

HRT™ / RTE™ SERIES

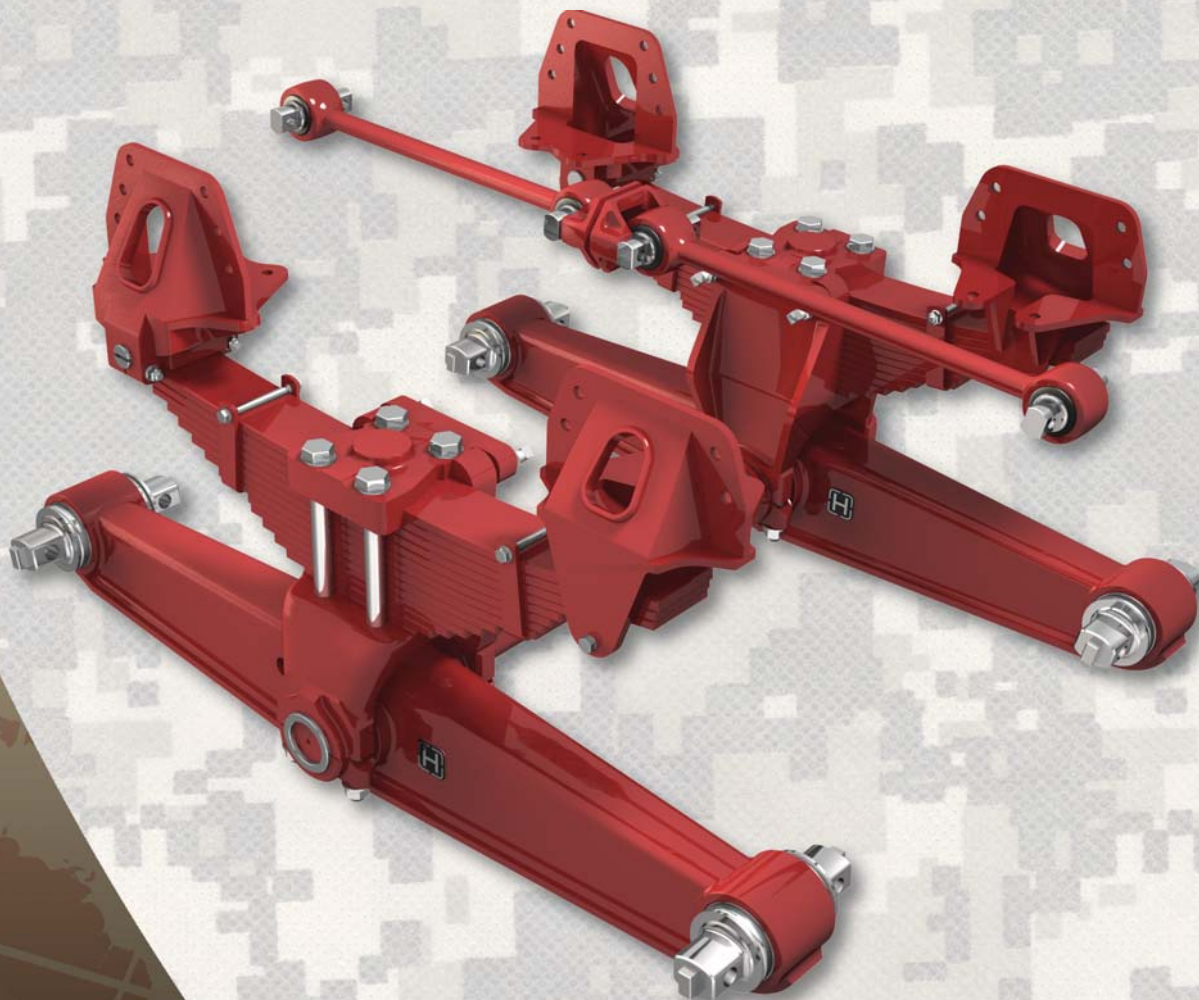
Steel Leaf Spring Suspensions



Exceptional durability

Versatile applications

Outstanding mobility



HHENDRICKSON

The World Rides On Us®

Enhanced Design for Superior Durability, Stability and Off-road Maneuverability

Hendrickson Genuine Torque Rods

- Heavy-duty forgings reduce weight, yet improve durability over conventional rods
- Controls braking and acceleration forces generated by the axles
- Optional transverse rods improve cornering by controlling lateral forces

No. 1 Spring Hanger

- Helps absorb the forces of braking and acceleration, while providing longer hanger and spring eye bushing life

Spring Pack

- Genuine Hendrickson springs are made from high-strength steel
- Heat treated and shot peened for exceptional fatigue life

No. 3 Spring Hanger

- Serves as the primary load point for the lengthened RTE spring pack in unloaded conditions

Equalizing Beam

- Distributes load equally between both axles for improved traction
- Lowers the center of gravity to increase stability
- Establishes a solid axle connection for improved handling

Saddle

- Engineered to increase durability without adding weight
- High stress concentration areas such as chair back and legs are fortified for strength and durability

Extended Leaves

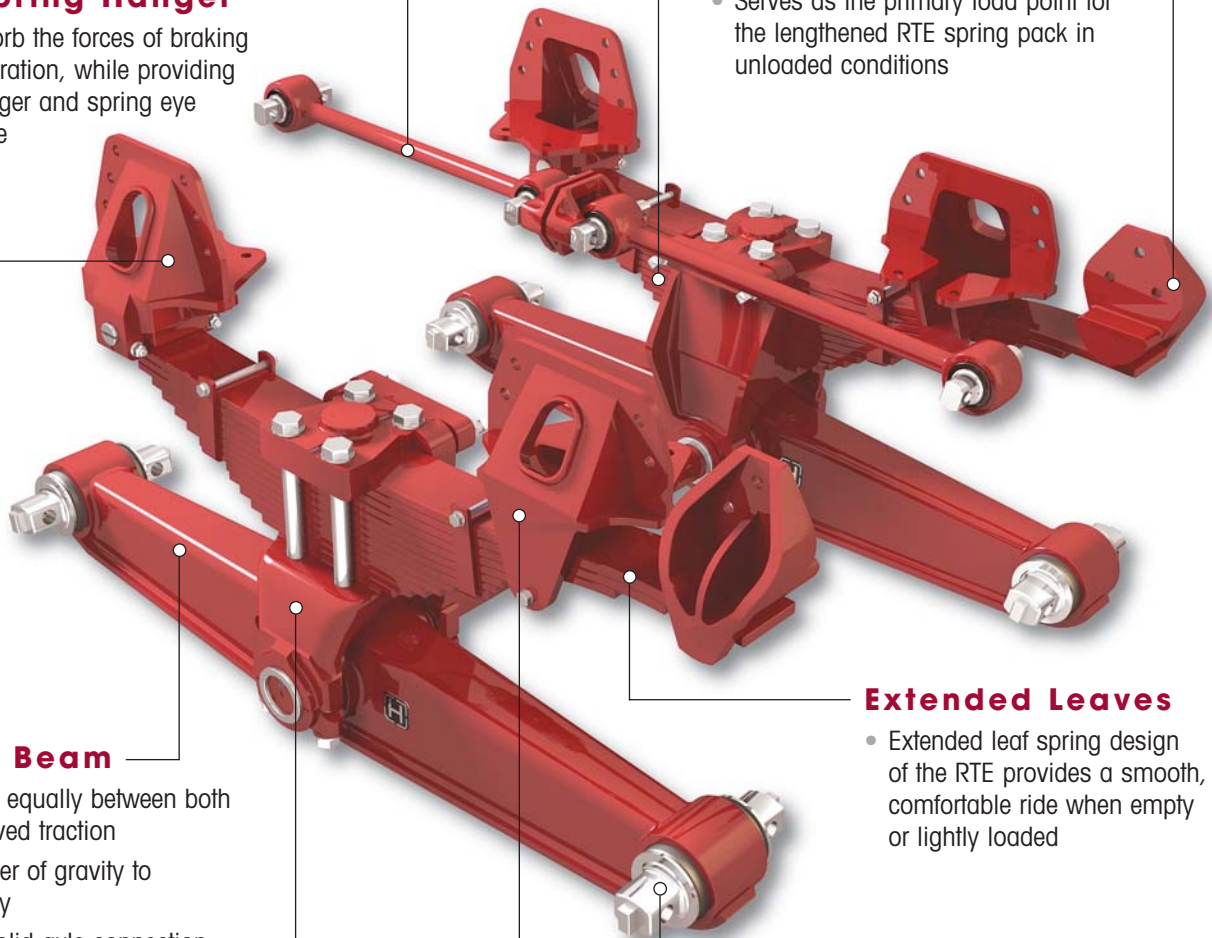
- Extended leaf spring design of the RTE provides a smooth, comfortable ride when empty or lightly loaded

Bar Pin End Connection

- Rugged axle connection extends bushing life and allows easy axle alignment

No. 2 Spring Hanger

- Cam and leg areas receive a special flame hardening treatment that increases durability and extends life



Fabricated Beam

Higher Strength, Higher Payloads

The fabricated walking beams provide a high strength-to-weight ratio to stand up under heavy loads on severe terrain and still allow you to maximize your payload.

The beams are constructed by roll forming steel into a channel, which is robotically welded to the sturdy bottom plate, eliminating weak or heavy spots along the length of the beam. The beam has demonstrated its strength on rugged job sites.



Hendrickson offers a heavy-duty beam option for use in 46,000-pound capacity applications with 52- and 54-inch axle spacings. These beams are ideal for severe applications such as tactical trucks and heavy armored vehicles.

RT™ is a robust steel spring suspension with a legacy of over 90 years of reliability in some of the most severe applications. Hendrickson-designed springs provide a consistent spring rate for longer life, as the equalizing beams distribute load equally between both axles for improved traction. The suspension provides exceptional durability, stability and traction, making RT well suited for many military applications.

- *Genuine Hendrickson springs are made from high-strength steel and are heat treated and shot peened for exceptional fatigue life*
- *Equalizing beams utilize a central pivot point to help keep tire contact with the ground for improved traction*
- *Suspension design provides a low center of gravity for increased stability*
- *Up to 15 inches (381 mm) of diagonal articulation of outstanding traction and mobility*
- *Rugged beam-to-axle connection extends bushing life and allows easy axle alignment*
- *Optional shock kit available for improved ride*
- *Tandem capacities up to 65,000 pounds (29.5 t)*

Better ride when you're traveling light, better handling when you're fully loaded

The extended leaf spring design of the RTE suspension provides a smoother, more comfortable ride when empty or lightly loaded and uncompromised stability when fully loaded. Here's how it works.

The upper leaves of the RTE extend past the No. 2 spring hanger to the No. 3 hanger. In the empty or lightly loaded condition (Figure 1), the extended spring leaves do not make contact with the No. 2 hanger. The resulting longer effective spring length produces a softer ride for greater driver comfort resulting in decreased driver fatigue.

When load is added, the extended leaves deflect and make contact with the No. 2 hanger (Figure 2). This shortens the spring's effective length to that of the RT spring for a more stable ride due to increased roll stiffness.

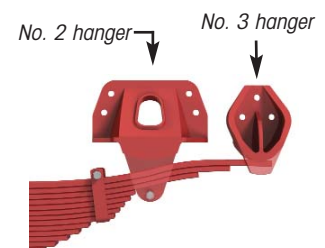


Figure 1. Unloaded

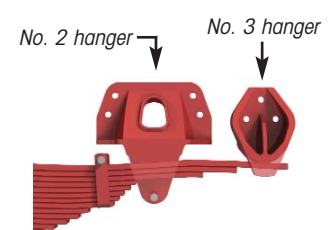


Figure 2. Loaded



RT™/RTE™ Series Specifications

| Suspension (lbs.) | Installed Weight ¹ (lbs.) | Rating ² (lbs.) | Capacity ³ (lbs.) | GVW (lbs.) | GCW Bushings | Rubber Center Bushings | Bronze Center (lbs.) | Transverse Torque Rods ⁴ |
|-------------------|--------------------------------------|----------------------------|------------------------------|------------|--------------|------------------------|----------------------|-------------------------------------|
| RT 343 | 1,199 | 34,000 | 34,000 | 50,000 | 80,000 | STD | OPT | OPT |
| RT 403 | 1,207 | 40,000 | 40,000 | 73,000 | 160,000 | STD | OPT | OPT |
| RT 463 | 1,301 | 46,000 | 46,000 | 80,000 | 190,000 | OPT | STD | OPT |
| RT 483 | TBD | 48,000 | 48,000 | 80,000 | 190,000 | OPT | STD | OPT |
| RT 503 | 1,418 | 50,000 | 50,000 | 80,000 | 225,000 | OPT | STD | OPT |
| RT 523 | 1,443 | 52,000 | 52,000 | 80,000 | 245,000 | OPT | STD | OPT |
| RT 650 | 2,141 | 65,000 | 65,000 | 80,000 | 260,000 | STD | OPT | STD |
| RT 850 | TBD | 85,000 | 85,000 | 85,000 | 300,000 | STD | OPT | STD |
| RT 1000 | TBD | 100,000 | 100,000 | 190,000 | 350,000 | STD | OPT | STD |
| RT 1200 | TBD | 120,000 | 120,000 | 225,000 | 400,000 | STD | OPT | STD |

1. Installed weight includes complete suspension, torque rods, axle brackets and frame brackets at 54-inch axle spacing.
2. Contact Hendrickson for availability of additional capacities.
3. Contact Hendrickson for applications that may exceed GVW approval rating.
4. Transverse rods are standard with axle spacing of 60 inches or more and on 46,000- to 52,000-pound capacity suspensions with rubber center bushings.

See Tech. Pub. 17730-070 for specific RT Series suspension service details.

See Tech. Pub. 17730-190 for beam/torque rod details.

Optional shock absorbers available; contact Hendrickson or your local dealer for details.



RTE Suspension Profile



RT Suspension Profile

HENDRICKSON
Genuine Parts

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 — Hendrickson.



Extended Warranty options available at www.hendrickson-intl.com

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