



We are pleased to quote the VERSALIFT TMD-4050-T Insulated derrick with Turret mounted winch including the following items:

#### **BOOM ASSEMBLY**

Consists of the lower boom, intermediate boom, upper boom, and extension system. The lower boom is constructed of high strength steel forming a 9.75 x 12.75 rectangular section. The intermediate boom is constructed of high strength steel forming an 8 x 10.13 rectangular section. The upper boom is constructed of high strength, filament wound, epoxy resin, fiberglass with a 7 x 9 rectangular section and incorporates a fiberglass tip. The extension system includes two double-acting hydraulic cylinders. Each cylinder incorporates dual counterbalance holding valves.

#### **BOOM LIFT CYLINDERS**

Dual double-acting cylinders equipped with dual counterbalance holding valves and self-aligning spherical bearing. Each cylinder is capable of fully supporting the rated lifting capacity of the derrick.

#### **TURNTABLE**

Constructed from 5/8" plate wings and a 1.5" thick base plate. The base plate is machined flat to support the rotation bearing.

#### **ROTATION DRIVE**

Consists of a hydraulically driven worm and spur gear acting on a shear ball rotation bearing. The gearbox incorporates a load sense feature to measure the side loads applied to the boom.

#### **15,000 LB. MAXIMUM CAPACITY TURNTABLE WINCH**

Consists of a worm gearbox, hydraulic motor, holding valve, and drum. At 40 GPM flow, the winch provides an average line speed of 35 fpm.

#### **HYDRAULIC OVERLOAD PROTECTION**

Purely hydraulic and uses no electronics or electrical components. The system senses the boom lift cylinder pressure and side loads at the rotation gearbox. When an overload condition is detected, the system disables the following: digger dig, winch raise, boom lower, upper boom extend, and intermediate boom extend.

#### **TRANSFERABLE POLE GUIDE**

Can be pinned to either the inner boom tip or the intermediate boom. The pole guide includes hydraulic tilt and hydraulic operation of the pole claws. Holding valves are included to lock both cylinders in position.

#### **POLE GUIDE INTERLOCK**

Prevents inner boom from extending unless either of the following conditions is satisfied:

1. The pole guide tilt is fully raised.
2. Or the pole guide is properly pinned to the upper boom.

#### **CONTINUOUS ROTATION**

Continuous and unrestricted in either direction.

#### **PINS, BEARINGS AND LUBRICATION**

The main pivot and cylinder joints use high strength hard chrome plated steel pins with fiberglass reinforced Teflon non-lube bearings.

### **OPEN CENTER HYDRAULIC SYSTEM**

Uses a tandem gear pump system which supplies a combined 40 GPM for the digger and winch circuits and 15 GPM for the boom functions.

### **50 GALLON BULKHEAD MOUNT RESERVOIR**

Includes cleanout, 10 micron return filter that can be replaced without draining the reservoir, dipstick, 100 mesh (149 micron) suction screen, gate valve, and magnetic drain plug.

### **FIBERGLASS INSULATION**

Certified for 46kV and below in accordance with ANSI A10.31 dielectric rating requirements.

### **52 INCH TALL PEDESTAL**

Fabricated steel structure incorporating a 1.5" thick top plate which is machined flat to support the rotation bearing.

### **DIGGER/WINCH PRESSURE GAUGE**

On the lower control panel senses the pressure generated while using the digger and winch.

### **BOOM PRESSURE GAUGE**

On the lower control panel senses the pressure generated while using the boom control valve.  
Custom load capacity chart.

### **ENGINE START/STOP CONTROL**

Operated by a toggle switch at the lower controls.

### **SUB-FRAME**

Is full length and constructed of 6 x 6 square tubing and 5/16" plate.

### **MAIN OUTRIGGERS**

Designed and constructed from high-strength steel. At maximum extension the outriggers provide 158" of spread and 7.9" of penetration based on a 40" frame height. Outriggers are equipped with pilot operated check valves, internal thermal relief valves, and separate operating controls for each outrigger. Slide pads at each leg ensure smooth operation. The standard pivot feet swivel a minimum of 10° each way.

### **AUXILIARY A-FRAME OUTRIGGERS**

Designed and constructed from high-strength steel. At maximum extension the outriggers provide 151" of spread and 6.1" of penetration based on a 40" frame height. Outriggers are equipped with pilot operated check valves, internal thermal relief valves, and separate operating controls for each outrigger. Slide pads at each leg ensure smooth operation. The standard pivot feet swivel a minimum of 10° each way.

### **OUTRIGGER BOOM INTERLOCK SYSTEM**

Designed to prevent the boom from operating until the outriggers contact the ground. It also prevents the outriggers from being retracted before the boom is properly stowed.

### **OUTRIGGER MOTION ALARM**

Will sound while the outriggers are in motion.

### **RIDING SEAT LOWER CONTROLS WITH T HANDLE**

Consists of a turntable mounted deck, seat, access ladder, and control console. Includes full pressure, full flow hydraulic controls with a single handle joystick for boom raise-lower, rotate, and intermediate boom extend-retract. Additional hydraulic valve levers are included to control winch, dig, upper boom extend, pole guide tilt, and pole claw open-close.

### **WINCH LINE**

1" diameter x 100 ft. Stable Braid

### **HOOK**

8.5 ton rated swivel hook.

### **DIGGER ASSEMBLY**

Consists of the digger hanger (which is automatically transferred from the lower boom to the intermediate boom when the auger is unstowed) and the auger stow bracket includes an over-stow protection valve.

### **DIGGER DRIVE**

Two-speed 12,000/3,000 ft-lb. with 2-5/8 in. hex.

### **AUGER**

18" auger with Rock Ripper Head.

### **AUGER STOW SLING**

7/8" diameter synthetic rope.

### **THROTTLE CONTROL**

Variable speed foot operated pedal used to control the engine speed from the lower control station.

### **TOOL/POLE PULLER TOOL CIRCUIT**

Consists of a hydraulic sectional valve with integrated adjustable flow control and pressure relief. The 3-position control valve allows operation of a tamper or pole puller, while still allowing operation of the digger at the same time.

### **SLOPE INDICATORS**

Shall be installed to indicate the level of rotation bearing relative to the ground.

### **MANUALS**

Two (2) Operator's Manuals, two (2) Service Manuals, one (1) Manual of Responsibilities, and one (1) EMI Safety Manual are included with each aerial lift.

### **LINE BODY**

156 in. x 54 in. x 94 in. line body including the following:

Stainless steel automotive rotary type door latches and hinges.

Chain stops on all compartment doors.

Rubber rolled crown type fenders and automotive bulb type weather stripping.

Master door lock system.

Two (2) under body mounted 20" x 20" x 4" outrigger pad holders

### **STREET SIDE COMPARTMENTS**

1st vertical: Five (5) fixed material hooks.

2nd vertical: Two (2) adjustable shelves with dividers

3rd vertical: Two (2) adjustable shelves with dividers

Horizontal: Adjustable dividers on compartment bottom

Rear vertical: Five (5) fixed material hooks.

Hot stick: 156 in. long with wood lined shelf and rear dropdown access door.

### **CURBSIDE COMPARTMENTS**

1st vertical: Five (5) fixed material hooks.

2nd vertical: Tread plate access steps to bed area with grab handle on each side

3rd vertical: Two (2) adjustable shelves with dividers

Horizontal: One (1) removable divider shelf with dividers

Rear vertical: Five (5) fixed material hooks.

Tail shelf: 30 in. tread plate tail shelf.

### **REAR LIGHTING**

9-lamp light bar installed at rear of tail shelf and rubber mounted recessed rear lighting kit.

### **WHEEL CHOCK STORAGE**

One (1) each side built into wheel wells.

## **PAINT**

Complete unit is primed and painted prior to assembly.  
Painted Winter White.

## **CHASSIS**

2022 International HV507 4X4 cab and chassis, 124 inch CA  
Cummins B6.7 325 HP diesel engine @ 2400 RPM, 725 lb.-ft Torque @ 1800 RPM  
Allison 3500 RDS automatic transmission  
33,000 lb. GVWR: 13,000 lb. front GAWR and 21,000 lb. rear GAWR  
22.5x8.25 powder coated steel disc wheels with 11R22.5 tires.  
Driver seat air suspension, passenger fixed two man bench seat  
Engine block heater 120V/1000W  
Air brake system  
Back up alarm  
Air conditioning and AM/FM radio  
Power windows and power door locks

## **INSTALLATION**

Install VERSALIFT TMD-4050-T, mounting hardware, PTO, and pump  
Install and paint line body to match cab and chassis and no-skid treadplate floor black.  
Install back up alarm, park brake interlock and slope indicators  
Install quick disconnects with dust caps at the ground tool power  
Relocate glad hands to the rear of the body  
Install 3-point grounding system  
Install a ground reel with 50' of 1/0 black cable and a hydraulic hose reel with 50' of conductive hose  
Install two (2) amber strobe lights off of the lower boom rest  
Install a BP100A 15-ton pintle hitch, two (2) safety "D" rings, 6 prong and 7 prong trailer receptacles  
Install ICC rear bumper  
Install start/stop switch at the rear of the body  
Install a single pole rack with ratchet tie down straps  
Install mud flaps, electronic brake controller  
Furnish fire extinguisher and a 3-piece triangle reflector kit  
Furnish four (4) wooden outrigger pads and two (2) rubber wheel chocks  
Test ride completed unit for 1 hour  
Test and Certify per ANSI A92.2