



The Timken Company
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Part Number MM305K, 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	25 mm
Ball Type	STEEL
Cage Type	CR - Phenolic Inner Land Riding Cage
Precision Class	ISO P4S (ABEC 7/9)

Dimensions	

D - Outer Diameter	62 mm 2.4409 in
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Bearing Width	17 mm 0.6693 in
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Basic Load Ratings

Ce - Dynamic Radial Rating (per row)¹	26200 N 5890 lbf
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C0 - Static Radial Rating (per row)	12100 N 2730 lbf
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C1 ISO - Dynamic Radial Rating (per row)	23800 N 5360 lbf
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Factors

Limiting Speed (Grease) (per row)	26500 rpm
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Limiting Speed (Oil)	53000 rpm
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	1 mm 0.039 in
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r - Outer Ring "To Clear" Radius³	1 mm 0.039 in
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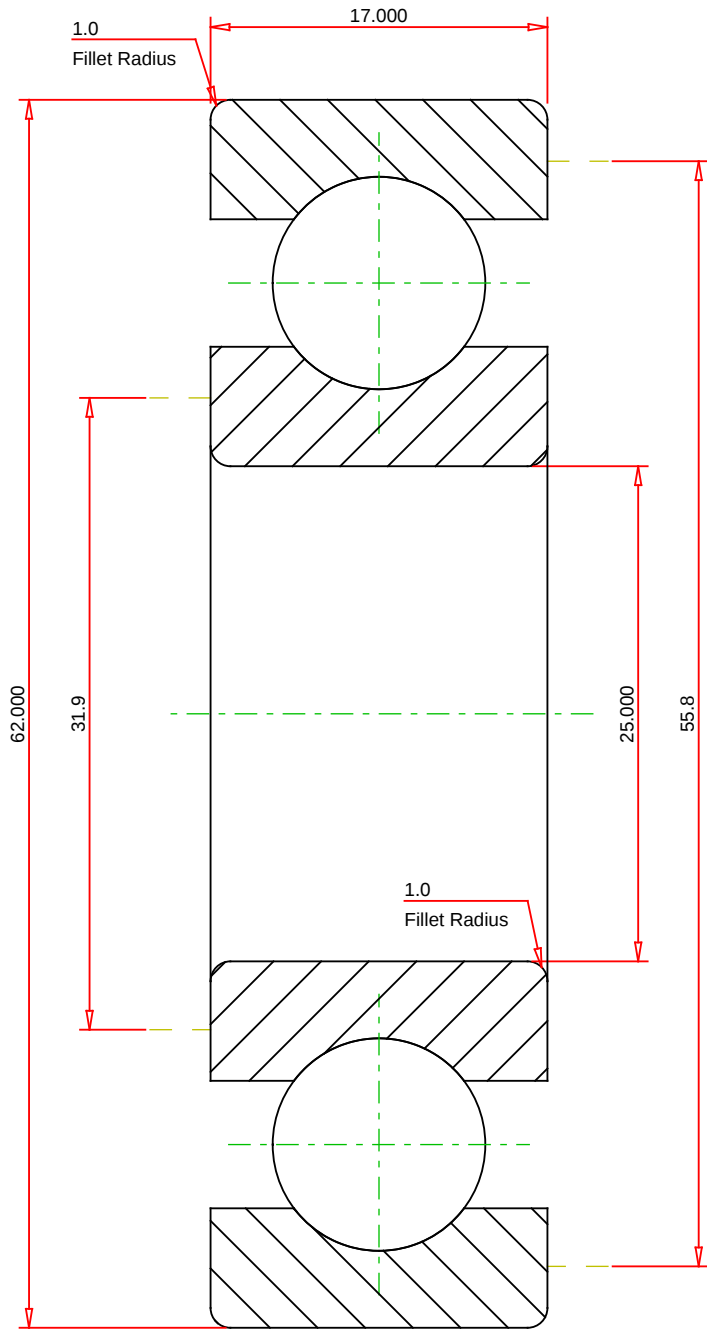
da - Inner Ring Backing Diameter	31.9 mm 1.260 in
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Da - Outer Ring Backing Diameter	55.8 mm 2.200 in
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¹ Based on 10^6 revolutions of calculated fatigue life.

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	7
Bearing Weight	0.222 kg

TIMKEN®

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NORTH CANTON, OHIO USA

MM305K		
Fafnir® Spindle Deep Groove Ball Bearings (9100K, 200K, 300K)		
Dynamic Radial Rating	26200	N
Static Radial Rating	12100	N

Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason.

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