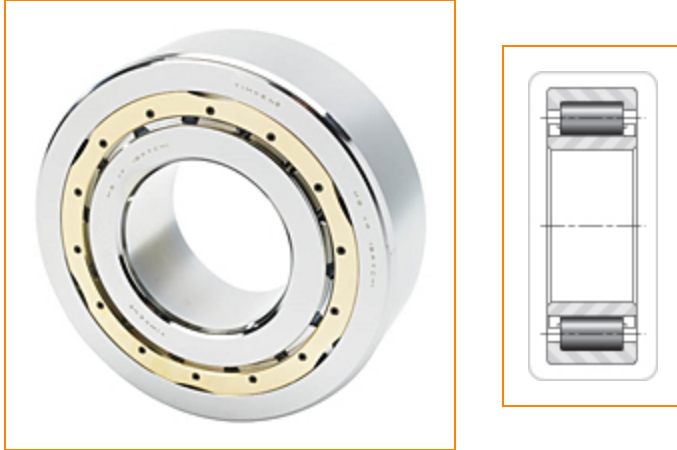



The Timken Company

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Part Number 170RU51 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	42 mm 1.6535 in
B - Outer Ring Width	42 mm 1.6535 in


Basic Load Ratings

C0 - Static Radial Rating	521000 N 117000 lbf
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C - Dynamic Radial Rating¹	438000 N 98500 lbf
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Factors

Reference Thermal Speed Rating (Grease)	1300 rpm
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Reference Thermal Speed Rating (Oil)²	1600 rpm
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Cg - Geometry Factor³	0.1057
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Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁴	2.5 mm 0.100 in
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r - Outer Ring "To Clear" Radius⁵	2.5 mm 0.1 in
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da - Inner Ring Backing Diameter	184 mm 7.3000 in
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Da - Outer Ring Backing Diameter	0 mm 0.0000 in
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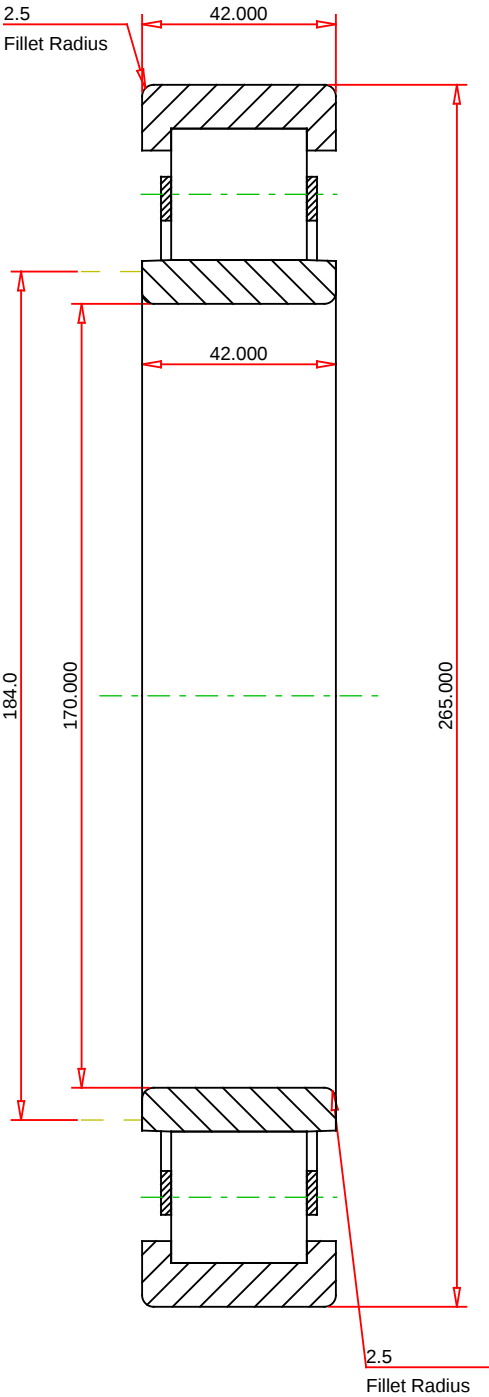
¹ Based on 1×10^6 L₁₀ life for the ISO life calculation method.

² See thermal speed ratings in the engineering section.

³ Geometry constant for Lubrication Life Adjustment Factor a₃l.

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 8.7 kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

170RU51 R3
CYLINDRICAL ROLLER BEARING

Dynamic Radial Rating 438000 N
Static Radial Rating 521000 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