

# MERITOR® ON-HIGHWAY AXLES



**MERITOR®**

# MERITOR ON-HIGHWAY AXLES

## THE HIGHWAY IS LONG. OUR HISTORY FOR INNOVATION IS LONGER.

For on-highway operations like truckload, less-than-truckload, distribution and leasing, you need components that can take whatever the road dishes out. Mile after mile, year in and year out.

As the world's largest independent manufacturer of commercial truck axles for a broad range of vehicle applications, Meritor axles deliver the performance, reliability and efficiency that today's fleets and end users demand. Plus reduced maintenance and operating costs.



## 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 on-highway 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 on-highway axles features 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 on-highway axle models.

# MERITOR FRONT NON-DRIVE STEER AXLES

Proven Meritor axle leadership has resulted in a broad range of front non-drive steer axles that combine unsurpassed steering control, durability and low maintenance. Everything you need to keep your business moving in the right direction.



## FEATURES/OPTIONS

Offers up to a 55-degree turn-angle capability

Unique Easy Steer bushing technology

Combination of Meritor Easy Steer king pin bushings, computer-designed and optimized I-beam construction and stiff axle assembly

Special low-friction bushings, double draw keys, and integral thrust bearing and seal designs

Wide range of lightweight, full-strength steer axle assemblies for a variety of wheel base lengths, front axle tracks and turn angles

Optional unitized hub with preassembled hub, bearings and seals

Meritor double drop axles feature a large-diameter, heat-treated king pin

## PERFORMANCE BENEFITS

Unsurpassed maneuverability and vehicle stability

Reduces steering effort and increases axle life

Delivers tight, 50-degree turning radius, superior vehicle control and longer tire life

Combine durability, low maintenance and ease of service

Allows customization for specific applications and superior OEM packaging flexibility

Maximizes assembly efficiency for vehicle OEMs

Delivers greater durability and longer life

## 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
6,000 (2,724)	MFS-6-151A-N	3.30 (83.8)	72.0 (1,828.8)	A	GS, HS
	MFS-6-153B-N			B	GS, HS
	MFS-6-153C-N			C	GS, HS
	MFS-6-162B-N		65.25 (1,657.4)	B	GS, HS
	MFS-6-162C-N				GS, HS
7,000 (3,178)	MFS-7-113C-N	3.74 (95.0)	68.0 (1,727.2)	C	GS, HS
	MFS-7-153C-N		72.0 (1,828.8)		GS, HS
	MFS-7-163C-N		62.25 (1,657.4)		GS, HS
8,000 (3,632)	MFS-8-113B-N	3.74 (95.0)	68.0 (1,727.2)	B	GS, HS
	MFS-8-153B-N		72.0 (1,828.8)		GS, HS
	MFS-8-163B-N		65.25 (1,657.4)		GS, HS
10,000 (4,540)	FD-961	3.50 (88.9)	69.0 (1,752.6)	A	HS
	FD-965				GS, HS
	MFS-10-143A-N	3.74 (95.0)	71.5 (1,816.1)		GS, HS, LH
MFS-10-144A-N	5.00 (127.0)	GS, HS, LH			
12,000 (5,448)	MFS-12-143A-N	3.74 (95.0)	69.0 (1,752.6)		GS, HS, LH
	MFS-12-144A-N	5.00 (127.0)			GS, HS, LH
	FF-941	3.50 (88.9)			HS, RS
	FF-943	5.00 (127.0)			HS, RS
	FF-961	3.50 (88.9)			HS, RS
12,500 (5,669)	FF-966	3.5/2.0 (88.9/51.0)	71.5 (1,816.1)		HS, RS
	12.5K*	3.74 (95.0)		GS, LH	
13,200 (5,993)	FF-967	3.5/2.0 (88.9/51.0)	69.0 (1,752.6)	GS, HS	
	FF-942	3.50 (88.9)		GS, HS	
	FF-944	5.00 (127.0)		GS, HS	
	MFS-13-143A-N	3.74 (95.0)	71.5 (1,816.1)	LH, RS	
	MFS-13-144A-N	5.00 (127.0)		LH, RS	
14,600 (6,622)	FG-941	3.50 (88.9)	69.0 (1,752.6)	GS, HS, LH, RS	
	FG-943	5.00 (127.0)		GS, HS, LH, 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.  
 \* Expected to be released for production in September 2012.



# MERITOR SINGLE REAR AXLES

At Meritor, we're dedicated to rear axle solutions that enhance mobility to give our customers the leading edge. Our single rear axles deliver a unique combination of precision engineering, component durability and lightweight options to meet the demands of diverse customer applications.



## FEATURES/OPTIONS

Proven, robust designs combined with high-strength engineered materials

Matched gearing and axle shaft design

Precision-forged differential gears

Wide range of axle configurations and various housing bowl positions

Widest range of gear ratios available

Two-speed hypoid axles available

High-quality, versatile components

Rigid differential cases

Hypoid-Generoid™ gearing options

Lightweight aluminum carrier casting options

Optional Driver-Controlled Differential Lock (DCDL)

## PERFORMANCE BENEFITS

Provide superior performance and proven durability across many different applications

Delivers cost-effective, dependable operation

Provide maximum strength and shock resistance

Allows customization to applications and superior OEM packaging flexibility

Enables users to choose axles suited to their needs for fuel economy, greater torque or maximum traction

Offer additional traction when required

Ensure quiet operation and ease of serviceability

Support precise gear alignment and durability

Provide long life and increased durability

Deliver additional payload capacity and fuel economy

Provide maximum traction and spinout protection under slippery conditions

## HYPOID SINGLE-REDUCTION AXLE SPECIFICATIONS

RATINGS pounds (kg)	AXLE MODEL	GCW HIGHWAY pounds (kg)		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		
		Max. 3% Grade (Turnpike)	Max. 8% Grade (Paved)										
10,000 (4,540)	MS-10-113	26,000 (11,804)		3.07, 3.15, 3.31, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.78, 5.13, 5.38, 5.86, 6.14	11.50 (292.0)	1.54 (39.1) 37 Teeth	1.516 (38.5)	4.49 x 3.42 (114 x 87)	0.37 (9.5)	C	GS, HS		
11,000 (4,994)	MS-11-113												
12,000 (5,448)	MS-12-113												
13,000 (5,902)	RS-13-120	40,000 (18,160)		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)	1.75 (44.5) 34 Teeth	1.62 (41.1)	4.25 x 3.81 (108 x 97)	0.43 (11.0)	F			
15,000 (6,810)	RS-15-120												
17,500 (7,945)	RS-17-144	50,000 (22,700)		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	15.31 (388.9)	2.10 (53.3) 41 Teeth	1.88 (47.8)	5.25 x 4.62 (134 x 117)	0.37 (9.5) 0.56 (14.3) Wide Track	R			
	RS-17-144A												
	RS-17-145 <sup>7</sup>									2.00 (50.8) 39 Teeth		0.37 (9.5)	L
	RS-17-145A												
19,000 (8,626)	RS-19-144	60,000 (27,240)		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	15.31 (388.9)	2.10 (53.3) 41 Teeth	1.88 (47.8) 2.00 (50.8) (3)	5.25 x 4.62 (134 x 117)	0.37 (9.5) 0.56 (14.3) Wide Track	R			
	RS-19-144A												
	RS-19-145 <sup>7</sup>									2.00 (50.8) 39 Teeth	0.37 (9.5)	L	
	RS-19-145A <sup>7</sup>												
21,000 (9,534)	MS-21-144 MA-N	60,000 (27,240)		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	15.31 (388.9)	2.10 (53.3) 414 Teeth	1.88 (47.8) 2.00 (50.8) (3)	5.25 x 4.62 (134 x 117)	0.43 (11.0) 0.56 (14.3) Wide Track	R			
	RS-21-145												
	RS-21-145A												
23,000 (10,433)	RS-21-160	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)	2.35 (59.7) 46 Teeth	2.25 (57.2)	5.25 x 4.62 (134 x 117)	0.43 (11.0) 0.63 (16.0) Wide Track	R	GS, HS, LH		
	RS-23-160												
	RH-23-160												
	RS-23-161 <sup>1,2</sup>												
	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)	0.56 (14.3)	GS, HS, LH, RS						

## HYPOID TWO-SPEED AXLE SPECIFICATIONS

21,000 (9,534)	RS-21-230 <sup>1</sup>	60,000 (27,240)	4.56/6.36, 4.88/6.80, 5.38/7.50, 5.86/8.17, 7.17/10.0	16.0 (406.4)	2.00 (50.8) 39 Teeth	1.88 (47.8)	5.25 x 4.62 (134 x 117)	0.43 (11.0)	R	GS, HS
23,000 (10,442)	RS-23-240 <sup>1</sup>	70,000 (31,780)	4.10/5.59, 4.30/5.86, 4.56/6.21, 4.88/6.65, 5.57/7.60, 6.14/8.38, 7.17/9.77	17.0 (431.8)	2.10 (53.3) 41 Teeth	2.00 (50.8)		0.50 (12.7)		

**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.

<sup>1</sup> Central tire inflation (CTI) system compatible.

<sup>2</sup> Available with optional TELMA retarder mounted to the axle for certain approved applications. Refer to Meritor product profile TP-9482. To obtain this publication, call OnTrac at 866-668-7221.

# 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 evolutionary 14X, keep delivering the performance. And the goods. With legendary durability. Plus reduced maintenance and operating costs.



## 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
Premium Amboid™ design now standard	Reduces inter-axle driveline U-joint angularity; less vibration and increased ride quality and overall component life
The most complete range of ratios in the industry	New 2.47 – the fastest axle ratio in the industry and the most efficient solution for direct drive customers; 2.47-7.17 – widest ratio range to match specific engine manufacturer's recommendations
DualTrac™ housing option	Effectively repositions 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

14X EXCLUSIVE



## HYPOID SINGLE-REDUCTION AXLE SPECIFICATIONS

RATINGS pounds (kg)	AXLE MODEL	GCW HIGHWAY pounds (kg)		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		
		Max. 3% Grade (Turnpike)	Max. 8% Grade (Paved)										
34,000 (15,436)	MT-34-14X	80,000 (36,3200)	80,000 (36,3200)	2.47, 2.64, 3.08, 3.25, 3.36, 3.42, 3.55, 3.70, 3.90, 4.11 Optional Ratios Available*	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 0.56 (14.3) Wide Track	R	GS, HS, LH		
	RT-34-144			2.64, 2.79, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.90, 4.11, 4.33, 4.63 Optional Ratios Available					0.37 (9.5), 0.56 (14.3) Wide Track		GS, HS, LH		
	RT-34-144P			2.79, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.90, 4.11, 4.33, 4.63 Optional Ratios Available							GS, HS, LH		
	RF-34-144A (Aluminum Carriers)										GS, HS, LH		
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	18.0 (457.2)	2.35 (59.7) 46 Teeth	2.25 (57.2)	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								0.37 (9.5), 0.43 (11.0) Required for some air suspensions, 0.56 (14.3) Wide Track		GS, HS, LH		
	RT-40-145P			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							GS, HS, LH		
	RT-40-145A (Aluminum Carriers)										GS, HS, LH		
	MT-40-143- MA-N*								2.64, 3.36, 3.55, 3.70		1.88 (47.8)	0.37 (9.5)	GS, HS, LH
	MT-40-144- MA-N											0.43 (11.0)	GS, HS, LH
	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
44,000 (19,976)	MT-44-14X	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)	5.25 x 4.62 (134 x 117)	0.50 (12.7) Standard Track 0.56 (14.3) Wide Track	R	HS		
	RT-44-145			3.42, 3.58, 3.73, 3.90, 4.11, 4.33, 4.63, 4.88, 5.29, 5.86							HS		
	RT-44-145P										HS		
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)	5.25 x 4.62 (134 x 117)	0.50 (12.7), 0.63 (16.0) Wide Track Only Available as RT-46-164 Series	R	GS, LH, RS		
	RT-46-164EH								0.63 (16.0)		GS, LH, RS		
	RT-46-164P										GS, LH, 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.

# MERITOR ON-HIGHWAY 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](http://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 fleet owners and end users trust more than any other for comprehensive 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. For details on our heavy-duty vocational axles, see the Meritor Heavy-Duty Vocational Axles brochure (SP-09150).

For more information, call 866-668-7221 or visit [meritor.com](http://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

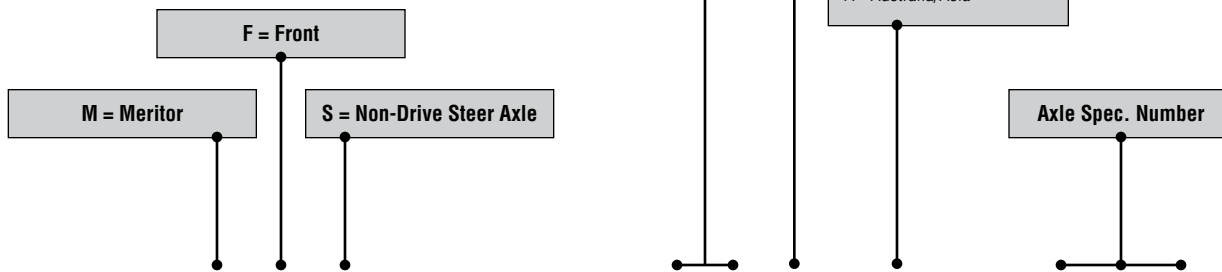


# NEW FRONT NON-DRIVE AXLE MODEL NOMENCLATURE

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

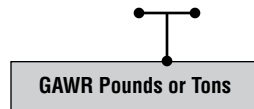
Hub, Tie Rod Arm, Brake Attachment Variation
A = Conventional, Non-Integral Tie Rod Arm, Non-Integral Brake
B = Conventional, Integral Tie Rod Arm, Non-Integral Brake
C = Conventional, Integral Tie Rod Arm, Integral Disc Brake
D = Unitized 65 mm, Integral Tie Rod Arm, Integral Drum Brake
E = Conventional, Integral Tie Rod Arm, Integral Drum Brake
F = Unitized 60 mm, Non-Integral 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

Manufacturing Location
N = N.America
S = S.America
E = Europe
A = Australia/Asia



**MFS - X X - X X X X - X X - X X X**

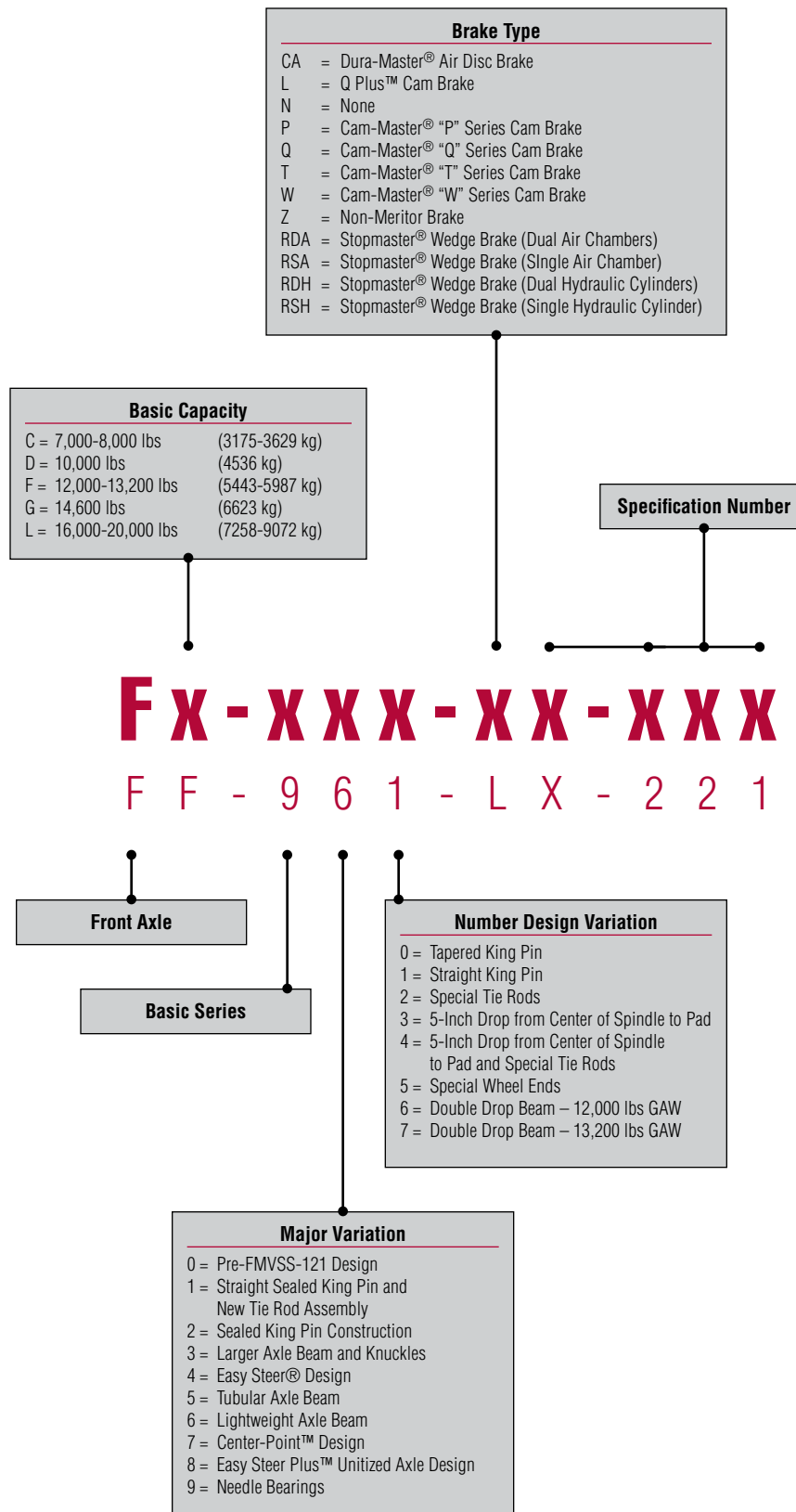
M F S - 1 2 - 1 2 2 A - N N - 1



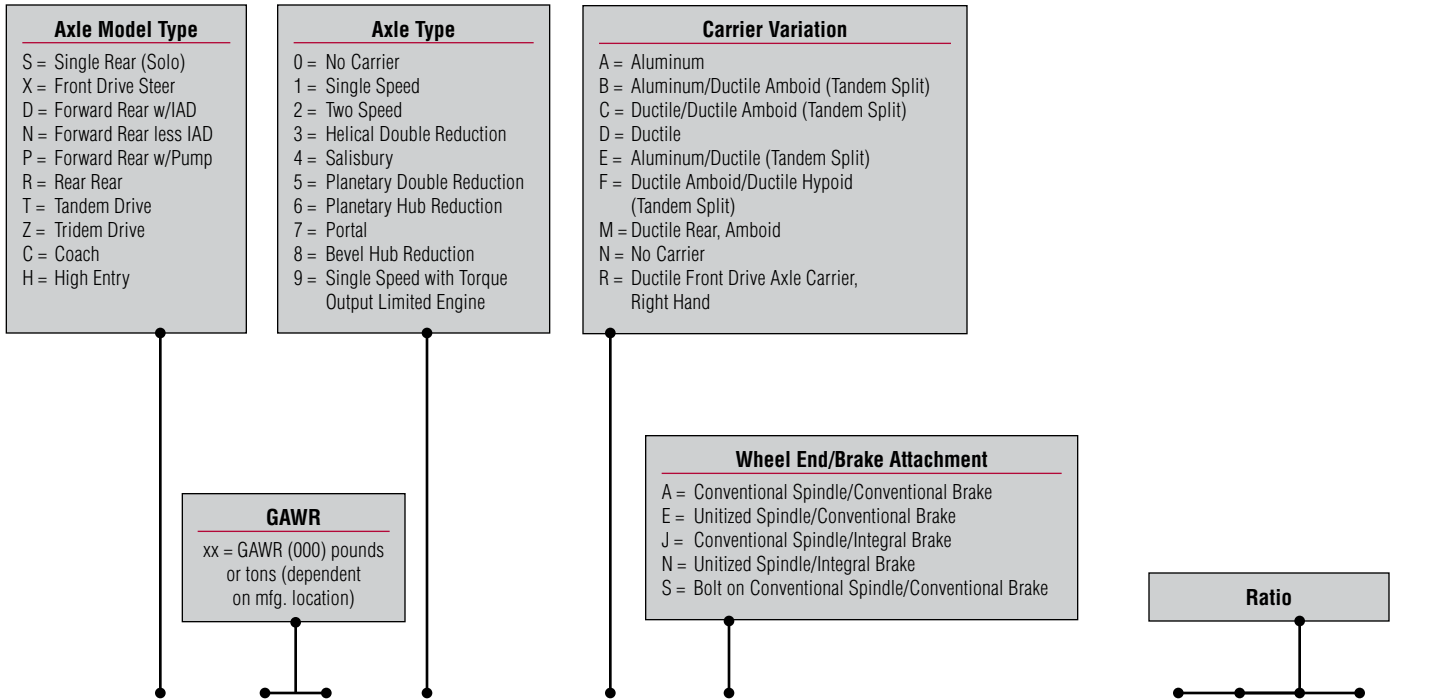
Beam, King Pin, Bushing Variation
1 = Forged I-Beam, Straight King Pins – Non-Metallic Bushings
2 = Forged I-Beam, Tapered King Pins – Needle Bearings
4 = Forged I-Beam, Straight King Pins – Bronze Bushings
5 = Forged I-Beam, Straight King Pins – Needle Bearings
6 = Formed Beam, Straight King Pins –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

# CURRENT NON-DRIVE AXLE MODEL NOMENCLATURE

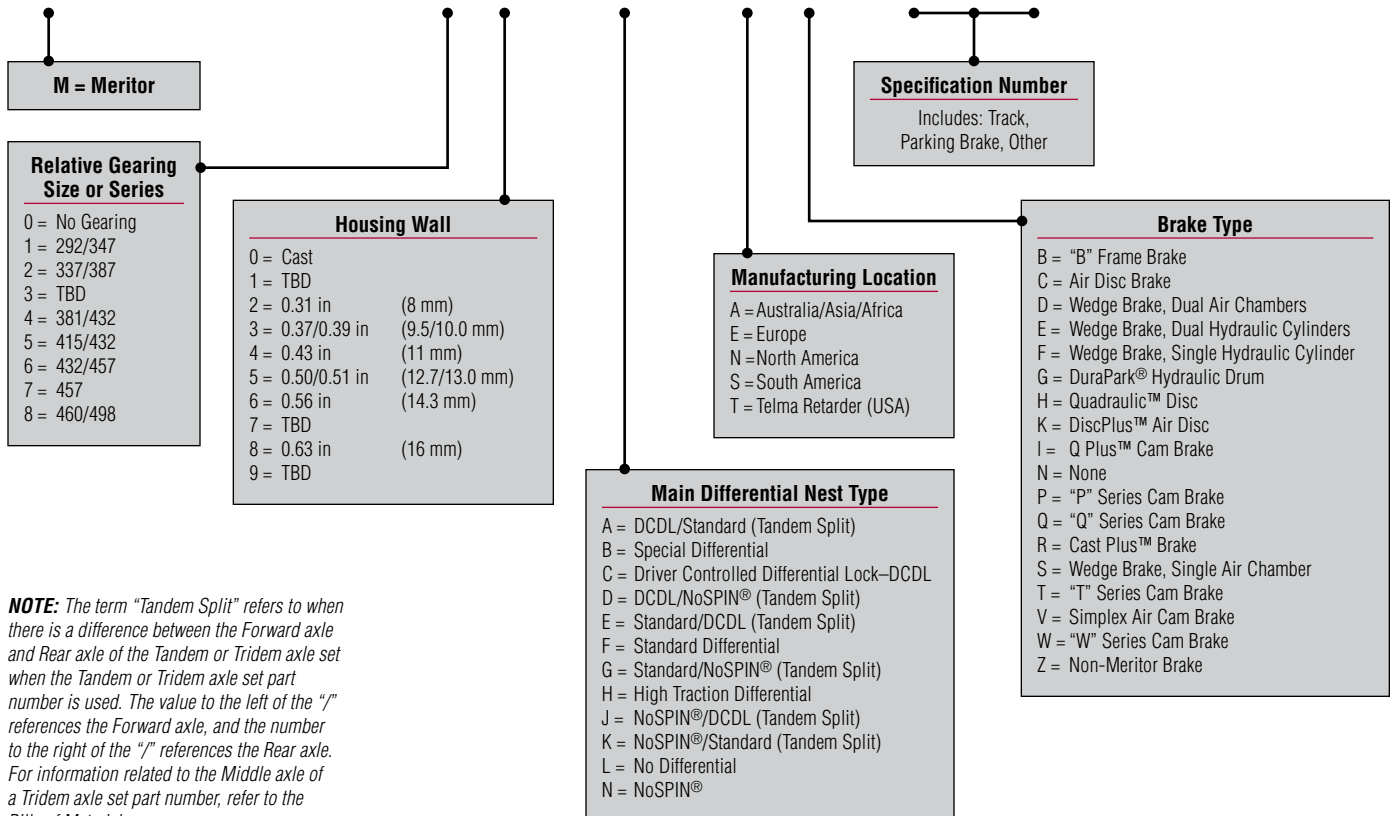


# NEW DRIVE AXLE MODEL NOMENCLATURE



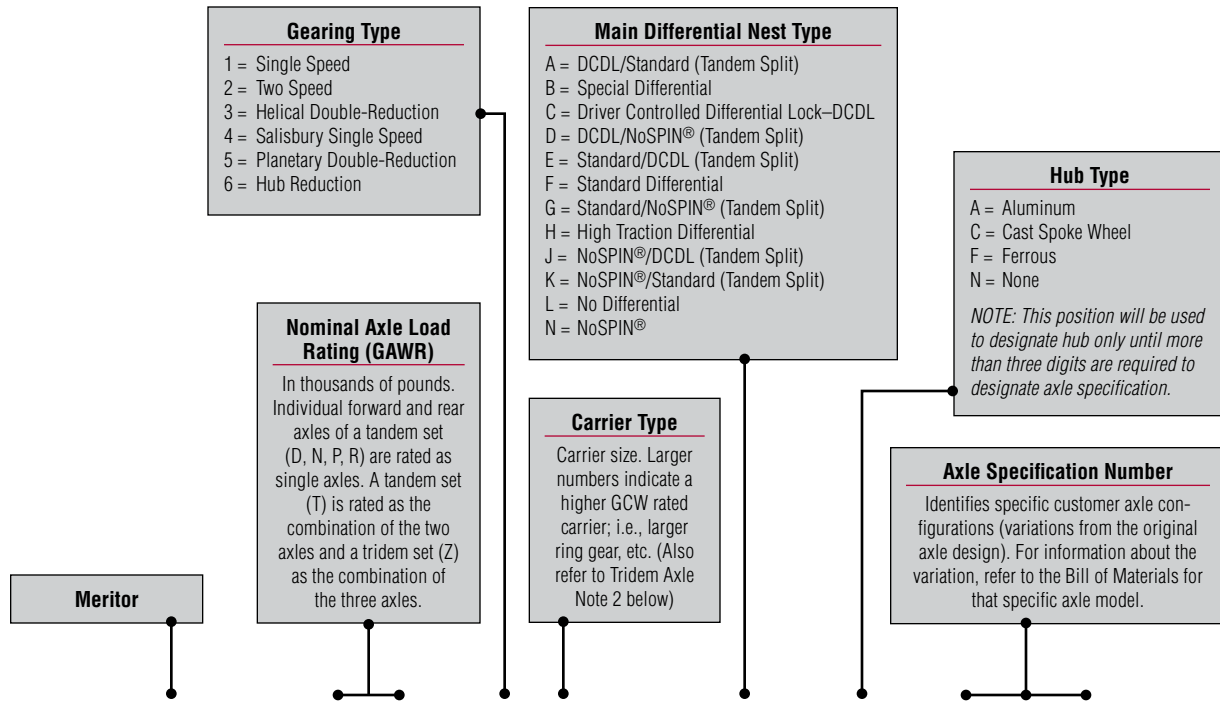
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M S - 2 1 - 1 4 5 D B B N Q - 1 2 3 - 3 5 5



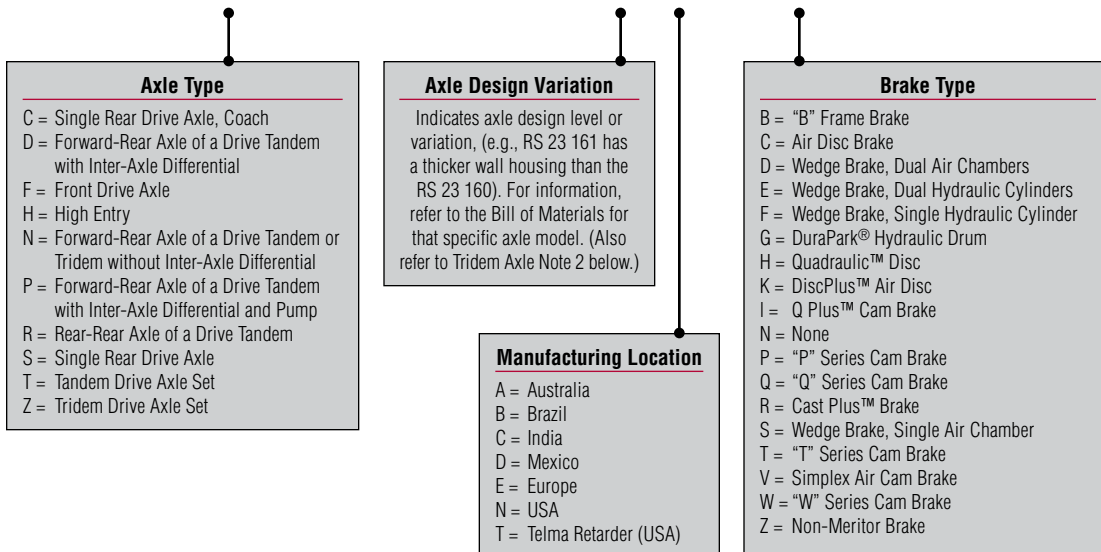
**NOTE:** The term "Tandem Split" refers to when there is a difference between the Forward axle and Rear axle of the Tandem or Tridem axle set when the Tandem or Tridem axle set part number is used. The value to the left of the "/" references the Forward axle, and the number to the right of the "/" references 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



**R X - X X - X X X X X X - X X X**

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



**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 Gear, 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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