



Rigid Spacer (Quad)

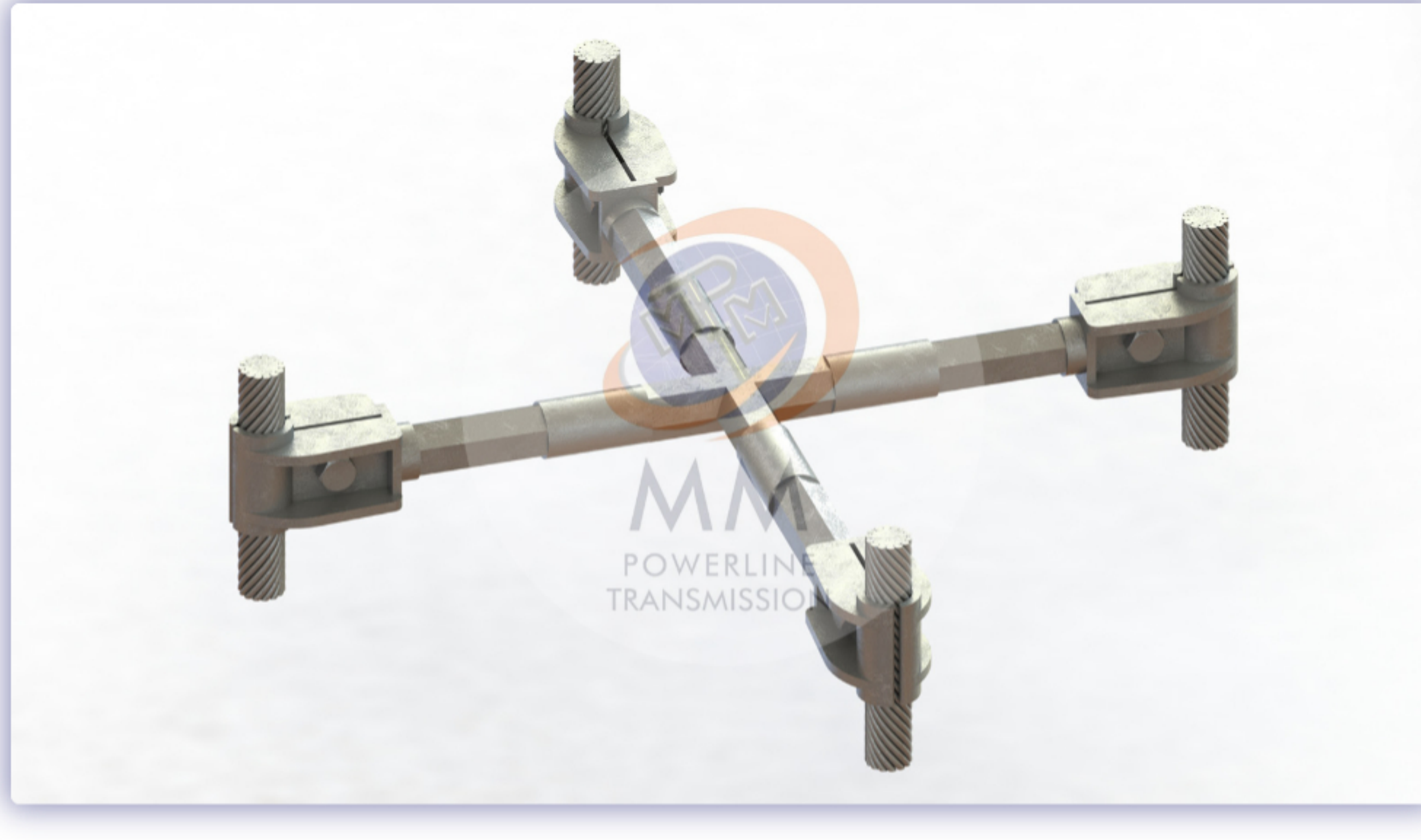
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MM Powerline Transmission specializes in providing premium accessories engineered to optimize the performance and safety of electrical conductors across various applications. Our extensive product lineup is meticulously crafted to not only meet industry standards but also exceed the expectations of our valued clientele.

Quad Rigid Spacer Dampers

Quad rigid spacer dampers represent advanced engineering solutions crucial for maintaining the stability and reliability of high voltage transmission lines. These dampers are specifically designed to mitigate aeolian vibrations and other dynamic forces that can compromise the structural integrity of the transmission system. Here's an in-depth overview of their significance, design, functionality, and benefits:

Importance in High Voltage Lines

- Vibration Mitigation:** High voltage transmission lines are susceptible to aeolian vibrations induced by wind and environmental factors. Uncontrolled vibrations can cause fatigue failure of conductors, insulators, and supporting structures. Quad rigid spacer dampers are strategically installed along the transmission line to absorb and dissipate vibrational energy, thereby reducing stress and extending infrastructure lifespan.
- Enhanced Structural Stability:** By effectively managing vibrations, quad rigid spacer dampers enhance the overall stability of the transmission line. This is crucial for ensuring the resilience of tall transmission towers and long-span lines, particularly in regions prone to strong winds, ice buildup, and seismic activity.
- Operational Reliability:** Dampers contribute to maintaining the operational reliability of the power grid by minimizing the risk of mechanical failures and interruptions in electricity supply. They help reduce downtime and maintenance costs associated with repairing or replacing damaged components.

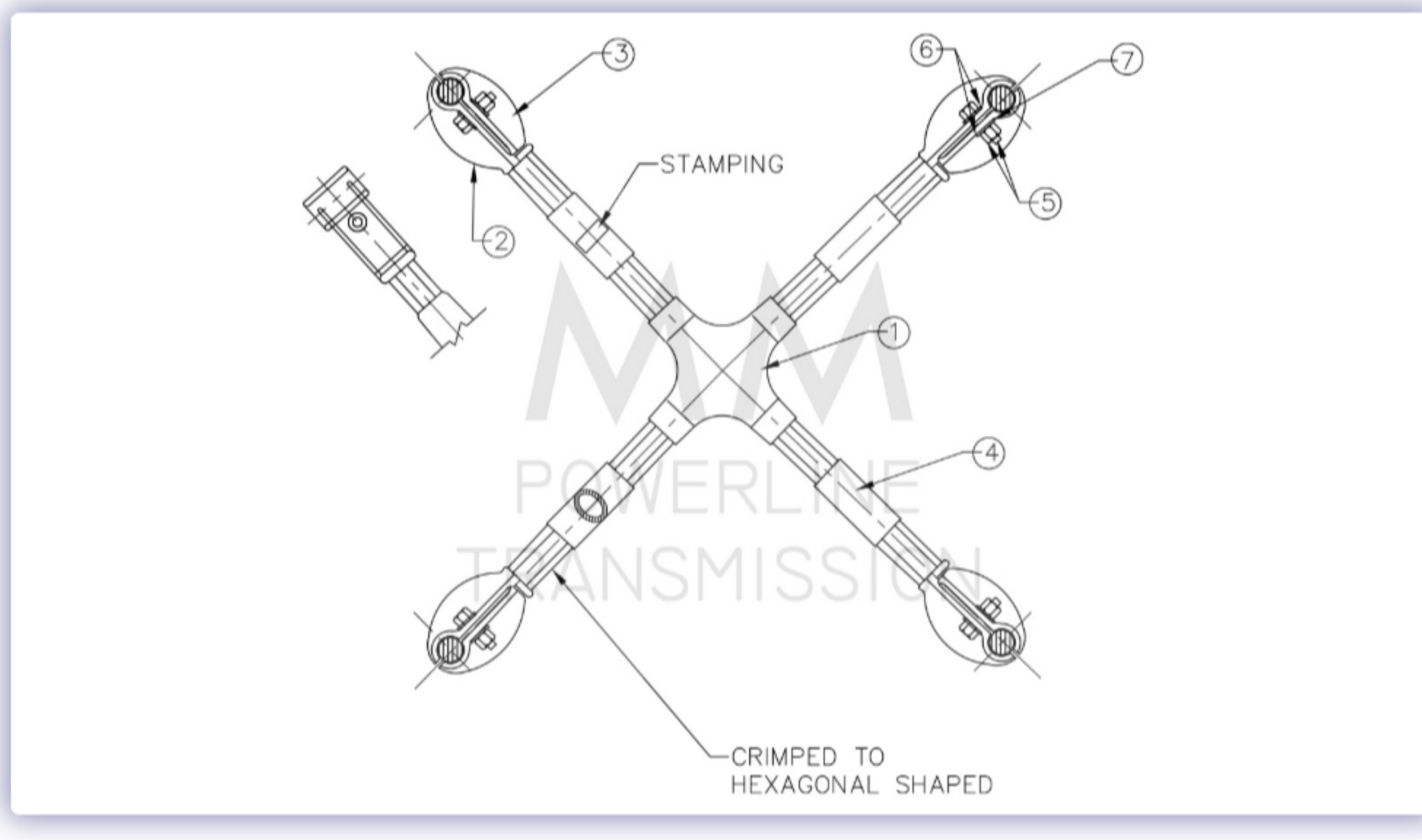
Design and Functionality

- Quad Configuration:** Quad rigid spacer dampers feature four damping units strategically spaced along the transmission line. Each unit independently absorbs and dissipates vibrational energy, effectively reducing oscillation amplitudes.
- Rigid Construction:** Constructed from durable materials such as high-strength aluminum alloys, steel, or composite polymers, these dampers ensure robustness and resilience against environmental stresses including UV radiation, temperature variations, and mechanical loads.
- Spacer Optimization:** The spacing between quad dampers is meticulously engineered to optimize damping effectiveness. This configuration allows fine-tuning of the transmission line's natural frequencies, maximizing vibration attenuation and system stability.

Applications and Benefits

- Suitability for Long-Span Lines:** Quad rigid spacer dampers are ideal for extra-high voltage (EHV) and ultra-high voltage (UHV) transmission lines with extended spans between towers, where susceptibility to aeolian vibrations is heightened.
- Versatility Across Environments:** Effective in diverse geographical and climatic conditions, including coastal areas with high winds, mountainous terrains, and regions experiencing temperature extremes.
- Cost Efficiency:** While initial installation costs may be higher compared to simpler damper solutions, quad rigid spacer dampers offer substantial long-term cost savings through enhanced reliability, reduced maintenance requirements, and extended infrastructure lifespan.

At MM Powerline Transmission, we are committed to delivering advanced solutions that enhance the performance and reliability of electrical transmission systems. Contact us to explore how our quad rigid spacer dampers and other innovative accessories can benefit your next project.



BOM

SL. NO	DESCRIPTION	MATERIAL	QTY./SET
1	MAIN BODY	ALUMINIUM ALLOY	1 NOS
2	CLAMP	ALUMINIUM ALLOY	4 NOS
3	PACKING PIECE	ALUMINIUM ALLOY	4 NOS
4	SPACING TUBE	ALUMINIUM ALLOY	4 NOS
5	BOLT & NUT	CARBON STEEL	4 & 4 NOS
6	PLAIN WASHER	MILD STEEL	8 NOS
7	SPRING WASHER	SPRING STEEL	4 NOS

TECHNICAL DATA

- ALL DIMENSIONS ARE IN MM.
- CLAMP SLIP STRENGTH : 6.5 KN.
- MIN CORONA EXTINCTION VOLTAGE (DRY) 320 KY (R.M.S).
- RIV AT 305 KV (DRY) BELOW 1000 MICROVOLTS.
- COMPRESSIVE LOAD : 14 KN.
- TENSION LOAD : 7 KN.
- GENERAL TOLERANCE : ±3%.
- ALL FERROUS PARTS HOT DIP GALVANISED & SPRING WASHER EG AS POWERGRID SPECIFICATION.
- MAGNETIC POWER LOSS NOT MORE THAN 1WATT AT 600 AMPS 50 HZ.
- TIGHTENING TOROU : 4 KGM.
- TOTAL WEIGHT : 4.0 KG APPROX.

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