


The Timken Company

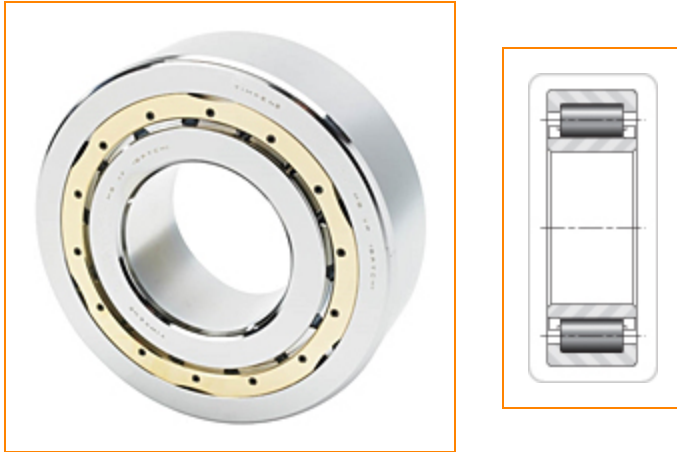
4500 Mt Pleasant St. NW

N. Canton, OH 44720

Phone: (234) 262-3000

E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 170RU91 R3, Cylindrical Roller Radial Bearings - Single Row Standard


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

Design Units	Metric
d - Bore	170 mm
Type	NU

Dimensions

D - Outer Diameter	265 mm 10.4331 in
C - Inner Ring Width	76.2 mm 3 in
B - Outer Ring Width	76.2 mm 3.0000 in


Basic Load Ratings

C0 - Static Radial Rating	1180000 N 265000 lbf
----------------------------------	-------------------------

C - Dynamic Radial Rating¹	739000 N 166000 lbf
--	------------------------

Factors

Reference Thermal Speed Rating (Grease)	1400 rpm
--	----------

Reference Thermal Speed Rating (Oil)²	1500 rpm
---	----------

Cg - Geometry Factor³	0.1296
---	--------

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁴	2.5 mm 0.100 in
---	--------------------

r - Outer Ring "To Clear" Radius⁵	2.5 mm 0.1 in
---	------------------

da - Inner Ring Backing Diameter	187 mm 7.400 in
---	--------------------

Da - Outer Ring Backing Diameter	248 mm 9.800 in
---	--------------------

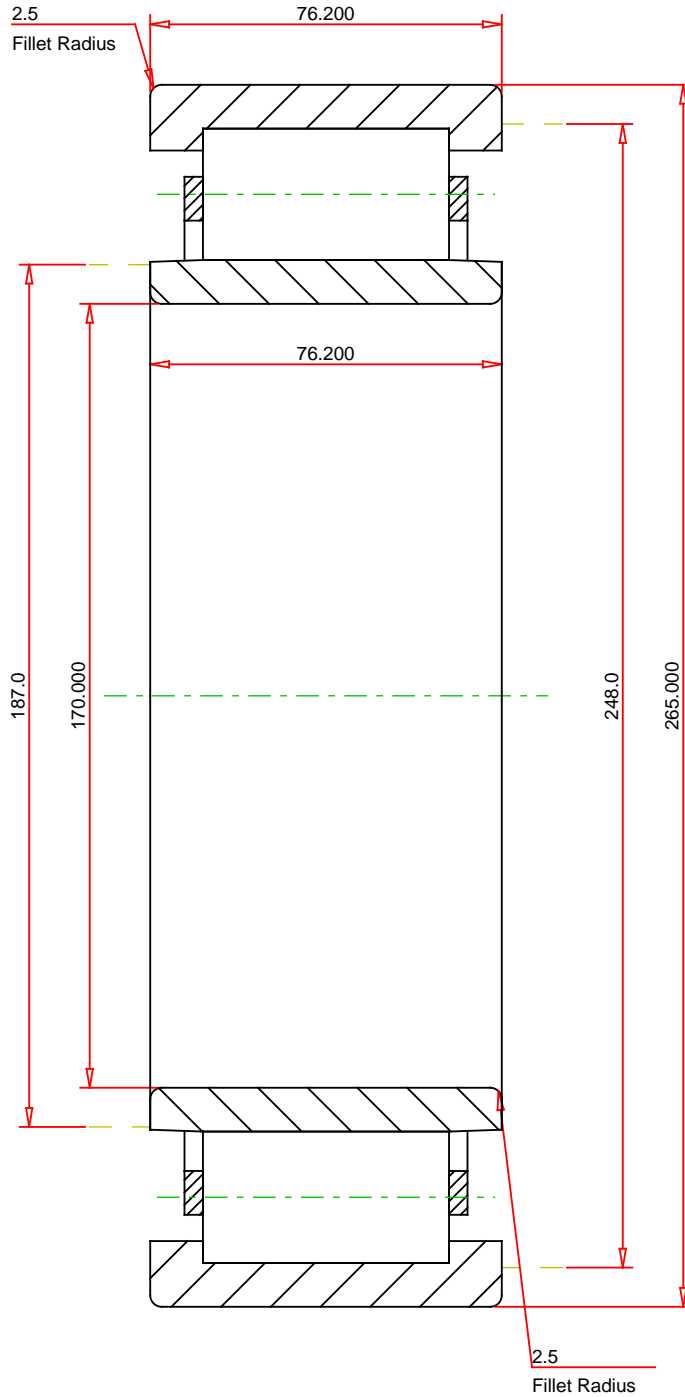
¹ Based on 1×10^6 L₁₀ life for the ISO life calculation method.

² See thermal speed ratings in the engineering section.

³ Geometry constant for Lubrication Life Adjustment Factor a_{3l}.

⁴ Maximum housing fillet radius that bearing corners will clear.

⁵ Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

Number of Rollers Per Row 18
 Bearing Weight 16.1 kg



170RU91 R3
 CYLINDRICAL ROLLER BEARING

THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

Dynamic Radial Rating 739000 N
 Static Radial Rating 1180000 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