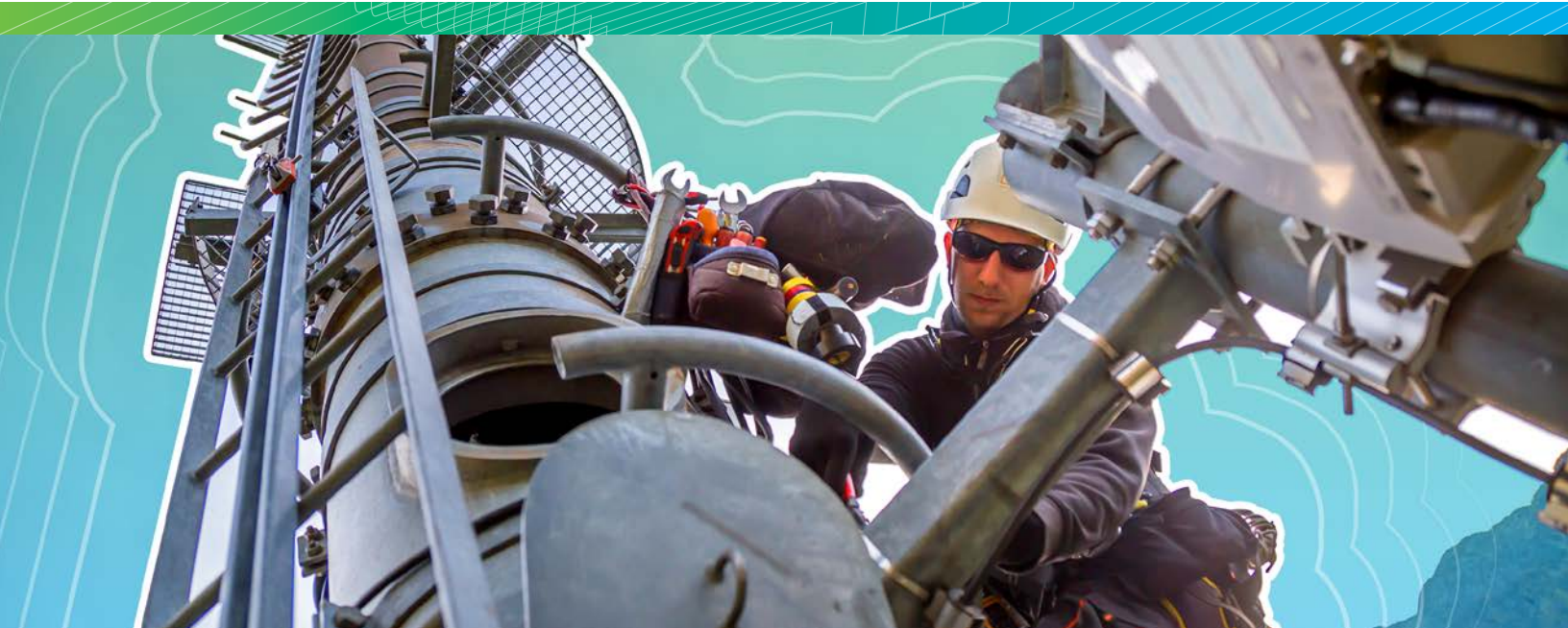


# THE CRITICAL IMPORTANCE OF ENGINEERED ATTACHMENT POINTS FOR HOISTING GRIPS



## Introduction

The seamless operation of cell towers, the backbone of modern telecommunications networks, relies on meticulous planning and precision during installation and maintenance. One often-overlooked but critically important aspect of this process is the attachment point for hoisting grips. Engineered attachment points are essential for the safe and reliable installation of hoisting grips on cell tower structures. Explore why having a properly engineered attachment point is paramount and how ANDREW<sup>®</sup>, a leader in the telecommunications industry, has provided innovative solutions to support these installations.

## Ensuring cable stability

The primary purpose of hoisting grips is to support the vertical load of the cables that transmit data, power, and signals up the cell tower. Working together with the cable hangers—whose primary function is to resist wind load, and which are secured to the support structure—hoisting grips are an important part of the cable attachment system. These cables are often subjected to various environmental factors, including wind, weather, and mechanical stress. Without a properly engineered attachment

point for the hoisting grips, the cables may sag, sway, become damaged over time, or damage the tower—leading to network disruptions and compromised service quality.

## Preventing cable damage

Cables are integral to the cell tower site infrastructure, and any damage to them can have significant consequences. Hoisting grips that are attached to engineered attachment points ensure the cables are held in place with a product that is designed to support the cable. This minimizes the risk of damage. Protecting the integrity of these cables is vital for maintaining network reliability.

## Enhancing worker safety

The safety of technicians and climbers tasked with installing and maintaining cell tower cables should be a top priority. A properly engineered attachment point provides a secure and stable anchor for hoisting grips. This stability reduces the risk of accidents and injuries caused by slippage or damage to the tower and/or support members. Ensuring worker safety not only protects lives but minimizes downtime and costly accidents.

## Filling the gaps in standards

The telecommunications industry is subject to strict standards and regulations that govern the installation and maintenance of cell tower equipment. Historically, engineered attachment points for cables have been overlooked in this space. ANDREW® is looking to change that to ensure safe and reliable installations.

## The solution



**Guyed tower hoisting grip anchor**



**DON'T LET "BOW" HAPPEN TO YOU...**

Product number	Product description	What it does	Where it is used
860674607-036	Cable support mount for guyed towers to support cable, 36" face	Provides for attachment of hoisting grips to the tower	Towers with a 36" face width (center to center of leg) and 1.5"-3" diameter legs
860674607-048	Cable support mount for guyed towers to support cable, 48" face	Provides for attachment of hoisting grips to the tower	Towers with a 48" face width (center to center of leg) and 1.5"-3" diameter legs
860674607-041-42	Cable support mount for guyed towers to support cable, 41" or 42" face	Provides for attachment of hoisting grips to the tower	Towers with a 41" or 42" face width (center to center of leg) and 1.5"-3" diameter legs



**Cable ladder hoisting grip anchor**

Product number	Product description	What it does	Where it is used
860674608-006	Heavy-duty cable ladder cross member with cable attachment points	Provides for attachment of hoisting grips to the tower	On a new or existing cable ladder that is 6 holes / 20.25" wide. Can be field cut and drilled for custom widths.
860674608-009	Heavy-duty cable ladder cross member with cable attachment points	Provides for attachment of hoisting grips to the tower	On a new or existing cable ladder that is 9 holes / 29.25" wide. Can be field cut and drilled for custom widths.
860674608-012	Heavy-duty cable ladder cross member with cable attachment points	Provides for attachment of hoisting grips to the tower	On a new or existing cable ladder that is 12 holes / 38.25" wide. Can be field cut and drilled for custom widths.



**Monopole hoisting grip anchor**

Product number	Product description	What it does	Where it is used
860669616-1035	Monopole hoisting grip anchor, 10"- 35"	Provides for attachment of hoisting grips to the monopole	On a monopole where the diameter is between 10" and 35"

## ANDREW'S INNOVATIVE SOLUTIONS

The ANDREW® structures business, a renowned leader in the telecommunications industry, has recognized the critical importance of engineered attachment points in hoisting grips installations. The company has consistently delivered innovative solutions that address the unique challenges of the industry. ANDREW's engineered attachment point solutions are designed to provide a reliable and robust solution for hoisting grip installations.

By offering a diverse range of attachment point solutions, ANDREW caters to the specific needs of telecom companies—ensuring their cell towers are equipped with the highest quality attachment points for hoisting grips. These innovative solutions enhance cable stability, protect against damage, and contribute to the long-term reliability of cell tower infrastructure.

### Conclusion

In the world of telecommunications, every detail matters, and the attachment points for hoisting grips are no exception. Properly engineered attachment points ensure the stability of cables, prevent damage, enhance worker safety, and contribute to the advancement of cell site infrastructure. ANDREW's commitment to delivering innovative attachment point solutions underscores a dedication to helping telecom companies safeguard their investments, maintain network reliability, and continue to deliver uninterrupted service to their customers. With the support of ANDREW, the future of cell tower technology looks even brighter.

### Q&A

#### Q: Why are engineered attachment points crucial for hoisting grips installations on cell towers?

A: Engineered attachment points play a pivotal role in ensuring the overall integrity and reliability of cell tower infrastructure. Historically this has been an overlooked component of cable support. ANDREW believes details matter and, as a total solution provider, they are closing that gap.

We have purpose designed product to support the attachment of hoisting grips to monopoles, cable ladders, and tower legs.

#### Q: How do engineered attachment points ensure stability?

A: Engineered attachment points provide a secure anchor for hoisting grips—preventing sagging and the structure from becoming damaged due to factors like wind and weather or stress over time on the tower members. This stability ensures that the cables maintain their desired position, which is crucial for uninterrupted signal transmission.

#### Q: In what ways do engineered attachment points prevent cable damage?

A: Without properly engineered attachment points, cables can rub against the tower structure or other cables, leading to abrasion and damage over time. Engineered attachment points are designed to securely hold the cables in place, reducing the risk of damage to the structure and cable. This extends cable lifespan and minimizes costly maintenance or replacement deployments.

#### Q: How do engineered attachment points enhance worker safety?

A: Worker safety is paramount in the telecommunications industry, especially during maintenance and installation of the cable. Engineered attachment points offer a stable anchor for hoisting grips, minimizing the risk of accidents caused by factors such as cable slippage, sudden movements, or unknown capacity of the tower members by the installers, thereby protecting the lives of technicians and climbers.

#### Q: How has ANDREW made a difference in this context?

A: ANDREW, a renowned leader in the telecommunications industry, has taken the lead in providing innovative solutions for engineered attachment points. They understand the critical importance of these attachment points and have consistently delivered solutions that meet the unique challenges of the industry.

#### Q: What specific benefits do the innovative attachment point solutions of ANDREW offer to telecom companies?

A: Being a “whole solution” company that manufactures all the critical elements in this system—cable, hoisting grips, and structural steel—ANDREW is uniquely positioned in the industry to understand how all these products work together to perform as a system. This system-level thinking allows ANDREW to innovate to solve problems. Since they make all the pieces to the cell site infrastructure puzzle, they are uniquely positioned to see how they all fit together in the big picture.

**ANDREW.COM** Visit our website or contact your local ANDREW representative for more information.

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