

# CASE STUDY THE WIND TOWER



## THE PROBLEM

One of Tower Solutions three-year-old devices had been licensed to a company and was stationed in Texas. During this time of operation, a hurricane was scheduled to hit Texas and would be affecting the region where the tower stood. Tower Solutions was contacted about whether the tower should be taken down and deconstructed for safety purposes. Tower Solutions gave the clearance to keep the tower standing as they were confident that their product would uphold its structural integrity under extreme variable conditions.

## THE PROCESS

Despite the force of the hurricane level winds, the tower was able to survive and stay standing. With no hydraulics or pneumatic components, the tower was able to be used immediately with no downtime or maintenance required. Engineers who handled this high wind scenario stated that the equipment was easily able to function during wind speeds of sixty miles per hour with no issues. Much of the tower's stability comes from its base which has a deployed footprint ranging from 20' x 20' to 40' x 40'. In addition, guy-wire kits are available which increase side wind ratings substantially.



## WHY TOWER SOLUTIONS

In accordance with Tower Solution's design specifications, towers must be able to withstand and survive headwinds of up to ninety miles per hour, while maintaining functionality and the ability to operate with signal under wind speeds that reach sixty miles per hour. Their use of an aluminum body allows for lightweight resistance to corrosive elements while also providing the strength to carry payloads of up to 2500 lbs. There are a variety of customizable towers, each with their own distinct features, that are all equipped to handle any type of terrain or surface. All of the tower's components are well guarded from the elements, and shelter units are available to house equipment and controls.

Go to  
[towersolutionsinc.com](https://www.towersolutionsinc.com)  
for more information



SURVEILLANCE



COMMUNICATIONS



TACTICAL SUPPORT



LIGHTING

# TOTALLY AUTOMATIC SELF-ERECTING MOBILE TOWERS



**FAST**  
80 Feet in  
5 Minutes



**SIMPLE**  
1 Man  
Setup



**STRONG**  
Lifts 1 Ton  
Payload



**STABLE**  
Withstands  
Hurricane Winds

## THE BENEFIT

Tower Solution's patented gear technology creates a lightweight yet rigid self-assembling tower structure that is able to reach up to 80 feet in 5 minutes with the push of one button. Tower Solutions provides an easy to use tower that is both mobile and structurally sound, with enhanced support through use of heavy-duty leveling jacks and wide outriggers. It is able to withstand high levels of wind while maintaining its functionality, and requires a low rate of maintenance.



## CUSTOMIZATION

Tower Solutions versatility lies within their wide range of towers that each vary in size, weight, and payload capacity. In addition to this, customizations on each tower may be reached through a number of features and accessories that are available to meet the customers exact needs.

## CATEGORIZED INTO TWO SUBGROUPS:

### The Large Tower Series

Primarily composed of towers that can reach 80 feet in height and are all self-supporting.

### The Small Tower Series

Offers compact units that are easily transportable and require a proper mounting pad or vehicle to ensure stability while raised.

**Further specifications for towers  
are available upon request**



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