

MERITOR® 14X™ TANDEM DRIVE AXLE



MERITOR®

 **IDEAS DRIVING RESULTS**
TECHNOLOGY DRIVING SAFETY,
EFFICIENCY AND PERFORMANCE



RAISE YOUR XPECTATIONS

Promising operating efficiency, reduced maintenance and premium performance, the Meritor 14X Tandem Drive Axle is the latest result of the evolution in advanced axle innovation and technology now available from Meritor.



The Meritor 14X Tandem Drive Axle delivers a more robust, 20% larger Inter-Axle Differential (IAD) to handle today's higher-torque engines. It features as standard equipment the smooth, efficient performance of our premium Meritor Amboid™ design. It also provides the industry's fastest and most complete range of axle ratios—from 2.47 to 7.17. And it is the lightest-weight axle in its class. Plus, the DualTrac™ housing option addresses wheel bearing overload associated with the use of single wide-based tires. Which all adds up to unprecedented axle performance.

14X AXLE SPECIFICATIONS

| RATINGS pounds (kg) | AXLE MODEL | GCW HIGHWAY pounds (kg) | | STANDARD RATIOS* | RING GEAR SIZE (PITCH DIAMETER) inches (mm) | AXLE SHAFT SPLINE SIZE inches (mm) | BODY DIAMETER inches (mm) | HOUSING BOX SIZE inches (mm) | WALL THICKNESS AT SPRING SEAT inches (mm) | WHEEL- END SERIES |
|---------------------------|---------------|--------------------------------|---------------------------------|---|--|---|------------------------------------|---------------------------------------|---|-------------------------|
| | | MAX. 3% GRADE (Turnpike) | MAX. 8% GRADE (Paved) | | | | | | | |
| 34,000 (15,436) | MT-34-14X | 80,000 (36,320) | 80,000 (36,320) | 2.47, 2.64, 3.08, 3.25, 3.36, 3.42, 3.55, 3.70, 3.90, 4.11 Optional Ratios Available | | | | | 0.37 (9.5) Std/DualTrac™ 0.43 (11.0) Std/DualTrac 0.56 (14.3) Wide Track | |
| 40,000 (18,160) | MT-40-14X | 145,000 (65,830) | 125,000 (56,750) | 2.47, 2.64, 3.08, 3.25, 3.36, 3.42, 3.55, 3.70, 3.90, 4.11, 4.33, 4.63, 4.88, 5.29, 5.86, 6.14, 6.43, 6.83, 7.17 | 15.31 (388.91) | 2.10 (53.3) 41 Teeth | 1.88 / 2.00 (47.8 / 50.8) | 5.25 x 4.62 (1.34 x 1.17) | 0.37 (9.5) Std/DualTrac 0.43 (11.0) Std/DualTrac 0.50 (12.7) Standard Track 0.56 (14.3) Wide Track | R |
| 44,000 (19,976) | MT-44-14X | Not Rated | 68,000 (30,872) GVWR Only | 3.70, 3.90, 4.11, 4.33, 4.63, 4.88, 5.29, 5.86 Available in Hypoid Ratios Only | | | 2.00 (50.8) | | 0.50 (12.7) Standard Track 0.56 (14.3) Wide Track | |

FEATURES AND BENEFITS

DESIGN FEATURES FOR INCREASED PERFORMANCE DEMANDS.

- Larger main differential bearings for up to 30% more capacity
- Smooth internal surfaces of the carrier castings and elimination of main differential case ribs minimize lubricant churning loss
- Low spiral-angle-design gearing helps ensure increased efficiency and improved bearing life
- Multiple internal magnets for increased debris collection and smooth running

PREMIUM AMBOID™ DESIGN STANDARD.

- Above centerline (Amboid) rear carrier reduces universal joint operating angles for increased drivetrain life
- Improved driveline angles reduce vibration while increasing ride quality and overall component life
- Amboid gearing on the rear drive axle allows parallel positioning between forward and rear drive axles
- Premium design offered at no additional charge for reduced lifecycle cost

COMPLETE RATIO RANGE.

- New 2.47 ratio is the fastest axle ratio in the industry and the most efficient solution for vehicles with direct drive transmissions
- 2.47 - 7.17 is the widest range to match your application and specific engine manufacturer's recommendations
- 2.47 - 4.11 Amboid pinion position
- 2.64 - 7.17 Hypoid pinion position

IMPROVED OVERALL RELIABILITY BY DESIGN.

- Proven ring and pinion gear technology design
- Forward/rear pinions utilize overhung design for improved capability for retardation loads
- One-piece forward and rear carrier castings reduce the number of joints and potential leak paths
- Rear-unit input seal – fully unitized one-piece design
- Forward-unit input/output seals – efficient sleeve design

MORE ROBUST INTER-AXLE DIFFERENTIAL (IAD).

- 20% larger Inter-Axle Differential (IAD) for increased capacity, with fewer parts
- Ability to handle up to 2050 lb. ft. of torque in certain applications
- Lubrication reservoir keeps lubricant in the input shaft bearing at all times for increased lubrication flow, which reduces wear and yields greater reliability; no need to wait for splash to deliver lubricant
- New needle bearings system in the Inter-Axle Differential helical gear reduces heat and wear and provides increased reliability



INDUSTRY-LEADING AXLE BREATHER.

- Designed for today's extended-drain synthetic lubes
- Helps prevent water and other contaminants from entering the axle while keeping lube in place





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