



SUTPHEN SPH 100 AERIAL BOOM & PLATFORM FEATURES – WHY THE SUTPHEN MID-MOUNT EXCEEDS THE COMPETITION

- **Strongest Boom** – The Sutphen boom is a four sided box truss design constructed from 6061 T6 aluminum alloy, and mechanically fasted using the Alcoa Huck fastening system. This complete boom system provides an unmatched structural safety factor of 3 to 1. Most other manufacturers are 2 to 1 at best.
- **Compact boom** – A 5-Section boom enables the aerial to come out of the cradle and straight to the roof or window directly. This is extremely important in today's crowded urban environment. A typical three section aerial is 1/3 longer, needing much more room or maneuvering. to get out of the cradle
- **Highest wind load** - All Sutphen platforms are rated for 35 MPH winds; a direct testament to the box boom's strength.
- **No Load Chart** – What does this mean? Simply put, the aerial will operate at full capacity anywhere within the operating envelope. This is regardless of elevation or extension.
- **It's All Inside** - The Sutphen waterway, electrical cables, and breathing air hoses are completely enclosed inside the box boom, providing excellent protection for those systems. The Sutphen aerial tower may be nested against a roof cornice or building, if necessary, without causing costly repairs to the waterway unlike most other designs.
- **Superior Driver Visibility** - No aerial platform to hang over the front of the truck, blocking street corner poles or traffic lights.
- **Faster Spotting Time.** Mid mounted turntable and top hinged heel pivot = a quicker trip to the window. This gives the truck company more options on scene.
- **Centralized Jack Controls** - Fastest set-up time in the industry. Only one out and down jack each side. All significant control stations (i.e. cab, jacking, pump, and turntable controls) are located within 12 feet of each other. After setting the parking brake at the scene, the Sutphen platform can be airborne in 40 seconds or less. Most competitors take at least three minutes.
- **Climbing Ladder** - is built as an additional structure over the boom. Excellent climbing ladder on all Sutphen high rail models. The Sutphen ladder footing area has no K-bracing to obstruct foot placement as with most other designs.
- **Lower Maintenance Cost.** Boom is constructed of 6061-T6 aluminum. Non-corrosive, never needs paint, won't rust, and no rung covers to ever replace. Slide blocks are constructed from Ultra High Molecular Weight material (UHMW).

- **Lower Hydraulic Pressure.** The hydraulic system operates with lower hydraulic pressure and lower heat because of the lower weight of the aerial device.
- **Displays and Controls.** All displays and control panels are laid out in a user friendly manner, and backlit for nighttime use.
- **Rotation Safety Systems** – A rotation interlock system allows the aerial to be safely short jacked. And a crush avoidance system monitors the position of the aerial boom in relationship to the cab, body and any other obstructions.
- **Precision Aerial Operation.** Feather ease controls, allow the aerial operator the choice of high speed, normal & low range speed control. A “creep” speed switch allows the operator to make pin-point adjustments when working close to buildings or other obstructions.
- **Large Platform** -73” wide x 40” deep, 19.5 sq. ft. 1000 lb dry capacity, 500 lb wet capacity (3-1 safety factor)
- **Safe Platform** – Similar to a Ferris Wheel, the Sutphen platform is suspended from a yoke assembly that is attached on both sides of the platform, slightly over center. In the unlikely event that the leveling system suffers a catastrophic failure you cannot be pitched forward and out.
- **Safety Inside the Platform** – Platform doors are solidly re-enforced with heavy duty door stops and latches. Four (4) extra large tie off points are provided inside the platform, to attach ladder belts to.
- **Stokes Rack** Easy to use stokes basket arms are located under the front of platform. The patient tender can remain safely inside.
- **Parapet Ladder** A ready to use drop-down Parapet ladder is located on center of platform. No need to hang a cumbersome roof ladder from brackets on the side of the platform.
- **Standard Warranty** - Thirty year structural warranty on the aerial device.