

NEWAY®

ADZ SERIES

DRIVE AXLE AIR SUSPENSION SERIES FOR
VOCATIONAL TRUCKS AND TRACTORS

NEWAY ADZ SUSPENSION SERIES

From the company that pioneered air-ride suspensions for the heavy-duty truck market over fifty-years ago, NEWAY offers the most innovative air-ride suspension yet.

The NEWAY ADZ Series suspension's advanced engineering is designed to improve durability and performance in the toughest conditions—built to withstand any environmental challenge.

The NEWAY ADZ Series innovative design is not just tough, it's also significantly lighter than other air-ride suspensions giving you the ability to increase payload and improve operating efficiency.

The NEWAY ADZ Series suspension design provides greater stability for high center of gravity vehicles while providing superior handling—delivering a much higher linear roll rate compared to other competitive suspensions.

The NEWAY ADZ Series streamlined design reduces component complexity requiring less maintenance—less time in the shop for more time on the job.



6 MODEL CAPACITIES
23,000 lbs. – 78,000 lbs.

Lightweight Crossmember

Integrated with the V-Rod and frame brackets to distribute road forces where needed for a more stable ride.

Premium Heavy-Duty Shock Absorbers

Precision tuned for optimum damping in severe-duty operations. Provides increased performance and durability that enhances ride quality.

Optional fifth wheel compatible shock bracket.

V-Rod Upper Control Arms

Replaces traditional torque and track rods to equally distribute load forces to the frame rail. Reduces weight and maintenance while improving ride performance.

Welded Axle Adapters

Eliminated fasteners and the need to re-torque. Reduces weight, maintenance and cost. Optional bolt-on axle adapters available.

Lower Control Assembly

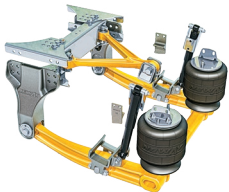
One-piece, solid connection design eliminates traditional bushings and serves as an integrated sway bar. Delivers industry leading roll stability and robust durability while reducing weight and component maintenance.

Air Springs

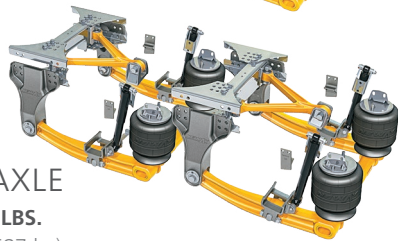
Large air volume and low frequency response for optimum ride quality. Full steel mounting plates provide additional protection during off-road severe-duty operation. Reduces down time due to punctured bags.

ADZ SERIES CONFIGURATIONS

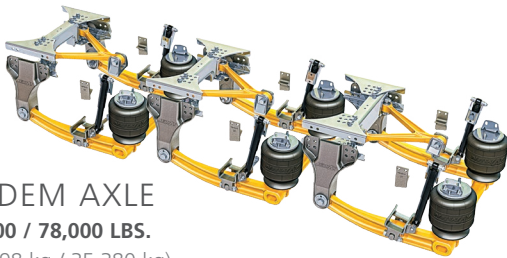
SINGLE AXLE
23,000 / 26,000 LBS.
(10,433 kg / 11,793 kg)



TANDEM AXLE
46,000 / 52,000 LBS.
(20,865 kg / 23,587 kg)



TRIDEM AXLE
69,000 / 78,000 LBS.
(31,298 kg / 35,380 kg)



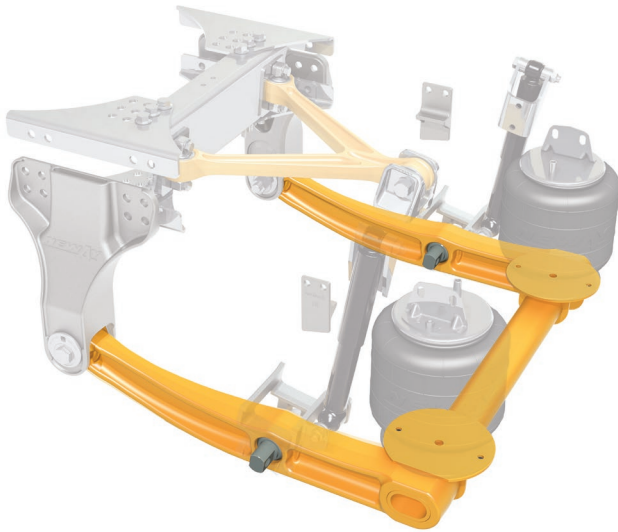
ADZ COMPONENT DESIGN FEATURES

ADVANTAGES AND BENEFITS

SUPERIOR DURABILITY

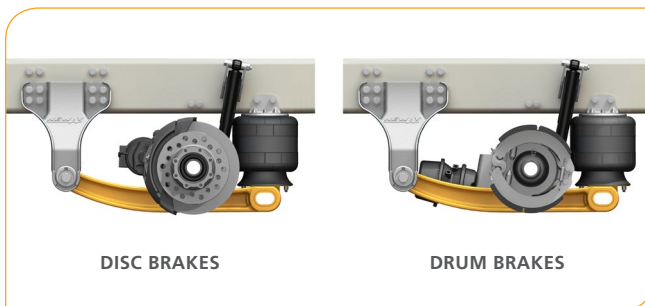
Toughest 100% off-road air suspension

Advanced engineering and design improves durability and performance to deliver a rugged suspension ready to take on any environment you encounter.



Lower Control Assembly One-Piece Design

Lower Control Assembly utilizes the same proven cast steel technology found in HOLLAND fifth wheels for an incredibly strong, yet lightweight design.



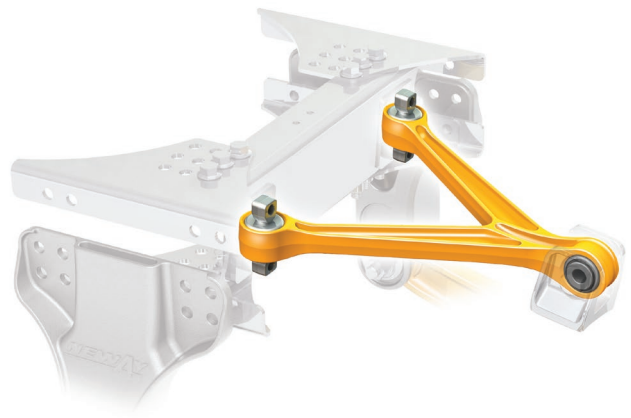
Disc and drum brake compatibility

Designed for disc or drum brakes without the weight and cost penalty of special order torque rods or modifications.

LIGHTER WEIGHT

Lightest 100% off-road air suspension

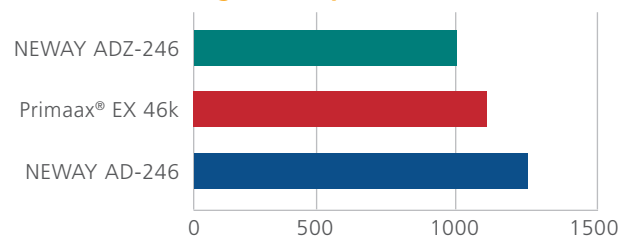
Innovative construction reduces suspension weight to deliver heavy duty performance in a light weight design.



V-rod Upper Control Arms

Simplified, light weight V-Rod and crossmember design replaces traditional torque and track rods that is able to disperse load forces equally for greater durability and performance.

Weight Comparison*



* Weight comparison data is based on SAF-HOLLAND data, competitive published information. AD/ADZ weights are based on welded axle brackets, 46K suspensions at 54"-72" spacing and 10" ride heights. Weights are for complete suspensions excluding crossmembers for equal comparison purposes.

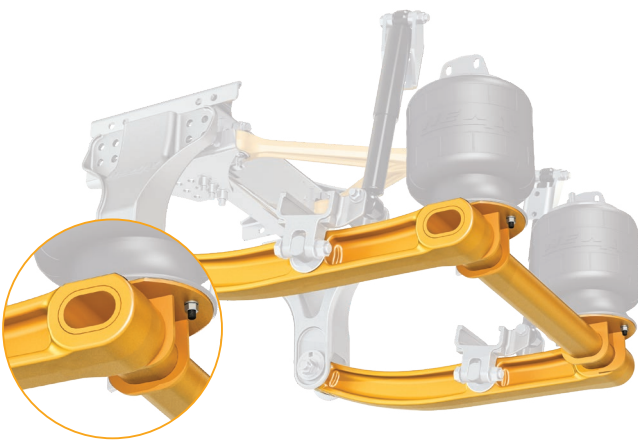
Primaax® is a registered trademark of Hendrickson USA, L.L.C.

**INDUSTRY LEADING
3-YEAR WARRANTY**

INCREASED STABILITY

Most stable 100% off-road air ride suspension

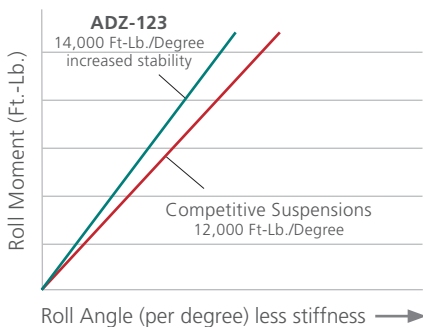
Eliminating the traditional bushing design with a wide stance, one-piece Lower Control Assembly provides superior roll stability for high CG applications.



Solid Connection Lower Control Assembly

One-piece design eliminates bushings for consistent and unmatched roll stability. By providing a linear roll rate, the ADZ raises the performance bar for high center of gravity loads.

Roll Rate Comparison

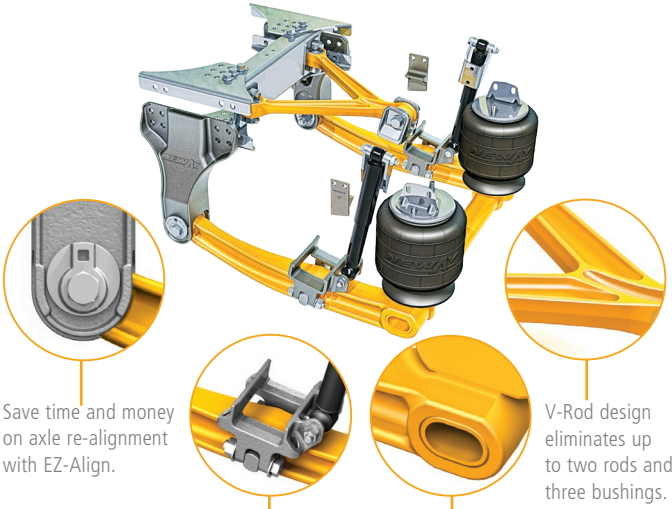


NOTE: Chart data is based upon internal testing. Actual product specifications and performance may vary depending upon suspension and vehicle configuration, operation, service and other factors.

REDUCED MAINTENANCE

Innovative design reduces operating and maintenance costs

With inventive design solutions, such as the V-Rod and one-piece Lower Control Assembly, the NEWAY ADZ Series has a straight forward design that reduces component complexity resulting in maintenance savings.



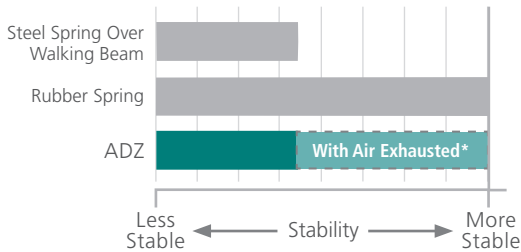
Save time and money on axle re-alignment with EZ-Align.

Maintenance free welded axle adapters save time, cost and weight.

Lower Control Assembly has no bushings to wear or fasteners to re-torque.

V-Rod design eliminates up to two rods and three bushings.

Vehicle Stability Comparison*



* When fully loaded vehicle is in stationary position and on uneven terrain, or when dumping, the air can be exhausted from air springs to increase stability of vehicle. Typical air ride will match stability of a rubber spring under air exhausted conditions.

APPLICATION VERSATILITY

ADZ MASTERS UNEVEN TERRAIN

Designed to produce up to 12.5 inches of diagonal wheel articulation and 8 inches of vertical axle travel, the ADZ handles uneven terrain without losing traction with an 11 inch ground clearance.*

The ADZ Series delivers not only superior performance, but also design versatility that accommodates over-the-road to 100% off-road applications.



Comfort without compromise

The NEWAY ADZ one-piece Lower Control Assembly increases roll stability while the overall geometry and V-Rod system reduces roll steer. These leading roll stability design features allow the use of custom high volume air springs to provide a softer ride.



Typical heavy-duty applications

Front / Rear Mixers
Heavy Haul
Oil Patch / Sands
Natural Gas
Logging

Concrete
Mine, Pit and Quarry
Construction
Fire Apparatus
Aggregate Dumps

Over-the-road applications

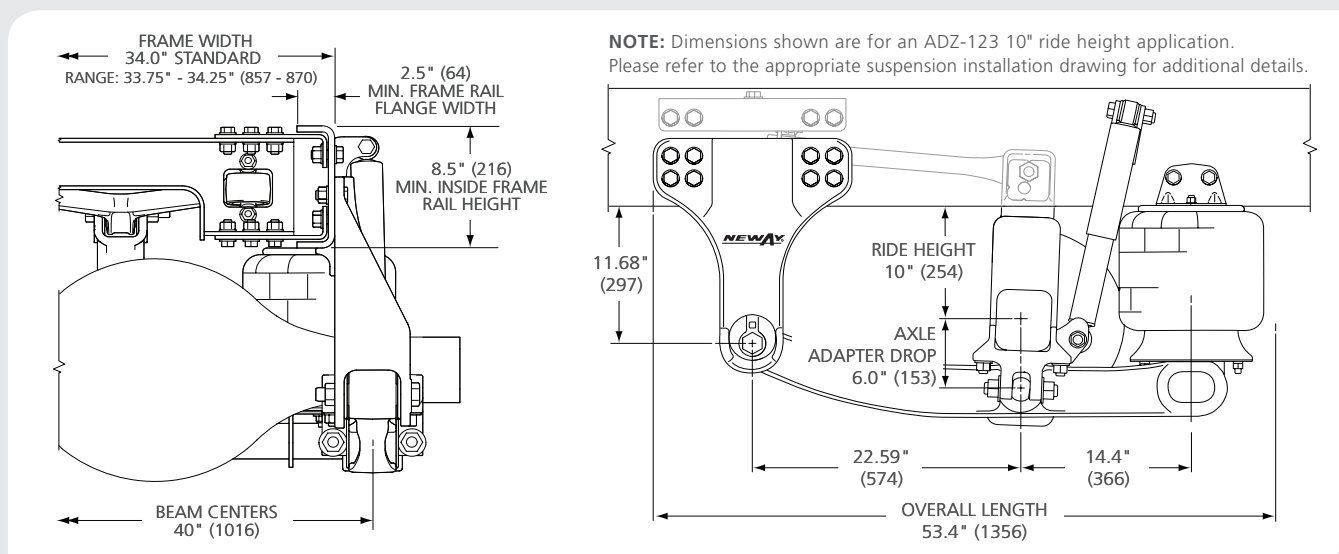
Beverage Hauler
Milk Hauler
Vacuum-Refuse
Municipal
Utility Trucks

* Cross articulation dimension may be limited by vehicle manufacturer's axle stops and shock absorbers, which may restrict suspension's full articulation. Ground clearance was measured using properly inflated 11R 22.5 tires

ADZ SPECIFICATIONS

	ADZ-123	ADZ-126	ADZ-246	ADZ-252	ADZ-369	ADZ-378
Capacity (Lbs.)	23,000	26,000	46,000	52,000	69,000	78,000
Weight (Lbs.)*	522	553	1,044	1,106	1,566	1,659
Axle Configuration	Single	Single	Tandem	Tandem	Tridem	Tridem
Site Rating (Lbs.)‡	30,250	33,000	60,500	66,000	90,750	99,000
Axle Travel**	8"	8"	8"	8"	8"	8"
Ft. Lb./Degree Roll Rate	14,000	14,000	14,000	14,000	14,000	14,000
Ground Clearance	11"	11"	11"	11"	11"	11"
Ride Height Range***	8.5"/15"	8.5"/15"	8.5"/15"	8.5"/15"	8.5"/15"	8.5"/15"
GCWR	95,000 lbs. (43,080kg)	142,000 lbs. (64,400kg)	190,000 lbs. (86,184kg)	245,000 lbs. (111,132kg)	285,000 lbs. (129,250kg)	367,500 lbs. (166,700kg)
Axle Spacing†	N/A	N/A	52" min.	54" min.	52" min.	54" min.

- * Weights: includes suspension, shocks, air springs, v-rod system, welded axle brackets, and associated hardware (excludes frame rail mounting hardware).
- ** Typical travel. Axle travel may differ depending on application.
- *** Common ride heights 10", 12" – available range shown – others available. Contact SAF-HOLLAND Engineering, then OEM.
- † Contact SAF-HOLLAND Engineering for others than OEM.
- ‡ Vehicle operation is limited to no more than 5% of total vehicle operation and a maximum speed not to exceed 5 MPH. Site travel ratings must not exceed when operating tag or pusher lift axles. Additional site travel rating available by contacting SAF-HOLLAND.



The ADZ Series suspension is approved for, but not limited to, the following vocational and heavy-haul vehicle applications: truck, tractor, front and rear discharge mixer, logging, dump, crane mounted, platform, fire/rescue, specialty, and outrigger equipped vehicles. All vehicle applications must comply with applicable SAF-HOLLAND specifications and must also be approved by the Original Equipment Manufacturer with the vehicle in its original, as-built configuration. Contact SAF-HOLLAND and the Original Equipment Manufacturer for approval of additional vehicle applications.

Additional details regarding specifications, applications, capacities, operations, service and maintenance instructions, can be found in applicable SAF-HOLLAND technical literature available at www.safholland.us or by calling 888-396-6501.

U.S. and foreign patents granted and/or pending. Vehicle configuration, operation, service and other factors may cause actual product performance to vary.



TRAILER AXLES AND
SUSPENSION SYSTEMS



COUPLING AND
LIFTING SYSTEMS



SUSPENSIONS FOR
TRUCKS AND BUSES



SUSPENSIONS AND
AXLE SYSTEMS



BUS AIR SUSPENSION
SYSTEMS



V. ORLANDI

TOWING
SYSTEMS



TRAILER AXLES/SUSPENSIONS,
COUPLING AND LIFTING
SYSTEMS

safholland.com

SAF-HOLLAND, Inc.

888.396.6501 Fax 800.356.3929

SAF-HOLLAND Canada Limited

519.537.3494 Fax 800.565.7753

Western Canada 604.574.7491 Fax 614.574.0244