



The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 215K, Fafnir® 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



[more](#)

[Specifications](#) | [Dimensions](#) | [Basic Load Ratings](#) | [Factors](#) | [Abutment and Fillet Dimensions](#)

Specifications	
Design Units	Metric
d - Bore	75 mm
Ball Type	STEEL
Manufacturing Part Number	215KFS50000

Dimensions	



D - Outer Diameter	130 mm 5.118 in
Bearing Width	25 mm 0.9843 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	68900 N 15500 lbf
C0 - Static Radial Rating	44800 N 10100 lbf

Factors

Limiting Speed (Grease)	2927 rpm
Limiting Speed (Oil)	3415 rpm

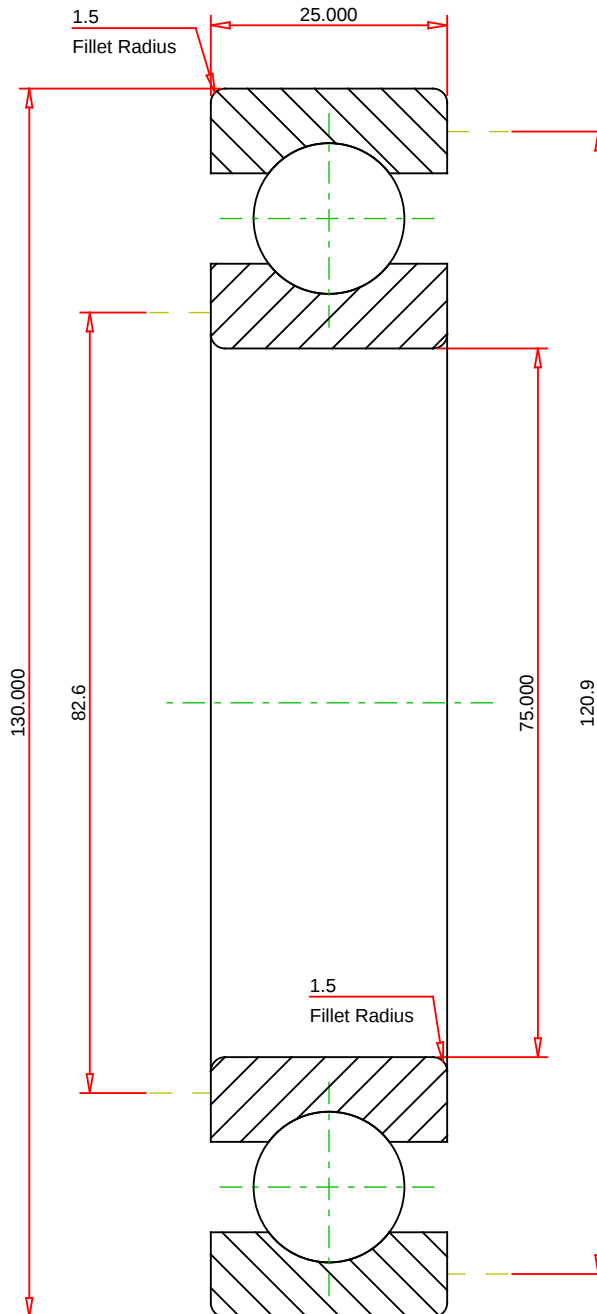
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	1.5 mm 0.059 in
r - Outer Ring "To Clear" Radius³	1.5 mm 0.059 in
da - Inner Ring Backing Diameter	82.60 mm 3.2520 in
Da - Outer Ring Backing Diameter	120.90 mm 4.760 in

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	10 1.197 kg	TIMKEN®		215K Fafnir® Deep Groove Ball Bearings (9100K, 200K, 300K)	
		THE TIMKEN COMPANY NORTH CANTON, OHIO USA		Dynamic Radial Rating	68900 N
				Static Radial Rating	44800 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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