



TRANSMISSION CORRIDOR ENGINEERING

# THE T-CORR ADVANTAGE: SILENT STRENGTH - FIRM RESPONSE

## Vibration Mitigation for Tubular Steel Lightning Masts in Substations

Tubular steel lightning mast structures, commonly used in electric substations, are vulnerable to wind-induced vibrations often resulting in resonance amplification, structural fatigue, and accidental failure.

The T-CORR™ Cable Mass Damper (CMD, Patent Pending) is a corrosion-resistant, internally mounted solution engineered to combat these dynamic forces from the inside out.

### T-CORR CMD: Flexible. Tough. Trusted.

#### ⚙️ Customized Damping

- Adjustable lengths, weights (5–15 lbs/ft), and internal bumper gaps allow our damper to match the unique dimensions of each mast design.

#### 🧱 Hanging Inertial Mass + Bumper Design

- Reduces vibration without causing noise — bumpers minimize impact on internal walls, even under high wind loads.

#### 🔧 Built for Retrofits and New Installs

- Designed for seamless installation in new structures, or existing masts with minimal downtime required.

#### 🛡️ Corrosion-Resistant Construction

- Built with durable, substation-ready materials to survive harsh outdoor environments and to help fulfill the lifespan of the mast.



🔍 Visit Us at TSDOS 2025

📍 Frisco, TX | Sept 3–5 | Suite 407

Let's Talk After the Show

📞 210-529-5296

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🌐 www.tcorr.com



*Pictures are for example only - not to scale*