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

Timken Part Number MM307K, Fafnir® Spindle Deep Grove 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
Ball Type	Steel
Cage Type	CR - Phenolic Inner Land Riding Cage
Bearing Weight	0.431 Kg 0.95 lb
Precision Class	ISO P4S (ABEC 7/9)

Dimensions

d - Bore	35.000 mm 1.3780 in
D - Outer Diameter	80.000 mm 3.1496 in
Bearing Width	21.000 mm 0.8268 in
do - Ball Diameter	14.287500 mm 0.562500 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	37100 N 8340 lbf
C0 - Static Radial Rating	18300 N 4120 lbf

Factors

Limiting Speed (Grease)	19400 rpm
Limiting Speed (Oil)	38800 rpm

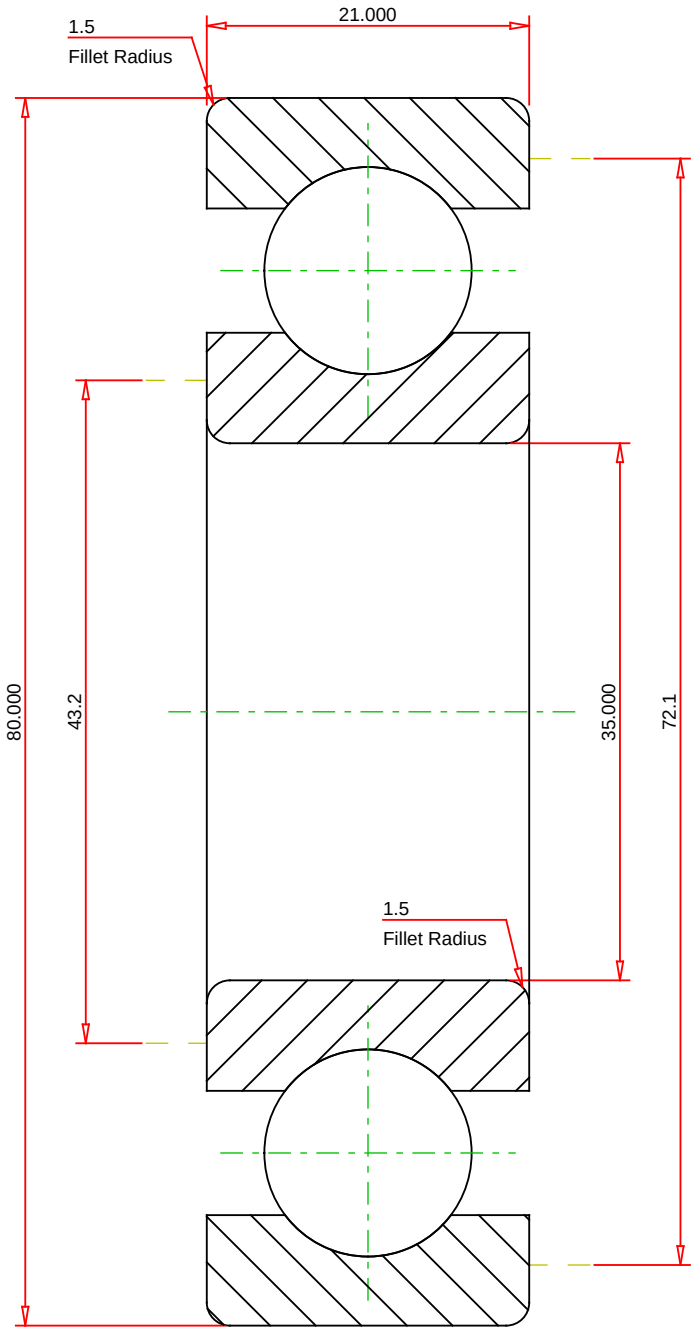
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	1.500 mm 0.059 in
r - Outer Ring "To Clear" Radius[3]	1.500 mm 0.059 in
da - Inner Ring Backing Diameter	43.200 mm 1.700 in
Da - Outer Ring Backing Diameter	72.100 mm 2.840 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	7	
Bearing Weight	0.431	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM307K

Fafnir® Spindle Deep Grove Ball Bearings (9100K, 200K, 300K)

Dynamic Radial Rating	37100	N
		N
Static Radial Rating	18300	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.

FOR DISCUSSION ONLY