

# Tower Solutions for Railroads

Wayside and Base Station  
Applications for PTC



# Safety is a top priority for railroads, and for more than 30 years, TESSCO has been there, serving the wireless needs of railroads.

Faced with the challenges of implementing an error-free PTC system by 2015, railroad signaling and communications teams know they can count on TESSCO for everything from multi-year network deployments to daily maintenance programs. Access to cutting-edge network designs, including WiMAX and Internet Protocol, partnerships with industry-leading manufacturers, and unparalleled program management and supply chain capabilities, make TESSCO your ideal PTC partner.

Towers play a critical role in the deployment of a successful PTC network and TESSCO has a complete array of solutions designed to meet even the most demanding build schedules and location requirements. TESSCO has assembled a leading portfolio of tower products from North America's most well-known and trusted manufacturers. No matter what your site requirements, TESSCO has the tower solution you need.

## Base Station

TESSCO offers a complete line of medium-duty, off-the-shelf, self-support towers that are ideal for the PTC base station environment. Leading manufacturers, Sabre Site Solutions and Trylon TSF®, come together exclusively at TESSCO, to provide a broad collection of tower heights and loading capacities that are sure to meet nearly every need.



### Sabre Site Solutions LDA Series Self-Supporting Towers

- Available pre-assembled or knocked-down to optimize installation time and freight expense.
- Heights up to 150 feet with a broad range of capacities to accommodate multiple applications.
- Faster, easier installation with uniform component hardware.
- Off-the-shelf availability ensures the tower is ready when you are.



### Trylon TSF SuperTitan™ Self-Supporting Tower

- Tallest, off-the-shelf, self-supporting tower available on the market today.
- Available in a wide range of heights up to 220 feet and loading capacities suitable for a variety of applications.
- Proven history of performance in the field for multiple railroad applications.

## Wayside

TESSCO has a wide variety of wayside tower options to meet the needs and requirements of PTC. With a keen focus on worker safety, TESSCO's family of articulating masts support both solar arrays and antenna systems – providing ground level accessibility for safe and easy maintenance. For applications not requiring articulation, TESSCO also provides easy-to-install embedded poles.

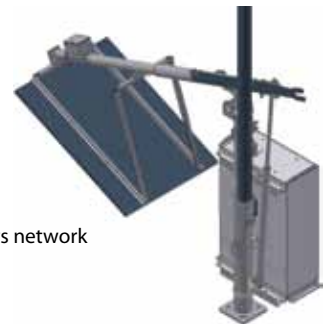


### Ventev Innovations® Solar Articulating Tower (SAT)

- Available with a capacity for 5 or 10 solar panels, the SAT provides a cost-effective, scalable solution for larger power requirements.
- Optional wind generator mount is available.
- Available with a fully integrated, site-specific solar system.

### Ventev Innovations Dual Articulating Tower (DAT)

- Ideal for remote power sites requiring antenna heights greater than 20 feet.
- Available with a solar array at 20 feet and antenna mast of 40 or 60 feet.
- Independent articulation of solar and antenna masts allows network to stay up during solar maintenance.



### Ventev Innovations Communications Articulating Tower (CAT)

- Ideal for AC power sites or sites with existing bungalow which do not require a solar array.
- Available in 20-, 40- and 60-feet with several antenna position options.





## Why the Positive-Stop Articulating Masts?

- No ladders, no climbing required. Single person operation.
- 20-year life expectancy, with minimal maintenance requirements.
- Fully enclosed, integrated, non-hydraulic positive-stop jack screw ensures safe and consistent operation in harsh environmental conditions.
- All articulating masts are compatible with the full line of helical and concrete foundations from Dixie Precast.
- Ships fully assembled and installs on the foundation in less than two hours.
- Hot-dip galvanized construction provides years of worry-free corrosion protection.
- Superior cable management - no twisting, binding hang-ups, or mechanical take-ups. Plus, supports one continuous run of cable.
- Tamper-proof security system with internal cable routing discourages vandalism and unwanted access.
- Fully articulates in less than three minutes using hand drill. Includes hand wheel for manual operation.
- Available with an optional pre-attached enclosure for rapid, single-pier installation.



*Raises and lowers using hand drill or manual hand wheel.*



*Non hydraulic jack screw with locking mast for secure operation and minimal maintenance.*



*All-in-one packaging for lower freight costs and simple installation.*



## Single-Pole Solutions Andrew® Embedded Pole

- Low-cost, direct-embed pole for single-antenna applications or installations requiring low loading requirements.
- Installs in less than two hours with minimal equipment requirements using PoleCrete™, concrete or back-fill.
- Hot-dip galvanized for complete corrosion protection in even the harshest environments.
- Longer life and stronger-than-wood poles.
- Includes safety climbing with removable safety bolt kits to reduce capital expense.
- Completely customizable and available in heights of 30 to 60 feet to meet multiple network requirements.

# The convergence of wireless & the Internet is *revolutionizing* the way we live & work.

Architecting product + value chain solutions to deploy wireless-based systems. Delivering with speed, reliability and total commitment to your success.

#### TESSCO supports these solutions:

- Base Station Infrastructure
- Wide Area Networks
- Local Area Networks
- Mobile Radio Communications
- Security & Surveillance Networks
- Mobility & User Device Performance
- Remote Monitoring & Control
- Maintenance & Repair

#### Configured from these products & services:

- Mobile & Data Network Infrastructure
- Network Systems
- Antennas
- Cable & Wire
- Enclosures
- Towers & Shelters
- Power
- Mobile Devices
- Mobile Device Accessories
- Security
- Safety & Disaster
- Test Equipment
- Tools & Supplies
- Education & Training

**TESSCO**  
*delivering innovation*

**800-472-7373**  
**www.tessco.com**

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