



MERITOR®

an *ArvinMeritor* brand

Tandem Drive Axles

Hypoid Single Reduction

RT-40-145/RT-40-145P—40,000 lbs.



Product Summary

The RT-40-145 is the Meritor® premium performance-oriented 40,000 lb. gross axle weight rated (GAWR) tandem drive axle.

The RT-40-145 offers the widest range of ratios available (eighteen, ranging from 2.64 to 7.17) providing for compatibility with low RPM engines to ensure maximum fuel efficiency and performance at highway speeds.

The axle features a long life housing design with a standard 0.375-inch wall thickness (with optional 0.433-inch), hypoid-Generoid gearing with bolted ring gear to differential case attachment,

precision-forged differential gears, one-piece forward carrier design, large diameter input shaft, and rigid differential case. Also featured are unitized pinion seals and full compatibility with OEM factory fill of ArvinMeritor-approved extended drain lubricants.

An optional driver-controlled differential lock (DCDL) for maximum traction is available for the RT-40-145 as well as a pressurized filtered lubrication system to provide for spin-out protection (RT-40-145P).

Application Summary

The RT-40-145 provides for compatibility with all normal truck and tractor applications in North America, such as general freight vehicles, doubles, triples, auto haulers and moving vans, where a 40,000 lb. GAWR axle is required. The RT-40-145 is particularly well suited where end users require a fast ratio for drive line optimization or the need for the Meritor pressurized filtered lubrication system or driver-controlled differential lock.

For those operators who expect to experience severe duty service or frequent overloads, the RT-44-145 or RT-46-160 should be specified.



Features

Benefits

Large (15.3-inch) hypoid-Generoid gearing	Longer life, greater strength, quieter operation
Rigid bolted ring gear attachment	Durability, serviceability
Rigid ribbed differential case	Better gear alignment, durability
Precision-forged differential gears	Durability, greater strength
Rugged single piece carrier design	Precise alignment, less leaks
<ul style="list-style-type: none"> Multiple lip seal with two-piece sleeve Unitized seal with sleeve (one-piece) 	Improved oil containment and contaminant exclusion. Increased seal effectiveness
Compatibility with OEM factory fill of extended drain lubricants	Reduced operating costs
No initial lubrication drop requirement	Reduced operating costs
Availability of pressurized filtered lube system (RT-40-145P) option	Virtually eliminates potential spin-out
Availability of driver-controlled differential lock option	Maximum traction
Meritor® spindle design	Industry standard brake and wheel equipment compatibility

Specifications*: RT-40-145(P)

RATING POUNDS (KG)	GCW POUNDS (KG) HIGHWAY		STANDARD RATIOS	HOUSING SIZE/ WALL THICKNESS 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						
40,000 (18144)	145,000 (65772)	125,000 (56700)	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, 5.29, 5.86, 6.14, 6.43, 6.83, 7.17	5.28 x 4.61/0.37 (134 x 117/9.5) Optional Wall Thickness 0.43 (11) 0.56 wide track (14.3)	F 696 (315.7) R 563 (255.4)	F 30.2 (14.3) R 25.8 (12.2)	Cam-Master Q Plus 15 x 7 (381 x 178) 15 x 8.62 (381 x 219), 16.5 x 7 (419 x 178), Cam-Master Q Plus 16.5 x 7 (419 x 178), Stopmaster 15 x 7 (381 x 178) Dura-Master Air Disc ADB-1560	10 Stud, 11.25 (285.75) 10 Stud, 13.19 (335) Cast Spoke Wheels

*Permitted use of axles and components, including capacity ratings where stated, vary with application and service. Applications should be approved by ArvinMeritor Commercial Vehicle 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.