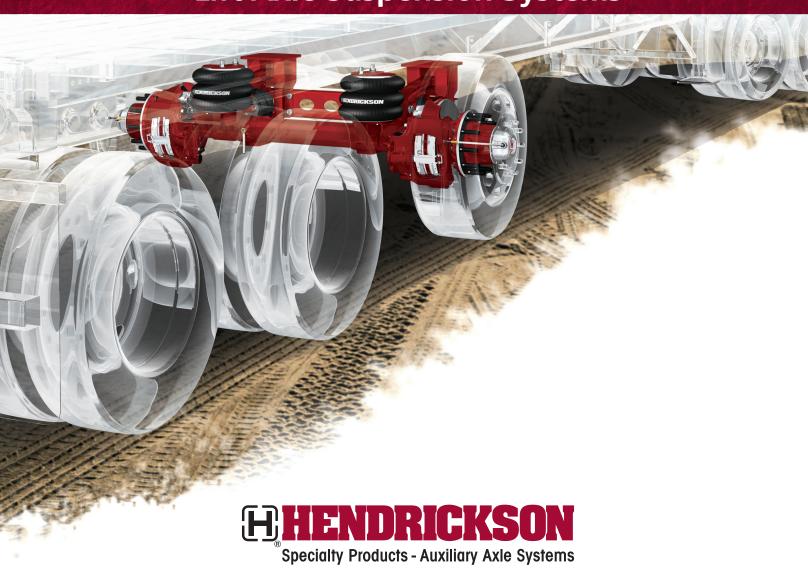


STEERABLE and **NON-STEERABLE**Lift Axle Suspension Systems



Hendrickson Specialty Products - Auxiliary Axle Systems Platform of TRAILER Lift Axle Suspension Systems

Hendrickson is a leading tier one OEM supplier of heavy-duty trailer lift axle suspension systems for the North American commercial vehicle industry. Our commitment to quality and product innovation drives the industry leadership position, thus promoting the development of products that help enhance performance and durability.

Hendrickson has an extensive field sales, parts and service organization to support our customers around the globe — trailer owners, dealers, fleets and OEMs. Our investment in new technologies will continue as we strive to deliver customers more value.

INNOVATION BUILT IN™

TABLE OF **CONTENTS**

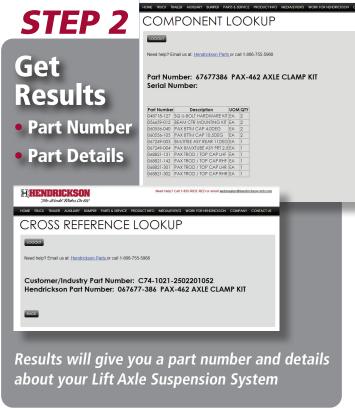
LIFT AXLE PARTS PLUS LOOKUP TOOL	2
TRAILER STEERABLE AXLE PRODUCTS	
COMPOSILITE®	
EXS (Weld-On or Bolt-On in 8, 10, 13.5 and 20K capacities)	3,4
TRAILER NON-STEERABLE AXLE PRODUCTS	
COMPOSILITE	
EXF (Weld-On or Bolt-On in 13.5 capacity)	5
TOUGHLIFT®	
FM (Weld-On or Bolt-On in 20 to 25K capacity)	6
Value-Added Features / Options Steerable Non-Steerable	
Air Control Systems Air Disc Brakes	8
Wheel-End Options COMPOSILITE EXF COMPOSILITE EXS	9 9
CUSTOMER SERVICE	10

HLIFT AXLE PARTS PLUS LOOKUP TOOL



Visit us on the web and spec your Lift Axle in a few clicks! www.hendrickson-intl.com/auxiliary



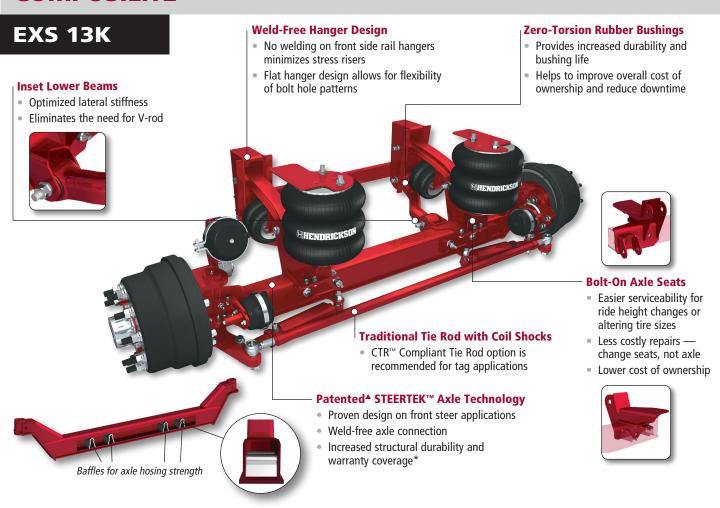


HHENDRICKSON

Steerable Lift Axle Suspension Systems

Hendrickson offers the COMPOSILITE® family of lift axle suspension systems for steerable trailer applications. The new COMPOSILITE EX series of lift axle suspension systems deliver the advantages trailer end-users have come to expect with Hendrickson products: reliability, cost-effectiveness and high quality. All steerable models now offer a bolt-on lock straight mount for easier installation. A secondary bump stop is incorporated into the axle seat to accommodate extreme loads.

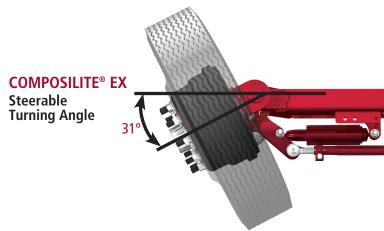
COMPOSILITE®



EXS 13K Specifications

Capacity: 13,500 pounds
Weight (with drum brakes): 913 pounds
Travel: 13 inches
Lift: Up to 10 inches
Wheel Cut: 31 degrees
Packaging Space: 22.1 inches

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



This product is 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.

COMPOSILITE®

EXS 20K



EXS 8/10K Specifications

Capacity:	10,000 pounds
Weight (with drum brakes):	805 pounds
Travel:	13 inches
Lift:	Up to 10 inches
Wheel Cut:	31 degrees
Packaging Space:	22.1 inches

EXS 8/10K Features

- Optimized package design
- Fabricated knuckle with 325 × 100 mm metric brake:
 - 325 × 100 mm metric brake for:
 - 8K: 6-hole H&D's for 17.5-inch wheel
 - 10K: 8-hole H&D's for 19.5-inch wheel



EXS 20K Specifications

Capacity:	20,000 pounds
Weight (with drum brakes):	1,357 pounds
Travel:	12 inches
Lift:	Up to 9 inches
Wheel Cut:	25 degrees
Packaging Space:	26.5 inches

EXS 20K Features

- Optimized package design
- Integrated knuckle and brake system
- 16.5 × 6 brake for super-single or flotation tires for use on approved rims

Non-Steerable Lift Axle Suspension Systems

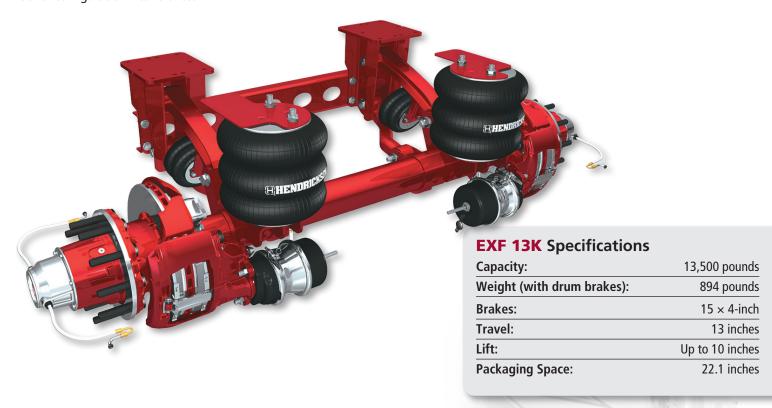
The non-steerable lift axle suspensions by Hendrickson also offer rugged reliability and durability. The COMPOSILITE® EX fixed series was built around a compact design with common components to the EX steerable line of lift axle suspensions for consistent features and use on the same vehicle. Hendrickson's TOUGHLIFT® platform of lift axle suspensions delivers a rugged round tube axle design to a wide range of trailer applications. Both product families complement the full line of non-steerable capacities ranging from 8,000 to 25,000 pounds.

The TOUGHLIFT FMW(B) is rated from 20,000 to 25,000 pounds and has proven its rugged effectiveness for the trailer market. The series is engineered to accommodate a wide range of ride heights with features like Hendrickson's TRI-FUNCTIONAL® bushing and QUIK-ALIGN® — similar to the HT™ and INTRAAX® bushing and alignment features.

COMPOSILITE®

EXF 13K (Weld-On or Bolt-On)

Hendrickson designed the COMPOSILITE® EXF fixed suspension with features and benefits of the steerable EXS steerable suspension system up to 13,500-pound capacity. The lightweight fabricated axle comes equipped with the EXS model's standard components, such as Hendrickson integrated 15 × 4-inch brake, zero-torsion bushings and identical air springs. A compact design helps improve installation for tight frame space availability while in-line air springs minimize package space and help reduce the risk of possible trailer configuration interferences.



TOUGHLIFT®

FM 20K-25K (Weld-On or Bolt-On)

Hendrickson's TOUGHLIFT® FMT non-steerable lift axle suspension system is engineered for rugged on- and off-highway applications accommodating the TRI-FUNCTIONAL® Bushing that helps absorb brake and acceleration forces while providing superior roll-control. The QUIK-ALIGN® feature simplifies the alignment process eliminating welding of the alignment collar. TOUGHLIFT FM (W/B) applications are available in 5/8- or 3/4-inch axle wall thicknesses and capacities up to 25,000 pounds.

FM (W/B) Specifications

Capacity:	Up to 25,000 pounds
Weight (with drum brakes):	1,125 pounds
Travel:	9.5 inches
Lift:	6.5 inches
Axle Type:	5-inch round
Packaging Space:	26.0 inches



Specifications

STEERABLE Lift Axle Specifications

DDAND	DD LUD		APPLICATION WEIGHT (lbs.)		RIDE
BRAND	MODEL	CAPACITY (lbs.)	DRUM BRAKE	AIR DISC BRAKE	HEIGHTS (inches)
COMPOSILITE®	EXS (W/B)8	8,000	805	N/A	12.5 - 21.5
	EXS (W/B)10	10,000	805	N/A	12.5 - 21.5
	EXS (W/B)13	13,500	913	940	8.5 - 21.5
	EXS (W/B)20	20,000	1,357	1,442	9.5 - 18.5

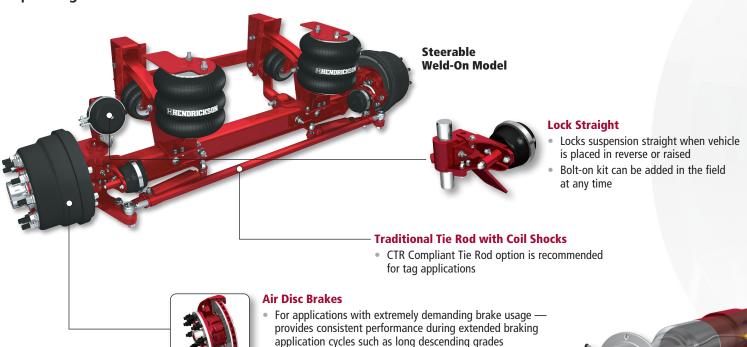
NON-STEERABLE Lift Axle Specifications

DDAND	l lane			N WEIGHT (lbs.)	RIDE
BRAND	MODEL	CAPACITY (lbs.)	DRUM BRAKE	AIR DISC BRAKE	HEIGHTS (inches)
COMPOSILITE	EXF (W/B)13	13,500	894	930	8.5 - 21.5
TOUGHLIFT	FM (W/B)20	20,000	1,125	1,185	9.0 - 17.0

W - Weld-On frame attachment

Value-Added Features / Options

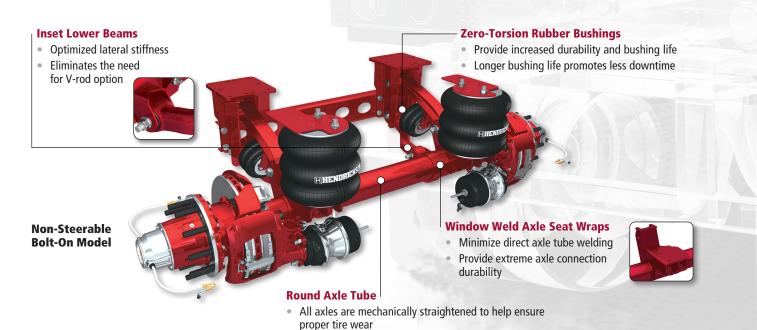
Hendrickson offers a variety of value-added options to help increase productivity for the end-user operating a lift axle.



Pre-Plumbed System

Integrated air system reduces installation time through pre-located air tank, hoses and valves

TIREMAAX® PRO or CP
plus the HXL packages
(Available on COMPOSILITE® EXF
or EXS and TOUGHLIFT® FM)



Multiple spindles and wheel-end options offered

Track length options made easier

Value-Added Features / Options (continued)

Air Control Systems — Lift Axles

AVAILABLE MODELS

		INSIDE-MOUNTED	OUTSIDE-MOUNTED (COMPOSITE)	OUTSIDE-MOUNTED (STAINLESS)	
z	Non-Steerable	LC-NSI	LC-UCO	IC IICO	
13 E	Steerable	LC-SSI	10-000	LC-USO	
LIFT AXLE APPLICAITON	Reverse Lift and Lock	LC-LSI	LC-LCO	LC-LSO	
PE	Reverse Down and Lock	LC-RSI	LC-RCO	LC-RSO	
⋖	Reverse Caster	LC-ASI	LC-ACO	LC-ASO	





Air Disc Brakes

Versatile Braking Application

Designed for extremely demanding brake usage applications, air disc brakes provide consistent performance during extended braking application cycles such as long descending grades. Combined with the market-leading lightweight advantages of COMPOSILITE® and TOUGHLIFT® axles, Hendrickson air disc packages deliver leading technology and the competitive edge fleets expect from Hendrickson.

To learn more about Air Disc Brakes, call (800) 660-2829 for the Lift Axle Models Available with Air Disc Brakes





COMPOSILITE® and TOUGHLIFT®

Strengthen your competitive edge

Worldwide, OEMs, fleets and owner-operators trust in Hendrickson for innovative trailer airlift suspension technology. For many years, the Hendrickson lift axle suspensions' increasing popularity has proven to handle the rigors of severe trailer applications. COMPOSILITE and TOUGHLIFT lift axle platforms bring a wide breadth of features to meet your hauling challenges. You have the choice of various ride height ranges for light- or extreme-duty applications, as well as single or dual tire accommodation for maximum capacity range and turning radius or wheel cut.

In demanding trailer lift axle applications, Hendrickson helps to increase your payload, protect your cargo and keep your equipment operating at peak efficiency.

For more information on the COMPOSILITE or TOUGHLIFT Trailer lift axle products, contact your local trailer dealer or Hendrickson Auxiliary Axle Systems (Specialty Products Group) at 1-800-660-2829.

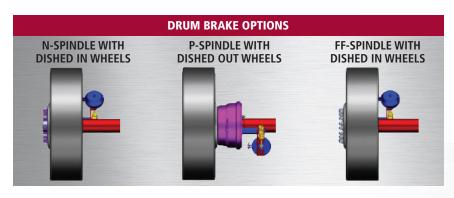
Hendrickson's COMPOSILITE® EX lift axles offer brake and wheel-end options that match the INTRAAX family of trailer axles. You can now have the equivalent Hendrickson TIREMAAX®, HXL and Hendrickson MAXX22T™ air disc brakes packages across all trailer positions.

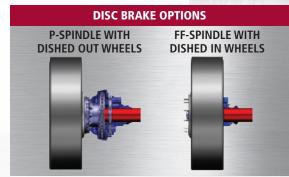
COMPOSILITE® EXF Wheel-End Options

DRUM BRAKE OPTIONS					
Spindle / Hub Material	TIREMAAX®	HXL3® / HXL5® Wheel-Ends	H Standard Wheel-End		
N-Spindle / DI Single Wheels Dished In	Yes 13,500 lbs. Axle Rating	Yes 13,500 lbs. Axle Rating	Yes 13,500 lbs. Axle Rating		
P-Spindle / DI Single Wheels Dished Out	Yes 13,200 lbs. Axle Rating	Yes 13,200 lbs. Axle Rating	Yes 13,200 lbs. Axle Rating		
FF-Spindle / DI or AL Single Wheels Dished In	Not Available	Not Available	Yes 13,500 lbs. Axle Rating		
	DISC BRAKE OPTIONS - H	ENDRICKSON MAXX22T™			
Spindle / Hub Material	TIREMAAX	HXL3 / HXL5 Wheel-Ends	[H] Standard Wheel-End		
P-Spindle / DI Single Wheels Dished Out	Yes 12,200 lbs. Axle Rating	Yes 12,200 lbs. Axle Rating	Yes 12,200 lbs. Axle Rating		
DISC BRAKE OPTIONS - BENDIX ADB22X					
Spindle / Hub Material TIREMAAX HXL3 / HXL5 Wheel-Ends HStandard Wheel-End					
P-Spindle / DI Single Wheels Dished Out	Yes 11,000 lbs. Axle Rating	Yes 11,000 lbs. Axle Rating	Yes 11,000 lbs. Axle Rating		
FF-Spindle / DI or AL Single Wheels Dished In	Not Available	Not Available	Yes 13,500 lbs. Axle Rating		

COMPOSILITE® EXS Wheel-End Options

COMI OSILITE EX	Wileel-Lild Options				
13K DRUM BRAKE OPTIONS					
Spindle / Hub Material	TIREMAAX®	HXL3® / HXL5® Wheel-Ends	H Standard Wheel-End		
N-Spindle / DI Single Wheels Dished In	Yes	Yes	Yes		
FF-Spindle / DI, ADI or AL Single Wheels Dished In	Not Available	Not Available	Yes		
	13K DISC BRAKE	OPTIONS - BENDIX			
Spindle / Hub Material	TIREMAAX	HXL3 / HXL5 Wheel-Ends	H Standard Wheel-End		
FF-Spindle / DI or AL Single Wheels Dished In	Not Available	Not Available	Yes		
	20K DRUM BI	RAKE OPTIONS			
Spindle / Hub Material	TIREMAAX	HXL3 / HXL5 Wheel-Ends	⊞Standard Wheel-End		
FL-Spindle / DI Single Wheels Dished In	Not Available	Not Available	Yes		
20K DISC BRAKE OPTIONS - BENDIX					
Spindle / Hub Material	TIREMAAX	HXL3 / HXL5 Wheel-Ends	⊞Standard Wheel-End		
FL-Spindle / DI or AL Single Wheels Dished In	Not Available	Not Available	Yes		



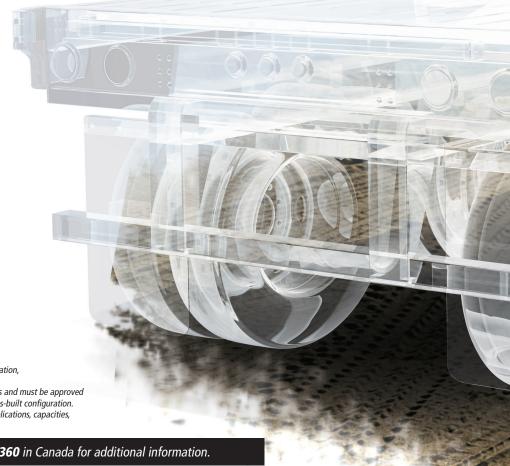


Customer Service

Hendrickson Lift Axle Suspension Systems — We'll put it all together for you



AUXILIARY TRAILER





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 at 800.660.2829 or 800.668.5360 in Canada for additional information.

HHENDRICKSON

www.hendrickson-intl.com

H770 Rev D 03-21

SPECIALTY PRODUCTS -AUXILIARY AXLE SYSTEMS

277 North High Street Hebron, OH 43025 USA 800.660.2829 740.929.5600 • Fax 740.929.5601 **Hendrickson Canada**

250 Chrysler Drive, Unit #3 Brampton, ON Canada L6S 6B6 800.668.5360 905.789.1030 • Fax 905.789.1033