Company History

- Founded 1967
- 1st Unit Shipped 1969

1970’s
- Innovation of signal boost towers for Ham radio enthusiasts
- Mobility tower concept is born. Company attaches first antenna to a TV repairman’s van
- First in industry to deliver aluminum tower

1980’s
- Company incorporated in Florida as Aluma Tower Company, Inc.
- Leading supplier in the Americas for aluminum telescoping tower systems

1990’s
- Designed & deployed new turn key products:
  - Cell On Wheels for interim cellular communications
  - Public Safety units for disaster relief
  - Lab On Wheels for air sampling and data transfer
  - Energy discovery & field equipment repair units

2000’s
- Patented innovations; Smart Tower and unguyed tower locking mechanisms extend utility of units and open up new markets
- Adjustable trailer “tongue” provides advantage for tight packing of units in C130 transport planes for delivery overseas
- New units geared for desert/mountain range remote function sent to classified zones under DOD contract

2014 – Thousands of Active Units Deployed

40+ year history, Aluma Tower has integrated the right material with innovations to serve communication technology’s rapid evolution
1. **Industry Experience** - Designed and delivered safe, ground-breaking, quality products for 40+ years

2. **Geographic Deployments** - Actively deployed in over 35 Countries

3. **Quality Products** - Patented, lightweight, non-corrosive, portable, telescopic towers, fully deployable in 15 minutes or less

4. **Customization** – In-house design team allows for integration of your custom specifications

5. **American Made** – All products are designed and manufactured in the U.S.A.

**Why us?**
Active Units Deployed in 35+ Countries

2000+ Customers
<table>
<thead>
<tr>
<th>Industries Served</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternative Energy</td>
</tr>
<tr>
<td>Border Enforcement</td>
</tr>
<tr>
<td>Broadcasting/Multi-media</td>
</tr>
<tr>
<td>Civic &amp; Political Engagements</td>
</tr>
<tr>
<td>Construction</td>
</tr>
<tr>
<td>Contingency Planning</td>
</tr>
<tr>
<td>Disaster Relief</td>
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<tr>
<td>Emergency Management</td>
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<tr>
<td>Entertainment</td>
</tr>
<tr>
<td>First Responders</td>
</tr>
<tr>
<td>Ham Radio</td>
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<tr>
<td>Homeland Security</td>
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<tr>
<td>Industrial Data Transfer</td>
</tr>
</tbody>
</table>

<table>
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</thead>
<tbody>
<tr>
<td>Infrastructure Development</td>
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<td>Law Enforcement/National Defense</td>
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<tr>
<td>Meteorological</td>
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<tr>
<td>Military</td>
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<tr>
<td>Mining</td>
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<tr>
<td>Mobile/Cellular Communications</td>
</tr>
<tr>
<td>Oil &amp; Gas</td>
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<tr>
<td>Private Enterprise</td>
</tr>
<tr>
<td>Public Safety</td>
</tr>
<tr>
<td>Security</td>
</tr>
<tr>
<td>Site Survey</td>
</tr>
<tr>
<td>Smart Meter</td>
</tr>
<tr>
<td>Transportation</td>
</tr>
</tbody>
</table>
• **Major Product Lines**
  - Telescoping Towers
  - Shelters
  - Trailers
  - SMART Tower
  - SMART Generator

• **Tower/Trailer Unit Series**
  - Open Trailer
  - Shelter Trailer
  - Enclosed Cargo Trailer
  - Skid Mounted Tower Systems

• **Training & Integration Services / Support**

• **Professional Services**

**Our Products and Services**
## Tower Specifications

<table>
<thead>
<tr>
<th></th>
<th>GUYED</th>
<th>UNGUYED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>24’ – 92’</td>
<td>32’ – 106’</td>
</tr>
<tr>
<td>Payload</td>
<td>50 – 300 lbs</td>
<td>250 – 400 lbs</td>
</tr>
<tr>
<td>Sail Area</td>
<td>5-25 ft²</td>
<td>14-30 ft²</td>
</tr>
<tr>
<td>Wind Speed</td>
<td>70 – 125 mph</td>
<td>70 - 125 mph</td>
</tr>
<tr>
<td>Weight</td>
<td>64 – 300 lbs</td>
<td>340 – 1300 lbs</td>
</tr>
</tbody>
</table>


***Customizable to additional customer requirements and specifications as needed***
# Tower Specifications

<table>
<thead>
<tr>
<th></th>
<th>GUYED</th>
<th>UNGUYED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>7 – 28 m</td>
<td>10 – 32 m</td>
</tr>
<tr>
<td>Payload</td>
<td>23 – 136 kg</td>
<td>113 – 181 kg</td>
</tr>
<tr>
<td>Sail Area</td>
<td>.5 - 2.3 m(^2)</td>
<td>1.3 - 3 m(^2)</td>
</tr>
<tr>
<td>Wind Speed</td>
<td>113 – 201 kmh</td>
<td>113 – 201 kmh</td>
</tr>
<tr>
<td>Weight</td>
<td>29 – 136 kg</td>
<td>154 – 590 kg</td>
</tr>
</tbody>
</table>


***Customizable to additional customer requirements and specifications as needed***
Introduction to Illustrative Applications
Inter-Coastal Electronics (ICE)

**Challenge** - Required deployment of towers in mountain terrain not accessible via vehicle for data collection. Incorporated all accessories including tower, 1,000 watt solar array, radio cabinet, etc. on a unit that could be transported via light duty helicopter to deployment sites.

**Solution** - Designed first to market skid mounted tower system weighing less than 2,000 lbs., while meeting all specified requirements. Designed and delivered all units within budget and scheduled timeframe. 5 custom units were successfully deployed at the NTC in Ft. Irwin, CA.

Customer Challenge – Aluma Tower Solution
City of Garland, Texas

Challenge - Required a solution utilizing minimal grant money to purchase an unguyed trailer tower solution that met an extensive list of requirements and specifications.

Solution - Designed new “value-line” model of unguyed towers to not only meet the customers budget but also to add to a new product value priced product line trailer tower system to accommodate future customers with similar needs.
Charleston Public Works

**Challenge** - Needed to perform site surveys at various locations and wanted to avoid tow behind trailer solution. Needed a solution that could be integrated onto existing fleet with little to no modification.

**Solution** - Designed special Mobile Van Unit (MVU) specifically for customers’ fleet of trucks. Installed MVU at our U.S. based manufacturing facility.
Analytical Services, Inc., Target Management Office – Huntsville, AL

Challenge - Required a trailer tower with shelter for the U.S. Government that allowed for the removal of the shelter via crane or fork lift.

Solution - Designed a trailer mounted shelter with corner lift rings and shelter sub-frame with fork lift receivers to allow for easy removal of the shelter. Also worked with customer to meet specific requirements including custom rear access door, large entry door, user workstations, etc.

Customer Challenge – Aluma Tower Solution
California Highway Patrol (CHP)

Challenge - Required trailer tower systems with dual heavy duty masts that would accommodate large microwave dishes, trailer to include shelter, generator, ECU’s and ample storage space.

Solution - Designed a telescopic steel mast, raised trailer deck and incorporated aluminum drawers for storage space. Raised deck was designed to withstand the weight of a generator, fuel tank, etc.

Customer Challenge – Aluma Tower Solution
US NAVY - FLIP (Floating Instrument Platform) Ship

**Challenge** - Needed a corrosive resistant, light-weight tower structure that would support the centrifugal forces and the environmental conditions in open seas.

**Solution** - Designed a stackable tower capable of meeting the requirements and specifications. Also created 15 different mounting points to hold meteorological sensors. FLIP Ship is used today in the Gulf of Mexico to measure and assess the impact of the BP Oil spill.

Customer Challenge – Aluma Tower Solution
Ibistek: S812 Military

Challenge - Required a trailer tower shelter to be deployed at the war zone, having a 114’ tower capable to support payload of 360 lbs. and 52 sq. ft. of sail area.

Solution - Designed a modified / rugged S812 model, with HMMWV run-flats tires, tower extension with 4.5” mast allowing the end user to install the microwave dish array, and facilitate the capability to completely dismantle and reassemble within hours.
Challenge - Required a trailer that had the capacity to be powered self-sufficient with self-government of 48 hours.

Solution - Designed a DC power system with solar panels of 1000 Watts that could be rapidly deployed, energizing the 8 AGM 150(Ah) batteries giving over 56 hours of self-government. 15+ trailers were deployed at the border of Canada and USA for border patrol usage.
Motorola Brazil - Scorpion/T2-100UG

Challenge - Required a system that could work in 110V-208V, 50 & 60Hz, AC power allowing the trailer to be deployed anywhere in the Brazilian Territory.

Solution - Designed a trailer with 2 frequency systems, and 2 phase type systems; by installing a multiple frequency generator and transfer switch to meet customer requirements. The trailer has been deployed to provide security and communication during the mega sporting events hosted by Brazil in 2014 and 2016.

Customer Challenge – Aluma Tower Solution
Uganda Air Force - S816

**Challenge** - Required a Command Center for the Uganda Air Force to deploy in remote areas and support the harsh environmental conditions of East Africa.

**Solution** - Designed a deck-over trailer to host a 8x16 environmental sealed shelter with R-18 insulation factor equipped with desks, monitors and storage area. The system was a 50Hz system with BS-1361 electrical components.
Entertainment – Rolling Stones

**Challenge** - Required lightweight portable scaffolding to hold lighting and sound equipment.

**Solution** - Designed multiple stage sets to allow for different venues.

Customer Challenge – Aluma Tower Solution
Illustrative Customization

- **15000 BTU A/C**
- **WARN DC800 WINCH**
- **Scaffold**
- **FUEL TANK, 47 GAL.**
- **ADJUSTABLE COUPLER, 4 WHEEL ELECTRIC BREAKS**
- **ALL ALUMINUM BOX**
- **UNDERBODY BATTERY BOX, DUAL BATTERY**
- **12 KW GENERATOR WITH COVER**
- **BREAK WINCH**
- **ALL ALUMINUM CO-AX REEL**
- **SPARE TIRE 235-85R/16 LOAD RANGE “E” 16” MOUNTED. DUAL 7000 LBS. GALV. TOSION AXLES**
- **3 LIGHT ID BAR.**

Illustrative Customization
Life Cycle Cost Benefits

- Less costly to maintain due to the non-corrosive material used in construction
- Less costly to transport due to 65% weight reduction from steel competitors
- Telescopic towers can be fully deployed in under 15 minutes
- Ground level antenna installation and maintenance
- Portability – can be moved to new locations around the globe to support expansion, over subscribed networks, first responder needs, etc.
Our Strengths

EXPERIENCE
- Industry Leader
- Made in the USA
- Rapidly Deployed

TRUST
- Quality
  - ISO 9000 Compliant
  - TIA-222-G Compliant
  - 6061-T6 Grade Aluminum
- C-130 Certified

COMMITMENT
- Innovative designs
- Patented designs
- Safety Features
- Smart Tower

Our Strengths
- 40+ Years
- 1st to Market
- Experience
- Trust
- Commitment
1. Built with Non-Corrosive Material
2. Smart Tower/Generator Features
3. Fully Deployable in 15 Minutes or Less
4. Safety Stop Switch
5. Pad Lock Inside Safety Release
6. Built with Quality 6063-T832 & 6061-T6 Aluminum
Aluma Tower helps customers deploy cutting-edge tower solutions that provide an immediate bridge for utility, communications, monitoring and other challenging applications that can also meet custom specifications without impacting quality or cost.

Our team of experts have been designing and deploying towers for over 40 years.
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Email atc@alumatower.com