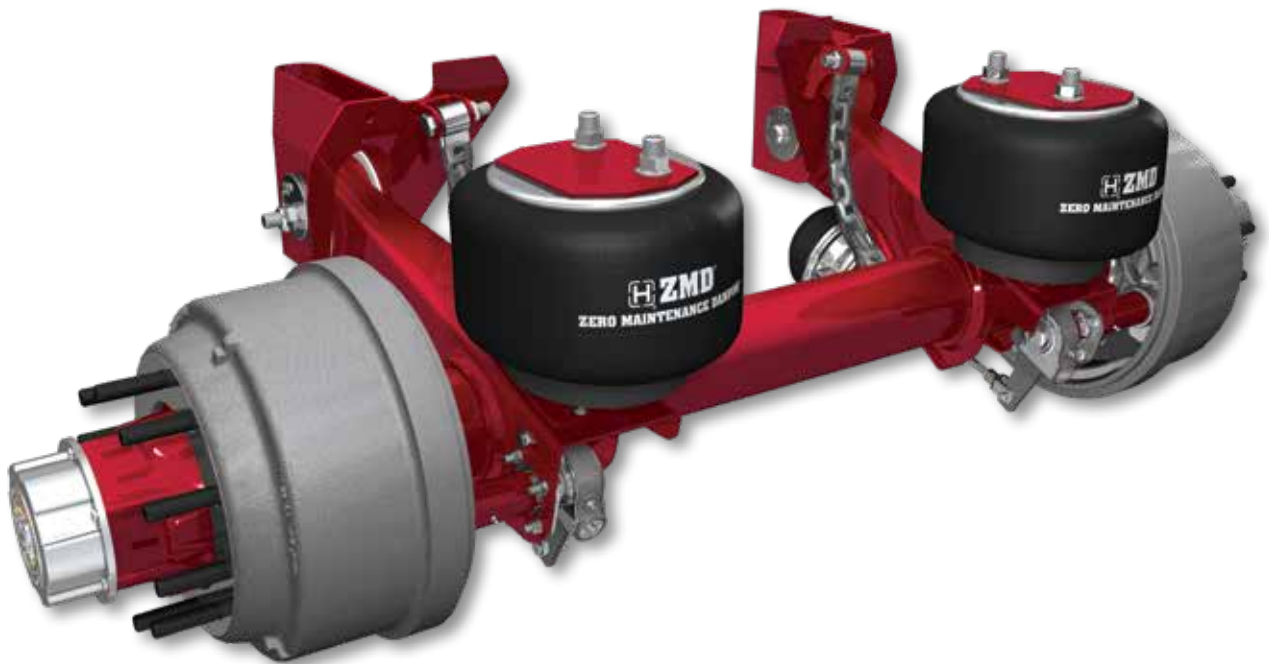




ZERO MAINTENANCE DAMPING™ Technology

Less Stress with Shockless Suspension

- Reduced Maintenance
- Increased Cargo Protection
- Less Trailer Wear



ZMD™ ZERO MAINTENANCE DAMPING™

- Eliminates conventional shock absorbers by integrating the damping function into the air spring
- Ideal for general freight applications
- Available as a premium option on selected INTRAAX® integrated air suspension models
- Suitable for GML and CML applications
- Tare weights as low as 394 kg
(including hangers and brake chambers)



To learn more about ZMD,
call Hendrickson or visit
www.shockless-zmd.com.au

H HENDRICKSON
The World Rides On Us®

How ZMD™ Works

As the axle moves up and down, pressurised air is exchanged between the bellows and the piston. By controlling this air flow, ZMD air springs provide continuous suspension damping for the entire life of the air spring.

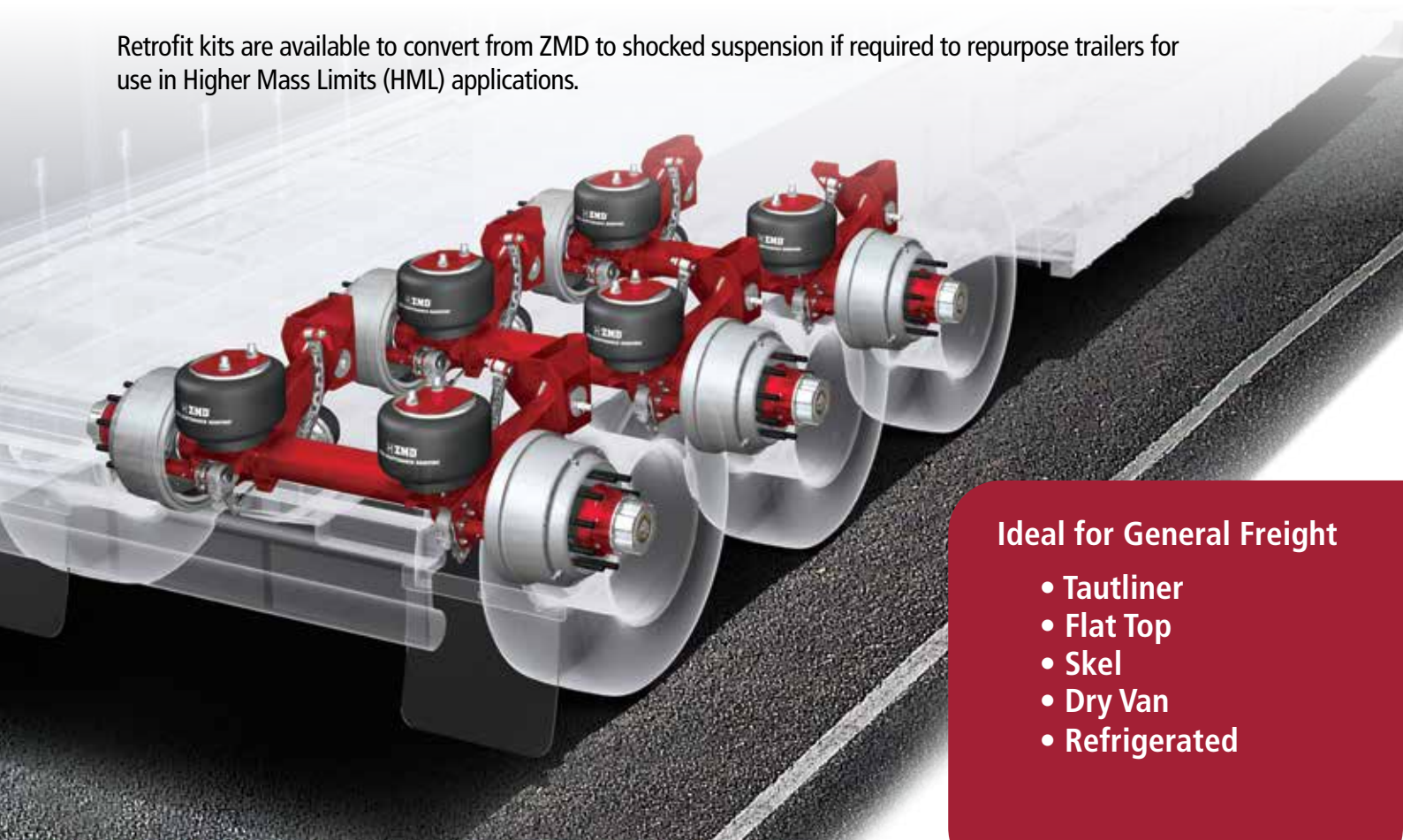


Did you know you can run ZMD™ on GML and CML applications?

Although ZMD is not road-friendly approved, road-friendly suspensions are not required to be fitted to your vehicle to comply with the requirements for either General Mass Limits (GML) or Concessional Mass Limits (CML) applications.

Hendrickson offers retrofit kits to convert selected INTRAAX® suspensions to ZMD.

Retrofit kits are available to convert from ZMD to shocked suspension if required to repurpose trailers for use in Higher Mass Limits (HML) applications.



Ideal for General Freight

- Tautliner
- Flat Top
- Skel
- Dry Van
- Refrigerated

ZMD™ Features and Benefits

No Shock Absorbers Required

- Reduced overall suspension maintenance

Patented Air Spring

- Enhanced cargo protection
- Increased trailer component life
- No moving parts or hydraulic fluid
- Uniform damping levels over the life of the air spring

Robust Down Stop

- Reduced labour and costs
- Less maintenance



Supports applicable Concessional Mass Limits (CML) requirements

Specifications

INTRAAX® MODEL	SUSPENSION CAPACITY (t)	RIDE HEIGHTS (inches)	BRAKES
AANT230	10.4	14, 15, 15HC, 16, 17, 19	Drum & Disc
AANL230	10.4	7.5, 9LJ, 10	Drum
AAT250	11.3	14, 15, 15HC 16, 17, 19	Drum & Disc
AAL250	11.3	7.5, 9LJ, 10	Drum

HC: High Control
LJ: Limited Jounce

Options

HXL7®

Extended-Life Wheel Bearing Package

- Five-year 1.2 million km on-highway warranty*
- Wheel-end is 100% serviceable
- Reduced maintenance costs



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

TIREMAAX® PRO

Advanced Tyre Pressure Control System

- Automatically inflates tyres using the trailer air supply
- Prevents overinflation by relieving air from the tyres back through the controller
- Constantly equalises pressure across all tyres



FREQUENTLY ASKED QUESTIONS



Scan for more info

1. Can ZMD™ air springs be used in Australian Higher Mass Limits (HML), Concessional Mass Limits (CML) and General Mass Limits (GML)?

ZMD can be used in CML and GML applications, but not in HML applications.

2. Can a trailer fitted with ZMD air springs be converted to be used in HML applications?

Yes. Hendrickson offers retrofit kits to convert from **ZMD** air springs and down stops to standard air springs and shock absorbers for use in HML applications. Hendrickson uses such conversion components in its line of Road Friendly-certified suspensions.

3. Can standard air springs be mixed with ZMD air springs?

No. Mixing **ZMD** air springs with standard air springs is not recommended.

While the load curves for each product are somewhat similar, they provide different damping performance to the suspension system. Mixing **ZMD** and standard air springs on the same trailer can adversely affect the operation and life of other integral suspension components.

4. How can customers tell the difference between a ZMD air spring and a standard air spring?

The customer must visually inspect the air spring to verify the type of air spring.

Identifiers include **ZMD** embossing on the bellows, the part number and down stops instead of shocks.

Similar to today's standard air springs, the Hendrickson part number will be located on the **ZMD** air spring bellows.

5. How long will a ZMD air spring typically last?

ZMD air springs are designed and manufactured to perform through similar life cycles as conventional Hendrickson air springs. The ZMD air spring is fully sealed with no moving parts like a conventional air spring.

6. Can a ZMD air spring be used in any lift axle suspension applications?

No. Suspensions fitted with **ZMD** air springs cannot be configured to provide sufficient ground clearance when lifted.

7. Can ZMD be retrofitted on existing trailers in service?

Yes. Hendrickson offers retrofit kits to convert selected INTRAAX® suspensions from standard air springs and shock absorbers to ZMD air springs and down stops.

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, and operation, service and maintenance instructions.

Call Hendrickson or visit our web site for additional information.



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