



Technical data

4T-683/672

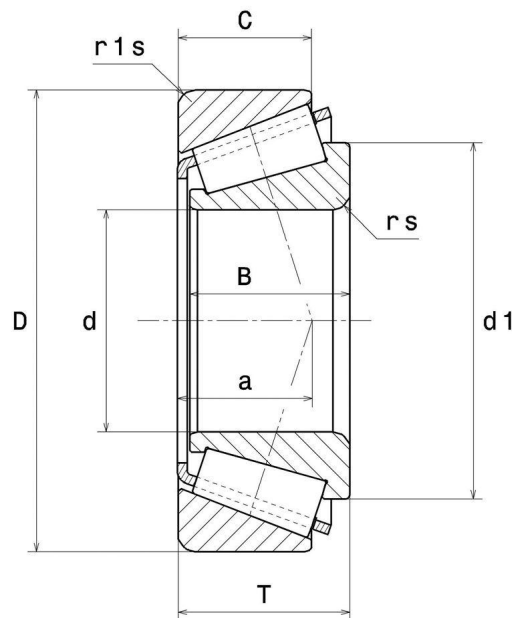
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

KIT CONTENT

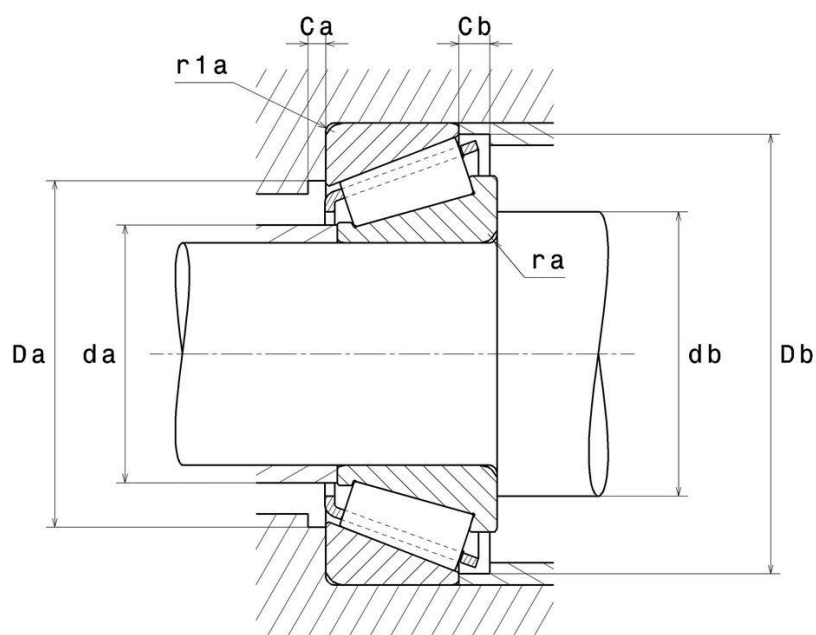
4T-672, 4T-683

VISUAL (S)



4T-683/672

Single row tapered roller bearings



PRODUCT DIMENSIONS

d - Internal diameter	95,25 mm
D - External diameter	168,275 mm
B - Bearing/Inner ring width	41,275 mm
C - Outer ring width	30,162 mm
T - Total width	41,275 mm
d1 - External diameter inner ring	133,5 mm
a - Charge load application point	38,275 mm
Mass	3,72 kg
Brand	NTN

PRODUCT PERFORMANCE

C - Dynamic load	247 kN
C0 - Static load	340 kN
Cu - Fatigue limit load	38,1 kN

PRODUCT PERFORMANCE

A2 - Rating life coefficient	1
e - Coefficient	0.47
Y0 - Static axial load coefficient	0.7
Y2 - Upper axial load coefficient	1.28
Nlim - Oil lubrication limit speed	2800 tr/min
Nlim - Grease lubrication limit speed	2100 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C
FTF - Characteristic cage frequency	0.446 Hz
BSF - Characteristic rolling element frequency	8.755 Hz
BPFO - Characteristic outer ring frequency	10.261 Hz
BPFI - Characteristic inner ring frequency	12.739 Hz

ABUTMENT

da max - Max shoulder diameter IR	106 mm
db min - Min IR shoulder diameter	113 mm
Da max - Max shoulder diameter OR	149 mm
Db min - Min OR shoulder diameter	160 mm
ra max - Max fillet radius	3,5 mm
r1a - Max fillet radius	3,3 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	0	0.4	Y ₂

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
0.5	Y ₀

If $P_0 < F_r$, then use $P_0 = F_r$

The values for e, Y₂ and Y₀ are shown in the above table