



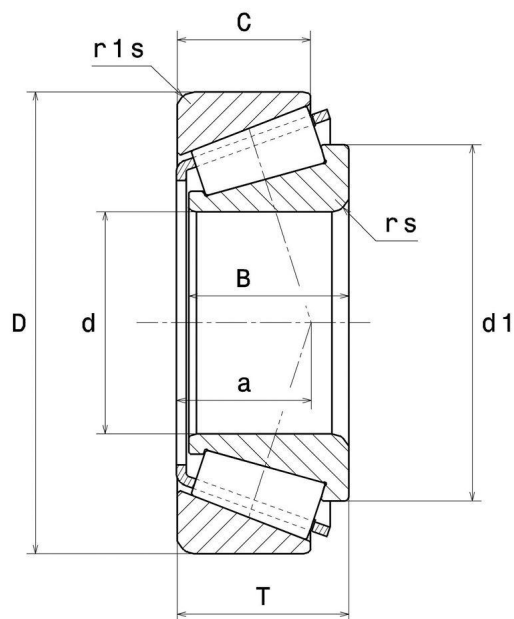
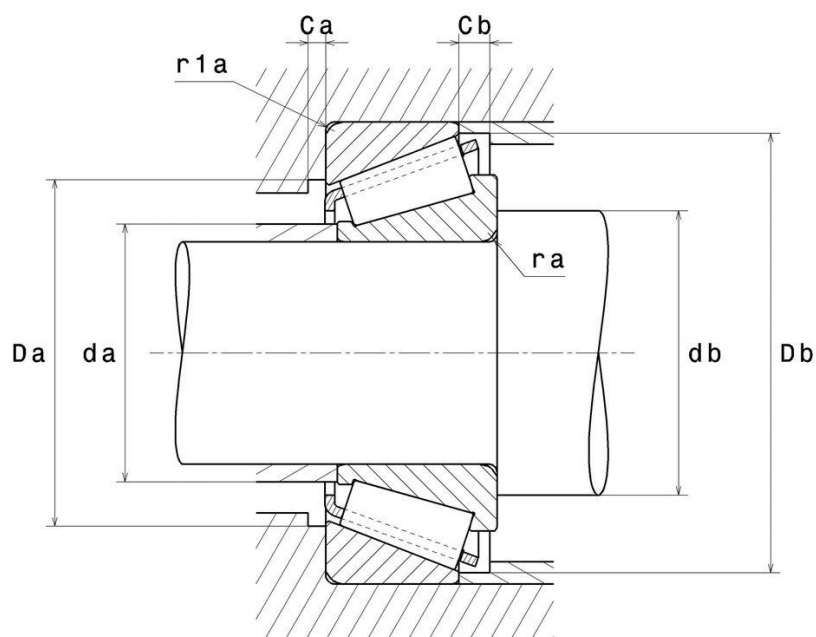
Technical data

4T-33111

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

VISUAL (S)



4T-33111

Single row tapered roller bearings

PRODUCT DIMENSIONS

Internal diameter d	55 mm
External diameter D	95 mm
Bearing/Inner ring width(B)	30 mm
Outer ring width (C)	23 mm
Total width (T)	30 mm
External diameter inner ring d1	75,5 mm
Charge load application point a	22 mm
Min fillet radius rs	1,5 mm
Min fillet radius r1s	1,5 mm
Coef e	0.37
Upper axial load coef (Y2)	1.6
Static axial load coef (Y0)	0.88
Mass	0,858 kg
ISO 355 reference	T3CE055
Brand	NTN

PRODUCT PERFORMANCE

Dynamic load, C	123 kN
Rating life coefficient, A2	1.0
Static load, C0	155 kN
Fatigue limit load, Cu	18,9 kN
Nlim (oil)	5200 tr/min
Nlim (grease)	3900 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.436 Hz
Characteristic rolling element frequency, BSF	7.49 Hz
Characteristic outer ring frequency, BPF0	9.162 Hz
Characteristic inner ring frequency, BPF1	11.838 Hz

ABUTMENT

Max shoulder diameter IR da max	62 mm
Min IR shoulder diameter (db min)	63,5 mm

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ABUTMENT

Min shoulder diameter OR Da min	83 mm
Max shoulder diameter OR Da max	86,5 mm
Min OR shoulder diameter Db min	91 mm
Min clearance Ca	5 mm
Min clearance Cb	7 mm
Max fillet radius ra max	1,5 mm
Maxi fillet radius r1a	1,5 mm

INDUSTRY CALCUL 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

$$Po = Xo.Fr + Yo.Fa$$

Xo	Yo
0.5	Yo

If $Po < Fr$, then use $Po = Fr$

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