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Product Summary

The Meritor® RS-17-144/145 single drive axles are the standard offering designed for medium-duty on-highway use. The RS-17-144/145 are ideal for low initial cost and overall economy.

The RS-17-144 features larger “R” series wheel ends for increased parts commonality. The RS-17-145 is configured with proven Meritor® “L” wheel spindles and brake flanges which are compatible with medium-duty brake and wheel equipment.

Twenty gear ratios are available, ranging from 2.79 to 7.17, in an efficient single-reduction carrier design.

The axles feature a housing design with a 0.375-inch wall thickness, 15.3-inch hypoid-Generoid gearing, with bolted ring gear to differential case attachment, precision-forged differential gears, and a rigid design differential case. Also featured are unitized pinion seals and full compatibility with OEM factory fill of ArvinMeritor approved extended drain lubricants. The RS-17-144/145 have standardized wheel ends for optimum parts interchangeability.

For traction improvement, the Meritor® driver-controlled differential lock is available on the RS-17-144. Also, a 36.5 lb. weight savings is available by specifying the aluminum carrier casting on the RS-17-144A.

Commonality of parts with the RT-145 series axles reduces inventories and provides parts availability throughout North America.

The RS-17-144/145 are available with the TELMA retarder mounted directly to the axle for certain approved applications. For additional details, see the Meritor® and TELMA product profile TP-90214.

Application Summary

The RS-17-144/145 are compatible with medium-duty truck and tractor applications in pickup and delivery, school bus, motor home and utility vocations.

For those vehicle operators who anticipate more severe duty in on-/off-highway applications or high-stop/start duty cycles such as refuse or construction service, the RS-21-145 or RS-23-160 should be specified.
Features

Meritor® “L” spindle on RS-17-145
Meritor® “R” series wheel end on RS-17-144
Large (15.3 inch) hypoid-Generoid gearing
Rigid bolted ring gear attachment
Rigid ribbed differential case
Precision-forged differential gears
Unitized pinion seals

Benefits

Medium-duty brake and wheel equipment compatibility
More robust; increased parts commonality
Longer life, greater strength, quieter operation
Improved serviceability and increased durability
Better gear alignment and increased durability
Greater strength and shock resistance
Seal lips are completely encased to keep lubricant in and help prevent installation and contamination damage

Compatibility with OEM factory fill of extended drain lubricants
Reduced operating costs
No initial lubrication drop requirement
Reduced operating costs
Aluminum carrier casting
Reduced weight

Specifications*: RS-17-144/145

<table>
<thead>
<tr>
<th>AXLE MODEL</th>
<th>RATING POUNDS (KG)</th>
<th>CCW HOUSING SIZE (1) HUBS AND DRUMS, RATING POUNDS (KG)</th>
<th>WALL THICKNESS (2) OIL AT SPRING SEAT INCHES (MM)</th>
<th>STANDARD RATIOS</th>
<th>WEIGHT** POUNDS (KG)</th>
<th>OIL CAPACITY*** PINTS (LITERS)</th>
<th>BRAKE TYPES AND SIZES INCHES (MM)</th>
<th>HUBS AND DRUMS, BOLT CIRCLE DIAMETER INCHES (MM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-17-144</td>
<td>17,500 (7938)</td>
<td>50,000 (22680)</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, 6.63, 7.17</td>
<td>(1) 5.28 x 4.61 (134 x 117) (2) 0.37 (9.5)</td>
<td>563 (255.4 kg)</td>
<td>32.3 (15.3)</td>
<td>Q Plus™ 15 x 8.62 15 x 7 (381 x 219) Cam Q Plus™ 16.5 x 7 15 x 7 8 Stud, 10.83 (275) 10 Stud, 11.25 (285.75)</td>
<td></td>
</tr>
<tr>
<td>RS-17-145</td>
<td>17,500 (7938)</td>
<td>50,000 (22680)</td>
<td>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, 6.63, 7.17</td>
<td>(1) 5.28 x 4.61 (134 x 117) (2) 0.37 (9.5)</td>
<td>532 (241.3 kg)</td>
<td>33.6 (15.9)</td>
<td>Q Plus™ 15 x 7 8 Stud, 10.83 (275) 10 Stud, 11.25 (285.75)</td>
<td></td>
</tr>
</tbody>
</table>

*Permitted use of axles and components, including capacity ratings where stated vary with application and service. Applications should be approved by ArvinMeritor Axle and Brake Engineering Departments. Approved ratings may be higher or lower than indicated above, dependent upon engineering review.

**Axle weights less oil, brakes, hubs, drums or rotors, bearing cones, seals, wipers, suspension brackets, yokes and options.

***Oil capacities for standard track axles measured at the various common drive pinion angles and include quantities for both wheel ends. Capacities will change if track or drive pinion angle is different.

Meritor® axles are covered by an industry-competitive warranty. For complete details, refer to publication SP-95155 or contact your ArvinMeritor representative.

Commercial Vehicle Systems

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