



# VANTEL-29

Telescopic Aerial



## FEATURES INCLUDED IN THE VANTEL-29

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

The major components of the outer/inner boom assembly include an outer boom, a telescoping inner boom, an extension cylinder, a hose carrier system, and slide pads mounted on the inner and outer booms. The outer boom consists of a 6 in x 8 in. (152 mm x 203 mm) rectangular steel section. The telescoping inner boom consists of a 5 in. x 7 in. (128 mm x 178 mm) rectangular aluminum (non-insulated) or fiberglass (insulated) housed within the outer boom. The inner boom does not have to be removed to service the extension cylinder or slide pads. The extension system consists of a hydraulic cylinder with wear rings on the piston and end gland and a holding valve mounted to the cylinder base. The hose carrier system is a multi-link metal assembly with adequate space to carry hoses and wiring to the upper control station. The telescoping outer/inner boom assembly articulates from 8° below horizontal to 80° above horizontal. A double acting cylinder, equipped with a counter balance holding valve, provides boom elevation. A boom support cradle and boom tie-down strap are included.

### **CYLINDERS**

The extension cylinder has wear rings on the piston and end gland for extended seal life. A double acting holding valve is mounted at the extension cylinder base to prevent boom creep during travel or uncontrolled movement in case of hydraulic hose failure. The extension cylinder can be removed without removing the inner boom. The boom elevation cylinder has a single acting holding valve.

### **LUBRICATION**

Non-lube bearings are used at all pivot points. The rotation bearing is the only component that requires periodic lubrication.

### **UPPER CONTROL**

The VANTEL-29-IH/EIH platform has a manually operated hydraulic valve mounted to the platform, which controls the boom and platform movements. The control handles are locked in the center (neutral) position. If the unit is in operation and the operator releases any functioning control handle, it will return to the off and locked position. On the VANTEL-N (side-mounted platform), all switches are recessed into the inner boom. The VANTEL-NE (end-mounted platform) has the control panel mounted inside the platform. To protect against inadvertent operation, a spring loaded master control switch is provided.

### **ROTATION**

Rotation is 360° (with an electric limit switch) to 370° (with a mechanical limit switch) non-continuous to prevent hose and wiring damage. Continuous unrestricted rotation is available as an option. Rotation is accomplished by a hydraulically driven worm and spur gear and a shear-ball rotation bearing. The critical bolts holding the lift or turret to the rotation bearing and the rotation bearing to the pedestal are SAE grade 8. These critical bolts are torque seal marked to provide a quick means to inspect for loosening. An adjustment screw is provided to adjust pinion and rotation gear clearances.

### **PLATFORM**

The standard fiberglass platform is 24 in. x 24 in. x 42 in. (.61 m x .61 m x 1.07m). Hydraulic leveling is standard on the VANTEL-EIH, VANTEL-IH and VANTEL-NE (end-mounted platform). Hydraulic leveling is optional on the VANTEL-N (side-mounted platform). Walk-in, splicing and rotating splicing platforms are also available.



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## GENERAL SPECIFICATIONS

	VANTEL-29-IH	VANTEL-29-EIH	VANTEL-29-N	VANTEL-29-NE
Horizontal Reach .....	20 ft. 11 in. (6.37 m)	22 ft. 8 in. (6.91 m)	20 ft. 8 in. (6.30 m)	22 ft. 7 in. (6.88 m)
Standard Platform Capacity .....	300 lbs. (136 kg)	300 lbs. (136 kg)	300 lbs. (136 kg)	300 lbs. (136 kg)
Outer Boom Travel .....	-8° to +80°	-8° to +80°	-8° to +80°	-8° to +80°
Inner Boom Extension .....	116 in. (2.95 m)	116 in. (2.95 m)	116 in. (2.95 m)	116 in. (2.95 m)
Insulation Gap .....	42 in. (1.07 m)	42 in. (1.07 m)		

### Van Mount Pedestal with Riser (Heights based on 30in. (0.76 m) floor height.)

Height to Bottom of Platform .....	28 ft. 8 in. (8.74 m)	28 ft. 10 in. (8.79 m)	28 ft 11 in. (8.81 m)	29 ft. 9 in. (9.07 m)
Working Height .....	33 ft. 8 in. (10.3 m)	33 ft. 10 in. (10.3 m)	33 ft 11 in. (10.3 m)	34 ft. 9 in. (10.6 m)
Stowed Travel Height .....	9 ft. 8 in. (2.95 m)	9 ft. 8 in. (2.95 m)	9 ft. 9 in. (2.97 m)	9 ft. 9 in. (2.97 m)
Weight of Lift w/ Mounting Hardware ..	1630 lbs. (740 kg)	1650 lbs. (750 kg)	1510 lbs. (685 kg)	1530 lbs. (694 kg)

### 4 in (102 mm) Taller Van Mount Pedestal with Riser(Heights based on 30in. (0.76 m) floor height.)

Height to Bottom of Platform .....	29 ft. (8.84 m)	29 ft. 2 in. (8.89 m)	29 ft 3 in. (8.91 m)	30 ft. 1 in. (9.17 m)
Working Height .....	34 ft. (10.4 m)	34 ft. 2 in. (10.4 m)	34 ft 3 in. (10.4 m)	35 ft. 1 in. (10.6 m)
Stowed Travel Height .....	10 ft. (3.05 m)	10 ft. (3.05 m)	10 ft. 1 in. (3.07 m)	10 ft. 1 in. (3.07 m)
Weight of Lift w/ Mounting Hardware ..	1645 lbs. (745 kg)	1665 lbs. (755 kg)	1525 lbs. (692 kg)	1545 lbs. (701 kg)

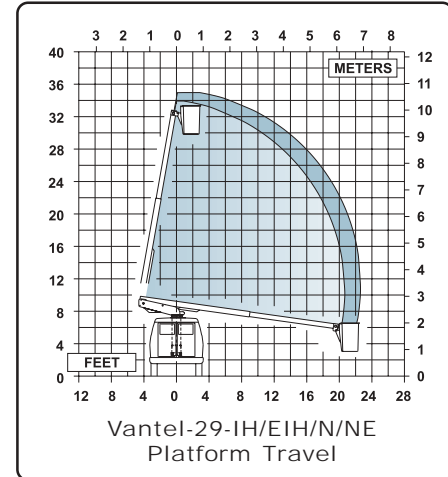
### Hydraulic System

Operating Pressure .....	2250 PSI (158 kg/cm <sup>2</sup> )	2250 PSI (158 kg/cm <sup>2</sup> )	2000 PSI (141 kg/cm <sup>2</sup> )	2000 PSI (141 kg/cm <sup>2</sup> )
Flow Rate .....	3 GPM (12 lpm)	3 GPM (12 lpm)	2 GPM (8 lpm)	2 GPM (8 lpm)
Filtration .....	10 micron return	10 micron return	10 micron return	10 micron return
	100 mesh suction	100 mesh suction	100 mesh suction	100 mesh suction
System Type .....	Open center	Open Center	Open Center	Open Center

**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
- Hydraulic Leveling
- Emergency Power
- Pneumatic Circuits to the Platform
- Taller Pedestal for Ladder Rack Clearance
- Various Platforms, Doors and Covers



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