

GUY-LOCK™ FOR GUYED TOWERS



To address challenges with guy anchor corrosion while enhancing tower capacity, Congruex Engineering Services has developed the Guy-Lock™ method, a patented solution that eliminates the need to disconnect guy wires, dig to the anchor block, or install a new anchorage point.

This innovative method can also be used to increase capacity of guy anchors, and it eliminates the need for cathodic protection, resulting in cost savings of up to 25% compared to traditional solutions. Guy-Lock™ provides a dual benefit: it serves as both a remedy for existing corrosion and a preventative measure against future corrosion, without the need for ongoing anchor monitoring. It effectively restores guy anchors to their original capacity or higher by eliminating corrosion issues and prevents future corrosion by ensuring that no steel components remain in contact with the soil. In contrast, other solutions rely on sacrificial anodes to divert corrosion, requiring continuous monitoring and maintenance since the anodes ultimately become depleted and ineffective.

Congruex Engineering Services has designed over 100 Guy-Lock™ solutions for two major U.S. carriers and a major tower company.



BENEFITS OF GUY LOCK™

LOWER COST

- Eliminates need for cathodic protection
- No additional lease space for second anchor point

FASTER CYCLE TIME

- No need to dig to the block for remediation
- Existing anchors and foundation are not disturbed

INCREASED SAFETY

- No need to disconnect guy wires or anchor
- Can eliminate need for tower climb / tower crew

ADDED CAPACITY

- Can restore anchors to original capacity or higher

U.S. Patent Nos. 10,538,935.

Additional patents pending - see <https://www.congruex.com/patented-solutions/tes-patented-solutions>

