



# AirLiner<sup>®</sup> Air Ride Suspensions

## AirLiner Features

The ingenious, no-maintenance design that saves weight and operating costs while superbly cushioning you, your vehicle and your load.

- Compared to steel suspensions, AirLiner delivers greater comfort and, consequently, provides better handling and protection for the load.
- Because AirLiner suspension systems offer substantially fewer parts than competing systems, they offer greater reliability and need less servicing attention in the long run.
- They require no lubrication, of course, which means little or no routine maintenance.
- AirLiner is priced to make it the good economic choice when the job calls for air suspension.
- Resale price comparisons prove that trucks equipped with air ride suspensions command a higher resale value versus trucks equipped with standard spring suspensions.

- AirLiner's proven combination of trailing arm leaf springs and self-leveling, rolling-lobe air bags provides a uniformly soft spring ride, smoothing the ridges and filling the ruts like only a premium air suspension can.
- Also designed to reduce sway when turning or negotiating curves, further providing superb ride and handling.

### Elastomer bushings that insulate your profit margin

- Elastomer bushings ensure that the metal parts of the AirLiner suspension won't rub together, resulting in longer product life. And since there's no wear surface to lubricate or replace, the AirLiner performance is never compromised - leading to a continued comfortable ride and a very comfortable bottom line.



**Underslung trailing arms that permit low fifth-wheel heights and promote long, trouble-free life cycles**

- To really appreciate the ingenuity of the AirLiner design, just examine the parabolic leaf-spring trailing arms slung under the axle housings. You'll discover that AirLiner provides plenty of room for installing the low fifth wheels required by today's tallest trailers. You'll also find that the arms bend 35 degrees at the rear, doubling as the air bag supports and eliminating the complexity of mounting the air springs separately, on cross beams or tubes. Simple and reliable.

**A height-control valve that keeps drivelines in line**

- To produce the relatively constant spring rate necessary for optimum cushioning performance, an air ride suspension must maintain a relatively constant ride height. AirLiner utilises a premium rotary valve to fulfill this height-control function. Why a rotary type valve? Because the efficiency of a

conventional, rubber-seat valve can deteriorate with age, altering not only the spring rate but also the driveline angle, possibly shortening the driveshaft life.

**Suspensions that aren't afraid of the scale**

- AirLiner single and tandem air ride suspensions are lightweight champions. These suspensions are naturally lean because there are fewer parts to begin with. And they feature aluminium brackets on all but the 23,000-lb. and 46,000-lb. severe-service models, and an aluminium centre crossmember on the standard-duty 40,000-lb. model. Composite or aluminium air-bag pistons can be added on all models.

**Selection that covers a multitude of job requirements**

- There's an AirLiner suspension for whatever your application happens to be, whether on the highway or off. Consult the spec chart, then consult your Western Star Dealer and begin enjoying the many economic and ergonomic benefits of the AirLiner suspension.

## AirLiner Specifications

### AirLiner Single Drive Specifications

<b>MODEL</b>	<b>21,000 lb.</b>	<b>23,000 lb.</b>
<b>Duty Class</b>	Standard Duty	Heavy Duty
<b>Application</b>	Tractor	Truck or Tractor
<b>Main Brackets</b>	Aluminium	Iron
<b>Main Spring Arm</b>	2-Leaf	Heavy Duty 2-Leaf
<b>Spring Bushing</b>	Standard Duty	Heavy Duty
<b>Axle Seat Attachment</b>	Clamped to Axle	Clamped with Restraint
<b>Crossbeam Stabiliser</b>	No	Yes
<b>Track Rods</b>	Standard Duty	Heavy Duty
<b>Air-Spring Pistons</b>	Composite	Aluminium
<b>Ride Height</b>	Standard 10"	Standard 10"

### AirLiner Tandem Drive Specifications

<b>MODEL</b>	<b>40,000 lb.</b>	<b>40,000 lb. Extra Duty</b>	<b>46,000 lb.</b>
<b>Duty Class</b>	Standard Duty	Heavy Duty	Heavy Duty
<b>Application</b>	Truck or Tractor	Truck or Tractor	Truck or Tractor
<b>Main Brackets</b>	Aluminium	Aluminium	Iron
<b>Main Spring Arm</b>	1-Leaf	2-Leaf	Heavy Duty 2-Leaf
<b>Spring Bushing</b>	Standard Duty	Heavy Duty	Heavy Duty
<b>Axle Seat Attachment</b>	Clamped to Axle	Clamped with Restraint	Welded to Axle
<b>Frame Crossmember Stabiliser</b>	Extruded Aluminium	Formed Steel	Formed Steel
<b>Crossbeam Stabiliser</b>	No	No	No
<b>Track Rods</b>	Standard Duty	Heavy Duty	Heavy Duty
<b>Air-Spring Pistons</b>	Composite	Composite	Aluminium
<b>Ride Height</b>	Standard 8.5"	Standard 8.5"	Standard 10"

Specifications are subject to change without notice. Copyright © 2007, Western Star Trucks Australia Pty Ltd.