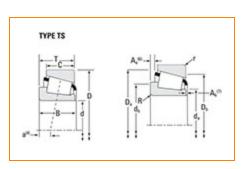


Part Number 32026X, Tapered Roller Bearings - TS (Tapered Single) Metric

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 | Basic Load Ratings | Factors

Specifications –			
	Series	32026X	
	Cone Part Number	X32026XM	
	Cup Part Number	Y32026XM	
	Design Units	METRIC	
	Bearing Weight	0.000 Kg 0.00 lb	
	Cage Type	Stamped Steel	

Dimensions

d - Bore	130 mm
u-bore	5.1181 in

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D - Cup Outer Diameter	200 mm 7.874 in
B - Cone Width	45 mm 1.7717 in
C - Cup Width	34 mm 1.3386 in
T - Bearing Width	45 mm 1.7717 in

Abutment and Fillet Dimensions

R - Cone Backface "To Clear"	2.540 mm
Radius ¹	0.1 in
r - Cup Backface "To Clear"	2.03 mm
Radius ²	0.08 in
da - Cone Frontface Backing	141.99 mm
Diameter	5.59 in
db - Cone Backface Backing	148.08 mm
Diameter	5.83 in
Da - Cup Frontface Backing	193.29 mm
Diameter	7.61 in
Db - Cup Backface Backing	183.9 mm
Diameter	7.24 in
Ab - Cage-Cone Frontface	2.8 mm
Clearance	0.11 in
Aa - Cage-Cone Backface	3.3 mm
Clearance	0.13 in
a - Effective Center Location ³	-1 mm -0.04 in

Basic Load Ratings

C90 - Dynamic Radial Rating (90 million revolutions) ⁴	100000 N 22500 lbf
C1 - Dynamic Radial Rating (1	386000 N
million revolutions) ⁵	86900 lbf
C0 - Static Radial Rating	617000 N 139000 lbf
C _{a90} - Dynamic Thrust Rating	74600 N
(90 million revolutions) ⁶	16800 lbf

Factors

K - Factor ⁷	1.34
e - ISO Factor ⁸	0.43
Y - ISO Factor ⁹	1.38
G1 - Heat Generation Factor (Roller-Raceway)	338.4
G2 - Heat Generation Factor (Rib-Roller End)	97.3
Cg - Geometry Factor ¹⁰	0.119

¹ These maximum fillet radii will be cleared by the bearing corners.

² These maximum fillet radii will be cleared by the bearing corners.

³Negative value indicates effective center inside cone backface.

⁴ Based on 90 x 10⁶ revolutions L_{10} life, for The Timken Company life calculation method. C_{90} and C_{a90} are radial and thrust values.

 5 Based on 1 x 10⁶ revolutions L_{10} life, for the ISO life calculation method.

⁶ Based on 90 x 10⁶ revolutions L₁₀ life, for The Timken Company life calculation method. C₉₀ and C_{a90} are radial and thrust values for a single-row, C₉₀₍₂₎ is the two-row radial value.

⁷ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

 $^{\rm 8}$ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁹ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

 $^{10}\,\mathrm{Geometry}$ constant for Lubrication Life Adjustment Factor a3I.

