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TP-9487
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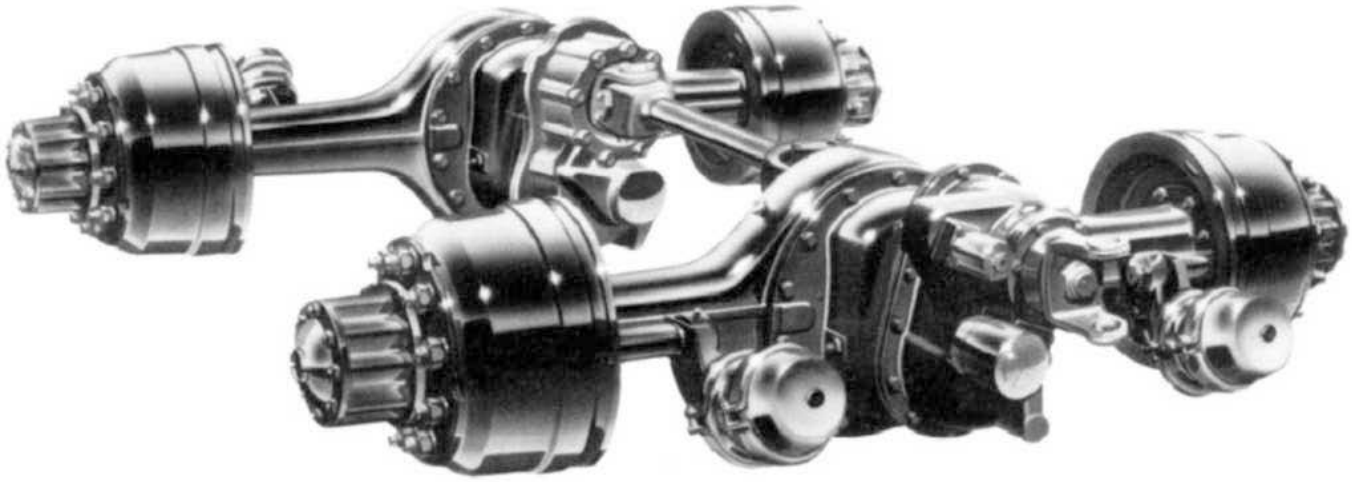
MERITOR™

PRODUCT PROFILE

Double-Reduction Tandem Axles

RT-52-380, RT-58-380, and RT-70-380



Product Summary

Meritor's™ double-reduction tandem axles are available in 52,000, 58,000 and 70,000 lbs. gross axle weight rating (GAWR) capacities. These tandem axles are ideal when maximum traction is required with high gross combination weights. Helical first-reduction gearing and large hypoid Generoid™ second-reduction gearing provides ratios from 5.52 to 10.62. Two-piece forward-mounted carriers and durable fabricated housings ensure a long life of dependable performance. Tapered roller bearings, a rigid differential case, and triple-lip oil seals extend axle life and reduce maintenance costs.

Meritor's design features a standard forward axle pump and an optional rear axle pump which provides positive pressurized lubrication in both forward and reverse, greatly reducing spin-out potential at all speeds.

Application Summary

In heavy-duty construction, it is often necessary to move heavy equipment and materials at maximum legal limits and special permit loadings. Whenever these loads need to be moved, Meritor's double-reduction tandem axles provide the necessary deep ratio gearing to do the job. These tandems have been engineered with a number of special design features which make them suitable for logging applications, heavy equipment hauling and extra-heavy loads, such as coal, rock, ore and gravel movement between mining and delivery sites.

Oil field operations including exploration and service vehicles, special processing equipment, and off-road oil rigs require Meritor's rugged design features and quality components which keep down-time and maintenance to a minimum extending performance.

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Features	Benefits
Precision-forged differential gears	Maximum strength and shock resistance
Large 19.62-inch (498.3 mm) hypoid Generoid™ gearing	Higher torque handling ability, quieter operation, longer life
Wide range of gear ratios available	Greater operating efficiency in a variety of applications
Rigid bolted ring gear attachment	Greater stability, improved durability
Extended life triple-lip oil seals	Help protect against dirt and leakage for reduced operating costs. Compatible with extended drain lubricants
Optional wheel-end anti-lock braking system (ABS)	Improved vehicle control and stability when stopping
Two-piece forward carrier design	Provides rigidity and alignment
Rigid ribbed differential case	Better gear alignment for increased life
Helical gear reduction	Designed for superior strength and long life
Spindle design variations available for all heavy-duty applications	Compatible with industry standard brake and wheel-end equipment

Specifications*: RT-52-380, RT-58-380, and RT-70-380

AXLE MODEL	RATING LBS (KG)	GCW** POUNDS (KG) HIGHWAY		HOUSING SIZE/ WALL THICKNESS AT SPRING SEAT INCHES (MM)	BRAKE TYPES AND SIZES INCHES (MM)	TRACK INCHES (MM)	STANDARD RATIOS	AXLE SHAFT-SPLINE SIZE INCHES (MM)	BODY DIAMETER INCHES (MM)	WHEEL END SERIES
		TURNPIKE	PAVED							
RT-52-380	52,000 (23587)	255,000 (115668)	225,000 (102060)	5.50 x 5.50/0.56 (140 x 140/14.3)	Cam-Master® P (Cast Shoe) 16.5 x 7 (419 x 178) 18 x 7 (457 x 178)	Standard 72.24 (1834) Optional 78.12 (1984)	5.52, 6.07, 6.37, 6.75, 7.24, 7.83, 9.14, 10.12, 10.62	2.35 (59.7) 46 Teeth	2.25 (57.2)	R
RT-58-380	58,000 (26309)					Standard 74.06 (1881) Optional 72.12 (1831) 80.00 (2032)				U
RT-70-380	70,000 (31752)			6.50 x 5.50/0.66 (165 x 140/17) cast housing	Cam-Master® P (Cast Shoe) 18 x 7 (457 x 178)	Standard 73.75 (1873) Optional 82.00 (2082) 97.75 (2482)		2.55 (64.8) 50 Teeth	2.38 (60.5)	W

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

** Consult Meritor publication TP-9441 Axle Application Guidelines for specific limits by vocation.

All Meritor axles are covered by Meritor's industry-competitive warranty. For complete details, refer to publication SP-95155 or contact your Meritor representative.

MERITOR™
A Heritage of Rockwell Technology

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

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