

**S-TOWER**<sup>®</sup>  
THE SMART IV POLE

---

The definition of  
**Ergonomics, Versatility  
and Dependability**

© 2022-2032 ANGEL MEDICAL LLC



ANGEL MEDICAL®



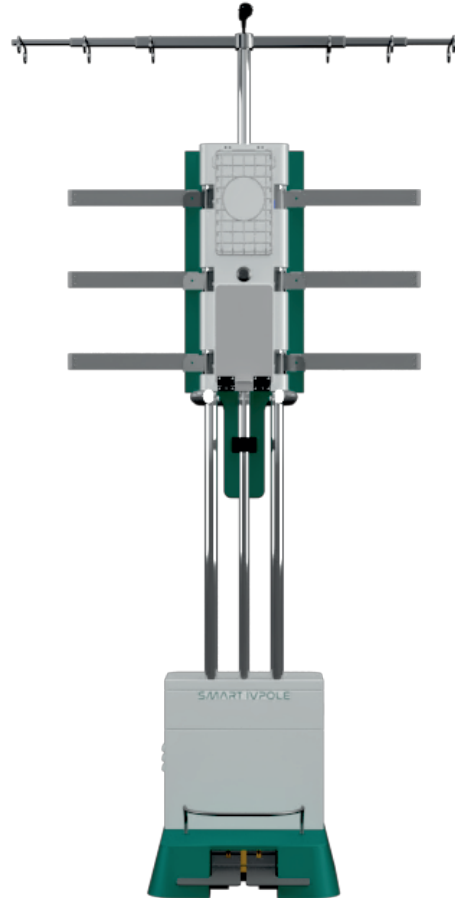
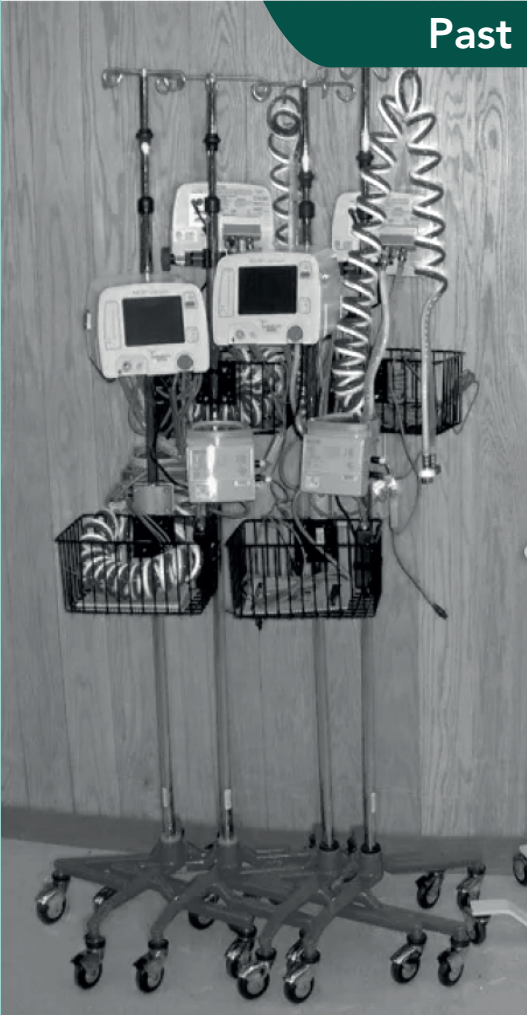
## About Us

Angel Medical Devices offers solutions that enable healthcare professionals to deliver exceptional care during complex medical cases.

Committed to innovation in the perioperative field, we develop ergonomic solutions that improve workflow processes, and safety for patients and providers.

Our mission is to deliver medical devices and accessories that simplify the overburdened medical procedure suites such as the operating rooms, hybrid rooms, and intensive care units.

Past



Future

## Ergonomics, Versatility, and Dependability become ONE.

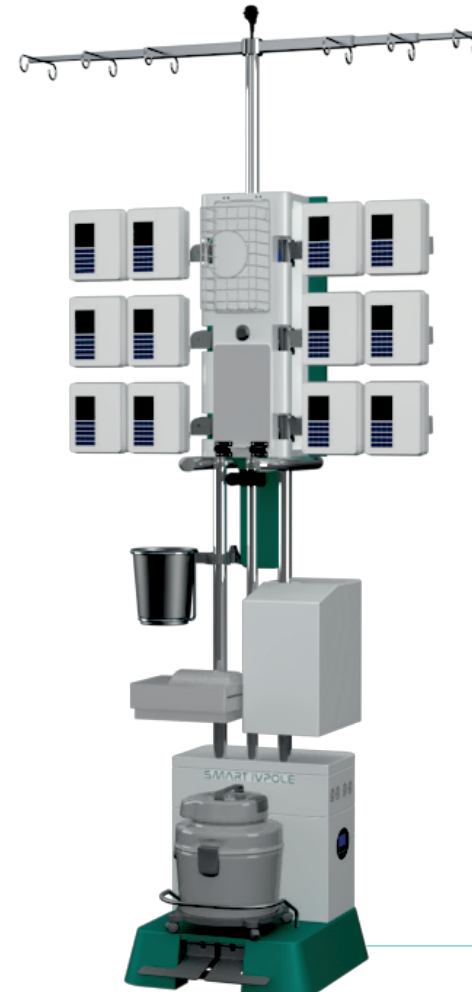
**Introducing The S-Tower, The Smart IV Pole:** A radical, innovative platform that eliminates the limitations of the obsolete IV pole, by offering additional utility functions for the surgical, anesthesia, and ICU environment, while protecting personnel and valuable medical equipment.

The new Smart IV Pole is built as a modular structure allowing hospitals and users to customize the number of options needed for their workspace and workflow.

From the simplest setting to the fully loaded option, the S-Tower contributes excellent value to patient safety, ergonomics, workflow continuum of care, and inventory control.



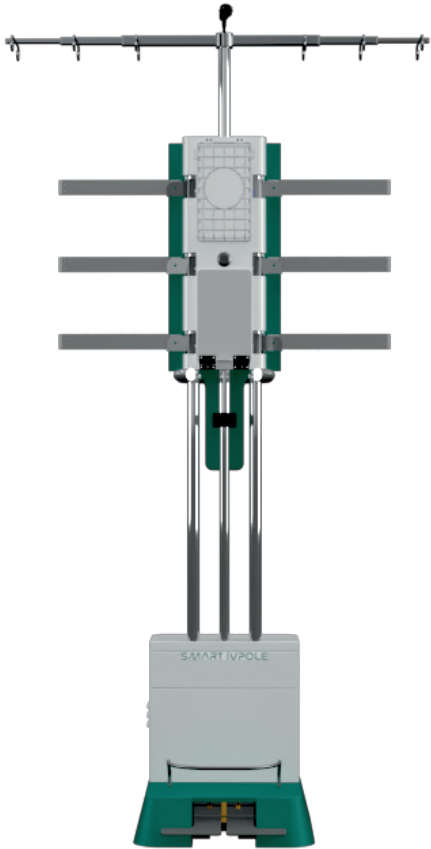
NAKED



FULLY LOADED

## Main Profiles

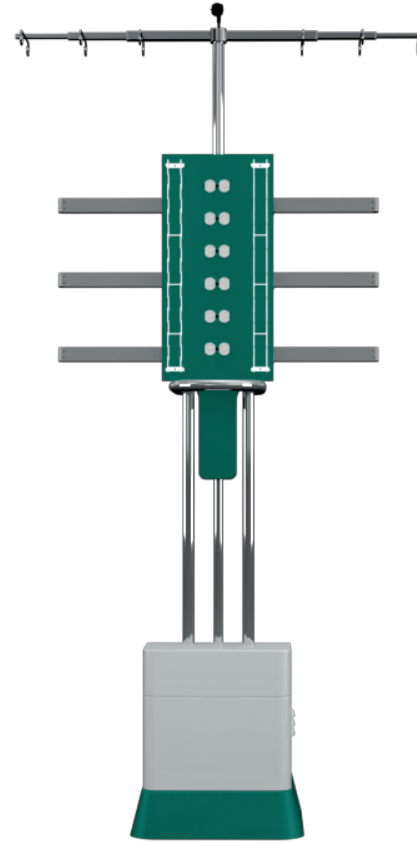
Front with arms extended



Perspective with arms retracted



Back



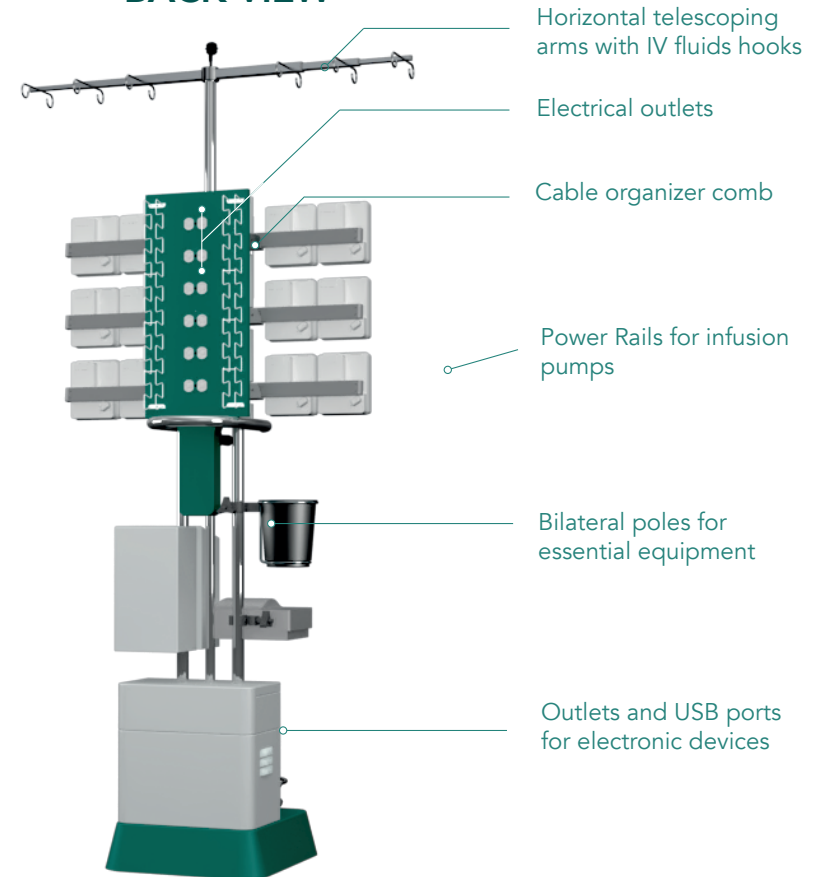
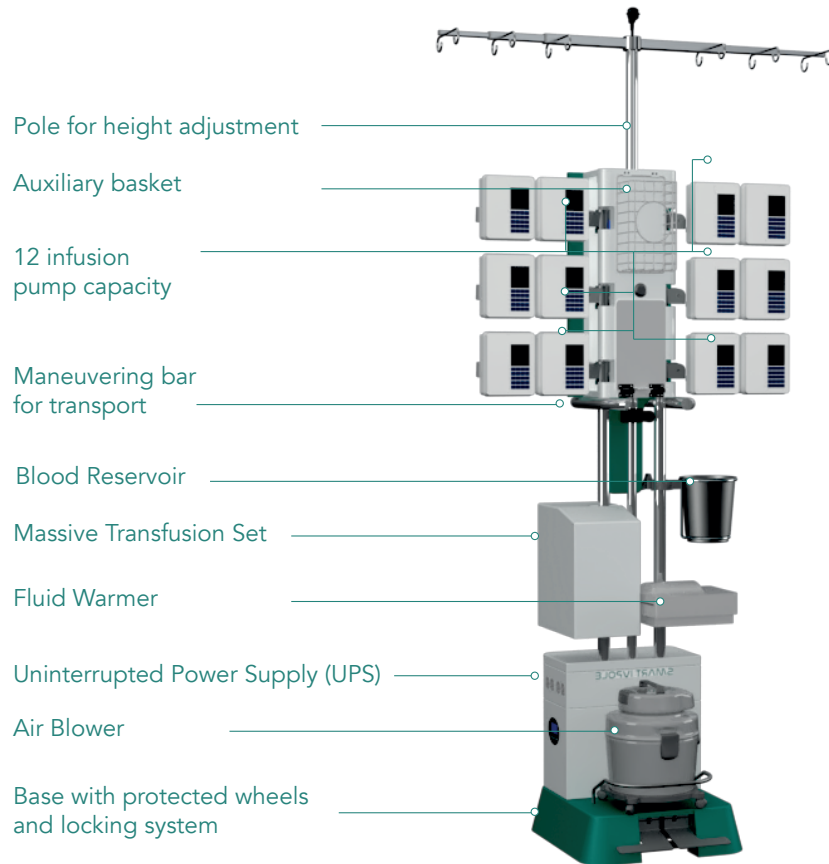
Side



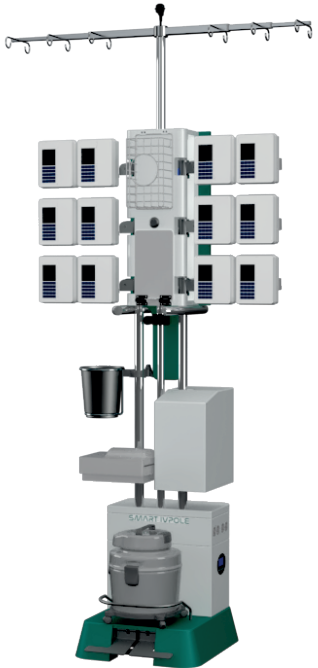


## Modularity, Configuration, Power source, Tracking

FRONT VIEW

BACK VIEW



# S-Tower Family

Single Set Pumps	Multiple Stackable Pumps	
Baxter	Alaris	B.Braun
<p data-bbox="352 506 676 549"><i>Shown fully loaded</i></p>  A tall, grey S-Tower IV pole with a green base. It is fully loaded with nine Baxter infusion pumps arranged in a 3x3 grid. A stainless steel cup is attached to the side. The base has a control panel with a blue button and a digital display.	 A tall, grey S-Tower IV pole with a green base. It is fully loaded with nine Alaris infusion pumps arranged in a 3x3 grid. The base has a control panel with a blue button and a digital display.	 A tall, grey S-Tower IV pole with a green base. It is fully loaded with nine B.Braun infusion pumps arranged in a 3x3 grid. The base has a control panel with a blue button and a digital display.

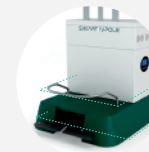


## ALL IN ONE SOLUTION

A single platform to hold and secure the essential medical equipment to deliver above-the-standard patient care, superb ergonomics, and offering uninterrupted power source to protect capital equipment from sudden outages.

All in one platform, the tower improves clinical compliance by having all needed equipment readily available in a unit, improves staff safety by eliminating hazards from the Spaghetti syndrome, and inventory control with real-time location system.

The S-Tower serves as an integrated structure to support and secure multiple medical equipment used by the anesthesia and ICU staff when performing their functions, improving their workflow and safety, all while decreasing capital equipment waste and operational cost.



### Stable Square Base

Decreases footprint by 25%, prevents equipment collision, improves storage, easier transport.



### Full Peripheral Skirt Shield

Prevents sudden stops, entanglements, and running over cables. Provides more stability with full floor contact when locked, prevents tipping onto patients or valuable equipment.



### Retractable Power Cord

Decreases staff hazards from the spaghetti syndrome by self-recoiling the power cords above and below when not in use.



### Single Large Front Brake

Provides superb ergonomics, stability, and safety by locking all four wheels simultaneously, preventing any movement.



### Floating Front Rail

Fastens and protects the air blower to a convenient location.



### LOWER DECK

Prevents tipping with a low center of gravity.



#### Uninterrupted Power Supply

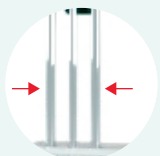
Provides patient and critical equipment with power backup to improve patient safety.



#### Air Blower

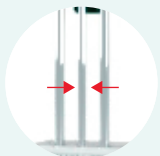
Readily available to improve temperature management.

### LOWER SECTION



#### Two Fixed Parallel Vertical Poles

Provides increased stability, sturdiness, and mounting area capacity.



#### One Central Mobile Vertical Pole with a Handle

Provides better handling ergonomics, easily moved with one hand.

### MIDDLE SECTION



#### Oval Peripheral Handle with Straps

Better control for maneuvering during transport.



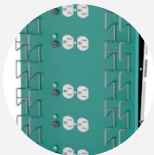
#### Six Horizontal Retractable Arms

Increased capacity for twelve IV infusion pumps as needed. When in use, the arms adjust forward. When idle, each arm retracts upwards and hides independently.



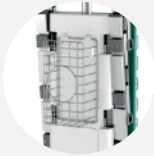
#### Twelve Cordless Contact Charging Brackets

Eliminate the need for the IV pump power cord, improves ergonomics by eliminating the spaghetti syndrome while saving on capital equipment expenditures.



#### Twelve Posterior Electrical Outlets

Provides maximum capacity to charge medical equipment, including the twelve IV pumps, simultaneously if needed.



#### Front Mesh Basket

Provides an optional container for securing hardware connected to the patient, such as a cardiac pacemaker or having a preferred-size glove box readily available.



#### Front Foldable Tray

Provides a valuable working surface for different tasks, such as, prepping medications.

### MIDDLE SECTION



#### Front Electrical Outlet and USB Charger

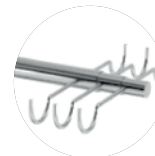
Facilitates the charging of staff's personal electronics, eliminating distractions away from the patient.



#### Posterior Cable Organizer

Efficiently and securely coils each cable independently from the other cables.

### UPPER SECTION



#### Upper Horizontal Hanging Bars

Telescoping bars adapt to the length needed depending on the number of hanging fluid bags.



#### Upper Retractable Power Cord

Eliminates hazards to personnel by providing the ideal position to connect with ceiling towers.

## What does it mean to clinicians?



Readiness

When seconds count, all essential medical equipment is ready to go in one central place. Always charged, no need to plug and setups. Just connect to the patient.



Versatility

The S-Tower adapts to any situation and environment. It exceeds all current IV pole systems uses.



Reliable

Extremely well-thought-out structure, consistently delivering all functions in any room any case.

## Who can benefit from the S-Tower?



### Patients

A safer support platform that is always available. Increase medical compliance with protocols, decrease medical errors, always with a backup.



### Anesthesiologists and intensivists

Daily superusers performing complex tasks.



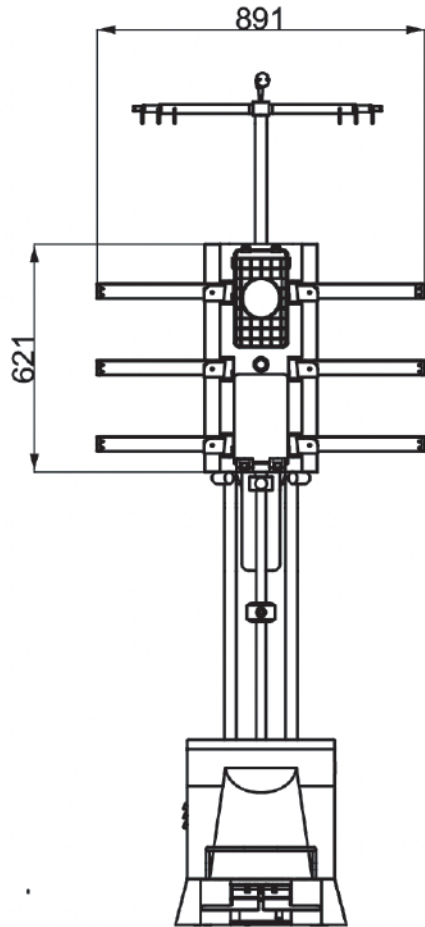
### Nurses

Superb ergonomics, organization for better patient care.

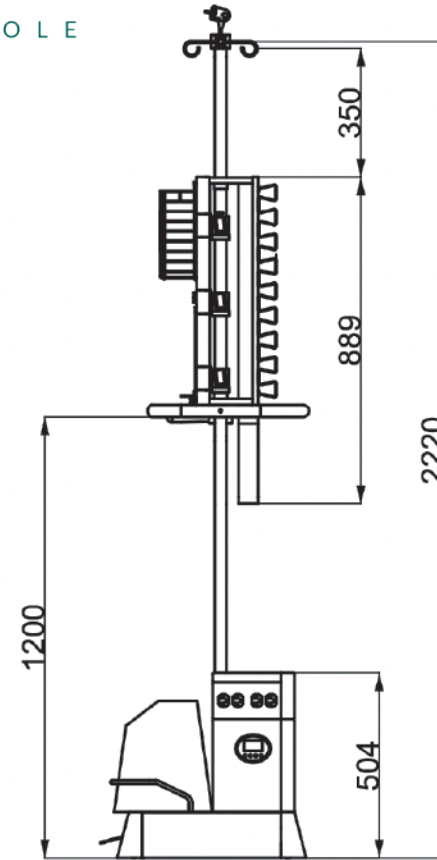
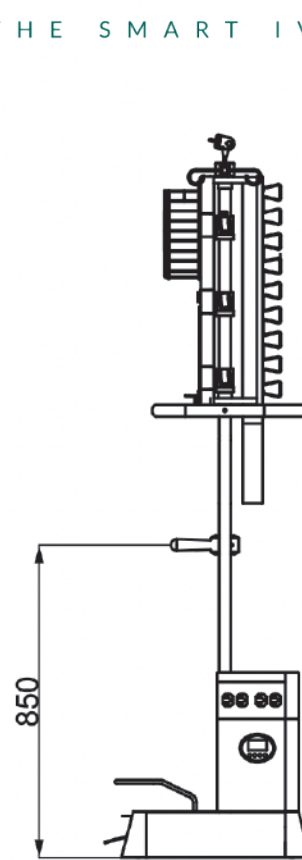


### Hospitals

Financial managers with significant decrease on consumption of capital assets, improve inventory control with tracking, and risk management with decreased staff and patient injuries.



**S-TOWER**<sup>®</sup>  
THE SMART IV POLE



Electrical components: 60601-1 Certification

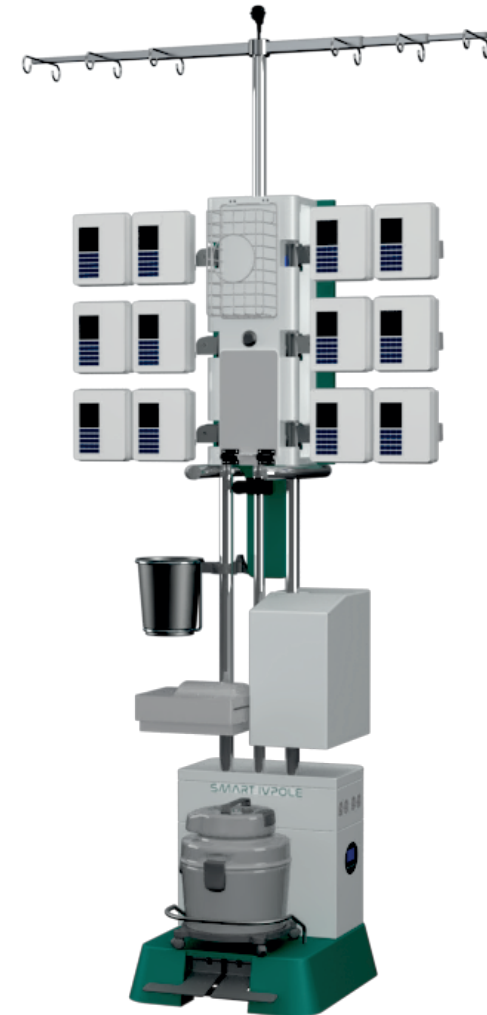
Weight Capacity: 540 lbs.

Dimensions: Metric System

## Indication for use:

The S-Tower was designed by seasoned anesthesiologists and intensivists attending high-acuity cases to respond to patient, staff, and hospital needs. Teaming up with industrial and mechatronics engineers, the S-Tower was designed to maximize ergonomics, workflow and throughput, and cost savings, becoming the ideal mobile platform for any tertiary and quaternary hospitals.

It can be used in simple cases with the basic-naked profile loaded with the air-blower and fluid-warmer, to the most complex of surgical cases offering all the comprehensive features to support patient care, the practitioners' needs, and hospital requirements. Regardless of the configuration, the S-Tower is the solution for inventory control and decreased consumption of fixed capital in overburdened medical rooms.



Pat. Pend.

## Instructions

The S-Tower has three sections, each with multiple components. All components are well known to the medical environment and are self-explanatory.

All six arms in the middle section can pivot vertically to an idle and hidden position for storage, and when in use they can move forward up to 60 degrees to improve ergonomics, and decrease lateral wingspan further.

The height of the top hooks is adjusted by the central pole handle located at the center on the tower, and locked in position by rotating the handle clockwise. The top electrical power cable can be pulled and adjusted to the needed length and contains a self-recoiling mechanism.

## Warnings

The modular pieces of the S-Tower were designed and tested for use in the OR and ICU. Testing included stability of each component, strength, and performance. Do not use the tower or any accessories if damaged or defective. **DO NOT** install non-medical equipment or larger medical devices not designed to be held by an IV pole. Do not exceed maximal weight capacity of 540 lbs. The S-Tower is made from medically graded components with the corresponding certifications. Autoclave is not necessary. It can be sprayed and wiped with any bactericidal, tuberculocidal, and virucidal containing chlorides and alcohol. Avoid the use of any caustic substance to clean the product.



# S-Tower Competitive Landscape

Features		<b>SKYTRON</b>	
Intended Use	Perioperative Area+ ICU	Transport + Limited ICU Used	
Loading Capacity	Multiple Medical Equipment *1	Limited *2	
Wireless Connectivity - Real Time Location Systems	✓	NONE	
Stable Base	Square: Smaller Footprint	Radial Legs: Larger Footprint	
Require Set-Up	NO	✓	
Easy To Transport	✓	✓	
Ergonomic	✓	✓	
Cost Savings - Inventory Control	✓	NO	
Versatility	<ul style="list-style-type: none"> <li>• UPS</li> <li>• Cable Organizer</li> <li>• Tray + Mesh Box</li> <li>• Electrical Outlets</li> </ul>	NONE	

\*1: Multiple Medical Equipment + up to 12 pumps

\*2: Limited to 6 pumps

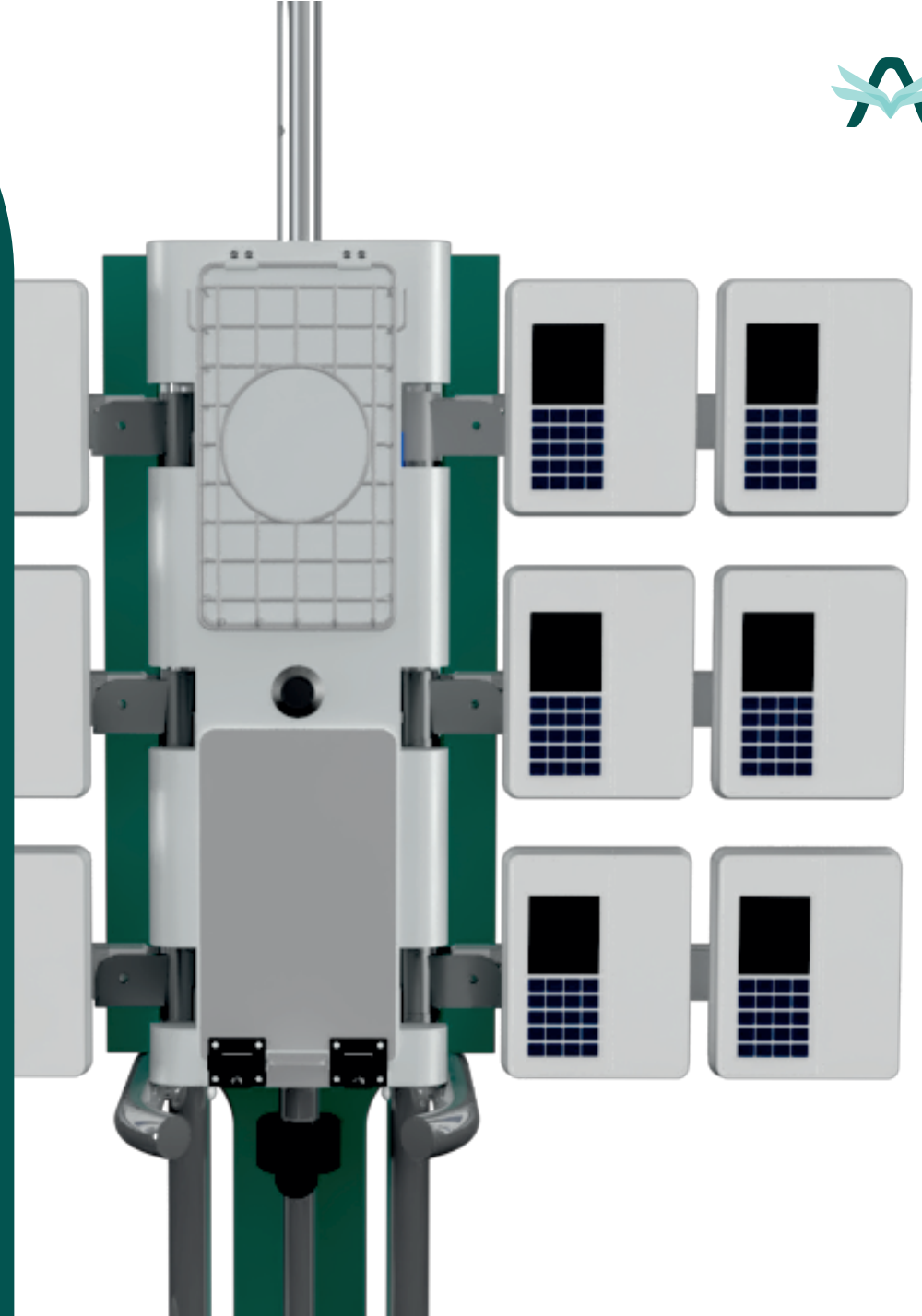


# Ordering info and support.

WE WILL HELP YOU

✉ [contact@angelmedicaldevices.com](mailto:contact@angelmedicaldevices.com)

🌐 <https://angelmedicaldevices.com>





ANGEL MEDICAL®

© 2022-2032 ANGEL MEDICAL LLC - All rights reserved