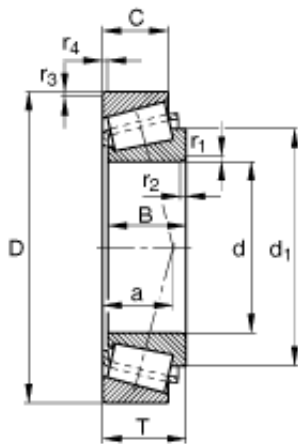




# AMERICAN Timken BEARING MFG.CORP.



## 45 mm x 100 mm x 25 mm FAG 31309-A tapered roller bearings

Bearing No. 31309-A

Size	45x100x27.25 mm
Bore Diameter	45 mm
Outer Diameter	100 mm
Width	27,25 mm
d	45 mm
D	100 mm
T	27,25 mm
a	32 mm
B	25 mm
C	18 mm
$C_{a \text{ min}}$	4 mm
$C_{b \text{ min}}$	9 mm
$D_{a \text{ max}}$	91 mm
$D_{a \text{ min}}$	79 mm
$D_{b \text{ min}}$	95 mm
$d_1$	75,8 mm
$d_{a \text{ max}}$	56 mm
$d_{b \text{ min}}$	54 mm
$r_{1,2 \text{ min}}$	2 mm
$r_{3,4 \text{ min}}$	1,5 mm
$r_{a \text{ max}}$	2 mm
$r_{b \text{ max}}$	1,5 mm
m	0,998 kg / Weight
C	96000 N

31309-A Bearing 2D drawings and 3D CAD models



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r	
$C_{0r}$	108000 N / Static load rating (radial)
e	0,83
Y	0,73
$Y_0$	0,4
$C_{ur}$	12700 N / Fatigue limit load, radial
$n_G$	7100 1/min / Limiting speed
$n_B$	4650 1/min / Reference speed