



One articulating overcenter aerial device with an insulating lower arm and insulating upper boom, with an upper control system incorporating high resistance components at the boom tip, for installation over rear axle, to include the following features:

Ground to bottom of platform height: 56' at 4' from centerline of rotation.

Working height: 61'.

Maximum reach to edge of platform with upper boom overcenter: 48.8'.

Maximum reach to edge of platform with upper boom non-overcenter and lower boom at 124 degrees: 43.4' at 25.7' platform height.

Pedestal and turntable: Box structure design with large service openings, 1.55" top plate of pedestal and stiffened. 1.55" bottom plate of turntable machined after welding to provide a rigid, flat mounting surface for the rotation bearing.

Rotation: Continuous rotation provided by worm gear drive, equipped with extended shaft for manual rotation, driving a shear ball bearing rotation gear. The fully adjustable rotation drive assembly shall include an external eccentric ring adjustment of the gearbox pinion gear to the main rotation bearing, permitting the ability to easily adjust backlash, reduce boom side play and ensure proper tooth contact over the life of the unit.

Lift cylinders: The rod eye to be both thread and weld fastened to the rod while the blind end of the cylinder is of cast steel, one piece design, which houses internal (unexposed), cartridge-type, bi-directional counter-balance holding valves. Self-aligning, spherical ball-type bushings are to be used at each end of the cylinder.

Lower boom: Constructed of two fixture-welded, (80,000 PSI) high strength low alloy steel side plates. Insulator provided 24" of isolation in the lower boom.

Lower boom pivot pin: High strength chrome plated steel with self-lubricating, replaceable, non-metallic bearing.

Upper boom: To utilize a fixture welded, high strength low alloy steel structure. Steel/glass attachment to be bolted and bonded. The fiberglass section will provide a minimum of 150" of isolation in the upper boom. Upper boom articulation is 0 degrees to 210 degrees.

A side-by-side boom stow to allow for low travel height, low center of gravity, and to provide easy platform access.

Upper boom hold down device to be a manual locking system.

Platform leveling system to be a single leveling chain with fiberglass rods in upper and lower boom, designed to maintain the dielectric integrity of the aerial device. Controls for tilting the platform are to be located at the platform. The mechanism for tilting the platform will include one dual acting cylinder incorporating counterbalance load holding valves to lock the platform in the event of hydraulic line failure.

Platform to be fiberglass and totally enclosed .

Polyethylene platform liner to two man platform, 50 Kv rating.

Outrigger/boom interlock system to help prevent operator from using unit until all outriggers are lowered.



Outrigger/unit selector control: To be located near the outrigger controls, to allow the operator to divert hydraulic oil from machine circuit for outrigger operation.

Outrigger motion alarm: To provide audible alarm when any of the outriggers are in motion.

Back-up alarm to be installed.

Aerial device designed manufactured in a facility that is certified to meet ISO 9001 requirements.

Two operators and two maintenance/parts manuals to be provided with unit.

Paint to be powder coat process and provide a finish-painted surface that is highly resistant to chipping, scratching, abrasion and corrosion.

Unit to come with automatic upper boom latch.

Single platform to be two-man, side-mounted 24 x 48 x 42 “, and rated up to 800 pounds. Platform to rotate 90 degrees to end of boom.

To be equipped with two sets of quick disconnects and controls for hydraulic tools.

Pilot pressure system to operate at 350 to 3,000 PSI, and 17 GPM. System to be closed center, pressure compensating.

Twist style single handle controller, with unit rotation driven by a twist action of the control handle.

Jib to be hydraulic extend, material handling, hydraulically articulated, -30 degrees to +90 degrees tilt angle (relative to upper boom). Jib shall be hydraulically extended to 54.4” from mounting shaft to load line. The jib to be hydraulically extended and retracted in two 18” increments for a total of 36” under full load. Capacities up to 2,000 pounds. Hydraulically articulated jib with -30 degrees to 90 degrees tilt angle relative to the upper boom. Hydraulically powered winch that is rated to 2,000 pounds full drum, mounted on end of upper boom and includes 80’ of ½” double-braided synthetic rope. Auxiliary winch line control valve at turntable.

12 VDC electrical system voltage.

Remote engine start/stop with secondary stowage system.

Power distribution module and start/stop box.

Primary outrigger to be X-frame with fold-up shoe, and provides 174” spread. To be installed at rear behind rear axle. Auxiliary outriggers are to be installed between back of cab and front of body. All outrigger controls to be located at rear corners of vehicle to provide visibility of outriggers by operator. Auxiliary outrigger to be A-frame with flat-shoe, and provides 149” maximum spread.

Swivel hook for winch load line to have 1-ton capacity.

Hydraulic PTO

Hydraulic oil reservoir to be installed in front corner of cargo area.

Basic body to be manufactured from A40 grad 100% zinc alloy-coated steel. Doors to be full, double paneled, self-sealed with built-in drainage for maximum weather-tightness. Electro-zinc plated, steel hinge rods extend full length of door, with door hinges to be zinc alloy material attached with rivets. All doors to contain zinc plated flush type, keyed licks with recessed handles, with door handles riveted to the outer door panel. Back panel to have opening for easy access.



Heavy-gauge welded steel base construction with safety tread floor. All edges are to be either rolled or folded for strength and safety. Door header drip rail at top for maximum weather protection. Neoprene or rolled fenders on wheel fender panels. Steel treated for improved primer bond and rust resistance. Automotive underseal applied to body. Prime painted with two-part epoxy, with automotive type non-porous door seals mechanically fastened to the door facing. Prime paint body at body manufacturer. 12 GA floor thickness.

24" cargo floor to top of compartment height.

Rotary paddle latch with lock. Master body locking system.

One chock holder each side in fender panel (2 total).

Rigid door holders for vertical doors. Chains on horizontal doors.

Hotstick shelf, first vertical to rear (street side only)

Two hotstick brackets.

Large side hinged hotstick door for multiple shelves (left side only)

Wooden tailboard at rear of body.

Wooden board at top of cargo access steps.

1st vertical street side (LH) – Adjustable shelf with removable dividers on 4" centers.

2nd vertical street side (LH) – Six (6) adjustable locking swivel hooks.

3rd vertical street side (LH) - Six (6) adjustable locking swivel hooks.

1st horizontal street side (LH) – Fixed shelf extending through rear vertical

Rear vertical street side (LH) – Outrigger housing

1st vertical curb side (RH) – Adjustable shelf with removable dividers on 4" centers.

2nd vertical curb side (RH) – Six (6) adjustable locking swivel hooks.

3rd vertical curb side (RH) – Gripstrut access steps with two sloped grab handles

1st horizontal curb side (RH) – Fixed shelf with removable dividers on 8" centers

Rear vertical curb side (RH) – Five fixed locking swivel hooks

Rear vertical curb side (RH) – Outrigger housing

24" long tailshelf with 3" crossmembers and 3" high flatbar rail.

No cabguard required.

Compartment top access step.

Platform access step from top of body compartment.

Rigid access step under cargo access steps. Grab handles provided with body.

Dock bumper kit to include one pair of rubber dock bumpers installed one each side of frame at rear.

Extend chassis frame to rear to allow dock bumpers to protect pintle hook and glad hand connectors.

Pintle hook, 30,000 lbs, with safety chain eyes.

Glad hands at rear, straight type

Platform rest.

Boomstow with strobe light brackets.

Wooden outrigger pad, 24 x 24 x 3" thick.

Outrigger padholder for 24 x 24 x 3 pads, divider between pads, swinging pendulum retainers.

Rubber wheel chocks (pair)



Line body mud flap kit.

Safety harness and 6' lanyard, installed in pouch under passenger seat.

5 lb fire extinguisher and bracket, installed in street side vertical.

Triangular reflector kit, shipped loose.

There shall be no access at rear, all access to be from curbside entry. Access decals installed.

Electrical accessories to include the following:

Three-point grounding system tying unit body and chassis to a common ground.

Incandescent lights and reflectors in accordance with FMVSS #108 lighting package installed.

Amber strobe light with brush guard, installed with master switch and indicator light in chassis cab.

Dual tone back-up with outrigger motion alarm.

6-way trailer receptacle (with 18 harness).

Relocate chassis supplied trailer plug to rear.

7 way electric brake controller plug installed in chassis cab..

PDM to be installed in center of bench seat.

AM series miscellaneous component installation

Black martex on all walking surfaces, including compartment tops.

Install safety-warning decals for general purpose users.

Dielectric test unit according to ANSI requirements.

Stability test unit according to ANSI requirements.

Shield hydraulic hoses from exhaust heat.

Vehicle height placard is to be placed in view of driver.

Platform cover to be soft vinyl.

Chassis:

2011 or 2012 International 4300 SBA 4x2

GVWR: 33,000

Calc. Start / Grade ability: 37.70% / 2.21% @ 55 MPH

Wheelbase: 189", CA 121.9", Axle to frame 114".

Engine: MaxxForce DT EPA 10, 245 HP @2200 RPM, 660 lb-ft torque @ 1300 RPM, 2400 RPM governed speed.

Transmission: Allison 3500, 4th generation controls, wide ratio, 5-speed with overdrive, on/off highway, includes oil level sensor, with PTO provision, less retarder, with 80,000-lb GVW & GCW max.

Front axle: 13,000 lb capacity

Rear axle: 20,000 lb capacity

Front tire: Load range H, 16-ply

Rear tire: Load range G, 14-ply

Tow hook, front (2) inside rail, frame mounted.

Frame rails heat treated alloy steel, (120,000 PSI yield)

Front bumper, full width, steel, 0.142" material thickness

Air brake ABS full vehicle wheel control system

Air dryer with heater



Air compressor 13.2 CFM capacity.

Tilting steering column. Power steering.

Single exhaust system, horizontal, aftertreatment device, frame mounted right side back of cab, includes horizontal tail pipe.

Electrical system to be 12 volt, standard equipment.