

# COMPOSILITE® / TOUGHLIFT®

Roll-Off Lift Axle Suspension Systems



- Winning reputation
- Optimum performance
- Rugged reliability
- Leading innovation
- Proven durability



FM Roll-Off



EXS Roll-Off



EXF Roll-Off

To learn more about COMPOSILITE and TOUGHLIFT,  
call 800.660.2829 or visit [www.hendrickson-intl.com](http://www.hendrickson-intl.com)

**HENDRICKSON**  
*The World Rides On Us®*

## COMPOSILITE® Lift Axle Suspension System

### A family of lift axle suspensions specifically for Class 8 roll-off vehicles

Hendrickson offers COMPOSILITE® lift axle suspensions for roll-off series vehicle applications. The popular COMPOSILITE family is available in 13,500- to 20,000-pound capacities. The roll-off series fits flat to the frame giving maximum clearance from cylinder beams, attachments and sliding components. Scalloped hangers aid in the clearance around roll-off cylinders.

The ride springs and parallelogram components are positioned inside the frame rails. Beams are spaced inboard one inch for additional clearance and unique air spring plates mount to the inside of the frame rail.

The roll-off models shown are adjustable and allow for most variable truck frame widths and ride heights.

### EXS13 Roll-Off Steerable Lift Axle Suspension System *Features and Benefits*

#### **Inset Parallelogram Beams**

- Spaced inboard one inch for extra cylinder clearance and to ensure lift plates remain parallel for longer air spring life

#### **Inboard-Mounted Ride Springs**

- Provide additional clearance from the roll-off cylinders

#### **Hendrickson Integrated Brakes**

- 15 × 4-inch brakes and components make maintenance quick and easy

#### **Scalloped Hanger**

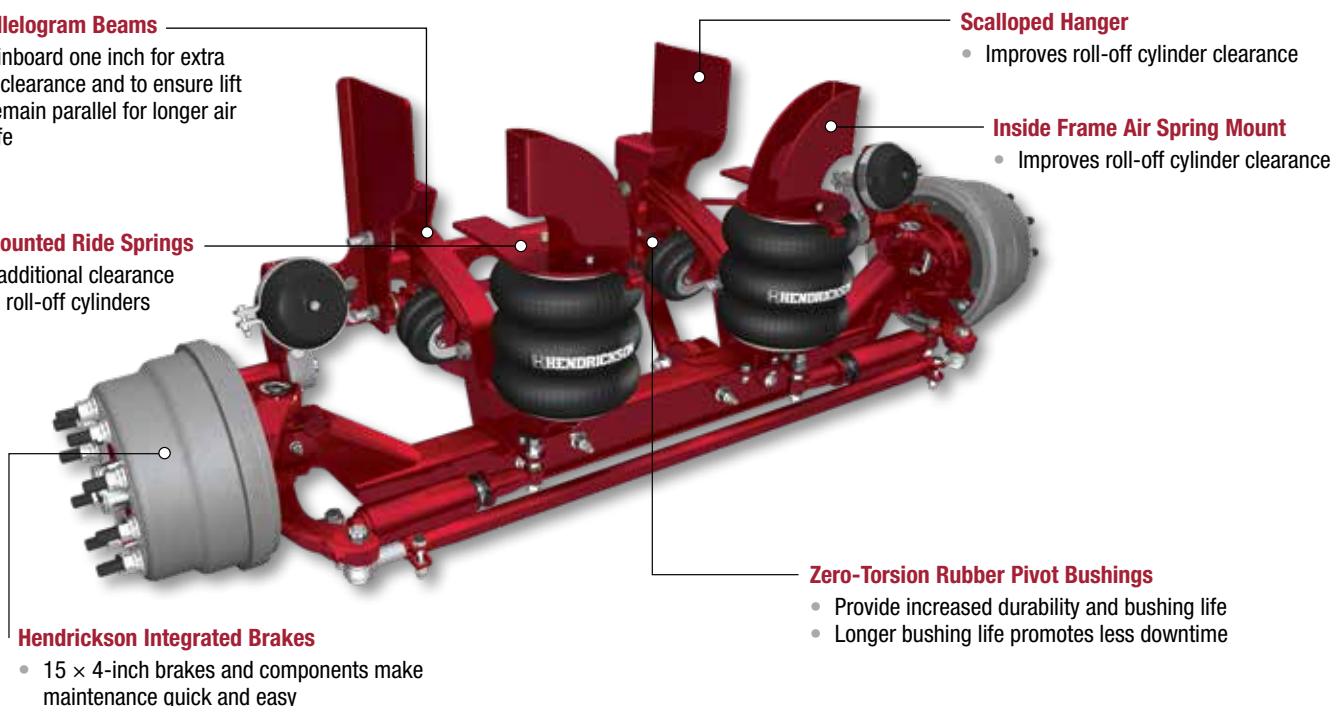
- Improves roll-off cylinder clearance

#### **Inside Frame Air Spring Mount**

- Improves roll-off cylinder clearance

#### **Zero-Torsion Rubber Pivot Bushings**

- Provide increased durability and bushing life
- Longer bushing life promotes less downtime



### EXF13 Roll-Off Non-Steerable Lift Axle Suspension System *Features and Benefits*

#### **Inset Parallelogram Beams**

- Lightweight material while helping to ensure proper wheel tracking and to ensure lift plates remain parallel for longer air spring life

#### **In-Line Air Springs**

- Maximize packaging space and help remove the risk of possible driveline interference

#### **Hendrickson Integrated Brakes**

- 15 × 4-inch brakes and components make maintenance quick and easy

#### **Scalloped Hanger**

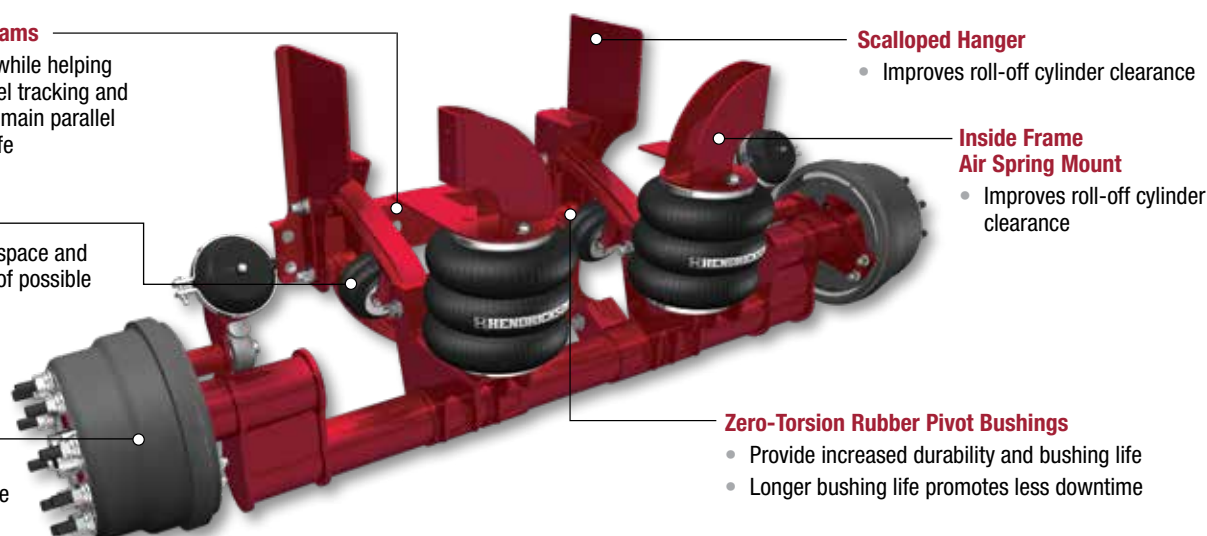
- Improves roll-off cylinder clearance

#### **Inside Frame Air Spring Mount**

- Improves roll-off cylinder clearance

#### **Zero-Torsion Rubber Pivot Bushings**

- Provide increased durability and bushing life
- Longer bushing life promotes less downtime



## EXS13 Roll-Off Steerable Lift Axle Suspension System *Features and Benefits*

- Delivers passive steer Ackerman effectively controlling the relationship between inside wheel turn angle and outside wheel turn angle
- Up to 31 degrees of inside wheel cut
- Uses steering damper design to optimize road feel for lift axle use
- Inset parallelogram beams with zero-torsion rubber bushings
- Hendrickson integrated drum brakes with air disc brake option
- Available with standard tie rod or Hendrickson CTR as an option
- Hendrickson lightweight fabricated axle

### SPECIFICATIONS

Capacity:	13,500 pounds
Weight:	1,070 pounds
Travel:	13.5 inches
Lift:	8.5 +/- 1 inch
Package Space:	28 inches
Wheel Cut:	Up to 31 degrees

## EXS20 Roll-Off Steerable Lift Axle Suspension System *Features and Benefits*

- Up to 22 degrees of inside wheel cut
- Uses steering damper design to optimize road feel for lift axle use
- Inset parallelogram beams with zero torsion rubber bushings
- Hendrickson integrated drum brakes with air disc brake option
- Hendrickson lightweight fabricated axle

### SPECIFICATIONS

Capacity:	20,000 pounds
Weight:	1,393 pounds
Travel:	12 inches
Lift:	8 +/- 1 inch
Package Space:	34 inches
Wheel Cut:	Up to 22 degrees

## EXF13 Roll-Off Non-Steerable Lift Axle Suspension System *Features and Benefits*

- Scalloped hanger
- Hendrickson lightweight fabricated axle
- Hendrickson integrated drum brakes with air disc brake option
- Inboard-mounted air springs
- Inset parallelogram beams with zero-torsion rubber bushings

### SPECIFICATIONS

Capacity:	13,500 pounds
Weight:	933 pounds
Travel:	13 inches
Lift:	8 +/- 1 inch
Package Space:	31 inches



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

## TOUGHLIFT® Lift Axle Suspension System

Hendrickson offers the TOUGHLIFT® FMO as a roll-off application. This roll-off model is available at 25,000-pound capacity and offers everything our customers expect from the TOUGHLIFT FM (previously HLM) family of lift axle suspensions. Fitting flat to the frame, it provides enhanced clearance from roll-off cylinder beams and other sliding components. Scalloped hangers also aid in the clearance around roll-off cylinders.

### TOUGHLIFT FMO 20 / 25K Roll-Off Lift Axle Suspension System *Features and Benefits*

#### SPECIFICATIONS

Capacity:	up to 25,000 pounds
Weight:	1,203 pounds
Travel:	9.5 inches
Lift:	5.5 inches
Axle Type:	5-inch round
Package Space:	45 inches

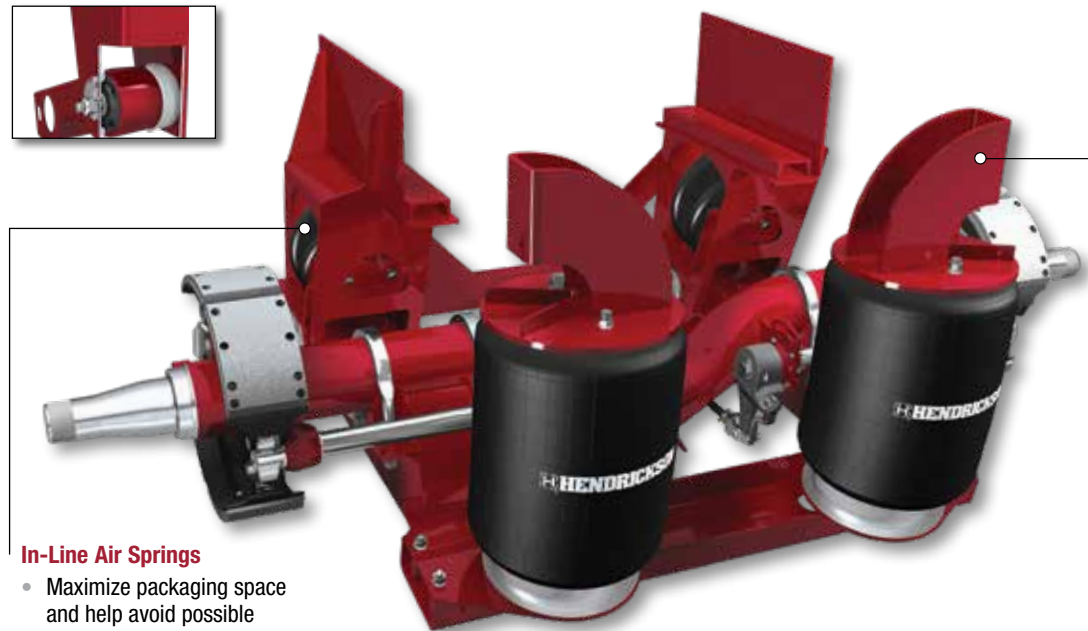
#### QUIK-ALIGN® Axle Alignment Feature

- Simplifies the alignment process



#### TRI-FUNCTIONAL® Bushings

- Absorb brake and acceleration forces



#### In-Line Air Springs

- Maximize packaging space and help avoid possible driveline interference

#### Inside Frame Air Spring Mount

- Improves roll-off cylinder clearance

**Hendrickson Genuine Parts** are the same quality components installed in Hendrickson original equipment suspensions — consisting of the same design, construction, performance and durability. There's only one way to maintain and protect your suspension's original performance. Ask for the name synonymous with the finest manufactured suspensions in the world.

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 **800.660.2829** or **800.668.5360** in Canada for additional information.



www.hendrickson-intl.com



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