The Meritor® 14X™ Tandem Drive axle is the next evolution of the successful Meritor RT-40-145, delivering every benefit of its successor – and more. The new 14X includes a more robust, 20% larger, Inter-Axle Differential (IAD) to handle today's higher torque engines. The D Series (-14X3D) axle features a Hypoid design carrier for vocational applications and/or highway applications which require a full locking differential. The 14X Hypoid offers the most complete range of axle ratios – from 2.64 to 7.17 – and is also the lightest-weight axle in its class.

### Features & Benefits

**More Robust Inter-Axle Differential (IAD)**
- 20% larger than the competition with fewer parts
- Ability to handle up to 2050 lb-ft of torque in certain applications
- New IAD needle bearings for reduced heat and wear, which delivers increased reliability

**Most Complete Range of Ratios in the Industry**
- 2.47 - 4.11 (Amboid) and 2.64 - 7.17 (Hypoid) are the widest ranges to match application and specific engine manufacturer's recommendations

**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

### Specifications

<table>
<thead>
<tr>
<th>Model *</th>
<th>MT-40-14X3D</th>
<th>MT-40-14X4D</th>
</tr>
</thead>
<tbody>
<tr>
<td>GAWR - lbs. (kg)</td>
<td>40,000 (18,160)</td>
<td>40,000 (18,160)</td>
</tr>
<tr>
<td>GCW - lbs. (kg) - Max 3% Grade (Turnpike)¹</td>
<td>145,000 (65,830)</td>
<td>145,000 (65,830)</td>
</tr>
<tr>
<td>GCW - lbs. (kg) - Max 8% Grade (Paved)¹</td>
<td>125,000 (56,750)</td>
<td>125,000 (56,750)</td>
</tr>
<tr>
<td>Available Ratios (Hypoid)</td>
<td>2.64, 2.79, 2.85, 3.08, 3.25, 3.36, 3.55, 3.70, 3.90, 4.11, 4.33, 4.63, 4.88, 5.29, 5.57, 5.86, 6.14, 6.43, 6.83, 7.17</td>
<td>2.64, 2.79, 2.85, 3.08, 3.25, 3.36, 3.55, 3.70, 3.90, 4.11, 4.33, 4.63, 4.88, 5.29, 5.57, 5.86, 6.14, 6.43, 6.83, 7.17</td>
</tr>
<tr>
<td>Ring Gear Size - in. (mm)</td>
<td>15.31 (388.9)</td>
<td>15.31 (388.9)</td>
</tr>
<tr>
<td>Axle Shaft Spline Size - in. (mm)</td>
<td>2.10 (53.3) – 41 Teeth</td>
<td>2.10 (53.3) – 41 Teeth</td>
</tr>
<tr>
<td>Body Diameter - in. (mm)</td>
<td>2.00 (50.8)</td>
<td>2.00 (50.8)</td>
</tr>
<tr>
<td>Housing Box Size - in. (mm)</td>
<td>5.25 x 4.62 (134 x 117)</td>
<td>5.25 x 4.62 (134 x 117)</td>
</tr>
<tr>
<td>Wall Thickness at Spring Seat - in. (mm)</td>
<td>0.37 (9.5)</td>
<td>0.43 (11.0)</td>
</tr>
</tbody>
</table>

* Axle model designations will vary according to options

¹The permitted use of axles, brakes and other components, including the capacity ratings shown, vary with application and service.

### Additional Information
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

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

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
Moving you forward. 
Behind you all the way.

Our representatives have the experience, the expertise and the global support network needed to provide you with unsurpassed assistance when specifying your drive axle system.

With unmatched consultation and follow-through, we can provide you with the guidance needed to optimize your spec.

Every Meritor 14X axle receives unsurpassed global service and support, with distribution centers strategically located to reduce downtime and provide timely and complete aftermarket support.

If your fleet is looking for optimized performance and value, with significantly lower life cycle costs, the Meritor 14X is the axle you need to spec.

For more information, talk to your local dealer or visit meritor.com today.