



FLEXI CUSH TORSION BAR SUSPENSION

WHAT IS FLEXI CUSH TORSION BAR SUSPENSION?

The Tuza rubber suspension is a torsion arm type suspension which is completely self-contained within the axle tube. It attaches directly to the horse float chassis using brackets which are an integral part of the axle assembly. The Tuza axle provides improved suspension characteristics relative to leaf spring axles through the unique arrangement of a steel bar surrounded by four rubber cords encased in the main structural member of the axle beam.

HOW DOES FLEXI CUSH TORSION BAR SUSPENSION WORK?

The wheel/hub spindle is attached to a lever, called the torsion arm, which is fastened to the rubber encased bar. As load is applied, the bar rotates causing a rolling/compressive resistance in the rubber cords. This system provides 120 degree angles in which the rubber cord can roll. The wider angles optimize the shock absorption capability by allowing increased swing arm travel. It is a true independent suspension, with far fewer components than conventional systems.

WHY CHOOSE FLEXI CUSH TORSION BAR SUSPENSION?

WEIGHT SAVING

The Tuza rubber suspension can save weight due to the fact that it is an axle and suspension in one unit rather than a combination of axle and suspension. The inbuilt strength of the Tuza suspension means that it can be used as a structural cross member, thus reducing chassis weight.

LOW MAINTENANCE

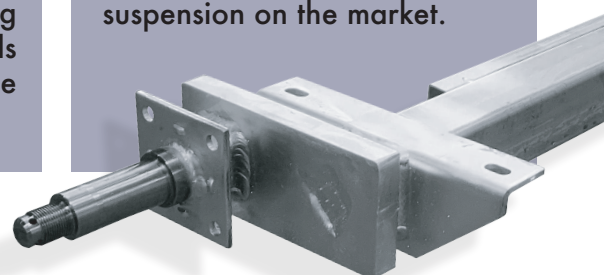
Except for periodic inspection of the fasteners used to attach the Tuza axle to the vehicle frame, no other suspension maintenance is required on Tuza axles. Normal maintenance and inspection procedures regarding brakes, bearings, seals, wheels and tyres are of course required.

SMOOTH RIDE

The unique way the Tuza rubber suspension is designed and manufactured provides a smoother, quieter ride for the horses, trailer, tow vehicle and driver. It is like no other suspension on the market.

FEATURES

- Range of capacities from 740kgs to 4,500kgs
- Independent wheel suspension and self damping action
- If you have a flat tyre, the remaining 3 wheels will maintain the horse float until you can get to a safe location to change flat tyre
- Less transfer of road shock for better protection and comfort to horses and driver
- Forged torsion arm and heat treated solid steel inner bar for maximum strength
- Designed for sealed roads and graded unsealed roads
- Easy installation with only 4 bolts to mount
- Rubber cushioning eliminates metal to metal contact reducing the maintenance requirement
- The suspension along with the frame and chassis are backed by Tuza's five year warranty



**5 YEAR
WARRANTY**