

#### The Timken Company

4500 Mt Pleasant St. NW N. Canton, OH 44720

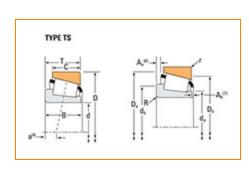
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# Part Number Y32311, Tapered Roller Bearings - Single Cups - Metric

This is the most basic and most widely used type of tapered roller bearing. It consists of two main separable parts: the cone (inner ring) assembly and the cup (outer ring). It is typically mounted in opposing pairs on a shaft.





## Specifications | Dimensions | Abutment and Fillet Dimensions | Factors

Specifications -			
	Series	32311	
	Cup Part Number	Y32311	
	Design Units	METRIC	
	Full Timken Part Number	32311	

Dimensions				
	D - Cup Outer Diameter	120 mm 4.7244 in		
	C - Cup Width	35 mm 1.378 in		

Abutment and Fillet Dimensions –				
r - Cup Backface "To Clear" Radius <sup>1</sup>	2.03 mm 0.08 in			
Da - Cup Frontface Backing Diameter	113.00 mm 4.45 in			
Db - Cup Backface Backing Diameter	104.90 mm 4.13 in			

Factors -				
	K - Factor <sup>2</sup>	1.69		
	e - ISO Factor <sup>3</sup>	0.35		
	Y - ISO Factor <sup>4</sup>	1.74		
	G1 - Heat Generation Factor (Roller-Raceway)	77.5		
	G2 - Heat Generation Factor (Rib-Roller End)	18.5		
	Cg - Geometry Factor <sup>5</sup>	0.072		

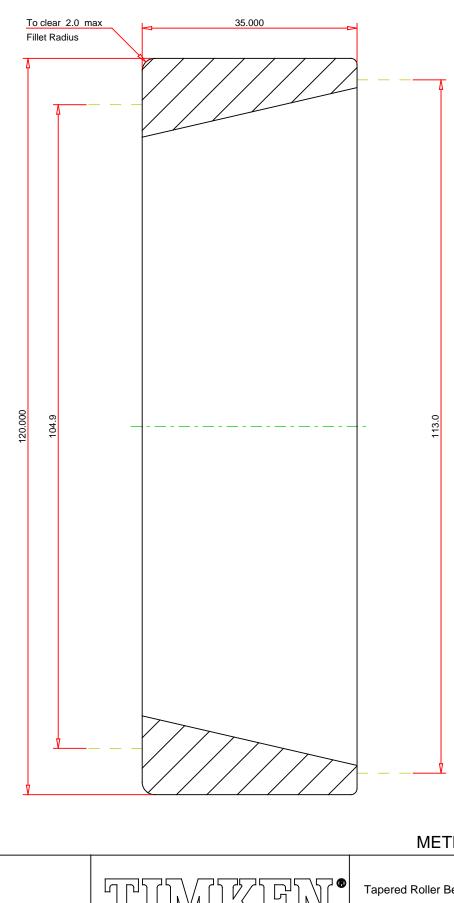
<sup>&</sup>lt;sup>1</sup> These maximum fillet radii will be cleared by the bearing corners.

 $<sup>^2</sup>$  These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>&</sup>lt;sup>3</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction

<sup>&</sup>lt;sup>4</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>&</sup>lt;sup>5</sup> Geometry constant for Lubrication Life Adjustment Factor a3l.



### METRIC UNITS

THE TIMKEN COMPANY NORTH CANTON, OHIO USA

#### Y32311

Tapered Roller Bearings - Single Cups - Metric

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