



We are pleased to quote the VERSALIFT TMD-4060-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 14.75 rectangular section. The intermediate boom is constructed of high strength steel forming an 8 x 12.13 rectangular section. The upper boom is constructed of high strength, filament wound, epoxy resin, fiberglass with a 7 x 11 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 planetary gearbox and spur gear acting on a shear ball rotation bearing. The gearbox incorporates a limited slip feature to protect the boom against excessive side loads.

#### **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 50 fpm.

#### **HYDRAULIC OVERLOAD PROTECTION**

Purely hydraulic and uses no electronics or electrical components. The system senses the boom lift cylinder pressure. 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 upper 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**

Full hydraulic units operate on an open center hydraulic system, open center tandem system provides 40 GPM for the digger and winch circuit 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.

### **BACKUP PUMP**

Auxiliary hydraulic pump to bring the booms down in case the main hydraulic source fails. This system consists of a hydraulic pump driven by a DC motor, which is powered by the chassis engine battery. It is designed for non-continuous operation.

### **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**

The full-length sub-frame is constructed of 6 x 6 square tubing and 5/16" plate. The pedestal mounts above the sub-frame allowing for possum belly storage. Shear plates are provided to attach to the vehicle frame. attach to the vehicle frame.

### **MAIN OUTRIGGERS**

Designed and constructed from high-strength steel. At 6" (15 cm) of penetration the outriggers provide 180" (4.57 m) of spread based on 40" (1.08 m) frame height. Outriggers are equipped with pilot operated check valves, internal thermal relief valves, and separate operating controls for each outrigger.

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

Designed and constructed from high-strength steel. At maximum extension the outriggers provide 168" (4.27 m) of spread and 10.2" of penetration based on a 40" (1.02 m) 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 140 ft. Stable Braid

### **HOOK**

5 ton rated swivel hook.

### **DIGGER ASSEMBLY**

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

### **DIGGER DRIVE**

Two-speed 12,000/3,000 ft-lb. Digger Drive w/ 2-1/2 in. hex.

### **AUGER**

24" auger in lieu of 18" diameter auger with Rock Ripper Head.

### **AUGER STOW SLING**

7/8" diameter synthetic rope.

### **KELLY BAR**

72 in. auger extension for 2 ½ hex drive to 2 ½ auger

### **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 ship-loose 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 derrick 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.

### **DAKOTA BODIES INC FLATBED**

168" long x 96" wide flatbed with 12 gauge hot rolled tread plate floor with exterior stake pockets installed.

Curbside access (24 in. W) with grip struct access steps to bed area with cable step

Four (4) outrigger pad holders

94" wide 7-lamp light bar installed at rear of tail shelf

Rubber mounted recessed LED rear lighting kit with harness

### **48" LONG x 60" HIGH x 96" WIDE TRANSVERSE COMPARTMENT BOX**

Stainless steel two point automotive paddle latch with new rotary door latch

Chain stops on all doors

Automotive bulb type weather stripping

Barn type compartment doors

Four (4) 3/8" round stock fixed material hooks (2-0-2) on streetside.

Three (3) transverse drawers on curbside

## **BUMPER**

Braden PD18 Bumper winch w/Capstan Shaft and 9/16" wire rope

## **PAINT**

Complete unit is primed and painted prior to assembly.

Painted Winter White

## **CHASSIS**

2022 International HV507 6X6 cab and chassis, 56,000 GVWR

Cummins L9 350 HP @ 2200 RPM diesel engine, 1,150 lbs-ft Torque @ 1400 RPM

Allison 3000 RDS automatic transmission

Front driving axle (Meritor MX-16-120HR) single reduction, 16,000 lbs. capacity

Tandem rear axle (Meritor MX-40-14X-4DCR) single reduction, 40,000 lbs. capacity

22.5 x 12.25 powder coated steel disc wheels with 425/65R22.5 Continental tires

22.5 x 8.25 painted steel disc wheels with 11R22.5 Continental tires (Rear).

134 inch C.A.

Engine block heater with socket located below driver's door

Air brake system

Back up alarm

Air conditioning

AM/FM radio with Bluetooth/USB input/Auxiliary input

Power windows and door locks

## **INSTALLATION**

Install VERSALIFT TMD-4060-T, mounting hardware, PTO and pump.

Install Dakota Bodies Inc. flatbed and transverse box.

Install ICC bumper and single pole rack with ratchet tie down straps.

Paint flatbed black and non-skid, paint transverse box to match cab and chassis

Install boom rest on front outriggers with strobe beacons.

Install PTO hour meter and electronic brake controller.

Install pole puller bracket on front outrigger with pole puller.

Install start/stop switch at rear of body, access ladder, park brake interlock system and mud flaps

Install BP-100A 15-ton pintle hitch, reinforcements, D rings, six and seven prong trailer plugs.

Install 3-point grounding system including grounding stud.

Install spring loaded grounding reel with 50' of 1/0 black cable.

Install hydraulic hose reel with 50 ft. of hose and quick disconnects.

Relocate glad hands to rear of chassis

Furnish wheel chocks, (4) wooden outrigger pads, fire extinguisher and 3-piece triangle reflector kit

Test ride completed unit for 1 hour.

Test and certify per ANSI A10.31 and ANSI A92.2