


The Timken Company

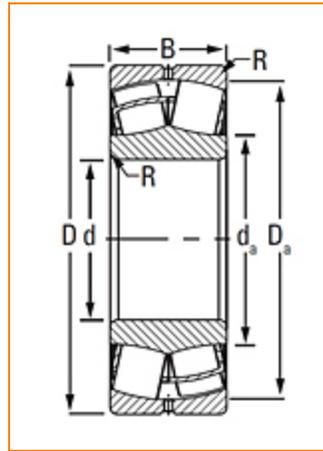
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Part Number 24130EJW33, Spherical Roller Bearings - Steel Cage

- Longer bearing life achieved from higher capacity (vs. competitors)
- Longer lubrication life achieved from lower operating temperatures due to reduced internal friction and running torque from cage guided rollers
- Better contaminant purging from slots on cage face helps extend bearing life
- Greater fatigue strength and increased wear resistance provide tougher protection against shock and acceleration loading from a hardened steel cage


[Key Dimensions](#) | [Factors](#) | [Dimensions](#) | [Basic Load Ratings](#)
Key Dimensions

UPC Code	087796225206
Design Unit	Metric
Bore (d)	150 mm
O.D. (D)	250 mm 9.8425 in
B' - Inner Ring Width	100 mm 3.937 in
B - Outer Ring Width	100 mm 3.937 in



Dynamic Radial Load Rating - 1M	1680000 N
Revs (C1)	378000 lbf

e Factor¹	0.36
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Factors

Y0 Factor²	1.82
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Y1 Factor³	1.86
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Y2 Factor⁴	2.77
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Geometry Factor (Cg)⁵	0.0869
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Dimensions

R - Inner Ring "To Clear" Radius⁶	2.0 mm 0.080 in
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r - Outer Ring "To Clear" Radius⁷	2 mm 0.08 in
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Shaft Backing Shoulder Diameter	169.000 mm 6.7000 in
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Housing Backing Shoulder Diameter	227.000 mm 8.9000 in
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Basic Load Ratings

Static Radial Load Rating (C0)	1180000 N 264000 lbf
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Thermal Reference Speed - Grease	1200 rpm
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Thermal Reference Speed - Oil⁸	1300 rpm
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¹ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

² These factors apply for both inch and metric calculations. See engineering

³ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

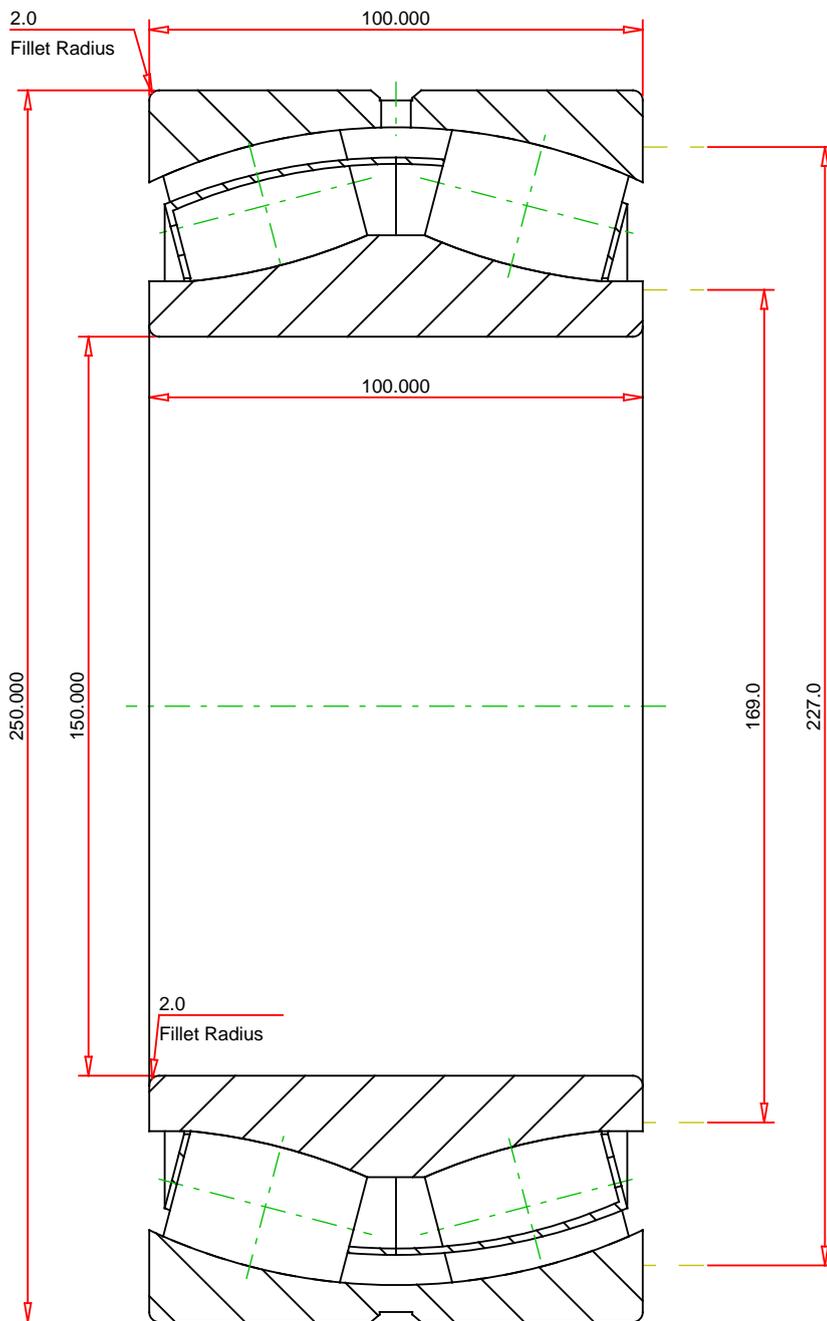
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁵ Geometry constant for Lubrication Life Adjustment Factor a_3 .

⁶ Maximum housing fillet radius that bearing corners will clear.

⁷ These maximum fillet radii will be cleared by the bearing corners.

⁸ See thermal speed ratings in the engineering section.



METRIC UNITS

Number of Rollers Per Row	21
ISO Factor e	0.36
ISO Factor Y0	1.82
ISO Factor Y1	1.86
ISO Factor Y2	2.77
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

24130EJW33 SRB ASSEMBLY	
Dynamic Radial Rating (Two Rows)	1180000 N
Static Radial Rating	1680000 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