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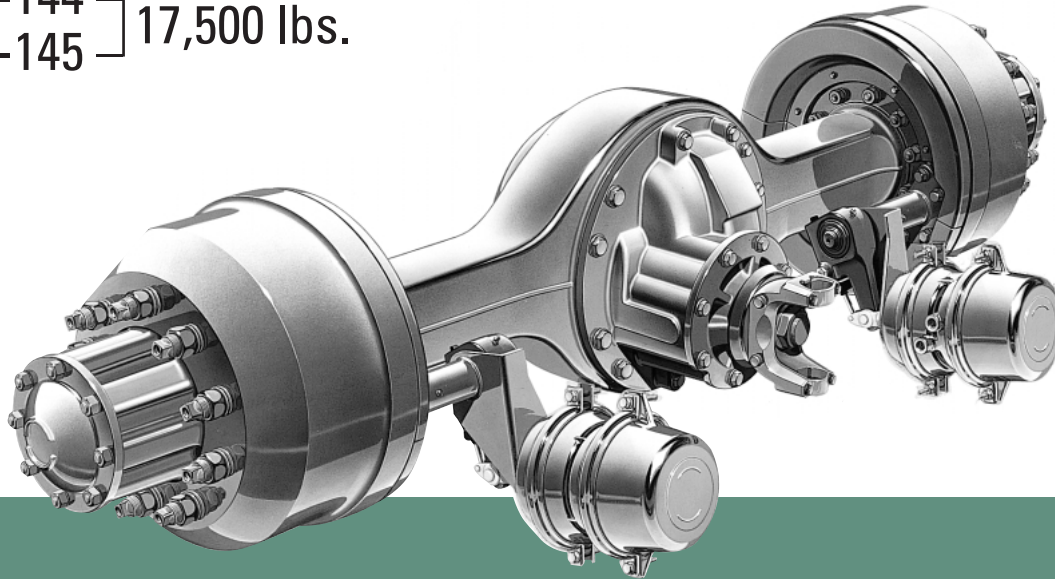
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Single Drive Axle

Hypoid Single Reduction

RS-17-144 } 17,500 lbs.
RS-17-145 }



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

Benefits

Medium-duty brake and wheel equipment compatibility

Meritor® “R” series wheel end on RS-17-144

More robust; increased parts commonality

Large (15.3 inch) hypoid-Generoid gearing

Longer life, greater strength, quieter operation

Rigid bolted ring gear attachment

Improved serviceability and increased durability

Rigid ribbed differential case

Better gear alignment and increased durability

Precision-forged differential gears

Greater strength and shock resistance

Unitized pinion seals

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

AXLE MODEL	RATING POUNDS (KG)	GCW POUNDS (KG) HIGHWAY		STANDARD RATIOS	HOUSING SIZE (1) WALL THICKNESS (2) AT SPRING SEAT INCHES (MM)	WEIGHT** POUNDS (KG)	OIL CAPACITY*** PINTS (LITERS)	BRAKE TYPES AND SIZES INCHES (MM)	HUBS AND DRUMS, BOLT CIRCLE DIAMETER INCHES (MM)
		TURNPIKE	PAVED						
RS-17-144	17,500 (7938)	50,000 (22680)	50,000 (22680)	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	(1) 5.28 x 4.61 (134 x 117) (2) .037 (9.5)	563 (255.4 kg) Ductile Casting 526.5 (238.8 kg) Aluminum Casting	32.3 (15.3)	Q Plus™ 15 x 8.62 (381 x 219) Cam Q Plus™ 16.5 x 7 (419 x 178) Cam 15 x 7 (381 x 178) Wedge AirDisc ADB - 1560	8 Stud, 10.83 (275) 10 Stud, 11.25 (285.75)
RS-17-145	17,500 (7938)	50,000 (22680)	50,000 (22680)	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	(1) 5.28 x 4.61 (134 x 117) (2) .037 (9.5)	532 (241.3 kg)	33.6 (15.9)	Q Plus™ 15 x 7 (381 x 178) Cam Q Plus™ 15 x 8.62 (381 x 219) Cam Q Plus™ 16.5 x 7 (419 x 178) Cam 15 x 6 (381 x 152) Wedge	8 Stud, 10.83 (275) 10 Stud, 11.25 (285.75)

***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.

ArvinMeritor™
Commercial Vehicle Systems

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The entire family of Meritor® axles is an integral member of **Drivetrain Plus™** by ArvinMeritor, the industry's most complete drivetrain. For more information, call **800-535-5560**.