Technical data

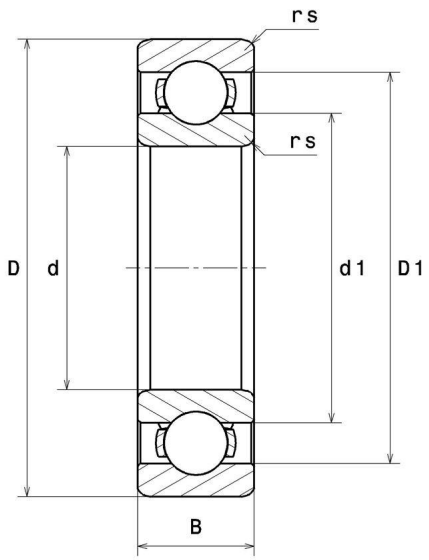
6210C4

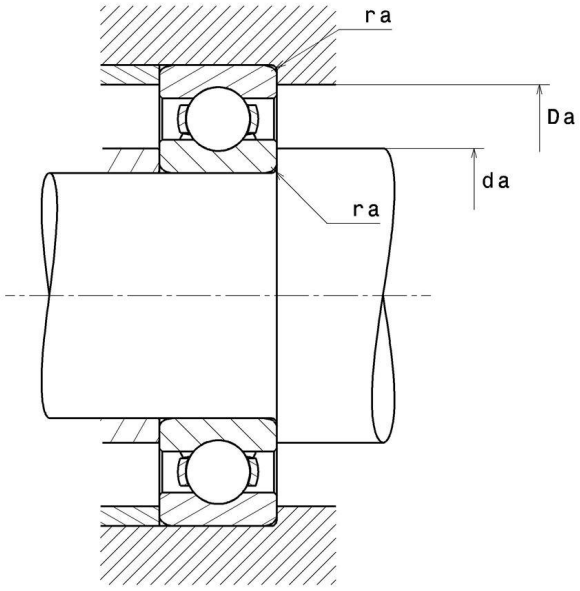
Single row deep groove ball bearings



Deep groove ball bearing, radial contact, pressed steel cage, open

VISUAL (S)





6210C4
Single row deep groove ball bearings

PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	50 mm
D - External diameter	90 mm
B - Bearing/Inner ring width	20 mm
rs - Min fillet radius	1,1 mm
Radial clearance class	C4
Mass	0,454 kg

PRODUCT PERFORMANCE	
C - Dynamic load	39 kN
C0 - Static load	23,2 kN
Cu - Fatigue limit load	1,82 kN
f0 - Coefficient	14.4
N lim - Oil lubrication limit speed	8300 tr/min
N lim - Grease lubrication limit speed	7100 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C

ABUTMENT	
da min - Min shoulder diameter IR	56,5 mm
Da max - Max shoulder diameter OR	83,5 mm
ra max - Max shaft & housing fillet radius	1 mm

INDUSTRY CALCUL 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