Technical data

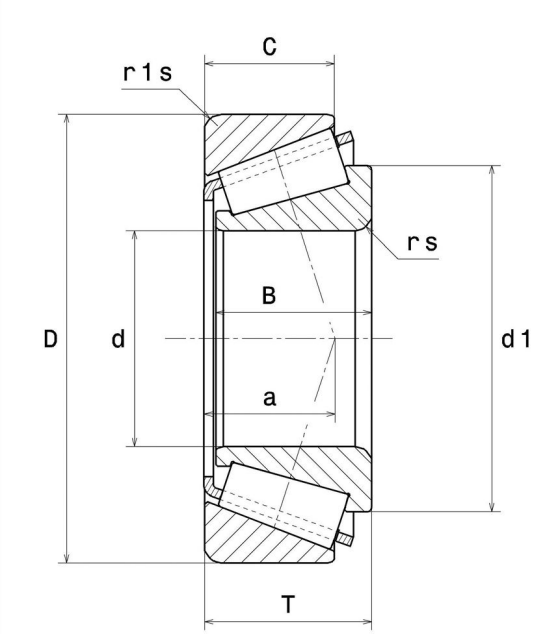
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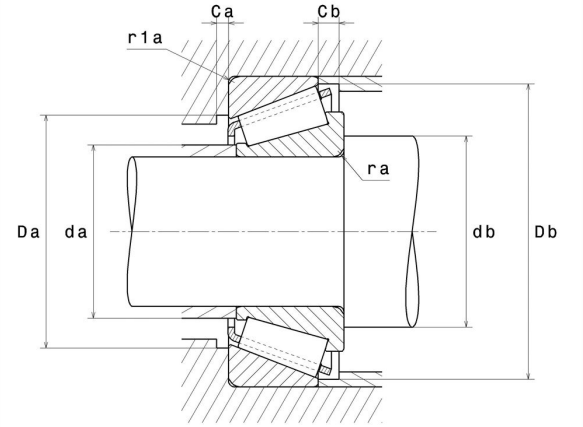
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	150 mm
D	225 mm
B	59 mm
C	46 mm
T	59 mm
a	48 mm
rs min	3 mm
r1s min	2.5 mm
e	0.36
Y2	1.65
Y0	0.9
Mass	8.07 kg
Brand	NTN

Product performance

Dynamic load, C	460 kN
Rating life coefficient, A2	1.4
Static load, C0	860 kN
Nlim (oil)	1,900 Tr/min
Nlim (grease)	1,400 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	10.33 Hz
Characteristic outer ring frequency, BPF0	13.15 Hz
Characteristic inner ring frequency, BPFI	15.85 Hz

Abutment dimensions

da max	164 mm
db min	163 mm
Da min	196 mm
Da max	213 mm
Db min	218 mm
ra max	2.5 mm
r1a max	2 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
0.5	Y0

If Po <Fr, then use Po = Fr

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