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We are pleased to quote the VERSALIFT TMD-2047-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** are 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** is 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** is 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** is 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** is certified for 46kV and below in accordance with ANSI A10.31 dielectric rating requirements.
- **52 in. tall pedestal** is a fabricated steel structure incorporating a 1.5" thick top plate which is machined flat to support the rotation bearing.
- **Sub-frame** is full length and constructed of 6 x 6 square tubing and 5/16" plate.
- **Main outriggers** are 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** are 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** is 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.
- **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.
- **Winch line** is 1" diameter x 100 ft. Stable Braid
- **7 ton rated swivel hook**
- **Digger drive** is two speed 12,000/3,000 ft-lb. with 2-1/2 in. hex
- 72 in. Kelly Bar (auger extension) for 2-1/2 hex drive to 2-1/2 auger
- **Auger** - 18 in. auger with Rock Ripper Head
- **Auger stow sling with 7/8" diameter synthetic rope.**

- **Digger/winch pressure gage** on the lower control panel senses the pressure generated while using the digger and winch.
- **Boom load indicator gauge** on the lower control panel senses the pressure generated in lower boom cylinders as a percentage of maximum.
- **Custom load capacity chart.**
- **Engine start/stop control** operated by a toggle switch at the lower controls.
- **Throttle control** is 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
- Complete unit is primed and painted prior to assembly. The standard color is white urethane.
- **Slope indicators** shall be installed to indicate the level of rotation bearing relative to the ground.
- 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.

Install sub frame/front and rear outriggers/derrick.

Install PTO/pump.

Install throttle.

Install start/stop and at outrigger controls.

Install boom support heavy duty with secondary saddle for use when poles are in pole rack. Pole racks mounted on the street side off boom support and rear racks removable with binders at each rack and able to carry 2 poles.

Install access ladder to riding seat.

Inclinometers.

Paint derrick white.

Line Body to the following specifications:

- 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 with incandescent lights.
- **Wheel chock storage:** - One (1) each side built into wheel wells.

Install body.

ICC bumper.

Cable step on the curb side and street side rear of body.

Grab handles each side at rear of body.

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

3 pt. ground with grounding reel and 50' of 1/0 cable/clamp.

T125 Pintle hitch with chassis reinforcement, safety chain rings, and bracing.

6 prong trailer plug.

7 prong trailer plug.

Relocate glad hands.

Brake controller.

4 outrigger pad storage.

4 Wooden outrigger pads. 24" x 24".

2 rubber wheel chocks.

Mud flaps.

Lights and reflectors to meet FMVSS#108.

(1) Strobe light with guards off boom support.

4 corner strobe system.

Fire extinguisher/bracket.

Reflector kit.

Nonskid paint all walking surfaces.

Paint body white.

Operational/stability test.

Final check out.

In service training.

NOTES:

- No taxes are included in above quoted prices and any applicable will be added at time of invoice.
- Any alterations required on the chassis to install above quoted equipment, not specified in above quotation will be performed on a time and material basis.
- **Chassis requirements available upon request.**

**Versalift Southeast
Alex Euliss
Estimator**