



The Timken Company
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Part Number MM308K, Fafnir® Spindle Deep Groove Ball Bearings (9100K, 200K, 300K)

Radial ball bearings consist of an inner and outer ring with a cage containing a complement of precision balls. The standard Conrad-type bearing has a deep-groove construction capable of handling radial and axial loads from either direction in versatile designs that permit relatively high-speed operation.

In addition to standard single-row deep groove bearings, Timken offers special designs, including a maximum capacity series and an extra large (XLS) radial series bearing.

Size range: 3 mm



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Specifications	
Design Units	Metric
Rows per Set	Single
d - Bore	40 mm
Ball Type	STEEL
Cage Type	CR - Phenolic Inner Land Riding Cage
Precision Class	ISO P4S (ABEC 7/9)

Dimensions	

D - Outer Diameter	90 mm 3.5433 in
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Bearing Width	23 mm 0.9055 in
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Basic Load Ratings

Ce - Dynamic Radial Rating (per row)¹	45000 N 10100 lbf
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C0 - Static Radial Rating (per row)	22800 N 5120 lbf
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C1 ISO - Dynamic Radial Rating (per row)	40900 N 9180 lbf
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Factors

Limiting Speed (Grease) (per row)	17100 rpm
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Limiting Speed (Oil)	34200 rpm
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	1.5 mm 0.059 in
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r - Outer Ring "To Clear" Radius³	1.5 mm 0.059 in
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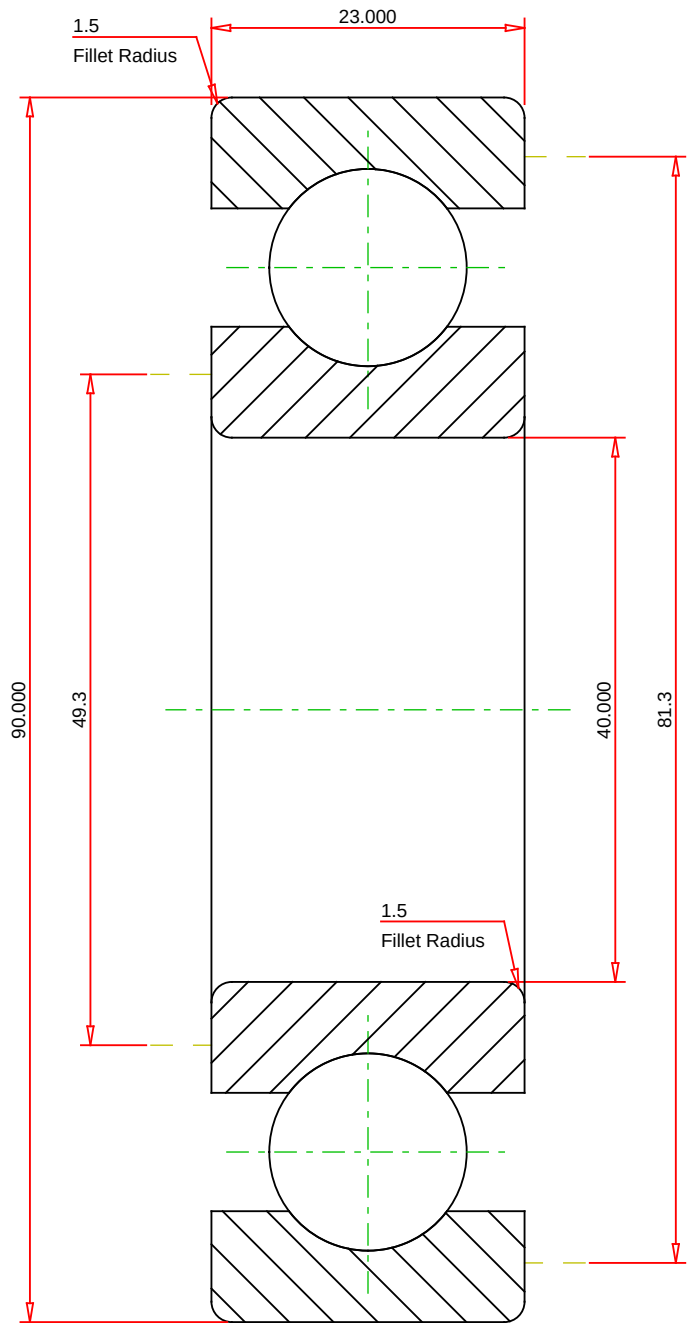
da - Inner Ring Backing Diameter	49.3 mm 1.940 in
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Da - Outer Ring Backing Diameter	81.3 mm 3.200 in
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¹ Based on 10^6 revolutions of calculated fatigue life.

² Maximum housing fillet radius that bearing corners will clear.

³ Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

Number of Balls Per Row Bearing Weight		7 0.594 kg	TIMKEN® THE TIMKEN COMPANY NORTH CANTON, OHIO USA	MM308K Fafnir® Spindle Deep Groove Ball Bearings (9100K, 200K, 300K)		
				Dynamic Radial Rating Static Radial Rating	45000 22800	N N
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