


the industry's world leader for more than 60 years

ArvinMeritor has been a leader in the design and manufacture of trailer components since 1930. In fact, ArvinMeritor is the world's largest manufacturer of trailer axles and brakes. In North America alone, we have produced over 8,000,000 trailer axles. Over 50 different trailer axle models are available to fit heavy truck trailer applications ranging from dry freight vans to liquid tanks, from bulk transporters to platform trailers, and from dump trailers to container chassis.

But ArvinMeritor's trailer products leadership does not stop in North America. ArvinMeritor is the only trailer components manufacturer with a major presence in the world's two largest commercial vehicle markets — North America and Europe. ArvinMeritor's operations in Wrexham, North Wales, is a leading manufacturer of trailer axles, air suspensions and complementary products in the United Kingdom and continental Europe, with capacities ranging from 8 tonnes to 15 tonnes, covering all specifications to suit all trailer applications.

And we don't stop there. ArvinMeritor products are sold on trailers throughout Mexico, South America, the Middle East and the Pacific Rim. In fact, ArvinMeritor is South America's largest trailer axle and brake manufacturer.

But how does a company become a global leader? There must be a reason why more customers specify Meritor trailer components over any other.



State-of-the-Art Engineering and Manufacturing

It begins with the engineering and manufacturing processes. ArvinMeritor's trailer products incorporate features designed to maximize quality, increase life and minimize maintenance.

ArvinMeritor's trailer products are engineered to be lighter weight, helping to maximize payload capacity. Tractor and trailer brake parts are designed for interchangeability to reduce parts inventories.

The most popular trailer axle models feature lightweight integral spindles that are actually formed from the axle tube, contributing to exceptional strength and trueness of wheel end alignment. Bearing journals are induction-hardened for added strength and wear resistance.

ArvinMeritor's exclusive stamped steel brake spiders, offering an excellent strength-to-weight ratio, are welded to the axle to ensure proper brake operation. Chamber and camshaft brackets are robotically welded for accurate axle alignment. For added strength, camshafts are induction-hardened, as well as contact points at cam and anchor ends of brake shoes.

Quality Excellence

Because of its ongoing commitment to Total Quality Control, ArvinMeritor's trailer product manufacturing processes are subjected to stringent quality control methods. Through a process known as Operator Process Control, machining tolerances and forming operations are individually checked by employees at virtually every stage in the manufacturing process. Two on-site coordinate measuring machines ensure finished

dimensions meet ArvinMeritor standards. Finally, from initial concept development to product launch, ArvinMeritor enforces Quality Function Deployment in which customer needs are analyzed to ensure the necessary technical features and functions are built into the product.

Genuine OEM Quality Aftermarket Parts

ArvinMeritor supplies a network of more than 5,000 independent distributors and OEM truck and trailer dealers in North America with genuine OEM quality aftermarket parts. ArvinMeritor aftermarket parts are subject to the same quality standards and testing as original equipment components to ensure original vehicle performance requirements.



ArvinMeritor is committed to serving global customers with high-quality trailer components.



ArvinMeritor is an industry leader, domestically and abroad.

trailer axles for a wide range of vocations and applications

TN Series Axles — The Industry Leader

This economical, standard-use axle is suitable for a wide range of vocational applications.

The Meritor® TN Series axles feature integral spindles, induction-hardening of critical areas, such as both bearing journals, and integral stamped brake spiders. These design innovations save weight, improve durability — and add to your bottom line.

The economic advantages are further improved when Meritor Q or Q Plus™ “quick-change” brakes and automatic slack adjusters are added to the TN axle.

TQ Series Axles — Extra-Heavy-Duty

Meritor TQ axles are designed specifically to endure the severe torsional forces produced by air ride suspensions, and increased downward pressure exerted by heavier-than-normal cargos. The TQ axle wall is thicker than a TN or 4000 Series TP axle to withstand the twisting stress caused by roll inputs from trailing arm ride suspensions.

In addition, ArvinMeritor's long-life, easy-to-service bolt-on bushing assembly is standard on the TQ Series. TQ axles set the standard for lightweight extra-heavy-duty axles.

TP Series Axles — For Maximum Interchangeability

The TP axle delivers Meritor quality, along with compatibility with the Fruehauf™/Pro-Par™ type wheel end, to reduce parts inventories.

Meritor TP axles' inner and outer axle bearings are the same size, and most brake parts are interchangeable with those featured on Meritor drive axles. This further simplifies service parts requirements and generates even more savings for your fleet.

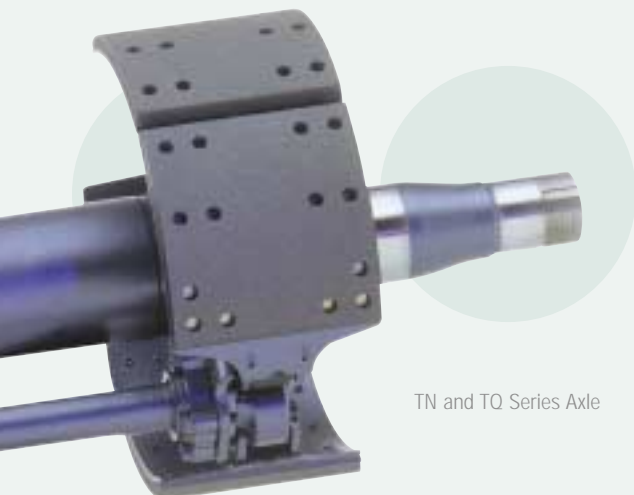
The standard brakes on the TP axle are ArvinMeritor's popular Q Series, which can be changed in two minutes or less, with no tools. For longer service intervals, ArvinMeritor's Q Plus™ brakes can be

specified for increased lining thickness. And, Meritor automatic slack adjusters can be added to keep the brakes in proper adjustment.

The high quality and reliability of Meritor trailer axles, combined with inventory cost reduction, are two bottom-line reasons to use Meritor TP axles.

Meritor® TRIAD™ Wheel-End System Maintenance-Free* for 3-Years/300,000-Miles

TRIAD systems incorporate new-generation, high-performance seals, anti-back-off washers and even a patented installation technique, all designed to minimize seal failure and extend wheel-end life. Innovative components, conceived and developed by ArvinMeritor engineers, allow TRIAD to vent internal wheel-end pressures and achieve proper bearing preload.



TN and TQ Series Axle



TB series trailer axles with unitized hubs



TL series axles with cartridge bearing



TRIAD axle system features high performance seals



TP Series Axle

Meritor TL Series Axles with Cartridge Bearing Wheel-End System

Maintenance-Free* for 5-Years/500,000-Miles

This Cartridge Bearing hub assembly is pre-loaded to bear half-a-million miles between services. A superior solution for high-mileage applications, backed by an exceptional warranty.

New seals, bearings and a specially formulated grease are preloaded into a TL Series wheel end, effectively replacing several individual components found in most conventional wheel-end systems.

The TL hub assembly components feature wear-resistant materials and high-precision manufacturing, resulting in superior performance in 20,000-pound applications.

Meritor® TB Series Unitized Hub Assemblies

Maintenance-Free* for 7-Years/750,000-Miles

Every component, feature and material incorporated in the Meritor TB Series unitized wheel end has one mission: to minimize maintenance. And, the TB is backed by a warranty unsurpassed in the trailer industry.

The fully unitized design allows for the tightest bearing adjustment tolerance in the business, and high-grade bearing steel construction eliminates the need for separate bearing cups. TB Series units are assembled in a controlled, ultra-clean environment to ensure contaminant-free performance, and are factory-set for the ideal pre-load to extend wheel-end life.

Permanently sealed and lubricated, such a TB hub recovered after 876,000 miles in a linehaul application was disassembled and discovered to be in "like new"

condition, with inboard inner ring, rollers and seal showing no evidence of distress.

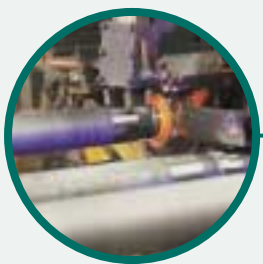
Minimizing trailer downtime and eliminating adjustment and maintenance guesswork are just some of the reasons ArvinMeritor's industry-first TB axle system is a standout among the competition.

"Buttoned-Up" Axles — Including Hubs, Drums, Brakes and Bearings

Every Meritor trailer axle is available as a "buttoned-up" axle — either QH (with Q brakes) or LH (with Q Plus™ brakes) for single-source quality and convenience. With these axles, all wheel-end components are either designed and manufactured by ArvinMeritor, or purchased according to ArvinMeritor's exacting specifications.

Whether you specify ArvinMeritor's exclusive Meritor Lite™ hub and SteelLite X30™ drum design or other components, QH and LH buttoned-up axles take the assembly time and warranty hassles out of the OEM's hands.

* Still requires annual inspections, in conjunction with normal trailer maintenance schedules.



Bearing journals are induction-hardened for added strength and wear resistance.



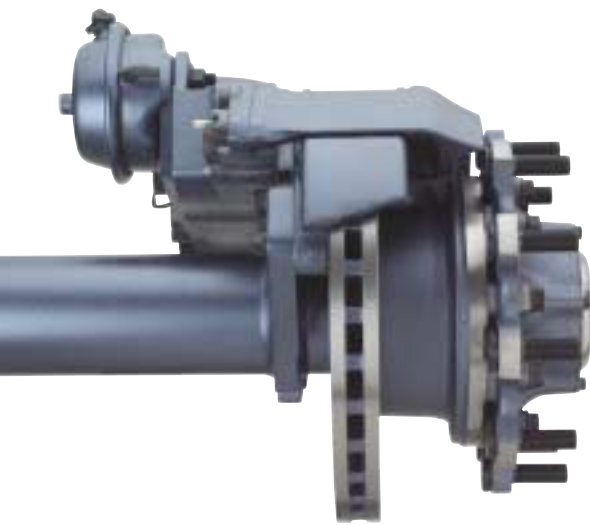
ArvinMeritor offers a wide variety of axles for virtually any trailer application.



complete braking system

Q and Q Plus™ Cam Brakes

Meritor Q and Q Plus™ brakes offer performance, dependability and a proven design. They feature spring-loaded seals for longer lubrication intervals and brake shoes that can be changed in less than two minutes. The 8-inch Q Plus™ design offers increased lining thickness for extended lining wear. For maximum lining life, specify ArvinMeritor's 8-inch brakes with increased lining volume and improved heat dissipation. Parts are interchangeable between the tractor and trailer for reduced parts inventories.



Bolt-On Cam Bushing

Standard on all Meritor trailer axles for air suspensions, all axles with nominal 5/8-inch or greater wall thickness, and all Meritor Q Plus™ brakes. This unique bolt-on cam bushing allows for easy removal of the camshaft and bushing without removal of the hub when used with outboard-mounted drums. The heavy-duty bushing is made with tough powdered metal which reduces wear on the camshaft. Improved features include a removable press fit wear sleeve for easy replacement, 75 percent additional lubrication to the camshaft and reduced camshaft radial play.

Quality Brake Linings

Meritor brake linings provide excellent wear performance and very stable friction levels for optimum stopping capability. Linings are engineered and rigorously tested to ensure their torque characteristics are optimized for specific applications, brake sizes, axle loads and tire sizes.

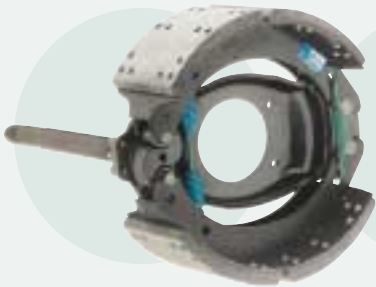
The Performance You Need

The EX225 Air Disc Brake offers operational savings through long-life components, integrated adjustment mechanism and maintenance-friendly design.

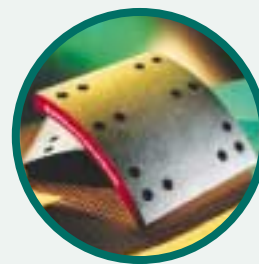
Bolt-On Cam Bushing



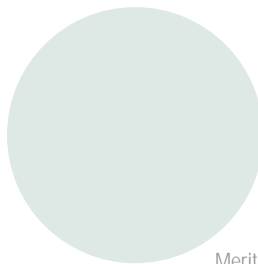
EX225 Air Disc Brake



Q Plus Cam Brake



Meritor Brake Linings



Meritor Lite™ Hubs



SteelLite X30™ Brake Drums



Engineered to meet evolving federal regulations, EX225 Air Disc Brakes provide 20-30 percent better stopping performance on a tractor/trailer combination than standard drum brakes, and can be used in conjunction with standard or high-performance drum brakes to meet the needs and budget of any commercial operation.

Automatic Slack Adjusters (ASAs)

As the leading supplier of ASAs in North America, ArvinMeritor's ASAs pay you back by keeping your vehicles on the road, not in the shop. The ASAs allow for optimum brake performance, while keeping brakes in constant adjustment and reducing brake maintenance costs.

Anti-Lock Braking Systems (ABS)

Meritor WABCO has the experience and proven performance to be the industry leader in ABS technology. Meritor WABCO is a joint venture of ArvinMeritor and the WABCO Automotive Products Group of American Standard Companies Inc.

Meritor WABCO's Easy-Stop™ trailer ABS components are completely sealed and are extremely low maintenance. They can be installed on virtually any trailer configuration. Because of this, more Meritor WABCO ABS units are operating in North American fleets than all other competitive systems combined.

Meritor Lite™ Hubs

With Meritor Lite hubs, ArvinMeritor meets the challenge of reducing weight without sacrificing strength and durability. Using the latest advances in modern cast-iron technology, ArvinMeritor has optimized the design by distributing material where required for strength and durability, resulting in a product that is substantially lighter than standard competitive hubs. Pound for pound, Meritor Lite hubs are

as strong, or stronger, than other ductile iron hubs, and much more durable than aluminum hubs. They are, in some cases, lighter than aluminum hubs. This provides a much greater overall value.

SteelLite X30™ Brake Drums

The Meritor SteelLite X30™ brake drum sets a new standard in advanced wheel-end design and development. It is the only one-piece steel-shelled brake drum available today without welded seams or weld-on balance weights. Feature for feature, the SteelLite X30 drum is a superior alternative to any other brake drum available. Fleets who specify the SteelLite X30 brake drum with a patented machine-to-balance process, will enjoy reliability, weight reduction and reduced operating costs over conventional full-cast drums.

The result is a total trailer system solution from one supplier. ArvinMeritor provides systems that reduce maintenance and weight, and improve ride, resulting in increased profitability for truck-trailer operators.



Automatic Slack Adjusters optimize brake performance.



North America's most used Anti-Lock Braking Systems.



ArvinMeritor offers a full line of hubs and drums, and the most complete line of foundation brakes.

RideStar™ family of suspension systems

RideStar RHP Highway Parallelogram Trailer Air Suspension System

Features integrated trailer axles, brakes and slider for a robust, compact and exceptionally smooth riding suspension system.

The RideStar Highway Parallelogram system eliminates dock walk, by design. The parallel movement of the RHP's control arms means the trailer moves only downward in a straight line during forklift loading and unloading.

The stabilized parallelogram design features upper and lower control arms that are parallel to each other, creating vertical, rather than horizontal, movement of the axles. This vertical movement eliminates suspension-induced backslap, resulting in a smoother ride for the driver and cargo. In addition, the parallel design improves the ride because the air springs are directly over the axle rather than behind, providing 100 percent air ride.

With an integrated slider and unified frame bracket, the RideStar RHP sliding tandem system is more resistant to damage from curbing than other types of air suspensions.

The robust slider features enhanced support in high stress areas, as well as heavy-duty hold down clips.

RideStar RFS Series Suspension

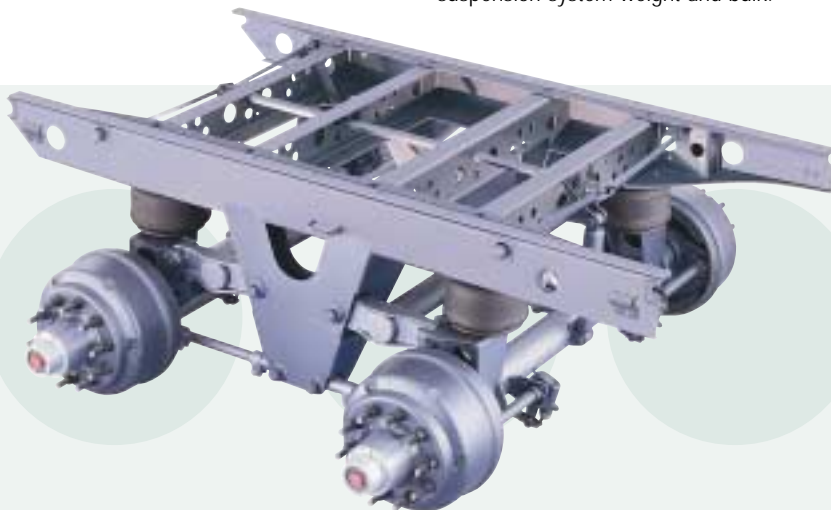
The new RideStar RFS Series Suspension delivers the legendary performance of the RideStar RHP Series to the non-sliding-tandem-van market. The system is friendly to driver, load and road. Its low-maintenance design and enhanced performance also will keep fleet managers smiling. Because the RFS Series keeps trailer tires in contact with the road better than any competitive system, tire wear is reduced, braking and control are improved, and axle vibration is kept to a minimum.

Our patented bushing design uses interleaf shims for superior fore/aft stiffness versus other single bushing designs, while the bushing's narrow profile saves on total suspension system weight and bulk.

The shock absorbers used on the RFS Series have been specially tuned to work with the suspension geometry to deliver a new standard in ride quality. Exceptional damping characteristics and an innovative integral check strap lead to years of low-maintenance dependability.

RFS Series Suspensions include the industry-leading lineup of Meritor axles and brakes. They also are compatible with a full line of ArvinMeritor products — automatic slack adjusters, hubs and drums, Q Plus™ brakes, Meritor WABCO ABS and the Meritor® Tire Inflation Systems by P.S.I. Gain additional low-maintenance benefits with LX500 Extended Lube brakes and our complete line of low-maintenance trailer axles, including TRIAD, TL and TB series.

With our new RFS Series Suspensions, RideStar performance is available for your specialized vocational applications.



RideStar RHP Highway Parallelogram Trailer Air Suspension System



RideStar RFS Series Suspension

LITEFLEX[®] composite leaf trailer springs

Lighten Your Trailer ...

While increasing your payloads or fuel economy by using LITEFLEX composite leaf trailer springs.

An average heavy-duty three-leaf steel spring weighs 65 pounds, compared to 23 pounds for an equivalent monoleaf LITEFLEX leaf spring. On applications where weight, not space, limits the payload that can be hauled, trailers equipped with LITEFLEX leaf springs can carry an additional 168 pounds of payload. On applications where space, not weight, limits the haul, trailers equipped with LITEFLEX leaf springs weigh less, reducing fuel consumption.

LITEFLEX composite leaf trailer springs allow for more payload.



ArvinMeritor is a committed, single-source supplier for low-maintenance trailer undercarriage products.



ArvinMeritor's trailer products reduce operating costs for increased value on the road.

Meritor® Tire Inflation Systems by P.S.I.

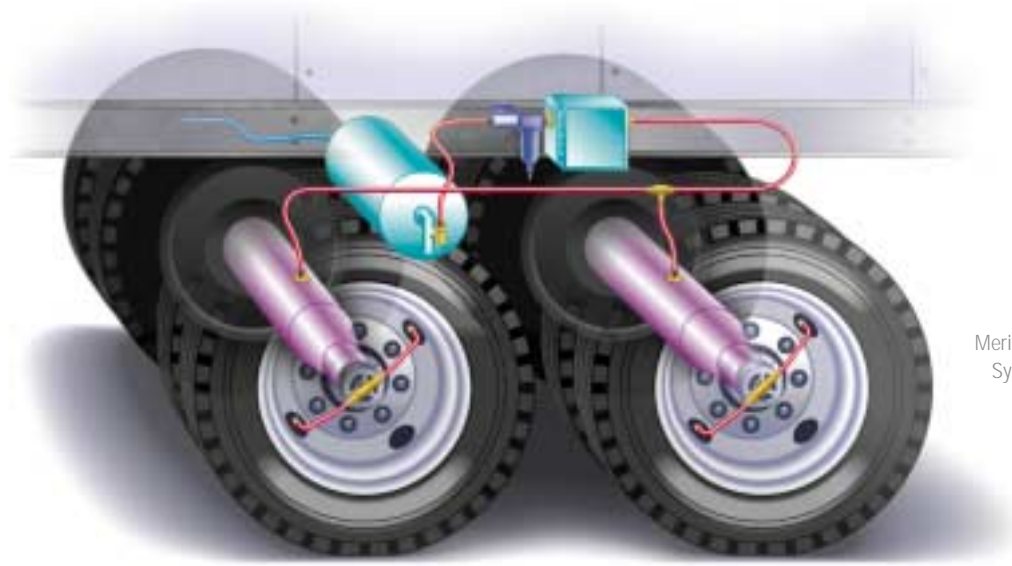
Maintaining correct tire inflation addresses the second-highest operating cost incurred by fleets: tires and tire-generated problems. The Meritor® Tire Inflation Systems (MTIS) by P.S.I. help reduce in-service failure, fuel consumption and excessive tread wear.

Typically, trailers are not sent to a centralized maintenance facility at the same time as tractors, so tire pressure may not always be checked. The MTIS

controls air flow to ensure trailers maintain proper and consistent tire pressure at all times, even while the trailer is moving. Here's how it works:

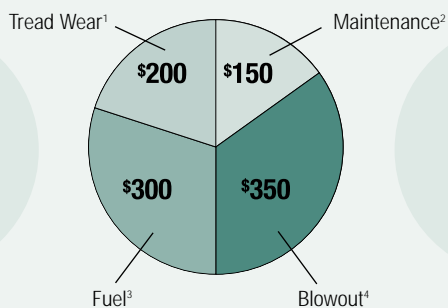
- Air from the existing trailer air supply is routed to a control box, then into each axle.
- Acting as a conduit, the axles carry air through a rotary union assembly at the spindle end, which then distributes the air to each tire, as needed.

- A pressure-protection valve ensures the system never compromises the integrity of the brake system.
- An indicator light informs the driver of an excessive air pressure loss.
- Should a tire failure occur, check valves in the tire delivery lines will prevent loss of pressure from the remaining tires.



Meritor® Tire Inflation Systems by P.S.I.

Fast payback, higher profits. Average annual cost savings per trailer with the Meritor® Tire Inflation System by P.S.I.



- 1 Tread Wear: Based on 10% extended tread wear of 8 tires traveling 90,000 miles/year and tire cost of \$225. (Goodyear Engineering Data Book)
- 2 Maintenance: Based on 25 minutes/month spent on checking and filling tires by a tire man at \$25/hour. (Commercial Carrier Journal Survey)
- 3 Fuel: Based on 2% annual fuel saving, assuming 90,000 miles/year at 6 mpg and \$1/gallon. (Michelin North America)
- 4 Blowout: Based on one service call and new tire cost. (McGriff Tire Company)

* Pressure Systems International, Inc.

customer support

Field Sales and Service

ArvinMeritor has four regional offices strategically located throughout North America with a world-class team of district sales and service managers to offer spec'ing assistance, service troubleshooting, warranty assistance, training and parts locating.

Customer Service Center

ArvinMeritor's Customer Service Center is ready to assist you at 800-535-5560 – day and night, weekdays and weekends. Representatives are trained to know every ArvinMeritor drivetrain component and provide you with a wide range of resources, including technical information, specification/parts inquiries, unit down priority support, application inquiries and much more.

On-Line Information

Information is at your fingertips at www.drivetrainplus.com. Here you will find a wealth of information including current

product information, the latest company news, upcoming trade shows and industry events, technical and maintenance literature, training schedules and e-mail access to ArvinMeritor's district sales and service managers.

Training Materials

ArvinMeritor offers an extensive library of training materials, including individual videos, packaged video programs, video training libraries for sales and service, and student training manuals. All are suitable for self-tutorial or instructor-led uses.

In addition, ArvinMeritor's field training services conduct City Wide training programs targeted to service technicians. These local sessions cover a variety of Meritor, ZF Meritor and Meritor WABCO products.

We also have CD and DVD self-tutorial training programs available. For training schedule information, call ArvinMeritor at 800-535-5560, or visit the ArvinMeritor Web site at www.drivetrainplus.com.

global capability

ArvinMeritor Simplifies Exporting to Europe

Trailer axle and air systems requirements are different around the world. Strict requirements for the components established by the European Economic Community (EEC) have made it exceedingly difficult to export U.S. trailers to Europe. ArvinMeritor brings you one step closer to exporting to Europe with EEC-certified trailer axles.

ArvinMeritor's Wrexham, North Wales, facility, a leading manufacturer of trailer axles and suspensions, allows us to help U.S. trailer OEMs deal with the EEC requirements.

The combined resources of ArvinMeritor's North American and European operations, along with Meritor WABCO – a leader in anti-lock braking systems and air brake controls – result in a more thorough understanding of European requirements. ArvinMeritor knows the European trailer requirements, has the right undercarriage components, and offers an extensive network of technical support to help you specify the right components.



With ArvinMeritor, you get the total systems solution from one leading supplier.



ArvinMeritor offers a wide variety of axles for virtually any trailer application.



ArvinMeritor is the only trailer components manufacturer with a major presence in both the United States and Europe.

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