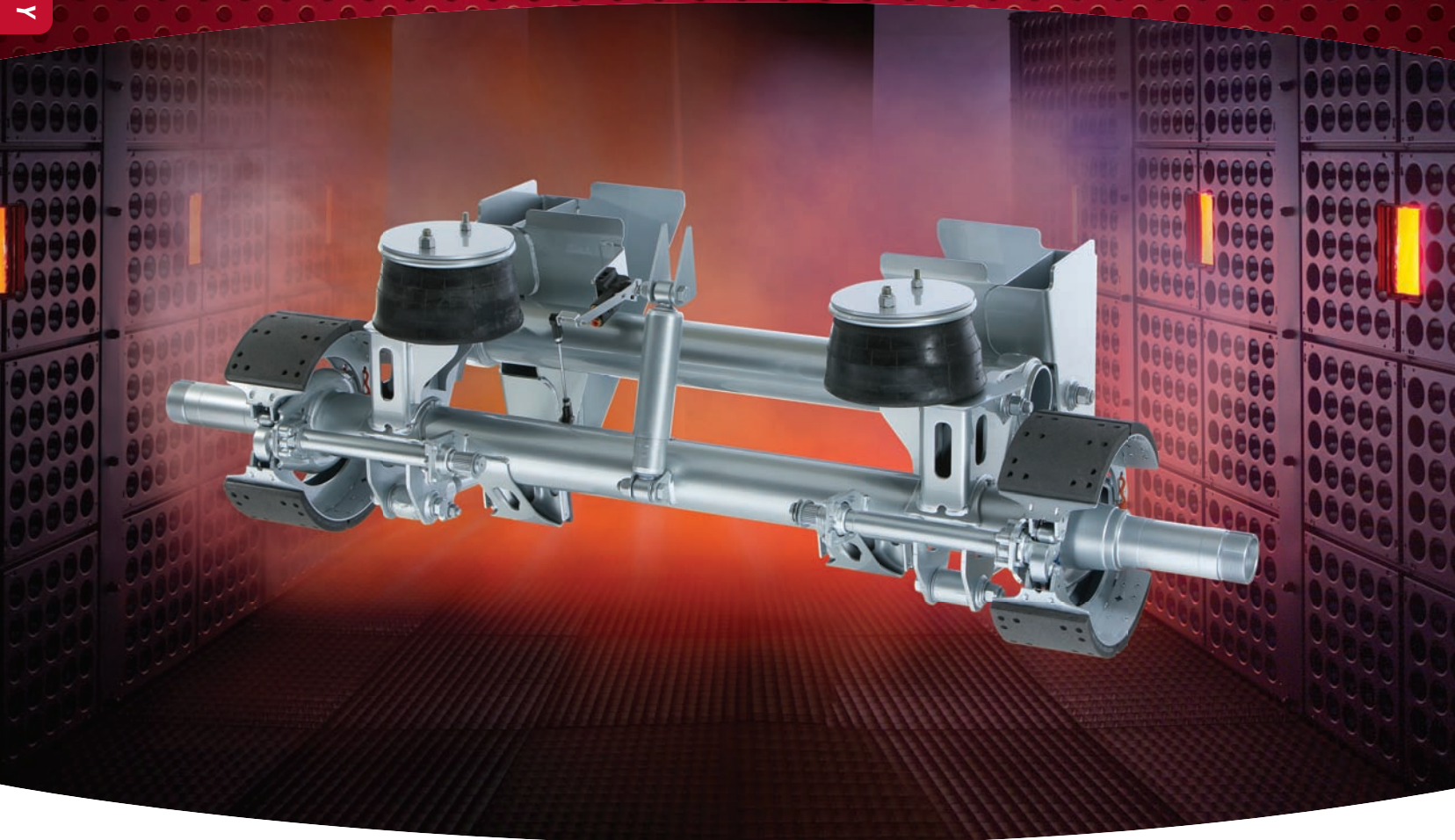


# MERITOR®

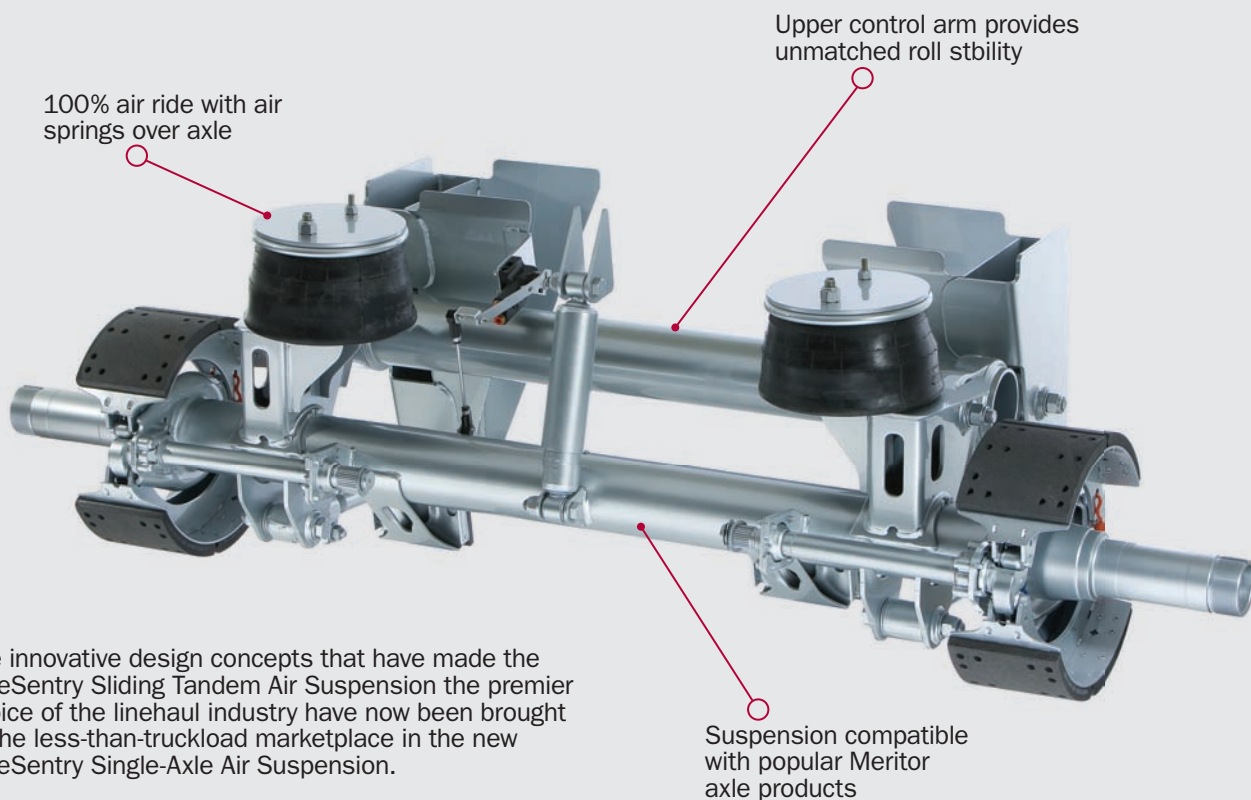
## RIDSENTRY™ MPA 20 SERIES SINGLE-AXLE AIR SUSPENSION



### Performance Advantages:

- Reliable performance increases uptime and reduces maintenance expenses
- Premium bushing design with industry-leading warranty coverage
- Outstanding ride, stability and dock walk prevention by design
- Minimized torque and stress in axle assembly

## RISESENTRY™ MPA 20 SERIES SINGLE-AXLE AIR SUSPENSION



The innovative design concepts that have made the RideSentry Sliding Tandem Air Suspension the premier choice of the linehaul industry have now been brought to the less-than-truckload marketplace in the new RideSentry Single-Axle Air Suspension.

### Features and Benefits:

- Premium parallelogram benefits:
  - No dock walk by design
  - Air spring directly over axle provides 100% air ride for exceptionally smooth ride
  - No fore aft movement eliminates backslap, increasing driver comfort
- Unmatched roll stability eliminates induced steer
- Premium bonded rubber bushings with steel thrust washers
  - Industry-leading bushing warranty (7 year parts/5 years labor)
- Compatible with popular Meritor Axle products
- Backed by the nationwide network of ArvinMeritor authorized service centers and our industry-leading warranty coverage

ArvinMeritor recognizes the fact that the less-than-truckload marketplace is a world removed from the truckload environment. Frequent starts and stops, heavy inter-city traffic, diverse road types and varying load weights all contribute to the challenge that fleet managers and owner/operators face. That's why we developed a special suspension system to meet the unique demands placed on these vehicles.

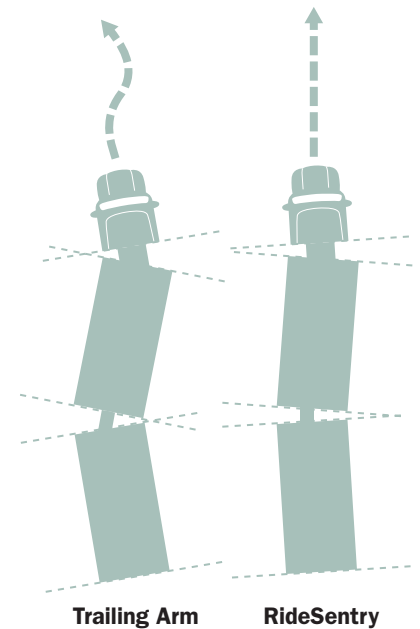
Since the LTL industry specifies shorter length trailers and, in many cases, runs the trailers as doubles, we created a single axle parallelogram design suspension that is ideal for pup's and converter dollies.

The challenge was to design a suspension that minimizes roll induced steer, dock walk, and back slap while enhancing ride quality. The parallelogram design offers superior performance in all these areas.

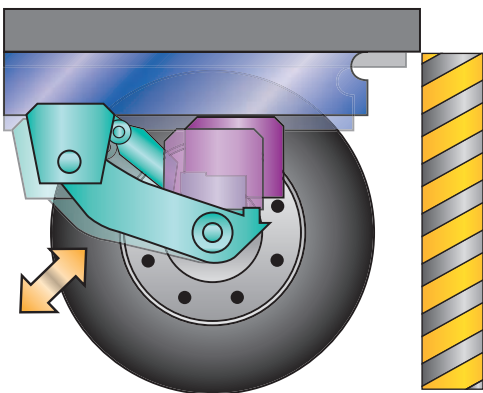
Unlike conventional trailing arm suspensions, the parallelogram design eliminates roll induced steer and provides superior vehicle stability especially with combinations. The parallelogram geometry also eliminates the fore-aft movement associated with trailing-arm designs that leads to back-slap, driver fatigue and discomfort. Additionally, the unique

design of the MPA20 keeps the upper and lower control arms parallel to each other enhancing vehicle control, and places the air springs directly over the axle for an industry leading ride quality. Since dock walk is eliminated by design, there is no need for a heavy and cumbersome add-on device to combat this problem. Parallel control arms eliminate torque on the axle and reduce stress on the air spring which leads to a more durable product and lower total cost of ownership.

**The truck at left shows the effect of induced (or roll) steer common with trailing arm suspensions during a lane change. The truck at right is benefiting from the RideSentry's parallelogram design, which eliminates fore-aft movement and thus prevents induced steer.**

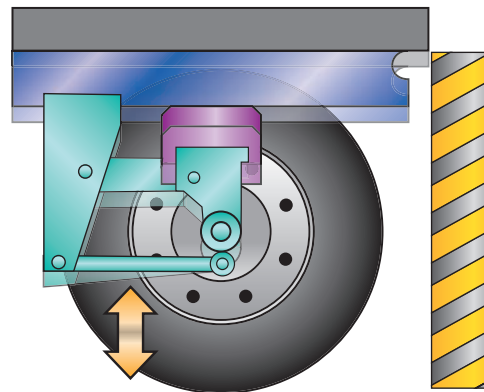


**Typical Trailing Arm**



The trailing arm suspension above shows the fore-aft movement common to this design. The undesirable motion leads to problems such as induced steer, dock walk and back slap.

**RideSentry Highway Parallelogram**



The drawing above shows how the RideSentry suspension system moves up and down only, eliminating the effects associated with unwanted fore-aft movement.

## Specifications

Capacity	20,000 lbs.
Axle Travel	8" total; 3" jounce, 5" rebound
Design	Height 16.5" and 17.5" (bottom of sub-frame to center of axle)
Axle	TQ Series, 77.5" track TP 8000
Brakes	16.5" x 7" Q series standard; other options, including Q Plus™, also available
Wheel End	Full line of wheel ends available, including unitized wheel ends
Air Control	Standard height control valve; available with integral air dump valve as option
Applications	28' Dry Van, Refrigerated Van and other Pup trailers designed for the less-than-truckload industry

For more information, call the customer service team at 800-535-5560 or visit [www.arvinmeritor.com](http://www.arvinmeritor.com).



Meritor Heavy Vehicle Systems, LLC  
2135 West Maple Road  
Troy, Michigan 48084 USA  
800-535-5560  
[www.arvinmeritor.com](http://www.arvinmeritor.com)

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