



Rigid Spacer (Twin)

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MM Powerline Transmission specializes in providing top-tier accessories designed to optimize the performance and safety of electrical conductors across a wide range of applications. Our comprehensive product line is meticulously engineered to not only meet industry standards but also surpass the expectations of our valued clients.

Rigid Spacer Dampers

Rigid spacer dampers, particularly in twin configurations, are essential components in high voltage transmission lines. They are specifically designed to effectively mitigate aeolian vibrations, thereby ensuring the structural integrity and operational reliability of the entire system. These dampers play a critical role in maintaining stable power transmission, especially over long spans and in diverse environmental conditions.

Importance in High Voltage Lines

- Vibration Control:** High voltage transmission lines are susceptible to aeolian vibrations induced by wind passing over the conductors. Uncontrolled vibrations can lead to fatigue failure of critical components such as conductors and insulators. Rigid spacer dampers, especially in twin configurations, are strategically placed along the transmission line to dampen these vibrations, reducing stress and extending the infrastructure's lifespan.
- Enhanced Structural Stability:** By effectively managing vibrations, twin 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, which are exposed to varying wind speeds, ice loads, and other environmental factors.
- Reliability and Longevity:** Installation of twin rigid spacer dampers helps minimize mechanical stresses and fatigue damage on critical components, thereby improving the reliability and longevity of the entire transmission system. This results in reduced maintenance costs and fewer interruptions in power supply.

Design and Functionality

- Dual Damping Units:** Twin rigid spacer dampers feature two damping units spaced along the transmission line. Each unit is designed to independently absorb and dissipate vibrational energy, effectively reducing oscillation amplitudes.
- Rigid Construction:** Constructed from durable materials such as aluminum alloys, steel, or composite polymers, twin rigid spacer dampers are engineered to withstand the harsh conditions encountered in high voltage transmission environments. This ensures reliable performance over the operational lifespan of the infrastructure.
- Spacer Configuration:** The spacing between twin dampers is optimized to match the natural frequencies of the transmission line, maximizing their effectiveness in dampening vibrations and enhancing system stability.

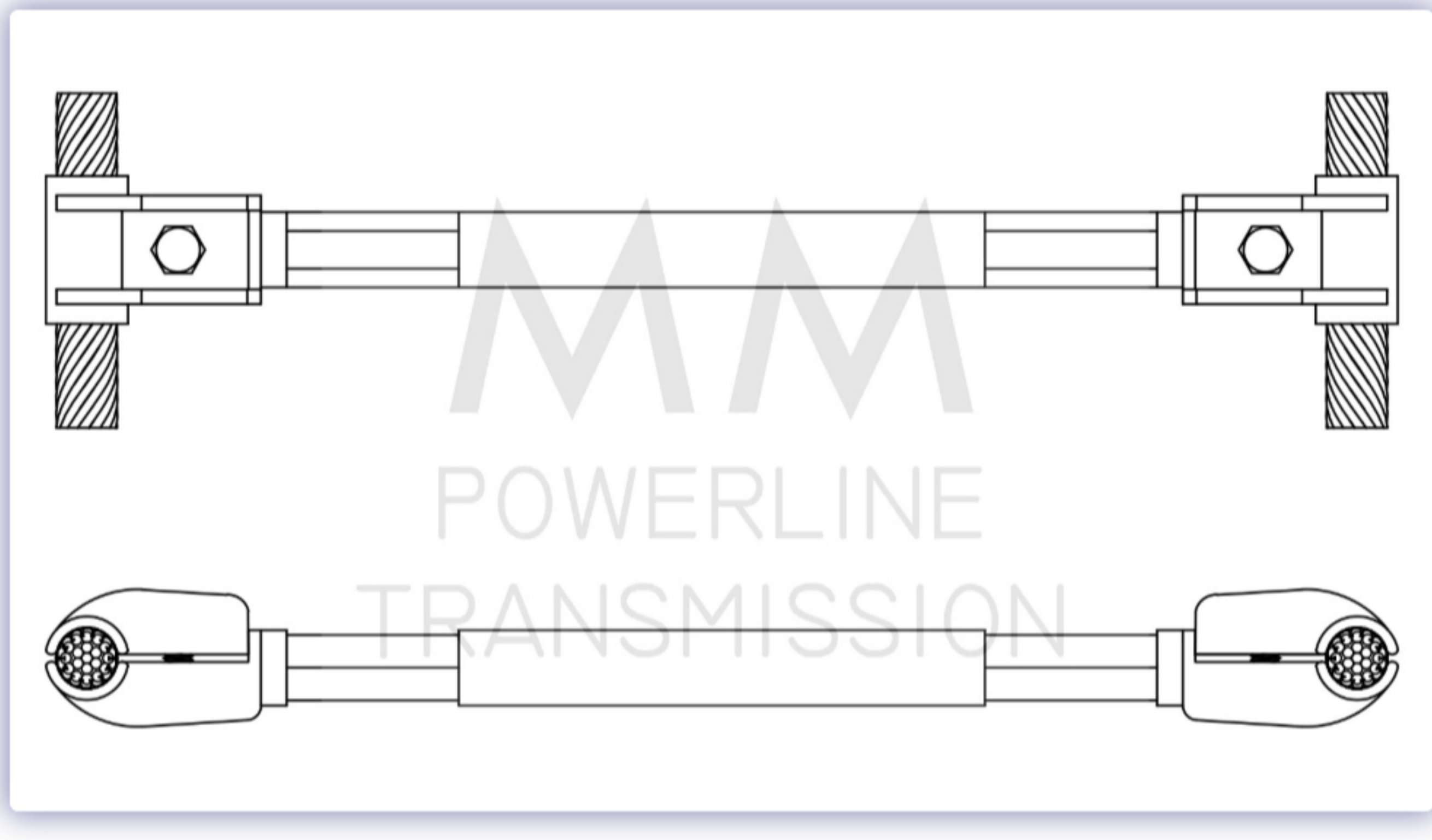
Applications and Benefits

- Long-Span Lines:** Twin rigid spacer dampers are ideal for extra-high voltage (EHV) and ultra-high voltage (UHV) transmission lines, where long spans between towers increase vulnerability to aeolian vibrations.
- Versatility:** Effective across diverse geographical and climatic conditions, including regions with high winds, extreme temperatures, and ice accumulation.
- Cost Efficiency:** While initial installation costs may be higher compared to simpler damper solutions, twin rigid spacer dampers offer significant long-term cost savings through reduced maintenance requirements and enhanced reliability.

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

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800

SL. NO	DESCRIPTION	MATERIAL	QTY./SET
1	BODY	AL. EXTRUDED TUBE	1 NOS
2	CLAMP & KEEPER	ALUMINIUM ALLOY	2 NOS
3	HEX BOLT,NUT, WASHER	MILD STEEL, HDG	2 NOS

TECHNICAL DATA

- ALL DIMENSIONS ARE IN MM.
- GENERAL TOLERANCE ±2% UNLESS SPECIFIED.
- FERROUS PARTS ARE HOT DIP GALVANISED.
- SLIP STRENGTH : 2.5 KN.
- COMPRESSIVE STRENGTH : 14 KN.
- TENSILE STRENGTH : 7 KN.
- MAX. POWER LOSS AT 600 AMP 50 HZ : 1 WATT.
- MIN. CORONA EXTINCTION VOLTAGE DRY 320 KV R.M.S.
- R.I.V. AT 305 KV DRY. BELOW 1000 MICROVOLT.
- TIGHTING TORQUE : 8 KG-M.
- APPROX. WEIGHT : 1.600 KG.

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