



# SST-37/40-EIH

Insulated  
Articulated/Telescopic Aerial



## FEATURES INCLUDED IN THE SST-37/40-EIH

### **OUTER/INNER BOOM ASSEMBLY**

The outer/inner boom assembly includes an outer boom, telescopic inner boom, extension system, and hose assemblies. The outer boom consists of a 6 in. x 8 in. (150 mm x 200 mm) steel section and a 7.5 in. x 9.5 in. (190 mm x 240 mm) fiberglass section (Electrogard) that maintains a 42 in. (1.08 m) insulation gap with the inner boom fully retracted. The 5 in. x 7 in. (130 mm x 180 mm) rectangular fiberglass inner boom is housed within the outer boom. The extension system consists of a hydraulic cylinder, two holding valves, and a hose carrier housed entirely within the boom assembly. The hoses routed through the outer/inner boom assembly are non-conductive and fully contained within the boom assembly.

The outer/inner boom assembly articulates from 14° below horizontal to 74° above horizontal. Actuated by a double acting cylinder with a holding valve, the outer/inner boom assembly is offset to one side to provide easy access to the platform. A molded rubber boom-support cradle supports the boom when stowed, without the need for a tie-down strap.

### **ELECTRICAL INSULATION SPECIFICATIONS**

The outer/inner boom assembly is tested and certified for electrical work at 46 KV and below in accordance with ANSI A92.2-2001 requirements. The outer/inner boom assembly is fully insulated even in a retracted position.

### **HYDRAULIC PLATFORM LEVELING**

Platform leveling is controlled by a master and slave cylinder arrangement. The platform leveling system can be activated from the upper controls to adjust platform leveling, tilt the platform for cleaning, or to ease the removal of an injured operator. A leveling control from the lower control is available as an option.

### **COMPENSATED LOWER BOOM**

The lower boom consists of a 6 in. (150 mm) square steel section. A double acting cylinder with dual holding valves allows the SST-37 lower boom to articulate from 7° below horizontal to vertical for a total travel of 97°. The SST-40 lower boom articulates from 5° below horizontal to vertical for a total travel of 95°. A compensation link forms a parallelogram linkage to maintain the outer/inner boom assembly at a constant angle to the turret.

### **SINGLE STICK PLATFORM CONTROL**

The Unitrol single-stick control consists of a multi-jointed handle which operates the control valve. A safety trigger located on the underside of the single stick handle will not allow boom movement until it is depressed. The control valve is full pressure and full flow. The operator can feather between the three control movements to provide multi-function boom action. An emergency stop control is provided.

### **ROTATION**

Rotation is 370°, non-continuous with a mechanical stop. Continuous, unrestricted rotation is available as an option. Rotation is accomplished by a hydraulically driven worm and spur gear set acting on a shear-ball rotation bearing. The critical bolts holding the turret to the rotation bearing and the bearing to the pedestal are grade 8 hex head cap screws. These critical bolts are marked with a torque seal indicator to provide a quick means to inspect for relative movement. A slotted adjustment is provided for pinion and rotation gear clearances.

### **PLATFORM**

The fiberglass platform is 24 in. x 24 in. x 42 in. (0.61 m x 0.61 m x 1.07 m) deep with an inside and outside step for easy access. Maximum available platform capacity is 400 lbs. (181 kg) depending on basket options selected.



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## Insulated Articulated/Telescopic Aerial

**GENERAL SPECIFICATIONS***(Based on 40 in (1.02 m) Frame Height)*

	SST-37-EIH	SST-40-EIH
Horizontal Reach .....	28 ft 1 in. (8.6 m)	28 ft 1 in. (8.6 m)
Standard Platform Capacity .....	300 lbs. (136 kg)	300 lbs. (136 kg)
Maximum Platform Capacity .....	400 lbs. (181 kg)	400 lbs. (181 kg)
Outer Boom Lift Eye Capacity .....	500 lbs. (227 kg)	500 lbs. (227 kg)

**WITH STANDARD PEDESTAL**

Height to Bottom of Platform .....	37 ft. 0 in. (11.3 m)	40 ft. 0 in. (12.2 m)
Working Height .....	42 ft. 0 in. (12.8 m)	45 ft. 0 in. (13.7 m)
Stowed Travel Height .....	10 ft. 4 in. (3.1 m)	10 ft. 4 in. (3.1 m)
Weight of Lift .....	2230 lbs. (1012 kg)	2335 lbs. (1059 kg)

**HYDRAULIC SYSTEM**

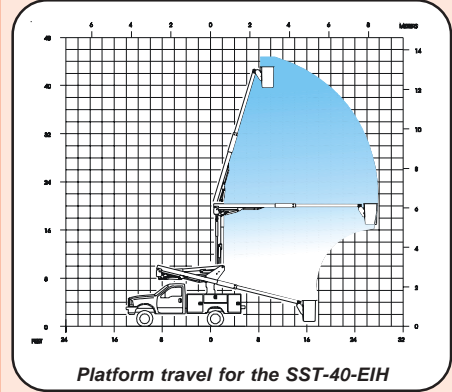
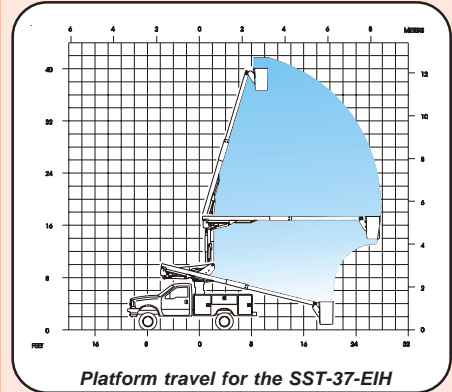
Operating Pressure .....	2250 PSI (158 kg/cm)	2250 PSI (158 kg/cm)
Flow Rate .....	3 GPM (11 lpm)	3 GPM (11 lpm)
Filtration .....	10 micron return	10 micron return
.....	100 mesh suction	100 mesh suction
System Type .....	Open center	Open center

**BOOM ACTION**

Inner Boom .....	116 in (2.9 m) Extension	116 in (2.9 m) Extension
Outer Boom .....	-14° to +74°	-14° to +74°
Lower Boom .....	-7° to vertical	-5° to vertical
Rotation .....	370° non-continuous with	mechanical stop

**INSULATION GAP**

Upper Boom fully retracted .....	42 in. (1.07 m)	42 in. (1.07 m)
Lower Boom Insert (optional) .....	12 in. (0.3 m)	12 in. (0.3 m)



**NOTE:** 1. Specifications may vary without prior notification.  
 2. Required GVWR can vary significantly with chassis, lift mounting location, service body, accessories, and desired payload.

## Options

- Continuous Rotation
- 180° Rotating Platform
- Larger Platforms & Increased Platform Capacity
- Hydraulic Tool Circuit at the Platform
- Emergency Power
- Independent Outriggers or Front and Rear Tortion Bars
- Shorter or Taller Pedestals
- Chassis Insulation System (Lower Boom Insert)
- Two-Speed Manual Throttle Control



Side by side low stow boom design allows for safer platform entry and reduced travel height.

**TIME**  
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