MERITOR® HEAVY-DUTY VOCATIONAL AXLES

MERITOR

MERITOR HEAVY-DUTY VOCATIONAL AXLES

An Axle Solution for Every Vocation

Construction. Municipal. Refuse. Sewer. Heavy Haul. These are just some of the most demanding vocations out there. Fortunately, Meritor axles are more than up to the challenge.

We're the world's largest independent manufacturer of truck axles for a broad range of vehicle applications. So we know how to build axles that perform not only in the toughest conditions, but also with outstanding reliability, unmatched durability and low cost of operation.

Built on a Legacy of Forward Thinking

Our heritage of over 100 years 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 vocational 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

Meritor 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

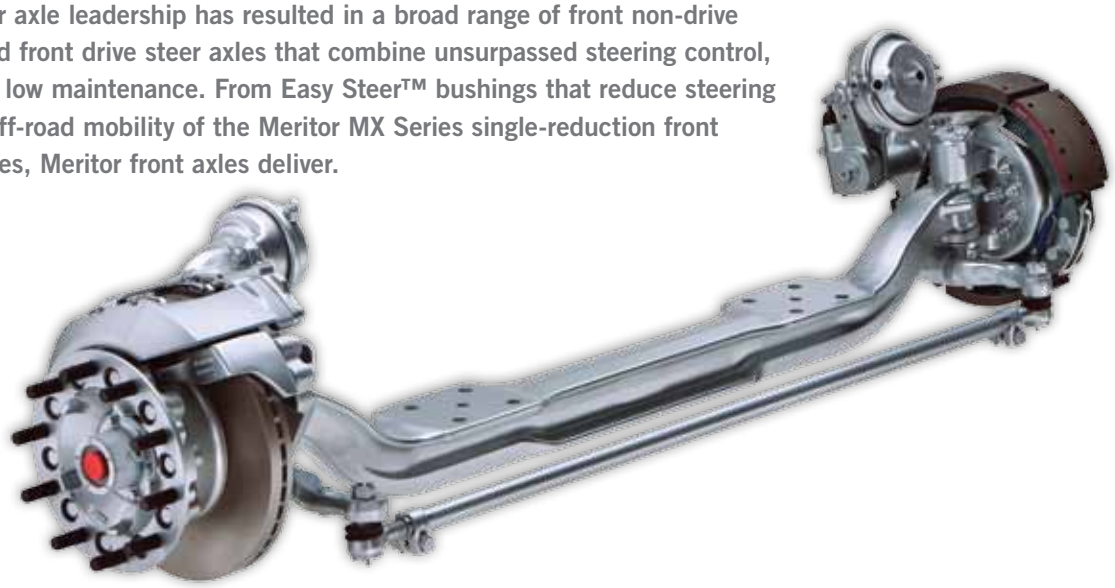
Our full line of front, tandem and single rear, tandem and tridem vocational axles feature forward-thinking innovations designed to give you a true competitive edge. And all are backed by industry-leading service and support and comprehensive warranty coverage. No other axle supplier delivers such a 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 heavy-duty vocational axle models.

MERITOR FRONT AXLES

Proven Meritor axle leadership has resulted in a broad range of front non-drive steer axles and front drive steer axles that combine unsurpassed steering control, durability and low maintenance. From Easy Steer™ bushings that reduce steering effort to the off-road mobility of the Meritor MX Series single-reduction front drive steer axles, Meritor front axles deliver.



Features/Options	Performance Benefits
Offers up to a 55-degree turn-angle capability	Unsurpassed maneuverability and vehicle stability
Unique Easy Steer bushing technology	Reduces steering effort and increases axle life
Combination of Meritor Easy Steer king pin bushings, computer-designed and optimized I-beam construction and stiff axle assembly	Delivers tight, 50-degree turning radius, superior vehicle control and longer tire life
Special low-friction bushings, double draw keys, and integral thrust bearing and seal designs	Combine durability, low maintenance and ease of service
Wide range of lightweight, full-strength steer axle assemblies for a variety of wheel base lengths, front axle tracks and turn angles	Allows customization for specific applications and superior OEM packaging flexibility
Optional unitized hub with preassembled hub, bearings and seals	Maximizes assembly efficiency for vehicle OEMs
Meritor double drop axles feature a large-diameter, heat-treated king pin	Delivers greater durability and longer life
Variety of front drive axle weight ratings	Provides OEM efficiencies for vehicle model families
Wide ratio of front drive axle gear selection	Allows for use in a wide range of heavy-duty on- and off-highway applications

Front Non-Drive Steer Axle Specifications

RATINGS pounds (kg)	AXLE MODEL	AXLE BEAM DROP inches (mm)	KPI KING PIN INTERSECTION inches (mm)	WHEEL-END SERIES	APPLICATIONS
12,000 (5,448)	MFS-12-143A-N MFS-12-144A-N FF-941 FF-943 FF-961 FF-966	3.74 (95.0) 5.00 (127.0) 3.50 (88.9) 5.00 (127.0) 3.50 (88.9) 3.5/2.0 (88.9/51.0)	71.5 (1816.1) 69.0 (1,752.6)	A	GS, HS, LH GS, HS, LH HS, RS HS, RS HS, RS HS, RS
12,500 (5,669)	12.5k	3.74 (95.0)	71.5 (1,816.1)		
13,200 (5,993)	FF-967 FF-942 FF-944 MFS-13-143A-N MFS-13-144A-N	3.5/2.0 (88.9/51.0) 3.50 (88.9) 5.00 (127.0) 3.74 (95.0) 5.00 (127.0)	69.0 (1,752.6) 71.5 (1,816.1)		GS, HS GS, HS GS, HS LH, RS LH, RS
14,600 (6,628)	FG-941 FG-943	3.50 (88.9) 5.00 (127.0)	69.0 (1,752.6)		GS, HS, LH, RS GS, HS, LG, RS
14,700 (6,674)	MFS-14-143A-N MFS-14-144A-N	3.74 (95.0) 5.00 (127.0)	71.5 (1,816.1)		GS, HS, LG, RS GS, HS, LG, RS
16,000 (7,264)	MFS-16-143A-N MFS-16-122A-N FL-941 FL-943	3.74 (95.0) 3.50 (88.9) 5.00 (127.0)	69.0 (1,752.6) 68.5 (1,739.9) 68.83 (1,748.3)		GS, HS, RS GS, HS, RS GS, HS, RS GS, HS, RS
18,000 (8,172)	FL-941 MFS-18-133A-N FL-943	3.50 (88.9) 3.74 (95.0) 5.00 (127.0)	68.5 (1,739.9) 71.0 (1,803.4) 68.83 (1,748.3)		GS, HS, RS GS, HS, RS GS, HS, RS
20,000 (9,080)	FL-941 FL-943 MFS-20-133A-N	3.50 (88.9) 5.00 (127.0) 3.74 (95.0)	68.5 (1,739.9) 68.83 (1,748.3) 71.0 (1,803.4)		GS, HS, RS GS, HS, RS GS, HS, RS

Front Drive Steer Axle Specifications

RATINGS pounds (kg)	AXLE MODEL	STANDARD RATIOS	RING GEAR SIZE inches (mm)	BOWL OFFSET inches (mm)	MAX. TURN ANGLE	JOINT TYPE	(KPI) KING PIN INTERSECTION DISTANCE inches (mm)	OPTIONS	WHEEL-END SERIES	APPLICATIONS
10,000 (4,540) 12,000 (5,448) 14,000 (6,350) 16,000 (7,258)	MX-10-120 MS-12-120 MX-14-120 MX-16-120	3.31, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.88, 5.13, 5.29, 5.57, 5,86, 6.14, 6.83, 7.17	13.25 (336.6)	10.0 (254) Passenger Side Standard 10.75 (273) Passenger Side Wide Track	42˚	Double Cardan	69.0 (1,752) Standard 70.5 (1,790) Wide Track	CTI, Limited Slip Diff	U	HS
17,000 (7,945) 19,000 (8,626)	MX-17-120 MX-19-140	2.79, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.90, 4.11, 4.33, 4.56, 4.63, 4.88, 5.13, 5.29, 5.57, 5.86, 6.14, 6.43, 6.83, 7.17	15.31 (388.9)	0	35˚	Single Cardan	66.5 (1,689) Standard 68.5 (1,740) Wide Track	CTI, Limited Slip Diff, Diff Lock		
21,000 (9,534)	MX-21-140									
	MX-21-160	3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 5.86, 6.14, 6.43, 6.83, 7.17	18.00 (457.2)					CTI, Diff Lock		
23,000 (10,442)	MX-23-160	4.10, 4.56, 4.89, 5.13, 5.29, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17								

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 Meritor, we're dedicated to rear axle solutions that enhance mobility to give our customers the leading edge. Our wide range of offerings include hypoid single-reduction and helical-hypoid double-reduction axles. All deliver a unique combination of precision engineering, component durability and lightweight options to meet the demands of diverse customer applications.

Features/Options	Performance Benefits
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)	Provide maximum traction and spinout protection under slippery conditions

Hypoid Single-Reduction Axle Specifications

RATINGS pounds (kg)	AXLE MODEL	GCW HIGHWAY pounds (kg) Max. 3% Grade (Turnpike)	GCW HIGHWAY pounds (kg) Max. 8% Grade (Paved)	STANDARD RATIOS	RING GEAR SIZE (PITCH DIAMETER) inches (mm)	AXLE SHAFT SPLINE SIZE inches (mm)	BODY DIAMETER inches (mm)	HOUSING BOX SIZE inches (mm)	WALL THICKNESS AT SPRING SEAT inches (mm)	WHEEL-END SERIES	APPLICATIONS
21,000 (9,534)	RS-21-162	127,000 (57,658)	100,000 (45,400)	2.50, 2.67, 2.80, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17	18.00 (457.2)	2.35 (59.7) 46 Teeth	2.25 (57.2)	5.25 x 4.62 (134 x 117)	0.63 (16.0) Wide Track	R	HS
23,000 (10,433)	RS-23-160								0.43 (11.0) 0.63 (16.0) Wide Track		GS, HS, LH
	RH-23-160			3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17							GS, HS
	RS-23-161			2.50, 2.67, 2.80, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17					0.50 (12.7)		HS
	RS-23-186	140,000 (63,560)	125,000 (56,750)	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, 5.86, 6.14, 6.83, 7.17, 7.83	19.62 (498.3)				0.50 (12.7)		GS, HS, LH, RS
25,000 (11,350)	RS-25-160	127,000 (57,658)	100,000 (45,400)	2.50, 2.67, 2.80, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17	18.00 (457.2)				0.63 (16.0)		GS, HS
26,000 (11,804)	RS-26-185	140,000 (63,560)	125,000 (56,750)	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, 5.86, 6.14, 6.83, 7.17	19.62 (498.3)			5.50 x 5.50 (140 x 140)	0.56 (14.3)	U	GS, HS
	RH-26-185			3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17							GS, HS
	RS-26-185			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, 5.86, 6.14, 6.83, 7.17							GS, HS
30,000 (13,620)	RH-30-185			3.73, 4.10, 4.30, 4.56, 4.89, 5.38, 6.14, 6.83, 7.17							GS, HS, RS
30,000 (13,620)	RS-30-185			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, 5.86, 6.14, 6.83, 7.17					0.56 (14.3) 0.63 (16.0) Wide Track		GS, HS, RS

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.

Helical-Hypoid Double-Reduction Axle Specifications

RATINGS pounds (kg)	AXLE MODEL	GCW HIGHWAY pounds (kg) Max. 3% Grade (Turnpike)	GCW HIGHWAY pounds (kg) Max. 8% Grade (Paved)	STANDARD RATIOS (High/Low Range)	RING GEAR SIZE (PITCH DIAMETER) inches (mm)	AXLE SHAFT SPLINE SIZE inches (mm)	BODY DIAMETER inches (mm)	HOUSING BOX SIZE inches (mm)	WALL THICKNESS AT SPRING SEAT inches (mm)	WHEEL-END SERIES	APPLICATIONS
23,000 (10,4334)	RS-23-380	145,000 (65,830)	125,000 (56,750)	5.52, 6.07, 6.37, 6.75, 7.24, 7.83, 9.14, 10.12, 10.62	19.62 (498.3)	2.35 (59.7) 46 Teeth	2.25 (57.2)	5.25 x 4.62 (134 x 117)	0.50 (12.7))	R	HS, RS
26,000 (11,804)	RS-26-380							5.50 x 5.50 (140 x 140)	0.56 (14.3)		
30,000 (13,620)	RS-30-380								0.56 (14.3) 0.63 (16.0) Wide Track	U	
38,000 (17,252)	RS-38-380					2.55. (64.8) 50 Teeth	2.38 (60.5)	6.50 x 5.50 (165 x 140)	0.66 (17.0) Cast Housing	W	

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 thrive on the toughest, meanest, most demanding jobs. Year after year, Meritor tandems, including the revolutionary 14X, keep delivering the performance. And the goods. With legendary durability. Plus reduced maintenance and operating costs.

14X EXCLUSIVE

Features/Options	Performance Benefits
More robust Inter-Axle Differential (IAD)	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 provides longer life and increased reliability
2.64-7.17 vocation ratio range	Widest ratio range to match your application and specific engine manufacturer's recommendations
DualTrac™ housing option	Effectively respositions the loading on wheel bearings similar to dual tire configurations when used with 0.0"-0.56" outset wheels
Broad range of gear ratios available	Enables end users to choose axles tailored to their needs, whether it be improved fuel economy, greater torque or maximum traction
High-torque gear design	Provides smoother and quieter operation, greater torque capacity and longer component life
Rugged, single-piece carrier design	Supports precise gear alignment
Meritor spindle design	Central Tire Inflation (CTI), system-ready
Amboid gearing options	Minimize driveline angles for increased durability and improved ride quality, and longer overall component life
Optional aluminum rear carrier and SteelLite X30™ brake drum options	Reduce weight to deliver additional payload capacity and greater fuel economy
Lowest-maintenance tandem design available	Extends range up to 500,000 miles between lube changes
Anti-lock braking system (ABS) and Automatic Traction Control (ATC) options	Provide greater braking control, shorter stopping distances and improved traction for both starting and higher-speed driveability
Optional Driver-Controlled Differential Lock (DCDL)	Provide maximum traction and spinout protection under slippery conditions

Hypoid Single-Reduction Axle Specifications

RATINGS pounds (kg)	AXLE MODEL	GCW HIGHWAY pounds (kg) Max. 3% Grade (Turnpike)	GCW HIGHWAY pounds (kg) Max. 8% Grade (Paved)	STANDARD RATIOS	RING GEAR SIZE (PITCH DIAMETER) inches (mm)	AXLE SHAFT SPLINE SIZE inches (mm)	BODY DIAMETER inches (mm)	HOUSING BOX SIZE inches (mm)	WALL THICKNESS AT SPRING SEAT inches (mm)	WHEEL-END SERIES	APPLICATIONS
40,000 (18,160)	MT-40-14X	145,000 (65,830)	125,000 (56,750)	2.64, 3.08, 3.25, 3.36, 3.42, 3.55, 3.70, 3.90, 4.11, 4.33, 4.63, 4.88, 5.29, 5.86, 6.14, 6.43, 6.83, 7.17	15.31 (388.9)	2.10 (53.3) 41 Teeth	1.88 (47.8) 2.00 (50.8)	5.25 x 4.62 (134 x 117)	0.37 (9.5) Std/DualTrac™ 0.43 (11.0) Std/DualTrac 0.50 (12.7) Std Track 0.56 (14.3) Wide Track	R	GS, HS, LH
	RT-40-145			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					0.37 (9.5), 0.43 (11.0) Required for some air suspension, 0.56 (14.3) Wide Track		
	RT-40-145P										
	MT-40-143-MA-N*			2.64, 3.36, 3.55, 3.70			1.88 (47.8)		0.37 (9.5)		
	MT-40-143-MA-N								0.43 (11.0)		
	RT-40-160	185,000 (83,990)	160,000 (72,640)	3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17	18.0 (457.2)	2.35 (59.7) 46 Teeth	2.25 (57.2)		0.43 (11.0), 0.63 (16.0) Wide Track Only Available as RT-46-164 Series		
	RT-40-160P										GS, LH
44,000 (19,976)	MT-44-14X RT-44-145 RT-44-145P	Not Rated	68,000 (30,872) GWR Only	3.70, 3.90, 4.11, 4.33, 4.63, 4.88, 5.29, 5.86 Available on Hypoid Ratios Only	15.31 (388.9)	2.10 (53.3) 41 Teeth	2.00 (50.8)		0.50 (12.7) Standard Track 0.56 (14.3) Wide Track		HS
				3.42, 3.58, 3.73, 3.90, 4.11, 4.33, 4.63, 4.88, 5.29, 5.86							
46,000 (20,884)	RT-46-160P	185,000 (83,990)	160,000 (72,640)	3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17	18.0 (457.2)	2.35 (59.7) 46 Teeth	2.25 (57.2)		0.50 (12.7), 0.63 (16.0) Wide Track Only Available as RT-46-164 Series		GS, LH, RS
	RT-46-164EH RT-46-164P								0.63 (16.0)		
50,000 (22,700)	RT-50-160 RT-50-160P										
52,000 (23,608)	RT-52-185	245,000 (111,230)	215,000 (97,610)	3.73, 4.10, 4.30, 4.56, 4.89, 5.38, 6.14, 6.83, 7.17	19.62 (498.3)			5.50 x 5.50 (140 x 140)	0.56 (14.3)		GS, HS
58,000 (26,332)	RT-58-185 RT-58-380								0.56 (14.3) 0.63 (16.0) Wide Track	U	

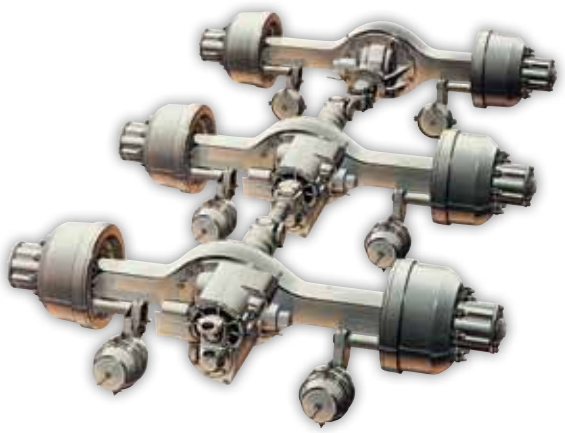
Helical-Hypoid Double-Reduction Axle Specifications

RATINGS pounds (kg)	AXLE MODEL	GCW HIGHWAY pounds (kg) Max. 3% Grade (Turnpike)	GCW HIGHWAY pounds (kg) Max. 8% Grade (Paved)	STANDARD RATIOS	RING GEAR SIZE (PITCH DIAMETER) inches (mm)	AXLE SHAFT SPLINE SIZE inches (mm)	BODY DIAMETER inches (mm)	HOUSING BOX SIZE inches (mm)	WALL THICKNESS AT SPRING SEAT inches (mm)	WHEEL-END SERIES	APPLICATIONS
52,000 (23,608)	RT-52-380	255,000 (115,770)	225,000 (102,150)	5.52, 6.07, 6.37, 6.75, 7.24, 7.83, 9.14, 10.12, 10.62	19.62 (498.3)	2.35 (59.7) 46 Teeth	2.25 (57.2)	5.50 x 5.50 (140 x 140)	0.56 (14.3)	R	HS
58,000 (26,332)	RT-58-380								0.56 (14.3) 0.63 (16.0) Wide Track	U	
70,000 (31,780)	RT-70-380					2.55 (64.8) 50 Teeth	2.38 (60.5)	6.50 x 5.50 (165 x 140)	0.66 (17.0) Cast Housing	W	GS, HS

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 TRIDEM AXLES

Meritor tridem axles are designed for the harshest environments out there. They are ideal for applications requiring more tractive effort than can be provided by a conventional tandem axle–applications like construction, logging, heavy haul and mining.



Features/Options

Performance Benefits

Features/Options	Performance Benefits
Three driving axles versus two axles in a normal tandem set	More even distribution of the available tractive effort to the ground; all three axles are assumed equally loaded at all times
Utilizes Meritor production tandem axles	Parts commonality
Hypoid-Generoid gearing (18" or 19.6")	Longer life, greater strength and quieter operation
Precision-forged differential gears	Durable, greater strength
Optional Driver-Controlled Differential Lock (DCDL)	Provides maximum traction and spinout protection under slippery conditions
Optional pressurized filtered tube system	Virtually eliminates the potential for spinout damage

Meritor Tridem Axle Specifications

RATINGS pounds (kg)	AXLE MODEL	GCW HIGHWAY pounds (kg) Max. 3% Grade (Turnpike)	GCW HIGHWAY pounds (kg) Max. 8% Grade (Paved)	STANDARD RATIOS	RING GEAR SIZE (PITCH DIAMETER) inches (mm)	AXLE SHAFT SPLINE SIZE inches (mm)	BODY DIAMETER inches (mm)	HOUSING BOX SIZE inches (mm)	WALL THICKNESS AT SPRING SEAT inches (mm)	WHEEL-END SERIES	APPLICATIONS
69,000 (31,326)	RZ-166	Consult Meritor Axle Representatives		3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17	Axle 1, 2 & 3: 18.0 (457.2)	2.35 (59.7) 46 Teeth	2.25 (57.2)	Axle 1, 2 & 3: 5.25 x 4.62 (134 x 117)	Axle 1, 2 & 3: 0.62 (16.0)	R	HS
73,000 (33,142)	RZ-186			3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 6.14, 6.83, 7.17	Axle 1: 19.6 (498.3) Axle 2 & 3: 18.0 (457.2)			Axle 1: 5.50 x 5.50 (140 x 140) Axle 2 & 3: 5.25 x 4.62 (134 x 117)	Axle 1: 0.56 (14.3) Axle 2 & 3: 0.62 (16.0))		
77,000 (34,958)	RZ-188				Axle 1, 2 & 3: 19.6 (498.3)			Axle 1, 2 & 3: 5.50 x 5.50 (140 x 140)	Axle 1, 2 & 3: .56 (14.3)		

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 HEAVY-DUTY VOCATIONAL AXLES

Meritor Axle Warranty Coverage

All Meritor axles are backed by Meritor's industry-competitive warranty. And every claim is fully supported by our industry-leading online warranty claims system. For complete details, see meritor.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 seven 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 seven years and/or 1,000,000 Miles – longer than ever before – and up to five 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 that end users trust more than any other for comprehensive heavy-duty vocational 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. If your operation requires the need for long-haul axle solutions, see the Meritor On-Highway Axles brochure (SP-09149).

For more information, call 866-668-7221 or visit meritor.com today.

APPLICATIONS

Linehaul Vehicles

- Auto Hauler
- Bulk Hauler
- Chip Hauler*
- Doubles
- Flatbed
- General Freight
- Grain Hauler
- Livestock Hauler
- Moving Van
- Pipe 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)
- 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
- Mixer
- 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

KPI = in.	(mm)	Drop in.	(mm)	KPI = in.	(mm)	Drop in.	(mm)
10 = 67.5	(1714.5)	2.8	(71.1)	53 = 72.0	(1828.8)	3.7	(95.0)
11 = 68.0	(1727.2)	2.64	(67.1)	55 = 75.8	(1924.1)	6.5	(165.1)
13 = 68.0	(1727.2)	3.7	(95.0)	60 = 60.0	(1524.0)	2.5	(63.5)
16 = 68.0	(1727.2)	3.6	(91.4)	61 = 60.0	(1524.0)	2.8	(71.1)
21 = 69.0	(1752.6)	3.3	(83.8)	62 = 65.2	(1657.1)	3.7	(95.0)
22 = 69.0	(1752.6)	3.5	(88.9)	63 = 65.3	(1657.4)	3.7	(95.0)
23 = 69.0	(1752.6)	3.5/2.0	(88.9/50.8)	67 = 74.5	(1892.3)	8.0	(203.2)
24 = 69.0	(1752.6)	5.0	(127.0)	70 = 74.5	(1892.3)	3.6	(91.4)
30 = 70.4	(1788.2)	10.2	(258.1)	75 = 80.0	(2032.0)	2.5	(63.5)
33 = 71.0	(1803.4)	3.7	(95.0)	85 = 67.5	(1714.5)	2.5	(63.5)
40 = 71.5	(1816.1)	4.7	(118.1)	86 = 67.5	(1714.5)	3.6	(91.4)
43 = 71.5	(1816.1)	3.7	(95.0)	92 = 68.5	(1739.9)	3.5	(88.9)
44 = 71.5	(1816.1)	5.0	(127.0)	94 = 68.5	(1739.9)	5.0	(127.0)
51 = 72.0	(1828.8)	3.3	(83.8)				

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-Interal 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
J = Unitized 70 mm, Integral Tie Rod Arm, Non-Integral Brake

Manufacturing Location

N = N.America
S = S.America
E = Europe
A = Australia/Asia
M = Mysore, India–J.V.

F = Front

M = Meritor

S = Non-Drive Steer Axle

Axle Spec. Number

MFS-xxx-xxxx-xx-xxx

M F S - 1 2 P - 1 2 2 A - N N - 1

GAWR

xx = Typical GAWR[1] in 000s of kilograms or pounds (dependent on unit identifier)

Unit Identifier

K = Kilograms
P = Pounds
(If omitted, default is P)

Beam, King Pin, Bushing Variation

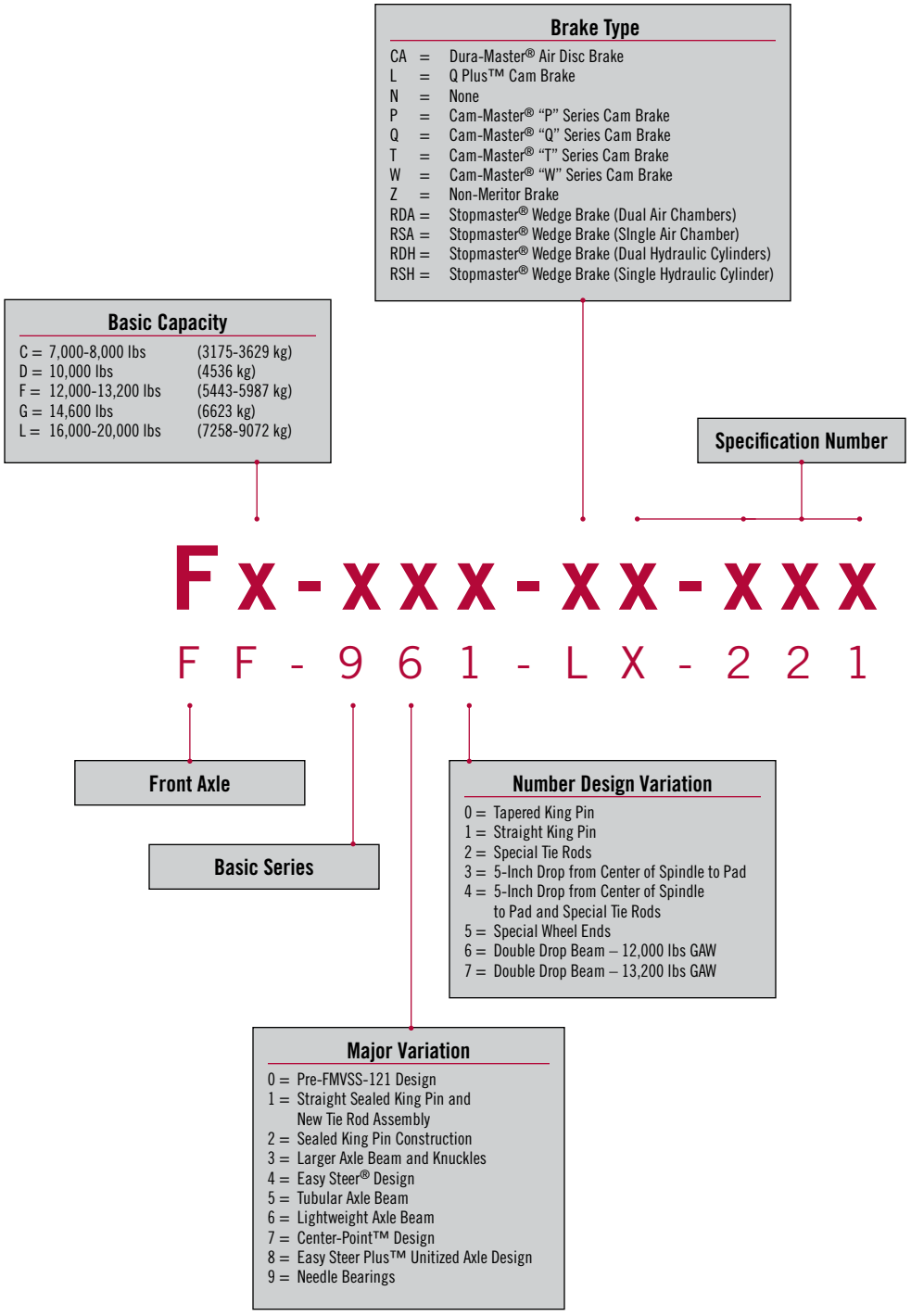
1 = Forged I-Beam, Straight King Pins – Non-Metallic Bushings
2 = Forged I-Beam, Tapered King Pins – Needle Bearings
4 = Forged I-Beam, Straight King Pins – Bronze Bushings
5 = Forged I-Beam, Straight King Pins – Needle Bearings
6 = Formed Beam, Straight King Pins – Non-Metallic Bushings

Brake Type

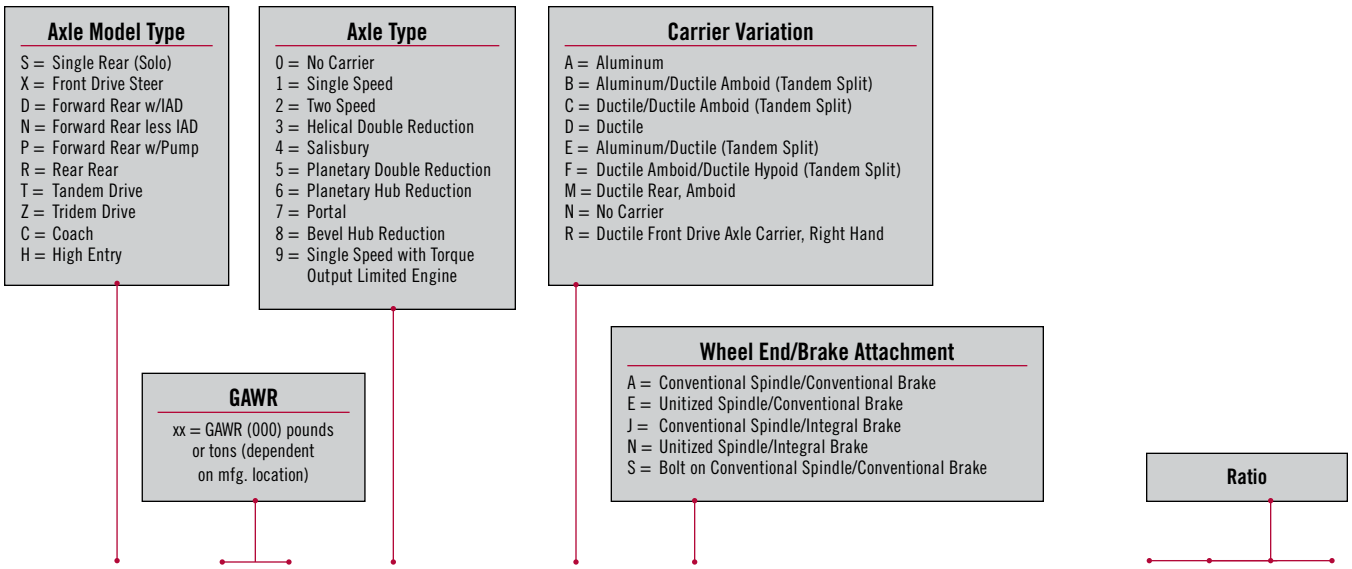
B = "B" Frame Brake
C = Air Disc Brake
D = Wedge Brake (Dual Air Chambers)
E = Wedge Brake (Dual Hydraulic Cylinders)
F = Wedge Brake (Single Hydraulic Cylinder)
G = DuraPark® Hydraulic Drum
H = Quadraulic™ Disc
K = DiscPlus™ Air Disc
L = Q Plus™ Cam Brake
N = None
P = "P" Series Cam Brake
Q = "Q" Series 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

NOTE 1: *For actual GAWR, consult application approval for the axle specification.*

CURRENT NON-DRIVE AXLE MODEL NOMENCLATURE



NEW DRIVE AXLE MODEL NOMENCLATURE



Mx-xx-xxxxxxxxx-xxx-xxxx

MS-21-145DBBNQ-123-355

M = Meritor

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

Housing Wall

0 =	Cast	
1 =	TBD	
2 =	0.31 in	(8 mm)
3 =	0.37/0.39 in	(9.5/10.0 mm)
4 =	0.43 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	

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®

Manufacturing Location
A = Australia/Asia/Africa
E = Europe
N = North America
S = South America
T = Telma Retarder (USA)

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 = Quadraulic™ Disc
K = DiscPlus™ Air Disc
I = 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

Specification Number
Includes: Track, Parking Brake, Other

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

Meritor

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.

Gearing Type
1 = Single Speed
2 = Two Speed
3 = Helical Double-Reduction
4 = Salisbury Single Speed
5 = Planetary Double-Reduction
6 = Hub Reduction

Carrier Type
Carrier size. Larger numbers indicate a higher GCW rated carrier; i.e., larger ring gear, etc. (Also refer to Tridem Axle Note 2 below).

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®

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 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.

Rx-xx-xxxxxxxx-xxx

R R - 2 0 - 1 4 5 N F N N - 1 5 4

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 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.)

Manufacturing Location
A = Australia
B = Brazil
C = India
D = Mexico
E = Europe
N = USA
T = Telma Retarder (USA)

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 = Quadraulic™ Disc
K = DiscPlus™ Air Disc
I = 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

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 "/" 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.*

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or visit meritor.com

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