



# IPTCI Bearing Business LLC

## TYPE TS



## HM259049 Tapered Roller Bearings

Bearing No. HM259049

Series	HM259000
Cone Part Number	HM259049
Design Units	Imperial
Cage Type	Pin-Type
C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions) <sup>1</sup>	656000 lbf
C90(2) - Dynamic Radial Rating (Two-Row, 90 million revolutions) <sup>2</sup>	170000 lbf
d	12.5000 in
B - Cone Width	3.3750 in
R - Cone Backface To Clear Radius <sup>3</sup>	0.14 in
da - Cone Frontface Backing Diameter	13.27 in
db - Cone Backface Backing Diameter	13.43 in
Ab - Cage-Cone Frontface Clearance	0.21 in
Aa - Cage-Cone Backface Clearance	0.19 in
a - Effective Center Location <sup>4</sup>	-0.19 in
C90 - Dynamic Radial Rating (90 million revolutions) <sup>5</sup>	97800 lbf
C1 - Dynamic Radial Rating (1 million revolutions) <sup>6</sup>	377000 lbf
C0 - Static Radial Rating	706000 lbf

HM259049 Bearing 2D drawings and 3D CAD models



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$C_{a90}$ - Dynamic Thrust Rating (90 million revolutions) <sup>7</sup>	56000 lbf
K - Factor <sup>8</sup>	1.74
G1 - Heat Generation Factor (Roller-Raceway)	2944.6
G2 - Heat Generation Factor (Rib-Roller End)	303.9
Cg - Geometry Factor	0.186