

Medium-Duty Solutions



Performance Advantages:

- Rich 100-year legacy in design and development of commercial vehicle technologies
- Comprehensive line-up of technologies designed specifically for the medium-duty market
- Offer design/development for integration of components into modules and systems as needed for specific customer applications
- Unparalleled aftermarket support including over 115,000 active part numbers, including all-makes and proprietary brands
- Industry-leading customer support that includes highly-experienced customer service teams, troubleshooting and unit-down assistance and 24/7 online product information

Medium-Duty Solutions

A Wide Range of Solutions for a Variety of Vocations

Commercial Vehicle Leadership

ArvinMeritor has been a provider of components to the transportation industry for 100 years. We hold the number one or number two positions in the Class 8 truck and trailer markets in North America, making our drivetrain products the most spec'd by dealers and fleets.

Now, ArvinMeritor is stronger than ever in the medium-duty market with a comprehensive lineup of axles, brakes, transfer cases, control systems, emissions technology, drivelines and anti-lock brake systems. What's more, this broad range of products can be spec'd for a variety of vocations. Whether the application is a city delivery truck, emergency vehicle, beverage truck, school bus, light wrecker, utility truck or a motor home, we have the products that will meet your needs.

Engineering Focused

From start to finish, we work closely with medium-duty vehicle Original Equipment Manufacturers (OEMs). Our product offering continues to grow, because OEMs believe there's a benefit to partnering with ArvinMeritor. Product durability, innovation and technological solutions are just a few of those advantages. Equally important is our continued dedication to the product development process. That process enables our engineers to design components and systems that provide solutions to address cost, maintenance and quality issues — all of which are extremely important to the medium-duty truck industry.

No other supplier can offer the complete depth and breadth of axles, brakes, wheel ends and stopping systems that ArvinMeritor does. With a lineup like that, ArvinMeritor is positioned to continue the integration of components into systems and modules, offering real value for our OEM, dealer, fleet and truck owner customers.

Commercial Vehicle Aftermarket

- ArvinMeritor's Commercial Vehicle Aftermarket provides parts and services to a network of 5,000 independent distributors, OEMs and OEM dealers in North America
- Portfolio extends across 20 product lines, featuring OEM-quality aftermarket repair parts
- Growing line of remanufactured products, including differentials, carriers, and brake shoes
- OEM-quality "all-makes" product line
- XpresswayPlus.com offers an extensive list of e-business solutions, making parts ordering and inventory more convenient
- Established brands in Meritor®, Euclid®, Gabriel®, and Meritor WABCO



Customer Service Center

800.535.5560

- Well-trained customer service representatives
- Technical information
- Troubleshooting support
- Product literature
- Unit down assistance and warranty coverage information
- Online services for product information, literature library and company news at www.arvinmeritor.com



Front Non-Drive Axles

6,000 – 10,000 lb. Ratings

- Up to 55-degree turn angle improves maneuverability
- Easy Steer™ kingpin bushings and thrust bearings reduce steering effort and prolong bushing life
- Reduced scrub radius improves vehicle stability
- Integral tie rod and torque plate on 6,000 and 7,000 lb. models reduces weight and eliminates joints
- Integral tie rod on 8,000 lb. model reduces weight



Front Non-Drive Steer Axle



MS-113 Rear Drive Axle



RS-120 Rear Drive Axle

Single Rear Drive Axles

MS-113 10,000 – 12,000 lb. Ratings

- 11.5 inch hypoid generoid gearing
- Banjo housing design provides maximum strength with minimal weight and simplifies service
- Integral pinion cage helps eliminate potential leak paths
- Integral carrier leg and cap improves joint integrity and simplifies service

RS-120 13,000 – 15,000 lb. Ratings and RS-145 17,000 – 21,000 lb. Ratings

- 13.5 inch hypoid generoid gearing – RS-120 models
- 15.3 inch hypoid generoid gearing – RS-145 models
- Single piece carrier design provides fewer joints
- Bolted ring gear attachment provides greater joint strength and integrity
- Rigid design differential case provides excellent gear alignment and durability
- Optional driver-controlled differential lock for maximum traction



113 Series Gearing

120 Series Gearing

145 Series Gearing

Front Drive Axles

MX-120 10,000 – 12,000 lb. Ratings

- Inverted 120 series carrier loads hypoid gearing on the stronger side
- 283 mm pinion offset for easier OEM packaging
- 42 degree capable double-cardan joints improve maneuverability
- Seven-degree inclined kingpins with Easy Steer™ bushings improve high speed vehicle stability, steering returnability and reduce steering effort
- Limited slip differential improves tractive effort on slippery surfaces
- Straight cross-tube with easy toe adjustment reduces maintenance costs

MX-10/12/14/16-120



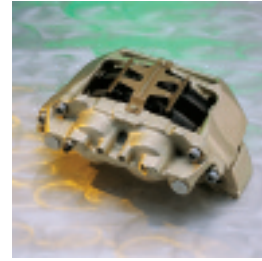
Hydraulic Brakes

B-Frame Brake

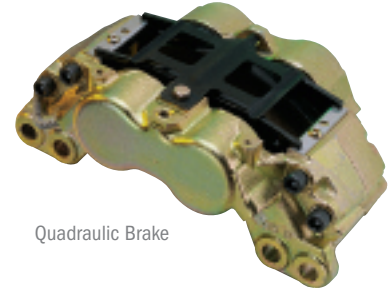
- Twin-piston pin slider caliper design
- Available with 54 mm, 58 mm, 60 mm and 68 mm piston diameters
- Fits into 16-inch, 17.5-inch and 19.5-inch wheel configurations
- Rated up to 18,000 lbs. Gross Vehicle Weight (GVW)
- Radial pad removal allows easier servicing
- Identical inner and outer pads reduce installation errors and parts inventory

Quadraulic Brake

- Industry's only four-piston fixed caliper design
- Available in 64 mm and 70 mm piston diameters covering medium-duty truck braking up to 33,000 lbs. Gross Vehicle Weight Ratio (GVWR)
- Improved brake life and fuel economy
- Reinforced shoe plate with bonded friction material increases pad strength
- Radial pad removal allows easier servicing
- One rotor and pad configuration for both caliper sizes reduces parts inventory



B-Frame Brake



Quadraulic Brake

Air Brakes

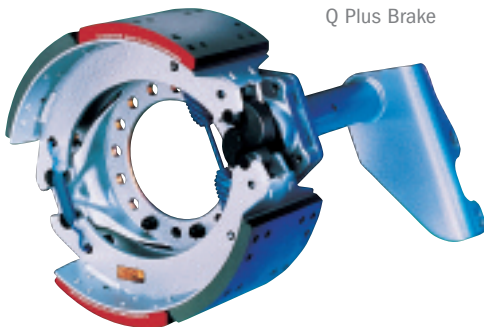
Q Plus Brakes

- Available in 15" x 4", 15" x 5", 15" x 6", 15" x 7", and 16.5" x 7" sizes
- Industry-standard brake design provides greater parts availability

- Parts commonality between ArvinMeritor's steer and drive axle brakes reduces part inventories
- Patented double anchor pin design ensures that maximum wear occurs at point of maximum lining thickness
- Improved camshaft bushing material increases service life
- Patented quick-change shoes allow for fast, easy brake re-lines

Hubs, Drums and Rotors

- A complete line of ductile iron hubs and machined rotors
- All products meet or exceed SAE, TMC, TTMA and CTEA requirements/standards



Q Plus Brake



Hubs



Drums



Rotors

Transfer Cases

MTC-4210

- Optimized output shaft placement and counter-rotation features deliver superior performance
- Ground helical gearing in both high and low ranges offers quiet, high-speed operation with increased durability
- Advanced lubrication system using a bi-directional forced lube pump, full synthetic lube, unitized seals, sump magnets and large sump capacity
- Integral, air-actuated front axle declutch with optional engagement/disengagement sensors; minimizes transfer case size and weight; increases declutch durability
- Air-actuated, three position range shifting with neutral allows easy shifting into all positions

MTC-4210



Brake and Clutch Control Systems

Meritor WABCO Air Compressors

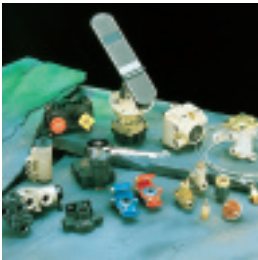
- Air output rating of 18.7 cfm
- Up to 90 percent lower oil consumption, extends air system component life
- Reduced discharge temperatures

Meritor WABCO System Saver Air Dryers

- Single-, extended- and dual-cartridge designs available to meet a variety of truck and vocational applications
- Premium desiccant for increased adsorption capacity and extended cartridge life
- Spin-on cartridge design for convenient, easy maintenance and reduced downtime
- Compact, lightweight design

Brake Control Valves

- Complete product line of pneumatic valves and components
- Composed of die cast aluminum and engineered-grade composite technology
- Corrosion-resistant for more consistent performance
- Push-to-connect fittings and standard NPT ports allow installation flexibility



Valve Family

Pneumatic ABS

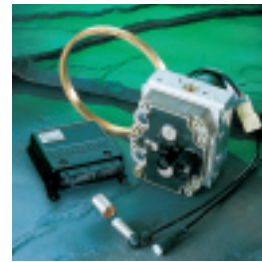
- Available in 4S/4M and 6S/6M configurations
- Provides improved vehicle control under extreme conditions
- Electronic Control Unit (ECU) available in cab- and frame-mount configurations for added flexibility
- Automatic Traction Control (ATC) option available for improved traction during adverse road conditions

Hydraulic ABS

- Available in 4S/4M configuration
- Provides improved vehicle control under extreme road conditions
- Compact cab- or frame-mount Electrical Control Unit (ECU) available to meet a variety of application requirements

Hydraulic Clutch Control System

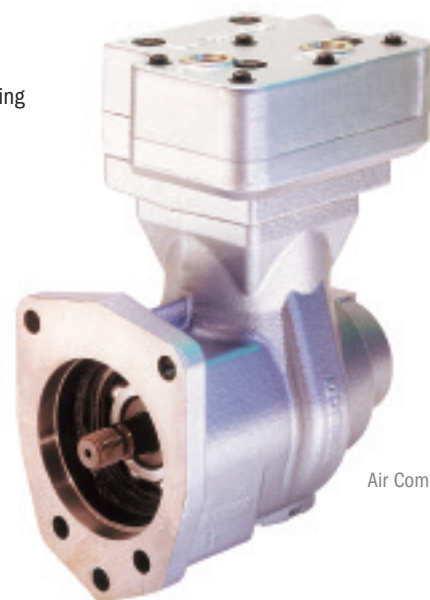
- The first complete medium-duty hydraulic system to be offered from one supplier
- Reduces pedal effort and noise by replacing mechanical clutch linkages with hydraulic hosing
- System offers installation flexibility as hosing requires less clearance than mechanical linkages



Pneumatic and Hydraulic ABS



Hydraulic Clutch Control System



Air Compressor

Suspension Controls

Electronic Leveling Module (ELM)

- Electronically senses and controls air suspension, supplying air only when needed
- Offers optimum control of ride height with minimal parasitic compressor load on engine
- Automatically returns suspension to optimum ride height, resulting in optimized driveline operating angles
- Suspension raised and lowered by means of dash-mounted switch or optional remote control



Drivelines

RN Series U-Joint

- Glass-reinforced thrust washer eliminates end galling, absorbs metallic debris and accommodates varying yoke dimensions while retaining rollers
- Superior bearing package includes innovative needle-retention design
- Triple-lip seals keeps lubrication in and contaminants out
- Precision-ground, large diameter trunnions reduces contact stress for increased life

RPL20 Driveline

- Industry's only permanently lubricated driveline
- Factory-sealed U-joints ensure a reliable connection
- Includes permanently assembled and greased slip section splines
- Large, heat-treated splines for longer life

155/16N/17N

Series Drivelines

- Self-aligning center bearing allows multiple driveline operating angles, which reduces hanger bracket inventory
- Accommodates all slip requirements
- High-strength prop-shaft-grade tubing
- Long spline length minimizes wear
- High-speed balancing provides smooth operation with high RPM drivetrains

155 Series Driveline

Parking Brakes

DCM 10 x 3 and 12 x 4 Configurations

- Mounted at the transmission or axle
- Lightweight rugged construction providing increase braking capacity per pound
- Simple, external linkage adjustment providing easier, faster maintenance when required

- Central mounting reduces overhang and minimizes bending stress on the supporting member
- Cam and lever construction (simplified application actuation) minimizes input force losses
- Available in 10 x 3 and 12 x 4 brake sizes to provide 20 percent grade holding capability for 31,000 lb. GVW vehicles



10 x 3 Parking Brake

Shocks

Ride Management Solutions

- ArvinMeritor has nearly a century of engineering and product innovation tied to the management of vehicle ride. We provide unparalleled expertise to deliver the "right" solution for our commercial vehicle customers
- Gabriel® shock absorbers are engineered using leading-edge technology and offer exceptional quality and performance
- Application-specific designs to achieve the desired vehicle ride characteristics
- Gabriel® shocks are the choice of leading manufacturers



Gabriel® Shock Absorbers



ArvinMeritorTM

Meritor Heavy Vehicle Systems, LLC
2135 West Maple Road
Troy, Michigan 48084 USA
800-535-5560
www.arvinmeritor.com

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