Technical data

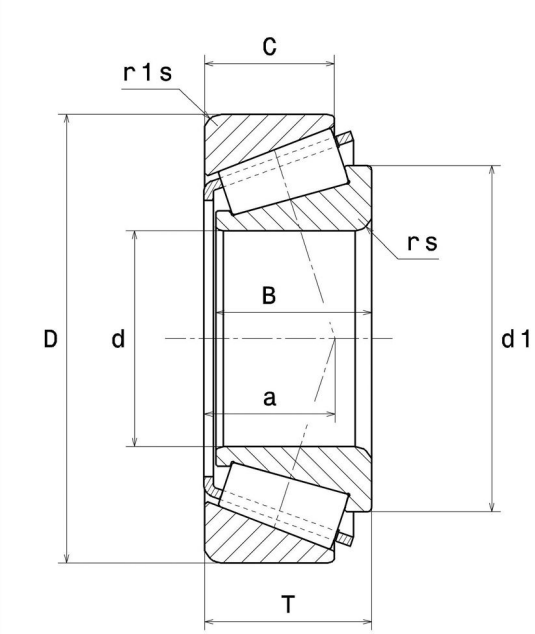
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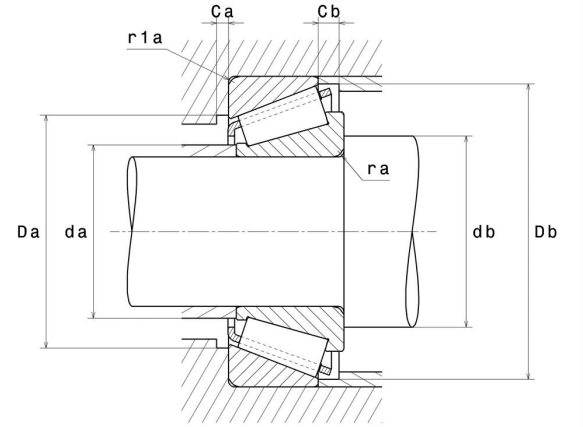
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	120 mm
D	165 mm
B	27 mm
C	23 mm
T	29 mm
d1	141.5 mm
a	31 mm
rs min	1.5 mm
r1s min	1.5 mm
e	0.37
Y2	1.6
Y0	0.88
Mass	1.65 kg
Brand	NTN

Product performance

Dynamic load, C	118 kN
Rating life coefficient, A2	1
Static load, C0	205 kN
Fatigue limit load, Cu	22.5 kN
Nlim (oil)	2,600 Tr/min
Nlim (grease)	2,000 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	14.09 Hz
Characteristic outer ring frequency, BPF0	14.9 Hz
Characteristic inner ring frequency, BPFI	17.1 Hz

Abutment dimensions

db min	128.5 mm
Da min	147.5 mm
Da max	156.5 mm
Db min	159.5 mm
Ca min	6 mm
Cb min	6 mm
ra max	1.5 mm
r1a max	1.5 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa / Fr \leq e$		$Fa / Fr > e$	
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