

SC SERIES ~ Communication-Site-on-Wheels (COW)

Representative ITS Shelter COW Configurations

» ±125' (38m), ±120' (36m), ±106' (33m), ±89' (27m), ±72' (22m) & ±55' (17m) Self-Supporting & Guyed Tower Heights » Fully Automated, Direct Drive Tower Operating System; No Belts, No Chains, No Guy Wires Required

» +500 lb (227kg) to +650lb (295kg) Standard & Upgraded Tower Load Capacity; 120-220VAC/60-50Hz Configurations

- » Greatest Self-Supporting and Guyed Wind/Payload Capacity of Any Comparable Tower System
- » Custom Drawbar, Gooseneck & 5th Wheel Tow Configurations; Electric, Hydraulic or 4S1M Air Brake Systems
- » 20.000lb (9.070kg) to 60.000lb (27.210kg) Capacity GVWR: Outrigger Stabilization: Optional Auto Leveling
- » Typical Shelter Dimensions (OD) from 8'0"-20'0"L (2.44m x 6.1m) x 8'0"W (2.44m) x 9'6"H (2.9m)



Model Series Summary:

SC Series Communication-Site-on-Wheels (COWs) are custom manufactured and accessorized by ITS pursuant to individual client specifications. Models include extra heavy-duty drawbar, gooseneck, and 5th wheel style trailer configurations that accommodate a variety of communications equipment shelter sizes, tower systems, power plants and other common and proprietary ITS and/or client-installed equipment. A multi-section ~ 21'0" (6.4m) or 25'0" (7.6m) each, lattice steel telescopic structure is designed to transport horizontally over the shelter and automatically tilt by means of a heavy-duty, chrome plated hydraulic cylinder. The tower system is raised to its full extension utilizing a direct drive, minimum 1HP, totally enclosed fan cooled (TEFC), wash-down rated electric winch motor and gearbox assembly. Each COW configuration is capable of being deployed, elevated to its full-extended height, and secured by a mechanical tower lock mechanism by one person in under 30 minutes. For added security and stability during poor weather conditions, excessive loading, long-term deployment, or to minimize structure deflection for critical applications, this tower structure may be further protected by the use of an optional guy cable and ground anchor system.

ITS "B" & "C" Series Towers: Elevations ~ +125' (38m), 120' (36m), 106' (33m), 89' (27m), 72' (22m) & 55' (17m)

- Self-Supporting and Guy Capable Steel Tower Structures
- +500lb (227kg) 650lb (295kg) Lift and Tilt Capacity
- Multiple Limit Switch Controls: Erection & Retraction
- 1/4" (6.35mm) & 5/16" (7.95mm) Aircraft Quality Cables
- Electronic Safety & Motor Protection Features
- Solid State Control Circuitry; Locking NEMA Enclosure
- Min. 1HP Motor/Gearbox Assembly; All Weather Rated
- Hydraulic Tilt Assembly with Integrated Safety Features
- Heavy-Duty Galvanized Tower Base Support Structure

- Direct Drive Telescopic Winch/Motor Assembly ~ No Belts/Chains
- Two (2) to Five (5) Coax/Cable Rings; Min. 15'0" (4.6m) Power Cable
- Positive Pull Down and Redundant Tower Cabling Systems
- From (3) to (6) 21' (6.4m) or 25' (7.6m) Ea. Tower Sections 120VAC/60Hz and 220VAC/60-50Hz Power Configurations Offered
 - Mechanical Tower Locking Mechanism; Tower Transport Locks
 - Optional 3-Arm "T"-Bar Style 120° Antenna Mount Assembly
 - Optional Multi-level/3-point Guy Cable and Ground Anchor Kit
 - Optional Lightning Protection and Grounding Packages
 - Optional Aviation Obstruction Light with UV Protected Cord
 - Optional Stainless Steel Cables; Enhanced Corrosion Resistance

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SC Series – General Trailer Description:

Gross Vehicle Wt. Rating (GVWR): Typical from 20,000lb (9,070kg) to 60,000lb (27,210kg) capacity	
Gross Axle Wt. Rating (GAWR):	: Typical from 12,000lb (5,442kg) to 25,000lb (11,388kg) capacity each axle
Overall Transport Length:	From <u>+</u> 36'0" (10.9m) to 50'0" (15.24m)
Overall Transport Width:	<u>+</u> 8'0" (2.44m); custom to <u>+</u> 10'0" (3m)
Overall Transport Height:	Typical to <u>+</u> 13'0"
Platform Height:	Typical to \pm 37" (94cm) main operating and shelter platform
Deployed Footprint:	Typical from <u>+</u> 22'6" (6.9m) wide to <u>+</u> 58'0" (17.6m) long
• Axles:	Tandem axles, 12,000lb (5,442kg) to 25,000lb (11,338kg) capacity each; nominal oil bath, adjustable
Brake Systems:	Electric with break-away devise, Hydraulic/Surge or 4S1M ABS Air – FMVSS121
• Tires:	Typical dual LT235/85R16 LR E or G 215/75R17.5 LR H
• Wheels:	Typical 16" (41cm) x 6k 8-hole duel to 17.5 (44.5cm) x 6.7HC, 10-hole disc/hubs stud piloted, oil bath
Shelter Platform:	Smooth steel plate, 1/8" (0.32cm); typical lengths from <u>+8</u> '6" (2.62m) to <u>+</u> 22'0" (6.7m)
Primary Operating Platform:	Smooth steel plate, 1/8" (0.32cm) operating platform; typical length <u>+</u> 14'6" (4.45m) to 17'6" (5.36m)
Forward/Upper Platform:	Open frame gooseneck or drawbar; steel plated 5 th wheel platform with storage; painted and/or coated
Tow Devise:	Drawbar with 2-5/16" heavy-duty ball coupler or pintle; gooseneck with 2-5/16" ball coupler or inverted
	5 th wheel sleeve; SAE 2" king pin with typical swing clearance to ± 82 " (2m) and ± 18 " (45.7cm) pin
Opfatha Ohioliana	setting to accommodate single and tandem axie tractors; SAE 7-pin or 12-pin Military Venicle connector
Safety Chains:	5/16 (./95cm) of 3/8 (.95cm) P-70 safety chains with back latches/nooks
Stabilizing Outriggers:	Four (4) heavy-duty steel tube retractable outriggers; ± 6.7 (2m) front to ± 10.0 (3m) rear extension
• Outrigger Leveling Jacks:	Four (4) 12,000lb (5,442kg) static/10,000lb (4,535kg) lift capacity each, outrigger stabilizing jacks with minimum 14"x14" (36cm x 36cm) galvanized steel sand and marsh platforms
Landing Gear:	Single or tandem 12,000lb (5,442KG) static capacity each, auto-retract, drop leg or 2-speed with
	adjustable height; minimum 14"x14" (36cm x 36cm) galvanized steel sand and marsh platforms;
	optional electric auto-stabilizing trailer landing gear
• Spare Tire & Carrier:	Full-sized spare tire secured beneath trailer structure or gooseneck/5" wheel platform
• Lights & Wiring:	Arctic/desert wiring package, ICC/DOT sealed beam, LED lights, dual stop and turn lights, sealed modular wiring package
Perimeter Lashing Rings:	Typical 2 to 6 pair perimeter lashing "D" rings; additional at ends of each outrigger
Leveling Jack Mounts:	Galvanized jacks stands, deck mounted with lanyard
Ground Rod Storage Tube:	8'0" (2.44m) ground rod storage tube with removable end caps
Perimeter Grounding Lugs:	Multiple pairs of lugs, perimeter channel mounted
Perimeter Bubble Levels:	Multiple levels, perimeter channel mounted
Wheel Chocks/Cones:	Set of DOT compliant wheel chocks and marker cones
Reflectors/Notices:	Set of DOT compliant reflectors, warning and informational decals
Trailer Finish:	Black painted structure with impact and weather resistant polyuria coating













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SC Series - General Steel Clad Equipment Shelter Description:

Typical Shelter	A variety of custom shelter configurations range in size from 8'0" (2.44m) to 20" (6.1m) Long x 8'0" (2.44m) Wide
Dimensions	x 9'6" (2.92m) High (Outside Dimensions). Shelters may be configured per client specifications, DOT and
	environmental requirement
Typical Shelter	From 2,500lbs (1,138kg) to 7,500lbs (3,401kg) prior to installation of <i>ITS</i> and/or customer equipment
Weight	
Standard Shelter	Reinforced, heavy-duty perimeter steel channel skid and cross members sized according to floor load
Skid	requirement; minimum 250 lbs/sq. ft. All welded construction. Skid to be powder coat painted after fabrication. All
Construction	steel to be A-36 grade.
Standard Shelter	4" (10cm) thick floor panels – cam lock mechanism for panel assembly, high density expanded polystyrene foam
Floor	laminated between exterior sheets of 26 gauge galvanized steel and interior sheets of 20 gauge galvanized steel,
Construction	1" (2.54cm) fire treated plywood reinforcement, minimum 3.5 lbs (1.6kg) weight per square foot of panel surface,
	minimum R-28 insulation factor, exterior white or tan stucco embossed finish, interior smooth galvanized,
	commercial grade floor tile or anti-slip rubber with aluminum base
Standard Shelter	4" (10cm) thick wall and ceiling panels – cam lock mechanism for panel assembly, high density expanded
Wall	polystyrene foam laminated between sheets of 26 gauge galvanized steel, $\frac{1}{2}$ " fire treated plywood wall
Construction	reinforcement, minimum 2.4 lbs (1.1kg) weight per square foot of panel surface, minimum R-18 insulation factor,
	exterior white or tan stucco embossed finish ~ multiple 4" (10cm)W powder coated shelter-to-skid wind shears;
	rating to 135 mph (217 km/hr.)
Standard Shelter	Rain roof with thermoplastic single ply PVC roof system, 6" (15cm) termination bar and fasteners
Roof Treatment	
Standard Shelter	Typical 3'0" x 6'0" (.92m x 1.83m) or double 4'0" x 6'0" (1.22m x 1.83m), insulated, 20 gauge steel constructed,
Door	white or tan, 20 or 16 gauge steel frame, drip cap, threshold, weather seal, stainless steel NRP hinges, door
Construction	lockset, lever-type assembly, deadbolt, latch guard, chrome plate grab handle
Standard Shelter	Shelter wiring is installed in surface mounted conduit. Interior devises such as switches and receptacles are
Electrical	installed in surface mounted boxes. All circuits are breaker protected. A service entrance is provided on the
	exterior of the shelter for connecting to main electrical power supply. Additional entrances are provided for
	telephone and generator hook-ups. All electrical is installed in accordance with the National Electric Code
Air Conditioning	1 or 2 air conditioners; typical 2-ton (24,000 BTU) or 3-ton (36,000 BTU) capacity each, typical 3-5kW heat, wall
and Heating	mounted unit(s); tandem AC systems have lead lag controller. Standard configuration to include: thermostat,
Systems	supply grill, return grill, low ambient fan control, adjustable time delay relay, low pressure by-pass, full length
	mounting brackets, rain hood, dry contact for remote on lockout, high and low pressure switches with lockout
Dortial List of	Perate a maximum and internal disconnect ~ 250/206/1/60⊓2
Partial List of	Surface mounted sodium exterior lights with photocell
Accessories	Ground bar kit, exterior and/or interior mounted
Accessories	Halo ground kit with accessories, #2 solid tinned copper drops
	• Wave guide entry ~ 2 to 8 ports
	• Exterior shelter receptacle(s), 120V, GFI
	 100-200 Amp/240/120V/60Hz/1PH service panel, 20-42 breaker spaces and disconnect
	 2" LB connectors for incoming power, optional generator
	Shelter roof access ladder
	Multiple duplex and/or four-plex receptacles, 20 amps each
	• Telco board, 2'x4' (.61m x 1.22m) with FRP on one side
	Alarm terminal strip with open door, high/low temperature, smoke/fire alarm
	Emergency lighting with battery backup
	• Fluorescent lights, 2' (.61m) – 4' (1.22m) each with RFI filter and cover or wire guard
	Detachable shelter entry steps
	Automatic or manual transfer switch
	UPS and surge suppression systems, and much more
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Representative SC Series Drawbar Trailer Configurations w/ 109' (33m) AGL Tower





Representative 20'0" x 8'0" x 9'6" - OD (6.1m x 2.44m x 2.9m) Shelter Configuration

