AEG Dual Elastomer Torsional Damper System

American Engineering Group (AEG) has developed a new “Dual Torsional Damper System”. This new AEG system design will allow varying static properties and provide dynamic shock and vibration mitigation over a wide load range for automotive and industrial applications. This dual structure system provides both axial and radial damping. The torsional damper system will have two elastomer elements with top element functions as a vibration damping element and the bottom spherical elastomer element as a noise & harness damping element.

AEG dual mode damper system includes a spherical soft viscous bushing hub designed for being rigidly connected to a drive shaft, and an inertia ring, connected to the hub by means of a thin Polyurethane material layer. This dual-layer elastomer damper system is designed for torsional vibration reduction of the crankshaft system on multi-cylinder engine for vehicles. AEG polyurethane torsional dampers are designed to provide significant reduction of sound and vibration in various types of powertrain systems, protecting engine and transmission component from excessive wear. By reducing torsional vibration, component life is increased while providing greater operator comfort and better service life. This unique AEG damper design is desirable for truck, off-road vehicle, marine, agricultural, and military vehicle engine application where higher performance torsional damping and vibration eliminating solutions are a major priority.

AEG Torsional Damper performance

- Dual mode torsional damper(Patent pending)
- Viscous soft elastomer spherical hub eliminate transmission noise
- Polyurethane elastomer torsional damper reduces torsional vibration that contributes to gear NVH and wear in transmission.
- Self-aligning spherical hub eliminate concentricity concerns
- Torsional stiffness up to 900ft-lbs of torque capacity

AEG Torsional Damper