



Technical data

4T-HM88542/HM88510

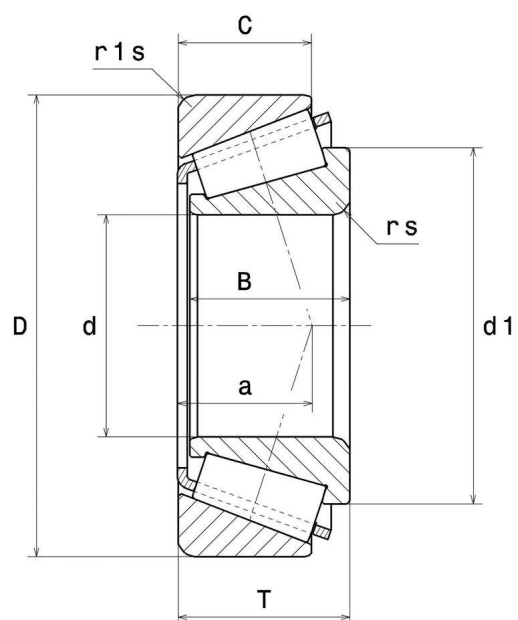
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

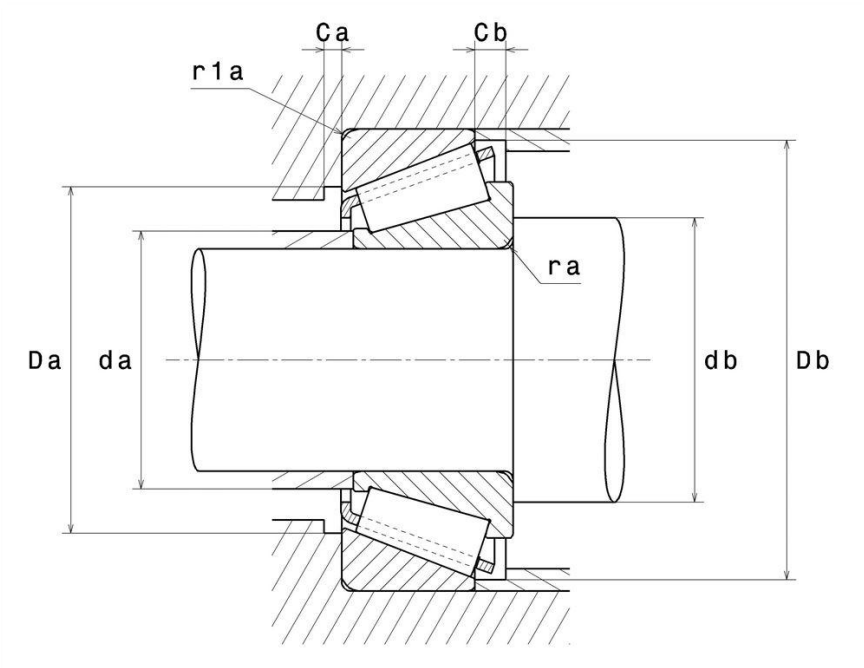
KIT CONTENT

4T-HM88510, 4T-HM88542

VISUAL (S)



4T-HM88542/HM88510
Single row tapered roller bearings



PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	31,75 mm
D - External diameter	73,025 mm
B - Bearing/Inner ring width	27,783 mm
C - Outer ring width	23,02 mm
T - Total width	29,37 mm
d1 - External diameter inner ring	56,5 mm
a - Charge load application point	23,37 mm
Mass	0,622 kg

PRODUCT PERFORMANCE	
C - Dynamic load	80 kN
C0 - Static load	97 kN
Cu - Fatigue limit load	11,8 kN

4T-HM88542/HM88510

Single row tapered roller bearings

PRODUCT PERFORMANCE

A2 - Rating life coefficient	1
e - Coefficient	0.55
Y0 - Static axial load coefficient	0.6
Y2 - Upper axial load coefficient	1.1
N lim - Oil lubrication limit speed	7100 tr/min
N lim - Grease lubrication limit speed	5400 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C

ABUTMENT

da max - Max shoulder diameter IR	42,5 mm
db min - Min IR shoulder diameter	45,5 mm
Da max - Max shoulder diameter OR	59 mm
Db min - Min OR shoulder diameter	70 mm
ra max - Max fillet radius	1,3 mm
r1a - Max fillet radius	3,3 mm

KIT COMPONENT

Cone designation	4T-HM88542
Cup designation	4T-HM88510

ESHOPDONOTDISPLAY

Tracepart	Oui/Yes
Reference	4T-HM88542/HM88510
Image	TRB_1.jpg, TRB_2.jpg, TRB_3.jpg
ULTAGE	Non/No



NTN Europe

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ESHOPDONOTDISPLAY

Rolling element material

Acier de cémentation

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	Y2

Equivalent static radial load

$P_o = X_o.F_r + Y_o.F_a$

X_o	Y_o
0.5	Y0

If $P_o \leq F_r$, then use $P_o = F_r$

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

