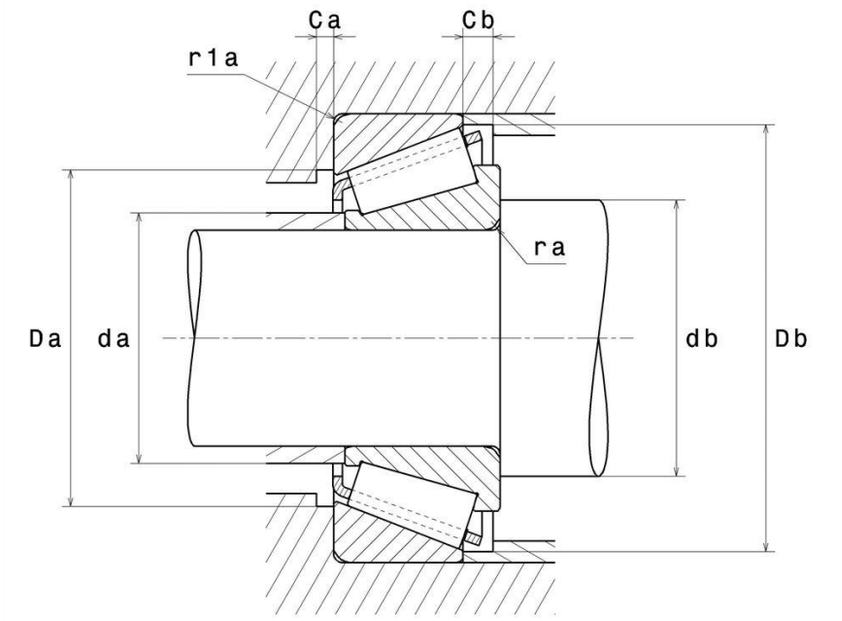
Technical data

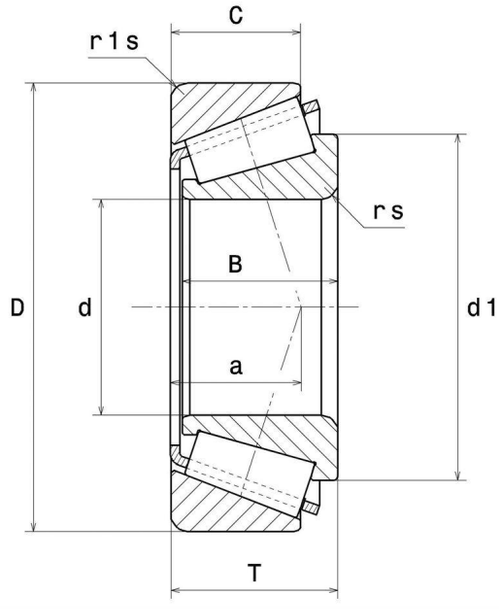
4T-33115

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

VISUAL (S)





4T-33115
Single row tapered roller bearings

PRODUCT DIMENSIONS	
Internal diameter d	75 mm
External diameter D	125 mm
Bearing/Inner ring width(B)	37 mm
Outer ring width (C)	29 mm
Total width (T)	37 mm
Charge load application point a	29 mm
Min fillet radius rs	2 mm
Min fillet radius r1s	1,5 mm
Coef e	0.4
Upper axial load coef (Y2)	1.51
Static axial load coef (Y0)	0.83
Mass	1,74 kg
ISO 355 reference	T3DE075
Brand	NTN

PRODUCT PERFORMANCE	
Dynamic load, C	188 kN
Rating life coefficient, A2	1.0
Static load, C0	252 kN
Nlim (oil)	3800 tr/min
Nlim (grease)	2900 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.441 Hz
Characteristic rolling element frequency, BSF	8.032 Hz
Characteristic outer ring frequency, BPF0	9.695 Hz
Characteristic inner ring frequency, BPFI	12.305 Hz

ABUTMENT	
Max shoulder diameter IR da max	85 mm
Min IR shoulder diameter (db min)	84 mm
Min shoulder diameter OR Da min	106 mm
Max shoulder diameter OR Da max	116,5 mm

ABUTMENT	
Min OR shoulder diameter Db min	121,5 mm
Max fillet radius ra max	2 mm
Maxi fillet radius r1a	1,5 mm

INDUSTRY CALCUL 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