fr ≤ e		Fa / Fr > e	
		X	Y	X	Y
0.172	0.19	1	0	0.56	2.3
0.345	0.22				1.99
0.689	0.26				1.71
1.03	0.28				1.55
1.38	0.3				1.45
2.07	0.34				1.31
3.45	0.38				1.15
5.17	0.42				1.04
6.89	0.44				1

Equivalent static radial load

Po = Xo.Fr + Yo.Fa

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If Po <Fr, then use Po = Fr