

INTRAAX[®]

Integrated Trailer Air Suspension / Axle / Brake Systems



- Maximize value
- Maximize performance
- Proven reliability



* Contact Hendrickson for complete warranty terms, conditions and limitations.

** Contact Hendrickson Technical Services before conducting wheel-end service or repairs.

To learn more about INTRAAX, call 866.743.3247
or visit www.hendrickson-intl.com

HENDRICKSON
The World Rides On Us[®]

ZMD® ZERO MAINTENANCE DAMPING®

Hendrickson's ZERO MAINTENANCE DAMPING exclusive ride technology

- Reduces suspension maintenance by eliminating shocks
- Uniform damping levels
- Superior driver comfort, ride quality and cargo protection
- Robust chain down stop provides maximum durability

See ZMD flyer - L1209



UBL™ UNDER BEAM LIFT™

Lightweight lift axle mechanism

- Operational flexibility
- Improved maneuverability
- Maximized payloads

See UNDER BEAM LIFT flyer - L727



TIREMAAX®

Automatic tire pressure control systems

- Automatically inflates, relieves, equalizes and adjusts trailer tire pressures
- Helps fleets improve fuel economy, tire life and operational uptime
- TIREMAAX PRO-LB empowers fleets to maximize tire life and uptime with load-based adjustments

See TIREMAAX PRO-LB flyer - L1333



Hendrickson MAXX22T™

Optimized trailer air disc brake system

- Hendrickson proprietary MAXX22T brake caliper
- Lightweight rotor and torque plate deliver substantial weight savings over standard ductile iron designs
- Bolt-on dust shield for easier installation and maintenance
- Hendrickson comprehensive warranty* coverage
- Available with Outboard Mounted Rotor technology for enhanced serviceability

See MAXX22T flyer - L1239



RTR® READY-TO-ROLL®

Fully integrated solutions that help minimize operating costs and improve performance

- HXL3® Hendrickson Extended-Life 3-year System™*
- HXL5® Hendrickson Extended-Life 5-year System™*
- HXL7® Hendrickson Extended-Life 7-year System™*

See RTR READY-TO-ROLL Wheel-End flyer - L1200

Brake Options

Extend intervals between brake service

- HXS® Hendrickson Extended Service™ brakes with thicker lining blocks to extend brake life
- Wide HXS (16.5 × 8.625 in.) brakes can help increase the miles between brake service
- Air disc brakes available on select models

See Understanding Air Ride - L761 (Brake Efficiency)

See Air Disc Brake flyer - L889

Corrosion Protection / Coatings

Hendrickson coating options help protect your investment

Suspension / Axle / Beams

- **Black Soft-Coat:** A self-healing, pliable, water-resistant coating that has the ability to re-seal itself in areas with minimal damage
- **Black Primer:** Uses a multi-stage cleaning and preparation process for high adhesion

Frame Brackets / Air Spring Mounting Plates

- **Galvanized:** Zinc coating for improved chip and corrosion resistance
- **Stainless Steel:** Highly corrosion-resistant material that requires no additional coating
- **Black Primer**
- **Black Soft-Coat**

Brakes

- **E-coat:** All Hendrickson brake shoes utilize high quality, e-coat process for improved resistance to rust-jacking
- **AAXTREME COAT®:** Premium coating provides extreme corrosion protection in tough environments

See E-coat brochure - L1205 See AAXTREME COAT flyer - L1207

High Control Suspensions

- For single-axle and multi-articulated applications that require even greater road stability

See HIGH CONTROL flyer - L667

Raised-Center Axle

- Ideal for tanker operators
- Available in top-mount AAT 23K / 25K and as a low ride / liftable AAL 23K / 25K

See INTRAAX Raised-Center Axle flyer - L1065

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TOP-MOUNT



AANT 23K

The road-proven INTRAAX® AANT provides an advanced system for weight-conscious haulers running straight-frame platforms, container chassis, liquid tankers, grain hoppers, bottom dumps and livestock trailers. AANT teams tapered-beam and LDA™ Large-Diameter Axle technologies for increased roll stiffness, reduced weight and improved durability. AANT 23K maintains a smooth ride, superior performance and rugged durability. Hendrickson's revolutionary ZMD® ZERO MAINTENANCE DAMPING® shockless ride technology is available on select AANT 23K models.

See INTRAAX AANT 23K flyer - L764

AAT 23K / 25K / 30K

Ideal for platforms, tankers, dumps, grain hoppers and specialty trailers — on- and off-highway. Satisfied operators continue to prove INTRAAX's reliability and performance, piling up thousands of miles on tens of thousands of trailers worldwide every year. With a well-deserved reputation for low maintenance and a 5.75-inch LDA Large-Diameter Axle, INTRAAX costs less to operate over the long haul and helps keep rigs rolling down the road. Hendrickson's revolutionary ZMD ZERO MAINTENANCE DAMPING shockless ride technology is available on select AAT 23K / 25K models.

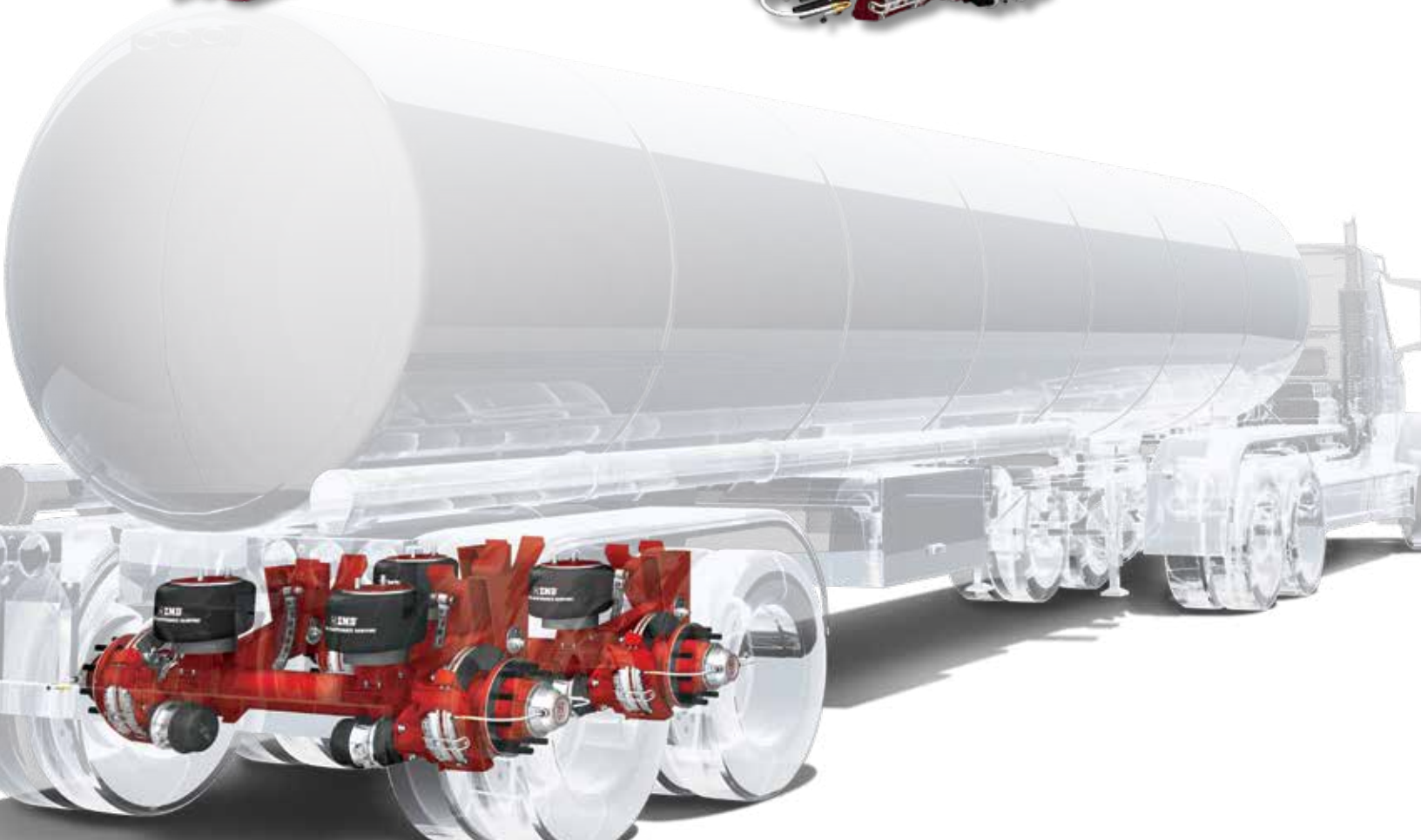
See INTRAAX AAT 23K/25K/30K flyer - L1153



AANT 23K



AAT 23K



LOW-RIDE / LIFTABLE



AANL 23K

For weight-conscious haulers, we've incorporated tapered beam and Hendrickson's LDA™ Large-Diameter Axle technology for increased roll stiffness, reduced weight and improved durability into the AANL 23K suspension for a lighter-weight option for the road-proven AANL 23K suspension. An optional UBL™ UNDER BEAM LIFT™ provides the AANL with lift capability to help increase operational flexibility, trailer maneuverability and tire life in tanker, grain, livestock and platform trailers. The lower ride-height AANL 23K gives operators of drop-decks, lowboys and flatbeds exceptional freight protection, superior performance and operating efficiencies that have made INTRAAX® the recognized leader in quality and the premier air suspension on the market.



AANL 23K



UBL™

UNDER BEAM LIFT™

See INTRAAX AANL 23K flyer - L958

AAL 23K / 25K / 30K

Low-ride/liftable systems deliver the proven benefits of INTRAAX technology to applications, including platforms, dumps, drop-decks, lowboys, tankers, B-trains, livestock and specialty trailers. INTRAAX AAL models are available with Hendrickson's LDA Large-Diameter Axle for increased roll stiffness, reduced weight and improved durability. The low-profile design of the AAL covers a wide range of ride heights to meet a broad array of on- and off-highway applications, from low-deck trailers to high-clearance and off-highway operations that need a liftable suspension. An optional UBL UNDER BEAM LIFT provides the AAL with lift capability to help increase operational flexibility, trailer maneuverability and tire life in tanker, grain, livestock and platform trailers.

See INTRAAX AAL flyer - L1066



AAL 25K

AANLS 20K

Bringing the durability, low maintenance and lightweight advantages of suspension/axle/brake integration to a compact low-ride system, AANLS proves exceptional for auto haulers, moving vans and drop-frame trailers. The system delivers weight savings over comparable suspensions. AANLS gives operators the excellent freight protection, superior performance and operating efficiencies they have come to expect from INTRAAX.

See INTRAAX AANLS 20K flyer - L817



AANLS 20K

PLATFORM SLIDERS - INTRAAX® SP



AAZNT 23K / 46K / 69K and AAZL 23K / 46K

INTRAAX SP models equip fleets with a durable and low-maintenance slider system designed especially for platform and drop-deck trailers.

AAZ models come standard with LDA Large-Diameter Axles and feature Hendrickson's road-proven INTRAAX suspensions and an advanced slider box design. This lightweight platform slider offers weight savings over mechanical sliders and comparable air sliders.

See INTRAAX SP Platform Slider flyer - L792

Hendrickson's revolutionary ZMD® ZERO MAINTENANCE DAMPING® shockless ride technology is available on select models.



AAZL 23K



AAZNT 69K



AAZNT 46K

See Hendrickson publication L707, Application Guide, to determine the correct model for your needs or call **1.866.RIDEAIR (743.3247)**.

Standard INTRAAX® features can deliver black to your bottom line

Low Maintenance and Convenience — Save Time and Money

- Simple, functional design uses fewer parts — that means fewer parts to maintain
- QUIK-ALIGN® Pivot Connection — fast and easy axle realignment requires no welding or special tools
- TRI-FUNCTIONAL® Bushings — proven technology for mile after mile of dependable service
- Single source for comprehensive technical support, training and warranty



Performance Plus

- Low spring rates deliver superb ride quality
- High-capacity air springs with low operating pressures allow rapid air-up
- Rigid trailing arm with solid axle connection offers a stable and durable design
- TRI-FUNCTIONAL Bushings optimize ride softness and control
- Shock absorbers designed with premium seals and bonded bushings for long life
- Optional large-bore, high-damping shocks provide greater suspension control
- Quality-controlled assembly, including ABS sensor testing, ensures optimal performance



Responsive and Consistent Stopping Power

- Hendrickson's standard Cam Tube System™ enhances S-cam alignment and helps extend brake component life
 - Superior grease volume compared to spherical style camshaft assemblies
- 10-inch S-cam eliminates windup and reduces bushing wear
 - Up to a half-inch less stroke required
 - Provides more braking reserve — without the cost of long-stroke chambers
 - Lower air consumption, critical for ABS performance
 - Faster application and release cycles
- Heat-treated components for greater durability



Superior Axle Design



- LDA™ Large-Diameter Axles featured on most INTRAAX® and VANTRAAX® suspension systems
 - Lighter than comparable industry standard 5-inch axles, allowing more cargo per load
 - Bending and torsional stiffness increased for reduced deflection
 - Axle wrap, spindle and spider mounting surfaces are machined in one step to ensure precise brake geometry and wheel positioning
 - Brake hardware attached to trailing arms rather than welded to axle, minimizing the axle stress
- Straighter, neutral-toe axle helps improve tire life and fuel mileage
- Spindle, axle wrap and spider mounting surfaces machined in one step after friction welding to ensure precise brake geometry and wheel positioning — for enhanced brake life and efficiency
- Advanced axle wrap and window weld technology for optimal structural integrity
- Brake hardware attached to trailing arms rather than welded to axle, minimizing axle stress



Low-Maintenance Integrated Systems from a Single Source

- Long-term warranty on axle / beam connection*
- Leading structural warranty*
- Supported by OEMs, dealers and designated distributors throughout North America
- Backed by Hendrickson's outstanding technical support staff
- Quickly replace damaged axles without grinding or welding
- Wide availability of Hendrickson Genuine Parts



See Cam Tube System flyer - L1214

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INTRAAX® Sharpens Your Competitive Edge



Worldwide OEMs, fleets and owner-operators put their trust in INTRAAX® for advanced trailer air suspension technology.

An innovative integrated trailer air suspension / axle / brake system, INTRAAX tames demanding applications with a straightforward, functional design derived from sophisticated engineering. The INTRAAX family brings a breadth of models to meet your hauling challenges — top-mount, low-ride, extreme-duty, single and tandem sliders and liftable models in capacities from 20,000 to 30,000 pounds.

INTRAAX helps increase payload, protect cargo, ensure driver comfort and keep equipment operating at peak efficiency. For more information on INTRAAX, contact your local trailer dealer or Hendrickson at 1-866-RIDEAIR (743-3247).

INTRAAX® Specifications

	MODEL	SUSPENSION CAPACITY (lbs.)	AXLE RATING¹ (lbs.)	AXLE DIA. (Inches)	RIDE HEIGHT² (Inches)	BASE MODEL WEIGHT (lbs.)
PRIMARY	AANT 23K	23,000	23,000	LDA™	12, 13.5, 14, 15, 16, 17, 18, 19	490
	AAT 23K	23,000	23,000	LDA	13.5, 14, 15, 16, 17, 18, 19	528
	AAT 25K	25,000	25,000	LDA	13.5, 14, 15, 16, 17, 18, 19	551
	AAT 30K	30,000	25,000	LDA	13.5, 14, 15, 16, 17, 18, 19	555
	AANLS 20K	20,000	20,000	5	6.25, 7, 9, 12	542
	AANL 23K	23,000	23,000	LDA	6.5, 7.5, 8, 9, 12, 14, 15, 16, 17	521
	AAL 23K	23,000	23,000	LDA	6.5, 7.5, 8, 9, 12, 14, 15, 16, 17, 19	570
	AAL 25K	25,000	25,000	LDA	6.5, 7.5, 8, 9, 12, 14, 15, 16, 17, 19	586
	AAL 30K	30,000	25,000	LDA	9, 12, 14, 15, 16, 17, 19	612
SLIDER	AAZNT 23K	23,000	23,000	LDA	13.5, 14, 15, 16, 17	775³
	AAZNT 46K	46,000	23,000	LDA	13.5, 14, 15, 16, 17	1,444⁴
	AAZNT 69K	69,000	23,000	LDA	16, 16.5, 17, 18	2,180⁵
	AAZL 23K	23,000	23,000	LDA	6.5, 7.5, 8, 9, 12	880³
	AAZL 46K	46,000	23,000	LDA	6.5, 7.5, 8, 9, 12	1,656⁴

1. Axle structure rating only. Brakes rated separately

2. Frame bracket availability may vary by ride height

3. Based on 37-inch I-beam model

4. Based on 37-inch I-beam model with 49-inch axle spread

5. Based on 37-inch I-beam with 60-inch axle spread

For additional details and specifications, see the following Hendrickson publications: • **Application Guide - L707**

• **INTRAAX Top-Mount Specifications - L600** • **INTRAAX Low-Ride-Height / Liftable Specifications - L729** • **INTRAAX SP Specifications - L840**

These products are covered by at least one or more U.S. and / or foreign patents and / or pending U.S. and / or foreign patent applications. See Hendrickson for details.

Actual product performance may vary depending upon vehicle configuration, operation, service and other factors.

All applications must comply with applicable Hendrickson specifications and must be approved by the respective vehicle manufacturer with the vehicle in its original, as-built configuration.

Contact Hendrickson for additional details regarding specifications, applications, capacities, operation, service and maintenance instructions.

Call Hendrickson at 866.RIDEAIR (743.3247) for additional information.



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