Technical data

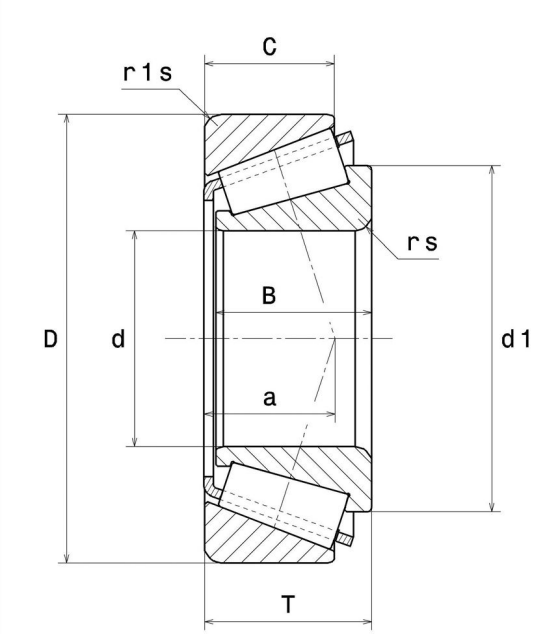
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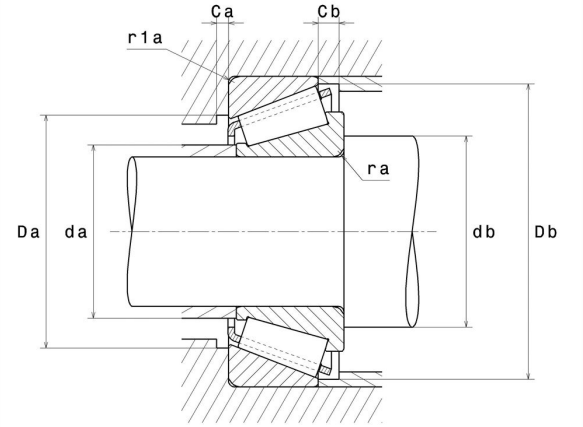
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	75 mm
D	130 mm
B	25 mm
C	22 mm
T	27.25 mm
d1	100 mm
a	27 mm
rs min	2 mm
r1s min	1.5 mm
e	0.44
Y2	1.38
Y0	0.76
Mass	1.41 kg
ISO 355 reference	T4DB075
Brand	NTN

Product performance

Dynamic load, C	139 kN
Rating life coefficient, A2	1.4
Static load, C0	175 kN
Fatigue limit load, Cu	21.2 kN
Nlim (oil)	3,600 Tr/min
Nlim (grease)	2,700 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.89 Hz
Characteristic outer ring frequency, BPF0	8.63 Hz
Characteristic inner ring frequency, BPFI	11.37 Hz

Abutment dimensions

da max	85 mm
db min	85 mm
Da min	115 mm
Da max	121.5 mm
Db min	124 mm
Ca min	4 mm
Cb min	5 mm
ra max	2 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