



# VO-40-MHI

*Insulated Articulated Aerial*



Mounts on a 17,500 GVWR chassis.



Best-in-class non-overcenter reach.

## *FEATURES INCLUDED IN THE VO-40-MHI*

### **INSULATED UPPER BOOM**

The 8 in. x 10 in. (200 mm x 250 mm) rectangular upper boom is constructed of high strength filament-wound epoxy resin fiberglass. The fiberglass has a gel coat and a high gloss durable urethane finish for added weather protection and water beading. The fiberglass boom is certified for 46 KV and below in accordance with ANSI A92.2 Category C dielectric rating requirements. The upper boom articulates a total of 240° relative to the lower boom. A side by side boom design allows low travel height and improved platform access. The upper boom articulation is accomplished by a double acting hydraulic cylinder and 4-bar mechanical linkage. The system does not use any cables and the booms can be stowed in any sequence. A double acting holding valve is provided. An upper boom storage cradle mounted on the turret assures solid boom support in the stowed position. A ratchet-type boom tie-down strap is included.

### **LOWER BOOM**

The lower boom is designed and constructed from high strength, 12 in. (300 mm) square, steel tube. Boom articulation is 110°, from horizontal to 20° past vertical. Articulation is achieved by using a double-acting hydraulic cylinder equipped with two integral holding valves. In the event of a hydraulic failure, the integral holding valves prevent the booms from dropping by locking the booms in position. In addition the cylinder rod eye is both threaded and welded.

### **CHASSIS INSULATING SYSTEM (Lower Boom Insert)**

Each end of a high strength filament-wound epoxy resin fiberglass is inserted into the steel boom sections. The fiberglass insert maintains a 12 in. insulation gap between the two steel sections.

### **JIB AND WINCH**

A material handling jib and winch with an 1100 lbs. (500 kg) capacity. The jib pole is 4 in. square and hydraulically articulates 120°. The pole manually extends from 1.5 ft. to 5 ft. (0.5 m to 1.5 m) with 5 pinning positions. A self-locking worm gearbox hydraulically powers the winch, so a brake is not required. The winch includes 55ft (17 m) of 3/8 in (10mm) diameter winch line with a braided hoop and clevis hook. A control valve for the winch is provided at both the upper and lower controls.

### **CONTINUOUS ROTATION**

Rotation is continuous and unrestricted in either direction. The rotation system consists of a hydraulically driven worm and spur gear acting on a shear-ball rotation bearing. The critical bolts holding the lift to the rotation bearing and the rotation bearing to the pedestal are grade 8. These critical bolts are torque seal marked to provide a quick means of detecting any loosening. An eccentric ring gearbox mounting allows for precise backlash adjustments sequence. An upper-boom storage cradle, mounted on the lower boom assures solid boom support when the boom is stowed.

### **MECHANICAL PLATFORM LEVELING**

Platform leveling is achieved automatically through a completely enclosed parallelogram system. The major components of this system include 1 in. (25 mm) diameter fiberglass leveling rods and No. 100 high strength roller chain. There are no cables used in this system. The fiberglass leveling rods maintain the insulation gaps in all boom positions and are 100% tested at twice the rated load. The tension is adjusted by means of a threaded rod in the upper and lower boom and platform leveling is adjusted by another threaded rod at the turret.



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## GENERAL SPECIFICATIONS

(Based on 40 in. (1.02 m) Frame Height)

Horizontal Reach Overcenter .....	31 ft. (9.4 m)
Horizontal Reach Non-Overcenter .....	29 ft. 11 in. (9.1 m)
Standard Platform Capacity .....	350 lbs. (160 kg)
Maximum Platform Capacity .....	400 lbs. (183 kg)
Maximum Jib Capacity .....	1100 lbs. (500 kg)
Lower Boom Lift Eye Capacity .....	1,500 lbs. (680 kg)

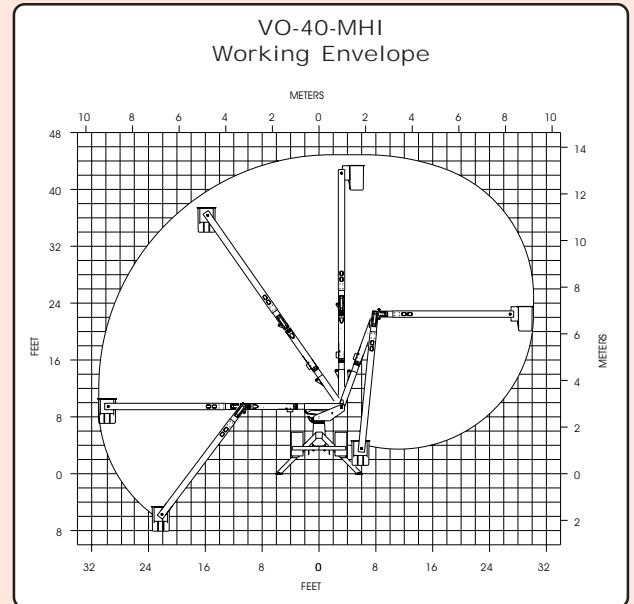
## With Standard Pedestal

Height to Bottom of Platform .....	39 ft. 10 in. (12.1 m)
Working Height .....	44 ft. 10 in. (13.6 m)
Stowed Travel Height .....	10 ft. 3 in. (3.1 m)
Weight of Lift with Outriggers .....	4500 lbs. (2040 kg)

## Hydraulic System

Operating Pressure .....	2500 PSI (175 kg/cm <sup>2</sup> )
Flow Rate .....	6 GPM (23 lpm)
Filtration .....	10 micron return
.....	100 mesh suction
System Type .....	Open center
Power Source .....	PTO pump

**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

- 400lbs. Platform Capacity
- Platform Liner
- Platform Cover
- Hydraulic Jib Pole Extension
- Two-Speed Manual Throttle-Control
- Emergency Power
- Category B Dielectric Certification
- Outrigger Boom Interlock System
- Tool Port Pressure & Flow Control
- Torsion Bar
- Second Set of Tool Power Outlets



Body access from bucket.



Ability to lift up to 1100 lbs.

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