

# TORQUE RODS

Truck Torque Rods



- Extended bushing life
- Weight efficient
- High strength



Hendrickson remains a pioneer in the commercial vehicle suspension systems industry through the unrelenting pursuit of innovation and quality for the past century. We are a leader in the advancement of suspension and component technology as a result of more than 60 years of development and over 20 years of elastomer manufacturing experience. These accomplishments allow us to fully integrate systems, modules and components that meet commercial vehicle owners' demands for durability, weight savings and low lifecycle costs.

To learn more about TORQUE RODS,  
call 855.743.3733 or visit [www.hendrickson-intl.com](http://www.hendrickson-intl.com)

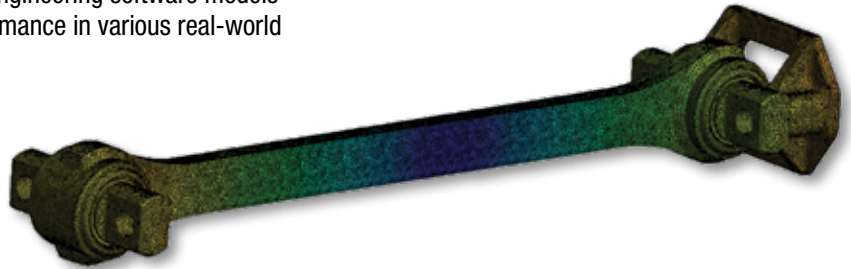
**HENDRICKSON**  
*The World Rides On Us®*

# TORQUE RODS

## Durability Tested to Hendrickson's Rigorous Standards

Component development begins with state-of-the-art engineering software models to identify stress points and simulate suspension performance in various real-world road and load conditions.

Initial designs are then built and tested in our advanced research lab and installed on vehicles for validation in the field.



## Integrated Concept Development in Collaboration with Suspensions and Springs

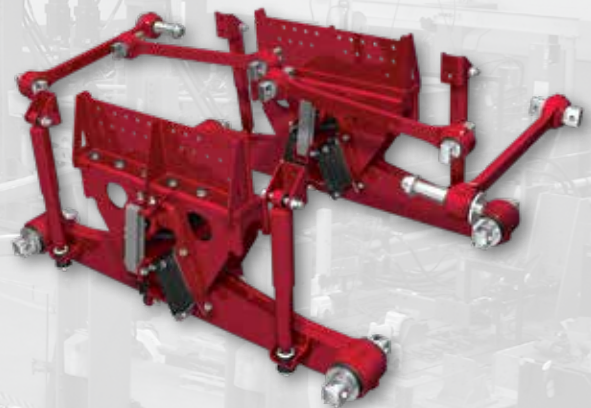
Our labs feature advanced testing equipment that can test a full range of products to include specific components to complete suspension systems.

These simultaneous testing and design capabilities reduce time to market and further enhance full suspension system quality.



## Optimized System Performance and Weight to Meet Application Criteria

All components are designed to strict product requirements, just like our full spring assemblies and suspension systems. Hendrickson understands the importance of each component being designed to meet evolving application criteria.



# TRAAX ROD®

Family of Torque Rods

## TRAAX ROD® Advantage

- **Extended Life**

Advanced bushings and flat rod body construction work together to provide up to 5 times the performance life of conventional double shot bushings.\*

- **Encapsulated Bushing / Curled Hub**

Pre-compressed bushing to harness energy for superior durability and performance. TRAAX ROD bushings are encapsulated to help prevent walkout and are non-rebushable.

- **Broad Application**

Bushing and rod bodies specifically designed for demanding capacity and application criteria.

*See Torque Rod Application Guide later in this publication.*

- **Weight Efficiency with High Strength**

No castings needed. Manufactured using high strength materials utilizing Hendrickson's expertise in robotically-welded fabrications.

- **Packaging**

Available in a variety of lengths and hub sizes. Easily replaces and upgrades standard torque rods in the market.

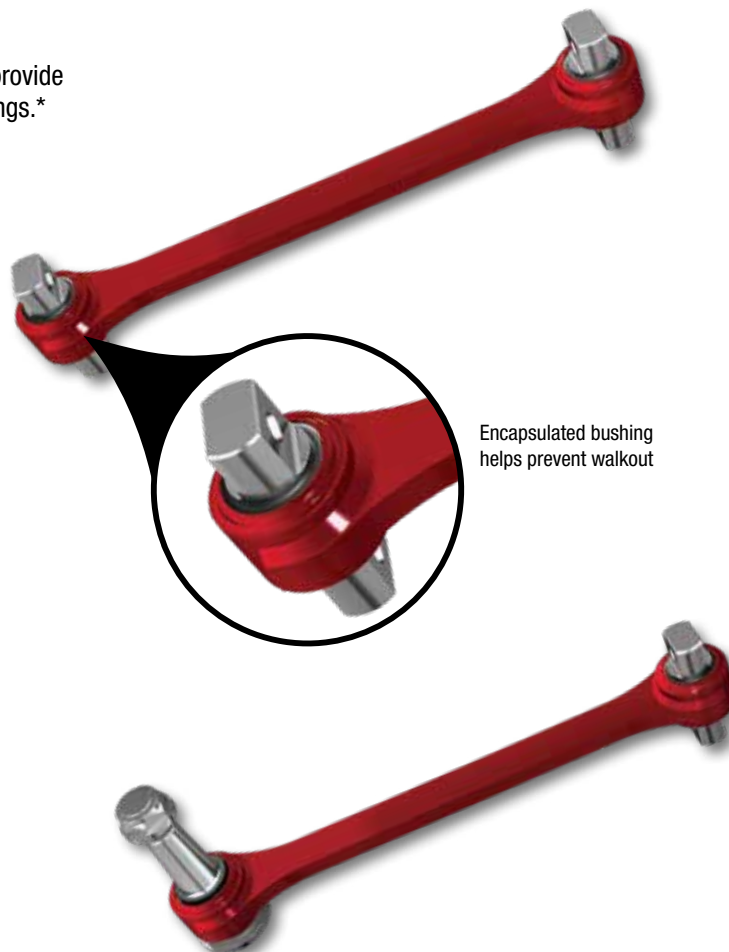
- **Multiple Bushing Configurations**

Available with straddle or taper pin bushing designs.

- **Durability**

Rod body and bushing designs meet Hendrickson's rigorous testing parameters.

\* Based on internal testing of bushing walkout, retention and durability. Actual product performance may vary depending on component and vehicle configuration, operation, service and other factors.



To learn more about  
TRAAX ROD, visit  
[www.TRAAXRODS.com](http://www.TRAAXRODS.com)

## TRAAX ROD® Bushings

### Straddle



**Heavy-Duty**



**Severe-Duty**

### Taper



**Taper Pin**

Offering a wide variety of bushing designs to meet global application or attachment requirements, we customize solutions to deliver extended performance and restrict walkout. Whatever the application requires – reliability, outstanding durability, articulation, innovative designs – we are pushing the boundaries of torque rod performance for your vehicle needs.

**– For more information on TRAAX ROD torque rod and bushing combinations, refer to the Hendrickson publication 45745-148.**

# ULTRA ROD®

## Family of Torque Rods

### One-Piece Rods

ULTRA ROD® torque rods are forged or cast body construction with unique bonded bushings. Both forged and cast rod bodies provide structural integrity, while the unique bonded bushings reduce the friction and heat that can damage ordinary bushings — providing longer life and greater payload.

- Available for use in on-highway and vocational applications
  - Designed for straddle or taper bushing configurations
  - Bushing and rod bodies specifically designed for demanding capacity and application criteria.
- See Torque Rod Application Guide later in this publication.*



### Two-Piece Rods for Light to Severe-Duty Applications

Two-piece ULTRA ROD torque rods are an excellent replacement option for one-piece torque rods for both on-highway and vocational applications. Two-piece design allows for minimal part number stocking and covers multiple one-piece configurations.

- Cut to length to simplify part availability
  - Available with or without bushings
  - Bushing and rod bodies specifically designed for demanding capacity and application criteria.
- See Torque Rod Application Guide later in this publication.*



– For more information on ULTRA ROD bushing combinations, refer to the Hendrickson publication 45745-148.

**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 that is synonymous with the finest manufactured suspensions in the world.



# Torque Rod Application Guide

1. Find Application

2. Determine Rod Position

3. Select Suspension

4. Match with Torque Rod

			Rear Air Suspension System & Rating (lbs.)							
Torque Rod Application Matrix			HAS™		COMFORT AIR®				PRIMAAX® EX / FIREMAAX® EX	
			≤ 40,000	46,000	≤ 21,000	23,000	40,000	46,000	< 46,000	≥ 46,000
Application	Segment	Rod Position	Percent Off-Highway							
			≤ 25%		≤ 25%				100%	
Beverage	On-Highway	Transverse	ULTRA ROD®						Heavy-Duty TRAAX ROD®	
Building Materials / Construction	Vocational		ULTRA ROD	Heavy-Duty TRAAX ROD	ULTRA ROD	Heavy-Duty TRAAX ROD	Contact Hendrickson	Heavy-Duty TRAAX ROD	ULTRA ROD	Heavy-Duty TRAAX ROD
Crane / Boom			Contact Hendrickson for torque rod approval in these applications						Heavy-Duty TRAAX ROD	Heavy-Duty TRAAX ROD
Dump			ULTRA ROD	Heavy-Duty TRAAX ROD	ULTRA ROD	Heavy-Duty TRAAX ROD	Contact Hendrickson	Heavy-Duty TRAAX ROD		
Local Pickup & Delivery	On-Highway		ULTRA ROD							Heavy-Duty TRAAX ROD
Logging	Severe		Heavy-Duty TRAAX ROD		Contact Hendrickson for torque rod approval in these applications				Heavy-Duty TRAAX ROD	
Mining			Contact Hendrickson for torque rod approval in these applications							
Mixer (Concrete) - Front Discharge	Vocational								ULTRA ROD	Heavy-Duty TRAAX ROD
Mixer (Concrete) - Rear Discharge										
Municipal			ULTRA ROD	Heavy-Duty TRAAX ROD	ULTRA ROD	Heavy-Duty TRAAX ROD	Contact Hendrickson	Heavy-Duty TRAAX ROD		
Oil Field	Severe		Contact Hendrickson for torque rod approval in these applications						Heavy-Duty TRAAX ROD	
Pumper (Concrete)	Vocational								ULTRA ROD	Heavy-Duty TRAAX ROD
Refuse (Front & Rear Loader)										
Refuse Side Loader / Roll-Off Containers										
Regional Haul	On-Highway		ULTRA ROD							
Snowplow	Vocational		Heavy-Duty TRAAX ROD				Contact Hendrickson	Heavy-Duty TRAAX ROD	ULTRA ROD	Heavy-Duty TRAAX ROD
Tank (Milk)			Contact Hendrickson for torque rod approval in these applications						Heavy-Duty TRAAX ROD	
Tank (Fuel, Water & Dry)			ULTRA ROD	Heavy-Duty TRAAX ROD	ULTRA ROD	Heavy-Duty TRAAX ROD	Contact Hendrickson	Heavy-Duty TRAAX ROD		
Tank (Airport Refueler)	Severe		Contact Hendrickson for suspension approval in these applications							

**Note:** Applicable one-piece and two-piece ULTRA ROD part numbers are approved for use in each above-referenced ULTRA ROD application listing. See Hendrickson publication 45745-148 for further information.

**Note:** Transverse torque rods are required for certain Hendrickson rear suspension models and applications. See Hendrickson publications 59310-004 and 59310-058 for further information.

## Torque Rod Application Guide (Cont)

			Rear Air Suspension System & Rating (lbs.)							
Torque Rod Application Matrix			HAS™		COMFORT AIR®				PRIMAAX® EX / FIREMAAX® EX	
			≤ 40,000	46,000	≤ 21,000	23,000	40,000	46,000	< 46,000	≥ 46,000
Application	Segment	Rod Position	Percent Off-Highway							
			≤ 25%		≤ 25%				100%	
Tractor (On-Highway)	On-Highway	Transverse	ULTRA ROD®							
Tractor (Heavy-Haul)	Severe		Heavy-Duty TRAAX ROD®		ULTRA ROD	Heavy-Duty TRAAX ROD	Contact Hendrickson for torque rod approval in these applications	Heavy-Duty TRAAX ROD	Heavy-Duty TRAAX ROD	
Tow Truck (Hook, Roll-Back)	Vocational		ULTRA ROD	Heavy-Duty TRAAX ROD				Heavy-Duty TRAAX ROD		
Utility			ULTRA ROD	Heavy-Duty TRAAX ROD				Heavy-Duty TRAAX ROD		
Wrecker Service	Severe		Heavy-Duty TRAAX ROD					Heavy-Duty TRAAX ROD	Heavy-Duty TRAAX ROD	
Emergency / Aerial / Ladder / Fire / Rescue / Tanker	Fire / Rescue		Contact Hendrickson for torque rod approval in these applications							
Pumper (Emergency)										
Tanker (Emergency)										

			Walking Beam Suspension System & Rating (lbs.)								
Torque Rod Application Matrix			HAULMAAX® EX			ULTIMAAX®				RT™	
			≤ 40,000	46,000	52,000	≤ 46,000	52,000	60,000	70,000	40,000	46 - 52,000
Application	Segment	Rod Position	Percent Off-Highway								
			100%								
Beverage	On-Highway	Longitudinal	Contact Hendrickson for torque rod approval in these applications								
		Transverse									
Building Materials / Construction	Vocational	Longitudinal	ULTRA ROD®		Heavy-Duty TRAAX ROD	V-Rod or Severe-Duty TRAAX ROD	ULTRA ROD	Heavy-Duty TRAAX ROD	Severe-Duty TRAAX ROD		
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD®							
Crane / Boom	Vocational	Longitudinal	ULTRA ROD								
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD							
Dump	Vocational	Longitudinal	ULTRA ROD								
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD							
Local Pickup & Delivery	On-Highway	Longitudinal	ULTRA ROD		Contact Hendrickson for torque rod approval in these applications		ULTRA ROD				
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD							

**Note:** Applicable one-piece and two-piece ULTRA ROD part numbers are approved for use in each above-referenced ULTRA ROD application listing. See Hendrickson publication 45745-148 for further information.

**Note:** Transverse torque rods are required for certain Hendrickson rear suspension models and applications. See Hendrickson publications 59310-004 and 59310-058 for further information.

# Torque Rod Application Guide (Cont)

			Walking Beam Suspension System & Rating (lbs.)									
Torque Rod Application Matrix			HAULMAAX® EX			ULTIMAAX®				RT™		
			≤ 40,000	46,000	52,000	≤ 46,000	52,000	60,000	70,000	40,000	46 - 52,000	60 - 70,000
Application	Segment	Rod Position	Percent Off-Highway									
			100%									
Logging	Severe	Longitudinal	ULTRA ROD®		Heavy-Duty TRAAX ROD	V-Rod or Severe-Duty TRAAX ROD	ULTRA ROD	Heavy-Duty TRAAX ROD®	Severe-Duty TRAAX ROD			
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD			Contact Hendrickson for torque rod approval in these applications	Contact Hendrickson for torque rod approval in these applications				
Mining		Longitudinal	Contact Hendrickson for torque rod approval in these applications		Heavy-Duty TRAAX ROD		Contact Hendrickson for torque rod approval in these applications	Contact Hendrickson for torque rod approval in these applications				
		Transverse										
Mixer (Concrete) - Front Discharge	Vocational	Longitudinal	ULTRA ROD		Heavy-Duty TRAAX ROD	V-Rod or Severe-Duty TRAAX ROD	ULTRA ROD	Heavy-Duty TRAAX ROD	Severe-Duty TRAAX ROD			
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD								
Mixer (Concrete) - Rear Discharge		Longitudinal	ULTRA ROD		Heavy-Duty TRAAX ROD							
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD								
Municipal		Longitudinal	ULTRA ROD		Heavy-Duty TRAAX ROD							
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD								
Oil Field	Severe	Longitudinal	ULTRA ROD		Heavy-Duty TRAAX ROD	V-Rod or Severe-Duty TRAAX ROD	ULTRA ROD	Heavy-Duty TRAAX ROD	Severe-Duty TRAAX ROD			
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD								
Pumper (Concrete)	Vocational	Longitudinal	ULTRA ROD		Heavy-Duty TRAAX ROD	V-Rod or Severe-Duty TRAAX ROD	ULTRA ROD	Heavy-Duty TRAAX ROD	Severe-Duty TRAAX ROD			
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD								
Refuse (Front & Rear Loader)		Longitudinal	ULTRA ROD									
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD								
Refuse Side Loader / Roll-Off Containers		Longitudinal	ULTRA ROD									
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD								
Regional-Haul	On-Highway	Longitudinal	Contact Hendrickson for torque rod approval in these applications									
		Transverse										
Snowplow	Vocational	Longitudinal	ULTRA ROD		Heavy-Duty TRAAX ROD	V-Rod or Severe-Duty TRAAX ROD	ULTRA ROD	Heavy-Duty TRAAX ROD	Severe-Duty TRAAX ROD			
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD								
Tank (Milk)		Longitudinal	ULTRA ROD									
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD								
Tank (Fuel, Water & Dry)		Longitudinal	ULTRA ROD									
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD								
Tank (Airport Refueler)	Severe	Longitudinal	ULTRA ROD		Heavy-Duty TRAAX ROD	V-Rod or Severe-Duty TRAAX ROD	ULTRA ROD	Heavy-Duty TRAAX ROD	Severe-Duty TRAAX ROD			
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD								

**Note:** Applicable one-piece and two-piece ULTRA ROD part numbers are approved for use in each above-referenced ULTRA ROD application listing. See Hendrickson publication 45745-148 for further information.

**Note:** Transverse torque rods are required for certain Hendrickson rear suspension models and applications. See Hendrickson publications 59310-004 and 59310-058 for further information.

# Torque Rod Application Guide (Cont)

			Walking Beam Suspension System & Rating (lbs.)									
Torque Rod Application Matrix			HAULMAAX® EX			ULTIMAAX®				RT™		
			≤ 40,000	46,000	52,000	≤ 46,000	52,000	60,000	70,000	40,000	46 - 52,000	60 - 70,000
Application	Segment	Rod Position	PERCENT OFF-HIGHWAY									
			100%									
Tractor (On-Highway)	On-Highway	Longitudinal	Contact Hendrickson for torque rod approval in these applications									
		Transverse										
Tractor (Heavy-Haul)	Severe	Longitudinal	ULTRA ROD®		Heavy-Duty TRAAX ROD	V-Rod or Severe-Duty TRAAX ROD	ULTRA ROD	Heavy-Duty TRAAX ROD	Severe-Duty TRAAX ROD			
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD								
Utility	Vocational	Longitudinal	ULTRA ROD									
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD								
Wrecker Service	Severe	Longitudinal	ULTRA ROD									
		Transverse	ULTRA ROD	Heavy-Duty TRAAX ROD								
Emergency / Aerial / Ladder / Fire / Rescue / Tanker	Fire / Rescue	Longitudinal	Heavy-Duty TRAAX ROD									
		Transverse										
Pumper (Emergency)		Longitudinal										
		Transverse										
Tanker (Emergency)		Longitudinal										
		Transverse										

**Note:** Applicable one-piece and two-piece ULTRA ROD part numbers are approved for use in each above-referenced ULTRA ROD application listing. See Hendrickson publication 45745-148 for further information.

**Note:** Transverse torque rods are required for certain Hendrickson rear suspension models and applications. See Hendrickson publications 59310-004 and 59310-058 for further information.



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 **630.910.2800** or **855.RIDERED (743.3733)** for additional information.



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