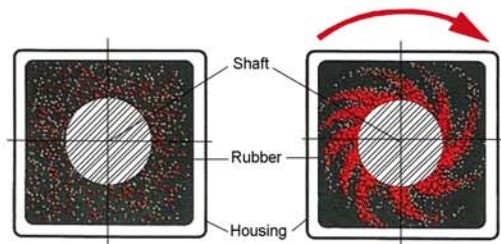


FLEXIRIDE® RUBBER TORSION AXLES

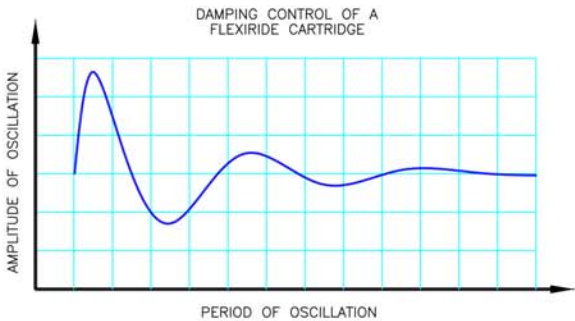
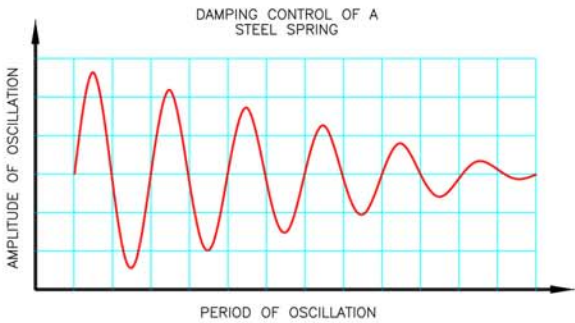
The Flexiride® rubber torsion axle consists of three primary components: a rubber cartridge, support bushing and spindle arm. The cartridge is comprised of strong proprietary formula rubber bonded to a steel shaft. The bonding process used results in a bond strength exceeding the strength capabilities of the associated steel parts.

Unlike the solutions used by competition, the system operates in shear rather than compression providing more angular compliance, a better damping effect and a smoother ride. The nylon support bushing maintains camber and contributes additional damping control.



Flexiride rubber system working in torsion

The spindle arm is a one piece forging with a splined joint connecting it to the cartridge. The splines, at 6° intervals, make an exceptionally strong connection while providing a range of starting angles.



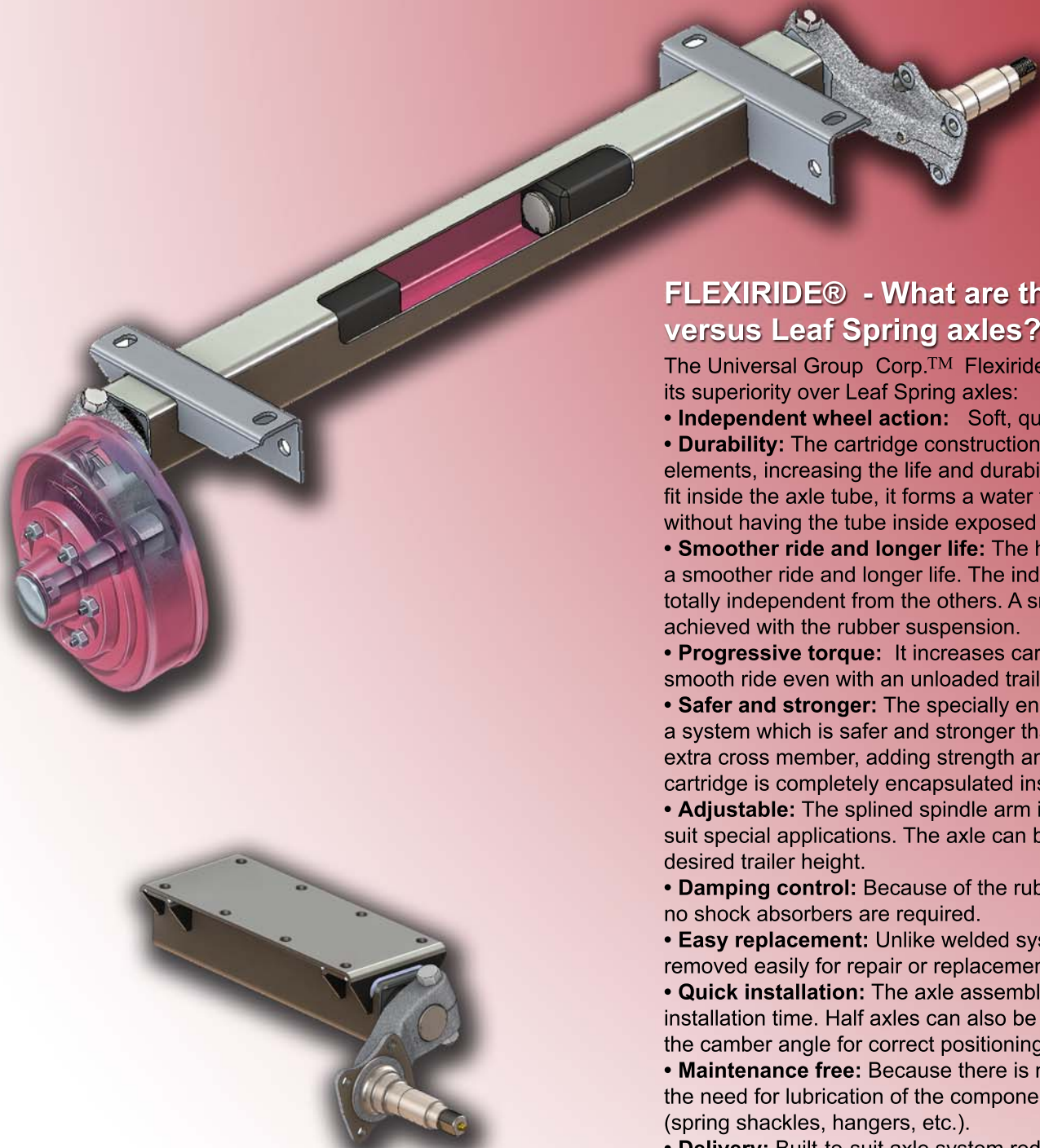
The Universal Group Corp.TM supplies these components to Licensees in the United States and Canada. These certified axle manufacturers stock the components and build axles to required track width, frame width and starting angle. This build-to-suit system eliminates the need for large inventories of different axle configurations and reduces lead times considerably.

Components are available in four sizes: 2000, 3500, 5200 and 7000 lbs axle capacities. Certain axles may be adapted for smaller loads by reducing the length of the rubber cartridge.

The cartridges can be manufactured as half axles which are perfect for special applications where full beam axles cannot be used. For a given load, the Flexiride® cartridge is shorter than other rubber suspension systems and permits the narrowest track centers.

The half axles operate independently and are one of the lightest suspension systems available on the market.

The half axle units, bolted to each side of the trailer, fit any trailer width and are easily aligned.



FLEXIRIDE® - What are the advantages of Flexiride® versus Leaf Spring axles?

The Universal Group Corp.TM Flexiride® axle carries a series of advantages that prove its superiority over Leaf Spring axles:

- **Independent wheel action:** Soft, quiet, practically shock-free ride.
- **Durability:** The cartridge construction offers superior resistance to abrasive road elements, increasing the life and durability of the axle. Because the cartridge is press fit inside the axle tube, it forms a water tight seal, thus allowing the axle immersion without having the tube inside exposed to corrosion.
- **Smoother ride and longer life:** The high quality proprietary formula rubber guarantees a smoother ride and longer life. The independent suspension allows each wheel to travel totally independent from the others. A smoother ride, less sway and reduced noise is achieved with the rubber suspension.
- **Progressive torque:** It increases carrying capacity as the load is applied, allowing smooth ride even with an unloaded trailer.
- **Safer and stronger:** The specially engineered one piece forged spindle arm creates a system which is safer and stronger than any welded unit. The axle tube acts like an extra cross member, adding strength and preventing frame twisting. The rubber cartridge is completely encapsulated inside the axle tube, so there are no pinch points.
- **Adjustable:** The splined spindle arm is adjustable for a range of starting angles to suit special applications. The axle can be built with various start angles to achieve desired trailer height.
- **Damping control:** Because of the rubber natural vibrations absorbing capabilities, no shock absorbers are required.
- **Easy replacement:** Unlike welded systems the Flexiride® spindle arm can be removed easily for repair or replacement.
- **Quick installation:** The axle assembly requires only four bolts to mount reducing installation time. Half axles can also be bolted quickly to the frame, and have built-in the camber angle for correct positioning.
- **Maintenance free:** Because there is no metal-to-metal contact, there it eliminates the need for lubrication of the components. There are no suspension parts to wear out (spring shackles, hangers, etc.).
- **Delivery:** Built-to-suit axle system reduces lead times and inventory.
- **Warranty:** The Universal Group Corp.TM offers a five year warranty on components, that demonstrates how confident we are with the Flexiride® suspension.



For more information call or write:
The Universal Group Corp.TM

1025 Thomas Busch Mem. Highway, Pennsauken, NJ 08110
Tel: (856) 488-1800 • Tel: (800) 777-1823 • Fax: (856) 488-9636 • Fax: (800) 360-9636
E-mail: info@theuniversalgroup.com • Website: www.theuniversalgroup.com
South Cooper Business Park, 1120 Eden Road, Suite 100, Arlington, TX 76001
Tel: (800) 637-4422 • Tel: (817) 417-6812 • Fax: (800) 360-9636

