

MTI TOWER STRESS RELIEF & LOAD DISTRIBUTION KIT

As wireless equipment deployed on towers continue to increase in size, weight, and offset distance, two point mount to tower connections utilized on traditional sector frames are pushing tower legs beyond their intended structural limits. Industry guidance, including TIA best practices, increasingly recommends performing Mount to Tower Interaction (MTI) analysis to ensure loads that are transferred to tower legs do not exceed these limits.

To resolve this growing concern, ANDREW® engineered the new **MTI Tower Stress Relief & Load Distribution Kit**—a bolt on mechanical solution designed to redistribute loads, reduce tower leg stress, and improve Mount to Tower Interaction performance to support high capacity sector frame installations.

ADDRESSING A CRITICAL INDUSTRY CHALLENGE

Conventional sector frame installations typically attach to tower legs at two mounting points. When longer standoffs that are being deployed to improve PIM combine with increased weight from equipment, this can overstress tower legs, leading to deformation and long term structural risk. ANDREW's innovative MTI solution directly addresses this issue by adding a third structural connection point and distributing the load across a larger surface area. This reduces localized stress concentrations and enables crews to easily resolve MTI issues without requiring expensive tower modifications or complex field fabrication.

KEY FEATURES & BENEFITS

Reduced tower leg stress: Structural analysis using RISA and ANSYS demonstrates measurable reductions in tower leg stress even under extreme wind and ice loading by redistributing forces & improving MTI.

Deployment flexibility: Compatible with long spine, short spine, and no spine sector frame designs and round or angled tower legs.

Bolt on, field friendly installation: No welding, field cutting, or tower modification required. Uses proven clamp designs and standardized components.

The **MTI Tower Stress Relief & Load Distribution Kit** provides operators with a practical, validated solution to one of the most pressing structural challenges in the industry. By improving load distribution and reducing tower leg stress, this solution helps extend tower service life, provide upgrade flexibility, and support the continued evolution of network infrastructure.

ORDERING INFORMATION

Part Number	Description
SF-MTI-AMK-005	Mount to tower interaction stress relief bracket system for sector frames without an extended spine
SF-MTI-AMK-001	Mount to tower interaction stress relief bracket kit for ANDREW SFG2xRHD series sector frames with extended 10' spine

For more information, configuration options, or deployment guidance, contact your ANDREW sales representative or email : SteelProducts@andrew.com

