WILL-BURT

INTEGRATED ITS TOWER SYSTEMS

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Products

The Will-Burt Company, the world's premier manufacturer of telescoping masts for the elevation of surveillance sensor platforms and communications antennas, has acquired Integrated Tower Systems. Integrated Tower Systems specializes in the sale and rental of rapid deployment portable, telescoping tower systems, Communication-Sites-on-Wheels and Tower-Integrated Mobile Command and Communication Centers. The Company provides an innovative and extensive line of Commercial-Off-the-Shelf (COTS) as well as customized and Military-Spec portable tower solutions.

- ♦ **Elevates wide range of payloads**
- ♦ **High wind survivability**
- ♦ **Wide range of height options - up to 130 ft.**

SR Series

Equipment: ITS **SR Series -** Portable Tower Trailer - Self-Supporting Heights: 38, 55, 72, 89 & 106 ft. options

Trailer GVWR & Dimensions: 15,000 lb. capacity GVWR; to 4,500 lbs. of trailer payload; 30'L x 8'W x 10'6"H

Tower Capacity: Standard Tower Loading Capacity from 550 lb. (250 kg) to 750 lb. (340 kg); 120-220 VAC/60-50 Hz Configurations

Common Use: Surveillance, Site Security, Remote Communications, Meteorological Testing, Lighting, Disaster Recover, Temporary Cell Site (Site Development & Restoration); Site Surveys, Oil & Gas Exploration/Production Sites

TMT Series

Equipment: ITS **TMT Series -** Truck-Mounted Tower System - Self-Supporting Heights: 38, 55, 72, 89 & 106 ft. options

GVWR & Dimensions: 19,500-26,000 lb. capacity GVWR; 3,000-4,400+ lb. Truck-bed equipment payload; 30'L x 8'W x 11'6"H

Tower Capacity: Standard Tower Loading Capacity from 550 lb. (250 kg) to 750 lb. (340 kg); 120-220 VAC/60-50 Hz Configurations

Common Use: Sensor Applications, Communications & Surveillance, Disaster Recover, Emergency Response, Remote Communications

NC/SR Series

Equipment: ITS **NC/SR Series -** Comm-Site-on-Wheels (COW) - Self-Supporting Heights: 55, 72, 89 & 106 ft.; Custom to +130'

GVWR & Shelters: 20,000-36,000 lb. capacity GVWR; 5,000-9,000 lb. payload; Typical Shelter Sizes: 8-16'L x 8'W x 8'H

Tower Capacity: Standard Tower Loading Capacity from 500 lb. (227 kg) to 750 lb. (340 kg); 120-220 VAC/60-50 Hz Configurations

Common Use: Temporary Cell Site, Surveillance, Incident Command, Emergency Response, Site Security, Systems Testing

IT & IT-G Series

Equipment: ITS **IT & IT-G -** Portable Tower Trailer - Self-Supporting Heights: 38, 55, 72, 89 & 106 ft.

GVWR & Dimensions: 18,000 lb. capacity GVWR; 6,000 lb. Trailer Payload; 31'L x 18'W x 11'6"H

Tower Capacity: Standard Tower Loading Capacity from 550 lb. (250 kg) to 750 lb. (340 kg); 120-220 VAC/60-50 Hz Configurations

Common Use: Temporary Cell Site - Development & Restoration, Surveillance, Testing, Lighting, AM Radio, Site Security

SRS Series

Equipment: ITS **SRS Series -** Portable Tower Trailer (C-130 Aircraft Transportable) - Self-Supporting Heights: 38, 55, 72, 89 & 106 ft.

GVWR & Dimensions: 15,000 lb. capacity GVWR; to 4,500 lbs. of trailer payload; 30'L x 8'W x 8'3"H

Tower Capacity: Standard Tower Loading Capacity from 550 lb. (250 kg) to 750 lb. (340 kg); 120-220 VAC/60-50 Hz Configurations

Common Use: Sensor Applications, Communications & Surveillance, Site/Border Security, Disaster Recovery & Remote Communications

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Products cont...

SC Series

Equipment: ITS **SC Series -** Comm-Site-on-Wheels (COW) - Self Supporting Heights: 55, 72, 89 & 106 ft.; Custom to +130'

GVWR & Shelters: 24,000-60,000 lb. capacity GVWR; 5,000-20,000 lb. payload; Typical Shelter Sizes: 8-20'L x 8-10'W x 9'6"H

Tower Capacity: Standard Tower Loading Capacity from 500 lb. (227 kg) to 750 lb. (340 kg); 120-220 VAC/60-50 Hz Configurations

Common Use: Temporary Cell Site, Surveillance, Incident Command, Emergency Response, Site Security, Systems Testing

SRS-C Series

Equipment: ITS **SRS-C Series -** Tower Trailer (C-130 Transportable) - Self Supporting Heights: 55, 72, 89 & 106 ft.; Custom to +127'

GVWR & Dimensions: 20,000-36,000 lb. capacity GVWR; 8,000 lb. Trailer payload capacity; 33'L x 7'6"W x 8'4"H

Tower Capacity: Standard Tower Loading Capacity from 500 lb. (227 kg) to 750 lb. (340 kg); 120-220 VAC/60-50 Hz Configurations

Common Use: Sensor Applications, Communications & Surveillance, Site/Border Security, Disaster Recovery & Remote Communications

CLT Series

Equipment: ITS **CLT -** Comm-on-Light-Truck (COLT) - Self Supporting Heights to 60'; Guyed to 100'; Single or Tandem Mast

GVWR & Shelters: 29,000-36,000 lb. capacity GVWR; 6,000 lb. Payload; Shelter Sizes: 8-20'L x 8'W x 9'6"H

Mast Capacity: Standard to 200 lb. / 91 kg

Common Use: Telecommunications, Media Broadcasting, Disaster Recovery/Emergency Response - Mobile Command

ITS Rental Fleet & Flexi-Fleet Configurations - Portable Tower Systems

ITS Rental Programs offer a wide variety of innovative, efficient and flexible options to meet customer's temporary, long-term and emergency communications needs. Whether originating from *ITS* manufacturing headquarters or a Domestic or International Fleet Depot, we offer customers both in-house and field services including; training, equipment integration, deployment and decommissioning coordination, customs and transportation logistics, and other necessary services to assist with tower system purchases and temporary use requirements.

ITS Portable & Fixed-Foundation Telescopic Tower Systems

ITS self-supporting and guy capable telescopic steel structures are fully automatic, have extended heights ranging from 38'/12m to 130'/40m above ground level (AGL), standard payloads from 500lbs/227kgs to 750lbs/340kgs, and offer the greatest self-supporting and guyed wind load capacity of any comparable tower system. ITS telescopic structures may be utilized solely in the self-supporting configuration to their maximum extended elevation with no guy wires required except in cases of excessive loads, extreme wind velocity, or to minimize deflection for critical applications.

ITS towers may be custom manufactured for installation directly to a concrete foundation or integrated atop numerous ITS trailer, truck, skid or similar platforms. A rigorous Finite Element Analysis Program, performed and certified by an industry recognized, unaffiliated Structural Engineering and Consulting Firm, may be utilized to perform stress analysis review to determine tower member design in conformance with **ANSI/TIA-EIA 222-G, CSA-S37** and other industry accepted requirements for each client-specific load configuration. The latticed towers members are modeled using beam elements for the leg members, truss elements for the bracing and cable elements for the raising, lowering and support cables. The structural parameters and geometry of the members are included in the tower modeling. The wind loading are calculated for the different wind directions and then applied as external loads on the structure with the self-weight loading internally determined. In order to obtain the maximum stress occurring in all tower members and guy wires, three different wind directions relative to the tower and optional guys (Face Wind, Apex Wind, Parallel Wind) are considered.

The ITS tower is comprised of two to six, heavy duty, hot-dipped galvanized steel lattice sections mounted to either a tilt-base support structure or a steel anchor base plate when affixed to a concrete foundation. The tower may be tilted to the vertical position by a single or tandem heavy-duty chrome plated hydraulic cylinder(s) and automatically elevated by an advanced, direct drive motor/gearbox. The tower section raising assembly utilizes a heavy-duty drum with a redundant cabling system comprised of a series of ¼" and 5/16" aircraft quality cables to raise, lower and stabilize the erected tower sections. In addition, the redundancy of the tower cabling configuration and a positive pull down system provide for the raising/lowering, securing/supporting of each individual interior tower section by a series of three independently anchored cables. The engaging of a limit switch controlled mechanical tower lock mechanism further ensures the safety and stability of the erected structure.

The ITS tower's tilt and telescoping functions are automatically engaged and disengaged by the use of tower and tilt-base mounted electronic limit switches. Contained within a locking weather resistant NEMA 4 cabinet, a proprietary control system utilizing a 120VAC/60Hz or 220VAC/60-50Hz power supply operates the tower. To protect the tower's sensitive electronics from exposure to the elements, operating control switches are accessible through a weather protecting outside panel. Illuminated low volt warning and tower functions lamps as well as a key lock power engagement devise are several of the safety features incorporated into each tower's central control system.

ITS models include both commercial and military configurations; many of which are capable of withstanding harsh environmental conditions and transport challenges inherent to many urban and remote regions of the world. Transport capabilities include C-130 or larger fixed wing aircraft, flatbed trailer, 2 or 4-wheel truck, rail, sea and over-the-road tractor. ITS towers designed for fixed foundation installations or mobile applications may be shipped complete or modularly allowing for containerized transport and easy in-country re-assembly.

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