Meritor® On-Highway Axles


For on-highway operations like truckload, less-than-truckload, distribution and leasing, you need components that can take whatever the road dishes out. Mile after mile, year in and year out.

As the world’s largest independent manufacturer of commercial truck axles for a broad range of vehicle applications, Meritor axles deliver the performance, reliability and efficiency that today’s fleets and end users demand. Plus reduced maintenance and operating costs.

A Proud Century Of Axle Heritage.

ArvinMeritor’s “100-Year Heritage of Forward Thinking” has produced unsurpassed leadership in the design, engineering and manufacturing of axles for the global transportation industry.

Today we are recognized as the global axle leader across all markets from light to heavy to severe duty. We offer the broadest range of axles that provide our customers with proven axle technology innovations.

Axle Technology Heritage.

Our longevity is based on a rich heritage of product performance, customer service and engineering expertise in axle and gearing technology. Nobody does it better.

We’ve mastered the combination of leading-edge engineering, advanced gear-cutting, component durability and lightweight materials to support virtually every on-highway application.
Axle Manufacturing Processes
And Global Locations.

Our engineering capabilities and manufacturing facilities reach from Asia and the Pacific Rim to Australia to Europe to North America and South America. We are proud of our proven success in global platform design. Our manufacturing capabilities are supported by six Global Engineering Centers of Excellence, with an electronically linked infrastructure for knowledge sharing and process collaboration.

Our Axle And Braking System Families Are World Leaders.

ArvinMeritor is recognized throughout the industry for being a world leader in both the axle and braking system categories. Our company has provided many game-changing axle and braking technology innovations, and we continue to lead the way in product performance, customer service and engineering expertise.

Everything You Need To Stay Ahead.

Our full line of front, tandem and single rear on-highway axles features forward-thinking innovations designed to give you a true competitive edge. And all are backed by industry-leading service and support and comprehensive warranty coverage. No other axle supplier delivers such a complete solution to keep your operation moving forward.

All The Details You Need.

Following are complete specifications and benefits for all of our front, single rear and tandem on-highway axle models.
Meritor® Front Non-Drive Steer Axles.

Proven Meritor axle leadership has resulted in a broad range of front non-drive steer axles that combine unsurpassed steering control, durability and low maintenance. Everything you need to keep your business moving in the right direction.

### Meritor Front Non-Drive Steer Axles

<table>
<thead>
<tr>
<th>Features/Options</th>
<th>Performance Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offers up to a 55-degree turn-angle capability</td>
<td>Unsurpassed maneuverability and vehicle stability</td>
</tr>
<tr>
<td>Unique Easy Steer™ bushing technology</td>
<td>Reduces steering effort and increases axle life</td>
</tr>
<tr>
<td>Combination of Meritor Easy Steer king pin bushings, computer-designed and optimized I-beam construction and stiff axle assembly</td>
<td>Delivers tight, 50-degree turning radius, superior vehicle control and longer tire life</td>
</tr>
<tr>
<td>Special low-friction bushings, double draw keys and integral thrust bearing and seal designs</td>
<td>Combine durability, low maintenance and ease of service</td>
</tr>
<tr>
<td>Wide range of lightweight, full-strength steer axle assemblies for a variety of wheel base lengths, front axle tracks and turn angles</td>
<td>Allows customization for specific applications and superior OEM packaging flexibility</td>
</tr>
<tr>
<td>Optional unitized hub with preassembled hub, bearings and seals</td>
<td>Maximizes assembly efficiency for vehicle OEMs</td>
</tr>
<tr>
<td>Meritor double drop axles feature a large-diameter, heat-treated king pin</td>
<td>Delivers greater durability and longer life</td>
</tr>
</tbody>
</table>
# Meritor® Front Non-Drive Steer Axles

## Front Non-Drive Steer Axle Specifications

<table>
<thead>
<tr>
<th>Ratings Pounds (kg)</th>
<th>Axle Model</th>
<th>Axle Beam Drop Inches (mm)</th>
<th>(KPI) King Pin Intersection Inches (mm)</th>
<th>Wheel-End Series</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000 (4,540)</td>
<td>FD-961</td>
<td>3.50 (88.9)</td>
<td>69 (1,752.6)</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>FD-965</td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>MFS-10-143A-N</td>
<td>3.74 (95.0)</td>
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<td>MFS-10-144A-N</td>
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<td>12,000 (5,448)</td>
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<td></td>
<td>MFS-12-144A-N</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>FF-941</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>FF-943</td>
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<td></td>
<td>FF-961</td>
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<tr>
<td>13,200 (5,993)</td>
<td>FF-967</td>
<td></td>
<td>69 (1,752.6)</td>
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<tr>
<td></td>
<td>FF-942</td>
<td>3.50 (88.9)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FF-944</td>
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<td></td>
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<td></td>
<td>MFS-13-143A-N</td>
<td>3.74 (95.0)</td>
<td>71.5 (1,816.1)</td>
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<td></td>
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<tr>
<td></td>
<td>MFS-13-144A-N</td>
<td>5.00 (127.0)</td>
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</tr>
<tr>
<td>14,600 (6,622)</td>
<td>FG-941</td>
<td>3.50 (88.9)</td>
<td>69 (1,752.6)</td>
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<tr>
<td></td>
<td>FG-943</td>
<td>5.00 (127.0)</td>
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</tbody>
</table>

### Applications Key

- **GS** – General Service
- **HS** – Heavy Service
- **LH** – Linehaul
- **RS** – Restricted Service

See Applications section for specific vehicle references. Refer to publication TP7824 for complete axle specification details.
Meritor® Single Rear Axles.

At ArvinMeritor, we’re dedicated to rear axle solutions that enhance mobility to give our customers the leading edge. Our single rear axles deliver a unique combination of precision engineering, component durability and lightweight options to meet the demands of diverse customer applications.

### Meritor Single Rear Axles

#### Features/Options

| Proven, robust designs combined with high-strength engineered materials | Provide superior performance and proven durability across many different applications |
| Matched gearing and axle shaft design | Delivers cost-effective, dependable operation |
| Precision-forged differential gears | Provide maximum strength and shock resistance |
| Wide range of axle configurations and various housing bowl positions | Allows customization to applications and superior OEM packaging flexibility |
| Widest range of gear ratios available | Enables users to choose axles suited to their needs for fuel economy, greater torque or maximum traction |
| High-quality, versatile components | Ensure quiet operation and ease of serviceability |
| Rigid differential cases | Support precise gear alignment and durability |
| Hypoid-Generoid™ gearing options | Provide long life and increased durability |
| Lightweight aluminum carrier casting options | Deliver additional payload capacity and fuel economy |
| Optional Driver-Controlled Differential Lock (DCDL) | Provides maximum traction and spinout protection under slippery conditions |
**Hypoid Single-Reduction Axle Specifications**

<table>
<thead>
<tr>
<th>Ratings Pounds (kg)</th>
<th>Axle Model</th>
<th>GCW Highway Pounds (kg)</th>
<th>Max. 3% Grade (Turnpike)</th>
<th>Max. 8% Grade (Paved)</th>
<th>Standard Ratios (High/Low Range)</th>
<th>Ring Gear Size (Pitch Diameter) Inches</th>
<th>Axle Shaft Spline Size Inches (mm)</th>
<th>Body Diameter Inches (mm)</th>
<th>Housing Box Size Inches (mm)</th>
<th>Wall Thickness at Spring Seat Inches (mm)</th>
<th>Wheel-End Series</th>
<th>Applications</th>
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<tbody>
<tr>
<td>21,000 (9,534)</td>
<td>MS-21-144MA-N</td>
<td>80,000 (27,240)</td>
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<td>15.31 (388.9)</td>
<td>2.10 (53.3)</td>
<td>1.88 (47.8)</td>
<td>0.43 (11.0)</td>
<td>GS, HS, LH</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RS-21-145</td>
<td></td>
<td>2.64, 2.79, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.90, 4.11, 4.33, 4.63, 4.88, 5.13, 5.29, 5.57, 5.86, 6.14, 6.43, 6.83, 7.17</td>
<td>2.64, 2.79, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.90, 4.11, 4.33, 4.63, 4.88, 5.13, 5.29, 5.57, 5.86, 6.14, 6.43, 6.83, 7.17</td>
<td>2.10 (53.3)</td>
<td>1.88 (47.8)</td>
<td>0.43 (11.0)</td>
<td>GS, HS, LH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RS-21-145A</td>
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<td>3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.13, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17</td>
<td>18.00 (457.2)</td>
<td>2.35 (59.7)</td>
<td>2.25 (57.2)</td>
<td>5.25 x 4.62 (134 x 117)</td>
<td>GS, HS, LH</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>23,000 (10,433)</td>
<td>RS-21-160</td>
<td>127,000 (57,658)</td>
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<td>2.64, 2.79, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.13, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17</td>
<td>18.00 (457.2)</td>
<td>2.35 (59.7)</td>
<td>2.25 (57.2)</td>
<td>5.25 x 4.62 (134 x 117)</td>
<td>GS, HS, LH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RS-23-160</td>
<td>100,000 (45,400)</td>
<td>3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.13, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17</td>
<td>3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.13, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17</td>
<td>5.25 x 4.62 (134 x 117)</td>
<td>2.25 (57.2)</td>
<td>0.43 (11.0)</td>
<td>0.63 (16.0)</td>
<td>0.43 (11.0)</td>
<td>0.63 (16.0)</td>
<td>GS, HS, LH</td>
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<td></td>
<td>RH-23-160</td>
<td>125,000 (56,750)</td>
<td>2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.13, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17</td>
<td>2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.13, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17</td>
<td>19.62 (498.3)</td>
<td>0.50 (12.7)</td>
<td>GS, HS, LH, RS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td></td>
<td>RS-23-186</td>
<td>140,000 (63,560)</td>
<td>2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.13, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17</td>
<td>2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.13, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17</td>
<td>19.62 (498.3)</td>
<td>0.50 (12.7)</td>
<td>GS, HS, LH, RS</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Applications Key**
- **GS** – General Service
- **HS** – Heavy Service
- **LH** – Linehaul
- **RS** – Restricted Service

See Applications section for specific vehicle references. Refer to publication TP7824 for complete axle specification details.
Meritor® Tandem Axles.

For many applications, nothing less than a tandem axle will survive. And Meritor tandems not only survive, but also thrive on the toughest, meanest, most demanding jobs. Year after year, Meritor tandems – including the evolutionary 14X – keep delivering the performance. And the goods. With legendary durability. Plus reduced maintenance and operating costs.

### Meritor Tandem Axles

#### Features/Options

<table>
<thead>
<tr>
<th>Feature/Option</th>
<th>Performance Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>More robust Inter-Axle Differential (IAD)</td>
<td>20% larger than the competition’s and with fewer parts; torque capacity up to 2050 lb. ft. in certain applications; improved pinion, differential and needle bearing design provide longer life and increased reliability</td>
</tr>
<tr>
<td>Premium Amboid™ design now standard</td>
<td>Reduces inter-axle driveline U-joint angularity; less vibration and increased ride quality and overall component life</td>
</tr>
<tr>
<td>The most complete range of ratios in the industry</td>
<td>New 2.47 – the fastest axle ratio in the industry and the most efficient solution for direct drive customers; 2.47-7.17 – widest ratio range to match specific engine manufacturer’s recommendations</td>
</tr>
<tr>
<td>Broad range of gear ratios available</td>
<td>Enables end users to choose axles tailored to their needs, whether it be improved fuel economy, greater torque or maximum traction</td>
</tr>
<tr>
<td>High-torque gear design</td>
<td>Provides smoother and quieter operation, greater torque capacity and longer component life</td>
</tr>
<tr>
<td>Rugged single-piece carrier design</td>
<td>Supports precise gear alignment</td>
</tr>
<tr>
<td>Meritor spindle design</td>
<td>Central Tire Inflation (CTI), system-ready</td>
</tr>
<tr>
<td>Amboid gearing options</td>
<td>Minimize driveline angles for increased durability and improved ride quality, and longer overall component life</td>
</tr>
<tr>
<td>Optional aluminum rear/rear carrier and SteelLite X30™ brake drum options</td>
<td>Reduce weight to deliver additional payload capacity and greater fuel economy</td>
</tr>
<tr>
<td>Lowest-maintenance tandem design available</td>
<td>Extends range up to 500,000 miles between lube changes</td>
</tr>
<tr>
<td>Anti-lock braking system (ABS) and Automatic Traction Control (ATC) options</td>
<td>Provide greater braking control, shorter stopping distances and improved traction for both starting and higher-speed driveability</td>
</tr>
<tr>
<td>Optional Driver-Controlled Differential Lock (DCDL)</td>
<td>Provides maximum traction and spinout protection under slippery conditions</td>
</tr>
</tbody>
</table>
Meritor® Tandem Axles
Hypoid Single-Reduction Axle Specifications

<table>
<thead>
<tr>
<th>Axle Model</th>
<th>GCW Highway Pounds (kg)</th>
<th>Max. 2% Grade (Tons)</th>
<th>Max. 8% Grade (Pct)</th>
<th>Standard Ratios (High/Low Range)</th>
<th>Ring Gear Size (Pitch Diameter) Inches (mm)</th>
<th>Axle Shaft Spline Size Inches (mm)</th>
<th>Body Diameter Inches (mm)</th>
<th>Housing Box Size Inches (mm)</th>
<th>Wall Thickness at Spring Seat Inches (mm)</th>
<th>Wheel End Series</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT-34-144</td>
<td>34,000 (15,436)</td>
<td>80,000 (36,320)</td>
<td>80,000 (36,320)</td>
<td>2.64, 2.79, 3.07, 3.21, 3.42, 3.58, 3.73, 3.90, 4.11, 4.33, 4.63, Optional Ratios Available</td>
<td>2.64, 2.79, 3.07, 3.21, 3.42, 3.58, 3.73, 3.90, 4.11, 4.33, 4.63, Optional Ratios Available</td>
<td>5.25 x 4.62 (134 x 117)</td>
<td>2.64, 2.79, 3.07, 3.21, 3.42, 3.58, 3.73, 3.90, 4.11, Optional Ratios Available*</td>
<td>0.37 (9.5), 0.56 (14.3) Wide Track</td>
<td>GS, LS, H</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MT-34-14X</td>
<td>40,000 (18,160)</td>
<td>145,000 (65,830)</td>
<td>125,000 (56,750)</td>
<td>2.47, 2.64, 3.08, 3.25, 3.36, 3.55, 3.70, 4.09, 4.11, Optional Ratios Available*</td>
<td>2.64, 2.79, 3.07, 3.21, 3.42, 3.58, 3.73, 3.90, 4.11, 4.33, 4.63, Optional Ratios Available</td>
<td>5.28 x 4.61 (134 x 117)</td>
<td>5.28 x 4.61 (134 x 117)</td>
<td>0.37 (9.5), Std/DualTrac™ 0.43 (11.0) Std/DualTrac</td>
<td>0.56 (14.3) Wide Track</td>
<td>GS, LS, H</td>
<td></td>
</tr>
<tr>
<td>RT-40-145</td>
<td>185,000 (83,990)</td>
<td>160,000 (72,640)</td>
<td>160,000 (72,640)</td>
<td>3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.28, 5.63, 6.14, 6.43, 6.83, 7.17</td>
<td>3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.28, 5.63, 6.14, 6.43, 6.83, 7.17</td>
<td>18.00 (457.2)</td>
<td>2.35 (59.7) 46 Teeth</td>
<td>2.25 (57.2)</td>
<td>0.43 (11.0) Wide Track Only Available as RT-46-164 Series</td>
<td>GS, LS, H</td>
<td></td>
</tr>
<tr>
<td>MT-40-14X</td>
<td>44,000 (19,976)</td>
<td>Not Rated</td>
<td>Not Rated</td>
<td>3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.28, 5.63, 6.14, 6.43, 6.83, 7.17</td>
<td>3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.28, 5.63, 6.14, 6.43, 6.83, 7.17</td>
<td>15.31 (388.9)</td>
<td>2.10 (53.3) 41 Teeth</td>
<td>2.00 (50.8)</td>
<td>0.50 (12.7) Standard Track 0.56 (14.3) Wide Track</td>
<td>GS, LS, H</td>
<td></td>
</tr>
<tr>
<td>MT-40-145A</td>
<td>46,000 (20,884)</td>
<td>185,000 (83,990)</td>
<td>160,000 (72,640)</td>
<td>3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.28, 5.63, 6.14, 6.43, 6.83, 7.17</td>
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<td>18.00 (457.2)</td>
<td>2.35 (59.7) 46 Teeth</td>
<td>2.25 (57.2)</td>
<td>0.50 (12.7) Wide Track Only Available as RT-46-164 Series</td>
<td>GS, LS, H</td>
<td></td>
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* Ratios: 2.47-4.11 – Amboid™; 2.64-7.17 Hypoid

Applications Key
GS – General Service
HS – Heavy Service
LH – Linehaul
RS – Restricted Service
See Applications section for specific vehicle references. Refer to publication TP7824 for complete axle specification details.
**Meritor Axle Warranty Coverage.**

All Meritor axles are backed by ArvinMeritor’s industry-competitive warranty. And every claim is fully supported by our industry-leading online warranty claims system. For complete details, see arvinmeritor.com and download a copy of our current warranty brochure (SP-95155).

**Advantage Plans.**

The ideal complement to our warranty, the Advantage Plans offer a simple and economical way to get the long-term axle coverage you need. The Advantage Plans offer coverage up to 7 Years in linehaul applications, with the added benefit of being transferable when the original owner sells the truck.

With our Advantage Plans, you can get extended service coverage on linehaul axles for up to 7 Years and/or 1,000,000 Miles – longer than ever before – and up to 5 Years for general service and heavy service applications.

**Global Customer Support.**

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

With unmatched consultation and follow-through, we can provide you with the guidance needed to optimize your spec based on your equipment, duty cycle, operating environment and operational goals.

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

**Total Axle Solutions From The Worldwide Axle Leader.**

Meritor is the name fleet owners and end users trust more than any other for comprehensive axle solutions. And for good reason. Through continuous innovation and forward thinking, Meritor axles lead the way in reliability, durability and operating efficiency – giving you the performance edge you need to stay ahead. For details on our heavy-duty vocational axles, see the Meritor Heavy-Duty Vocational Axles brochure (SP-09150).

For more information, call 800-535-5560 or visit arvinmeritor.com today.
Applications

Linehaul Vehicles:

- Auto Hauler
- Bulk Hauler
- Chip Hauler*
- Doubles
- Flatbed
- General Freight
- Grain Hauler
- Livestock Hauler
- Refrigerated Freight
- Tanker
- Triples

* Chip Hauler vehicles require specific axle models and linehaul conditions to be eligible for linehaul warranty consideration.

General Service Vehicles:

- Aerial Ladder Truck
- Aerial Platform
- Ambulance
- Auto Hauler
- Beverage Truck
- Chip Hauler
- Cross-Country Coach
- Flatbed
- Front-Engine Commercial
- Chassis
- Front-Engine Integral Coach
- General Freight
- Intercity Coach
- Intermodal Chassis
- Livestock Hauler
- Meat Packer
- Moving Van
- Municipal Truck
- Newspaper Delivery
- Pick Up and Delivery
- Pipe Hauler
- Platform Auto Hauler
- Pumper
- Rear Engine Integral Coach
- Recreational Vehicles
- Refrigerated Truck
- School Bus
- Stake Truck
- Tanker
- Tanker Truck
- Tour Bus
- Wrecker

Heavy Service Vehicles:

- Airport Rescue Fire (ARF)
- Airport Shuttle
- Asphalt Truck
- Block Truck
- Bottom Dump Trailer Combination
- Cementing Vehicle
- City Bus
- Commercial Pickup
- Concrete Pumper
- Construction Material Hauler
- Crash Fire Rescue (CFR)
- Mixer
- Demolition
- Drill Rig
- Dump
- Emergency Service
- Equipment Hauling
- Flatbed Trailer Hauler
- Flatbed Truck
- Fracturing Truck
- Front Loader
- Geophysical Exploration
- Hopper Trailer Combinations
- Landscaping Truck
- Liquid Waste Hauler
- Log Hauling
- Lowboy
- Michigan Special Gravel Trains
- Michigan Special Log Hauler
- Michigan Special Steel Hauler
- Michigan Special Waste Vehicle
- Municipal Dump
- Rapid Intervention Vehicle (RIV)
- Rear Loader
- Recycling Truck
- Residential Pickup
- Rigging Truck
- Roll-Off
- Scrap Truck
- Semi-End Dump
- Sewer/Septic Vacuum
- Shuttle Bus
- Side Loader
- Snowplow/Snowblower
- Steel Hauling
- Tanker
- Tank Truck
- Tractors with Pole Trailers
- Tractor/Trailer with Jeeps
- Transfer Dump
- Transfer Vehicle
- Transit Bus
- Trolley
- Utility Truck
- Winch Truck

Restricted Service Vehicles:

- Load-On/Load-Off
- Port Tractor
- Rail Yard Spotter
- Roll-On/Roll-Off
- Stevedoring Tractor
- Trailer Spotter
- Yard Jockey
### New Front Non-Drive Axle Model Nomenclature

#### Hub, Tie Rod Arm, Brake Attachment Variation
- **A** = Conventional, Non-Integral Tie Rod Arm, Non-Integral Brake
- **B** = Conventional, Integral Tie Rod Arm, Non-Integral Brake
- **C** = Conventional, Integral Tie Rod Arm, Integral Disc Brake
- **D** = Unitized 65 mm, Integral Tie Rod Arm, Integral Drum Brake
- **E** = Conventional, Integral Tie Rod Arm, Integral Drum Brake
- **F** = Unitized 60 mm, Non-Integral Tie Rod Arm, Non-Integral Brake
- **G** = Unitized 60 mm, Integral Tie Rod Arm, Integral Drum Brake
- **H** = Unitized 60 mm, Integral Tie Rod Arm, Integral Disc Brake

#### KPI in. (mm) Drop in. (mm)

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#### Manufacturing Location
- **N** = N.A.
- **S** = S.A.
- **E** = Europe
- **A** = Australia/Asia

#### MFS - xx - x x x x - x x - xxx

- **M** = Meritor
- **F** = Front
- **S** = Non-Drive Steer Axle

#### GAWR Pounds or Tons

- **Beam, King Pin, Bushing Variation**
  - 1 = Forged I-Beam, Straight King Pins — Non-Metallic Bushings
  - 2 = Forged I-Beam, Tapered King Pins — Needle Bearings
  - 4 = Forged I-Beam, Straight King Pins — Bronze Bushings
  - 5 = Forged I-Beam, Straight King Pins — Needle Bearings
  - 6 = Formed Beam, Straight King Pins — Non-Metallic Bushings

#### Axle Spec. Number

- **Brake Type**
  - **B** = “B” Frame Brake
  - **C** = Air Disc Brake
  - **D** = Wedge Brake (Dual Air Chambers)
  - **E** = Wedge Brake (Dual Hydraulic Cylinders)
  - **F** = Wedge Brake (Single Hydraulic Cylinder)
  - **G** = DuraPark™ Hydraulic Drum
  - **H** = QuadraPlus™ Disc
  - **K** = DiscPlus™ Air Disc

- **Brake Type**
  - **L** = Q Plus™ Cam Brake
  - **N** = None
  - **P** = “P” Series Cam Brake
  - **Q** = “Q” Series Cam Brake
  - **R** = CastPlus™ Brake
  - **S** = Wedge Brake (Single Air Chamber)
  - **T** = “T” Series Cam Brake
  - **V** = Simplex Air Cam Brake
  - **W** = “W” Series Cam

- **Z** = Non-Meritor Brake
Current Non-Drive Axle Model Nomenclature

**BRAKE TYPE**
- CA = Dura-Master® Air Disc Brake
- L = Q Plus™ Cam Brake
- N = None
- P = Cam-Master® “P” Series Cam Brake
- Q = Cam-Master® “Q” Series Cam Brake
- T = Cam-Master® “T” Series Cam Brake
- W = Cam-Master® “W” Series Cam Brake
- Z = Non-Meritor Brake
- RDA = Stopmaster® Wedge Brake (Dual Air Chambers)
- RSA = Stopmaster® Wedge Brake (Single Air Chamber)
- RDH = Stopmaster® Wedge Brake (Dual Hydraulic Cylinders)
- RSH = Stopmaster® Wedge Brake (Single Hydraulic Cylinder)

**BASIC CAPACITY**
- C = 7,000-8,000 lbs. (3175-3629 kg)
- D = 10,000 lbs. (4536 kg)
- F = 12,000-13,200 lbs. (5443-5987 kg)
- G = 14,600 lbs. (6623 kg)
- L = 16,000-20,000 lbs. (7258-9072 kg)

**FRONT AXLE**

**MAJOR VARIATION**
- 0 = Pre-FMVSS-121 Design
- 1 = Straight Sealed King Pin and New Tie Rod Assembly
- 2 = Sealed King Pin Construction
- 3 = Larger Axle Beam and Knuckles
- 4 = Easy Steer® Design
- 5 = Tubular Axle Beam
- 6 = Lightweight Axle Beam
- 7 = Center-Point™ Design
- 8 = Easy Steer Plus™ Unitized Axle Design
- 9 = Needle Bearings

**SPECIFICATION NUMBER**

**NUMBER DESIGN VARIATION**
- 0 = Tapered King Pin
- 1 = Straight King Pin
- 2 = Special Tie Rods
- 3 = 5-Inch Drop from Center of Spindle to Pad
- 4 = 5-Inch Drop from Center of Spindle to Pad and Special Tie Rods
- 5 = Special Wheel-Ends
- 6 = Double Drop Beam — 12,000 lbs. GAW
- 7 = Double Drop Beam — 13,200 lbs. GAW
New Drive Axle Model Nomenclature

**Housing Wall**
- 0 = Cast
- 1 = TBD
- 2 = 0.31 in. (8 mm)
- 3 = 0.37/0.39 in. (9.5/10.0 mm)
- 4 = 0.45 in. (11 mm)
- 5 = 0.50/0.51 in. (12.7/13.0 mm)
- 6 = 0.56 in. (14.3 mm)
- 7 = TBD
- 8 = 0.63 in. (16 mm)
- 9 = TBD

**Carrier Variation**
- A = Aluminium
- B = Aluminium/Ductile Anbody (Tandem Split)
- C = Ductile/Ductile Anbody (Tandem Split)
- D = Ductile
- E = Aluminium/Ductile (Tandem Split)
- F = Ductile Anbody/Ductile Hypoid (Tandem Split)
- M = Ductile Rear, Anbody
- N = No Carrier
- R = Ductile Front Drive Axle Carrier, Right Hand

**Main Differential Nest Type**
- A = DCDL/Standard (Tandem Split)
- B = Special Differential
- C = Driver Controlled Differential Lock - DCDL
- D = DCDL/NoSPIN* (Tandem Split)
- E = Standard/DCDL (Tandem Split)
- F = Standard Differential
- G = Standard/NoSPIN* (Tandem Split)
- H = High Traction Differential
- J = NoSPIN*/DCDL (Tandem Split)
- K = NoSPIN*/Standard (Tandem Split)
- L = No Differential
- N = NoSPIN*

**Axle Model Type**
- S = Single Rear (Solo)
- X = Front Drive Steer
- D = Fwd Rear w/AAD
- N = Fwd Rear less IAD
- P = Fwd Rear w/Pump
- R = Rear Rear
- T = Tandem Drive
- Z = Tridem Drive
- C = Coach
- H = High Entry

**Relative Gearing Size or Series**
- 0 = No Gearing
- 1 = 292/347
- 2 = 337/387
- 3 = TBD
- 4 = 381/432
- 5 = 415/432
- 6 = 432/457
- 7 = 457
- 8 = 460/498

**Wheel End/Brake Attachment**
- A = Conventional Spindle/Conventional Brake
- E = Unitized Spindle/Conventional Brake
- J = Conventional Spindle/Integral Brake
- N = Unitized Spindle/Integral Brake
- S = Bolt on Conventional Spindle/Conventional Brake

**Brake Type**
- B = "B" Frame Brake
- C = Air Disc Brake
- D = Wedge Brake, Dual Air Chambers
- E = Wedge Brake, Dual Hydraulic Cylinders
- F = Wedge Brake, Single Hydraulic Cylinder
- G = DuraPark® Hydraulic Drum
- H = Quadractic™ Disc
- K = DiscPlus™ Air Disc
- L = Q Plus™ Cam Brake
- N = None
- P = "P" Series Cam Brake
- Q = "Q" Series Cam Brake
- R = Cast Plus™ Brake
- S = Wedge Brake, Single Air Chamber
- T = "T" Series Cam Brake
- V = Simplex Air Cam Brake
- W = "W" Series Cam Brake
- Z = Non-Meritor Brake

**Specifiation Number**
Includes: TRACK, PARKING BRAKE, OTHER.

**M = Meritor**

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**M x - xx - x x x x x x x x x x x x x x x x x x x x**

**M S - 2 1 - 1 4 5 D B B N Q - 1 2 3 - 3 5 5**

**Ratio 1**

**NOTE:** The term “Tandem Split” refers to when there is a difference between the Forward axle and Rear axle of the Tandem or Tridem axle set when the Tandem or Tridem axle set part number is used. The value to the left of the "/" references the Forward axle, and the number to the right of the "/" references the Rear axle. For information related to the Middle axle of a Tridem axle set part number, refer to the Bills of Material.
Current Drive Axle Model Nomenclature

**GEARING TYPE**
1 = Single Speed  
2 = Two Speed  
3 = Helical Double-Reduction  
4 = Salisbury Single Speed  
5 = Planetary Double-Reduction  
6 = Hub Reduction

**MAIN DIFFERENTIAL NEST TYPE**
A = DCDL/Standard (Tandem Split)  
B = Special Differential  
C = Driver Controlled Differential Lock — DCDL  
D = DCDL/NoSPIN* (Tandem Split)  
E = Standard/DCDL (Tandem Split)  
F = Standard Differential  
G = Standard/NoSPIN* (Tandem Split)  
H = High Traction Differential  
J = NoSPIN*/DCDL (Tandem Split)  
K = NoSPIN*/Standard (Tandem Split)  
L = No Differential  
N = NoSPIN*

**NOMINAL AXLE LOAD RATING (GAWR)**  
In thousands of pounds. Individual forward and rear axles of a tandem set (D, N, P, R) are rated as single axles. A tandem set (T) is rated as the combination of the two axles and a tridem set (Z) as the combination of the three axles.

**MANUFACTURING LOCATION**  
A = Australia  
B = Brazil  
C = India  
D = Mexico  
E = Europe  
N = U.S.A.  
T = Telma Retarder (U.S.A.)

**AXLE TYPE**
C = Single Rear Drive Axle, Coach  
D = Forward-Rear Axle of a Drive Tandem with Inter-Axle Differential  
F = Front Drive Axle  
H = High Entry  
N = Forward-Rear Axle of a Drive Tandem or Tridem without Inter-Axle Differential  
P = Forward-Rear Axle of a Drive Tandem with Inter-Axle Differential and Pump  
R = Rear-Rear Axle of a Drive Tandem  
S = Single Rear Drive Axle  
T = Tandem Drive Axle Set  
Z = Tridem Drive Axle Set

**AXLE SPECIFICATION NUMBER**  
Identifies specific customer axle configurations (variations from the original axle design). For information about the variation, refer to the Bill of Materials for that specific axle model.

**HUB TYPE**
A = Aluminum  
C = Cast Spoke Wheel  
F = Ferrous  
N = None  
*NOTE:* This position will be used to designate hub only until more than three digits are required to designate axle specification.

**AXLE DESIGN VARIATION**  
Indicates axle design level or variation, (e.g., RS 23 161 has a thicker wall housing than the RS 23 160). For information, refer to the Bill of Materials for that specific axle model. (Also refer to Tridem Axle Note 2 below.)

**NOTE 1:** If a complete axle designation is not required, use the first seven positions of the model designation to identify the basic axle model.  
RS 17 145 = Single Rear Drive, 17,000 lbs., Single Speed, 15" Ring Gear, 145 Carrier Model.  
RT 52 380 = Tandem Drive Axle Set, 52,000 lbs., Helical Double-Reduction, 19.62" Ring Rear, 380 Carrier Model.  
RZ 60 164 = Tridem Drive Axle Set, 60,000 lbs., Single Speed, Includes a 160 Series Forward Rear or First Axle and a 145 Series Tandem Axle Set as the Second and Third Axles.

**NOTE 2:** FOR TRIDEM AXLES ONLY:  
For a Tridem Drive Axle Set (RZ), the number in the sixth position designates the carrier in the first axle. The number in the seventh position designates the carriers in the second and third axles.

**NOTE 3:** The term "Tandem Split" refers to when there is a difference between the Forward axle and Rear axle of the Tandem or Tridem axle set when the Tandem or Tridem axle set part number is used. The value to the left of the "T" references the Forward axle, and the number to the right of the "T" references the Rear axle. For information related to the Middle axle of a Tridem axle set part number, refer to the Bills of Material.