



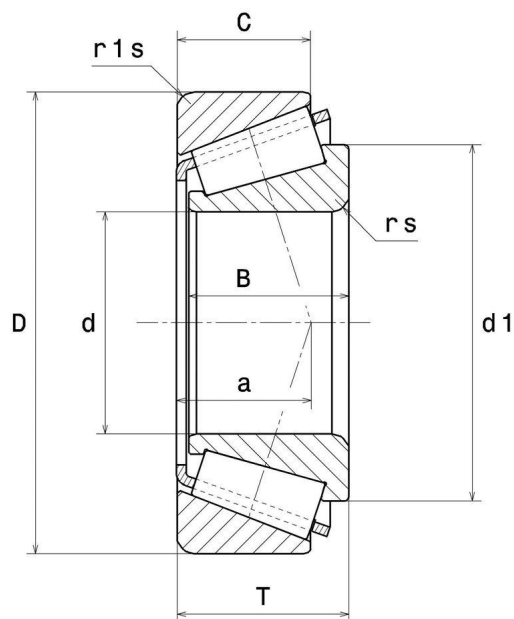
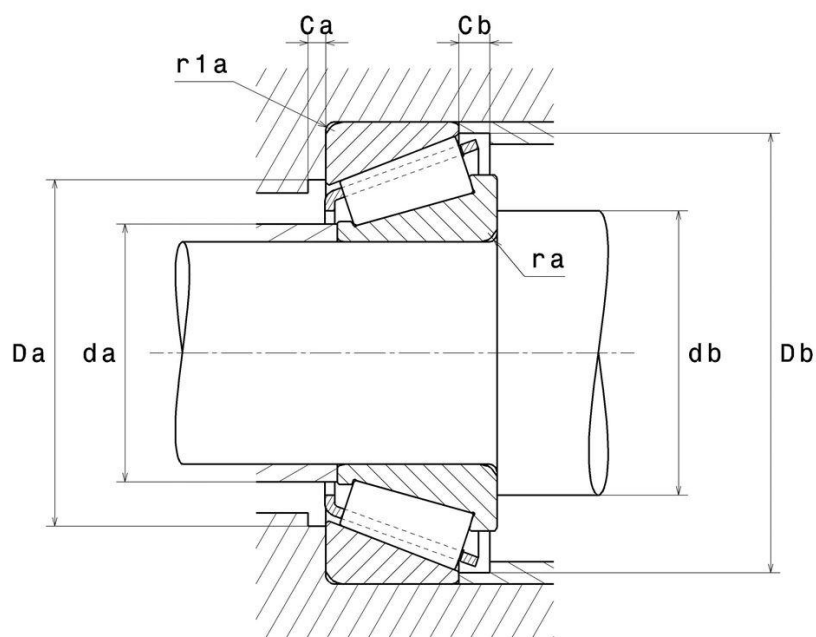
Technical data

4T-33109

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

VISUAL (S)



4T-33109

Single row tapered roller bearings

PRODUCT DIMENSIONS

Internal diameter d	45 mm
External diameter D	80 mm
Bearing/Inner ring width(B)	26 mm
Outer ring width (C)	20,5 mm
Total width (T)	26 mm
External diameter inner ring d1	63 mm
Charge load application point a	19,5 mm
Min fillet radius rs	1,5 mm
Min fillet radius r1s	1,5 mm
Coef e	0.38
Upper axial load coef (Y2)	1.57
Static axial load coef (Y0)	0.86
Mass	0,544 kg
ISO 355 reference	T3CE045
Brand	NTN

PRODUCT PERFORMANCE

Dynamic load, C	94 kN
Rating life coefficient, A2	1.0
Static load, C0	115 kN
Fatigue limit load, Cu	14 kN
Nlim (oil)	6200 tr/min
Nlim (grease)	4700 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.434 Hz
Characteristic rolling element frequency, BSF	7.216 Hz
Characteristic outer ring frequency, BPF0	9.115 Hz
Characteristic inner ring frequency, BPGI	11.885 Hz

ABUTMENT

Max shoulder diameter IR da max	52 mm
Min IR shoulder diameter (db min)	53,5 mm

4T-33109

Single row tapered roller bearings

ABUTMENT

Min shoulder diameter OR Da min	69 mm
Max shoulder diameter OR Da max	71,5 mm
Min OR shoulder diameter Db min	77 mm
Min clearance Ca	4 mm
Min clearance Cb	5,5 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