



VN-55-1

Insulated Non-Overcenter Aerial



Improved Features Include:
700 lbs. Platform Capacity
Faster Boom Speed
Platform Rotator Now Available

FEATURES INCLUDED IN THE VN-55-1

Continuous Rotation

Rotation is continuous and unrestricted in either direction. This is accomplished by a hydraulic motor driven worm and spur gear acting on a shear-ball rotation bearing. The critical bolts holding the lift to the rotation bearing and the rotation bearing to the pedestal are Gr. 8 hex-head cap-screws. These critical bolts are marked with a torque-seal indicator to provide a quick means of detecting any relative movement. An eccentric ring gearbox-mounting allows for precise adjustments of the gearbox pinion clearance.

Platform

The standard fiberglass platform for the VN-55 is 24" x 48" x 42" (0.61 m x 1.22 m x 1.07 m) deep with two inside and two outside steps for easy access. The standard VN platform is end mounted and classified as two man. Liners and vinyl covers are available for each platform.

Hydraulic Tools

This system is designed to use either open center or closed center hydraulic tools. The tool circuit provides 8 gpm (30 lpm) at 2250 psi (158 kg/cm²). One set of hydraulic tool ports (one pressure port and one return port) is standard at the platform.

Outriggers

A-frame outriggers are connected to the pedestal and are equipped complete with pilot-operated check valves, internal thermal-relief valves and separate operating controls for each outrigger. At maximum extension, the outriggers provide 150" (3.8 m) of spread and a maximum of 7" (178 mm) of penetration.

Insulated Upper-Boom

The rectangular upper boom tapers from 8" x 12" (203 mm x 305 mm) at the knuckle end to 8" x 10" (203 mm x 254 mm) at the platform end and is constructed of high-strength filament-wound epoxy resin fiberglass. The fiberglass has a gel coat and a high gloss durable urethane finish for added weather protection and water beading. The fiberglass boom is certified for 46 KV and below in accordance with Category C, ANSI A92.2-1990.

The upper boom articulates 70° above horizontal or a total of 175° relative to the lower boom. A compensating system maintains the upper boom at a constant angle when raising or lowering the lower boom and mechanically prevents the upper boom from traveling over-center. The system does not use any cables and the booms can be stowed in any sequence. An upper-boom storage cradle, mounted on the lower boom assures solid boom support when the boom is stowed.

Lower Boom

The lower boom is designed and constructed from rectangular tube 10 in. x 13 in. (254 mm x 330 mm) high strength steel for maximum strength and rigidity. The lower boom cylinder anchor located on the lower boom are considered critical and are reinforced for extra strength. Boom articulation is from horizontal to 15° past vertical. Articulation is achieved by using two double acting cylinders. Each cylinder is capable of supporting the entire rated load by itself and is equipped with two integral holding valves. In the event of a hydraulic failure the integral holding valves prevent the booms from dropping by locking the booms in position. In addition the cylinder rod eyes are threaded and welded.



VN-55-I

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GENERAL SPECIFICATIONS

(Based on 40 in. (1.02 m) Frame Height)

Horizontal Reach	36 ft. 6 in. (11.1 m)
2-Man Platform Capacity	700 lbs. (318 kg)
Lower Boom Lift Eye Capacity	1100 lbs. (499 kg)
Upper Boom Articulation	175° relative to lower boom
Lower Boom Articulation	105°
Rotation	360° continuous

VN-55

WITH STANDARD PEDESTAL

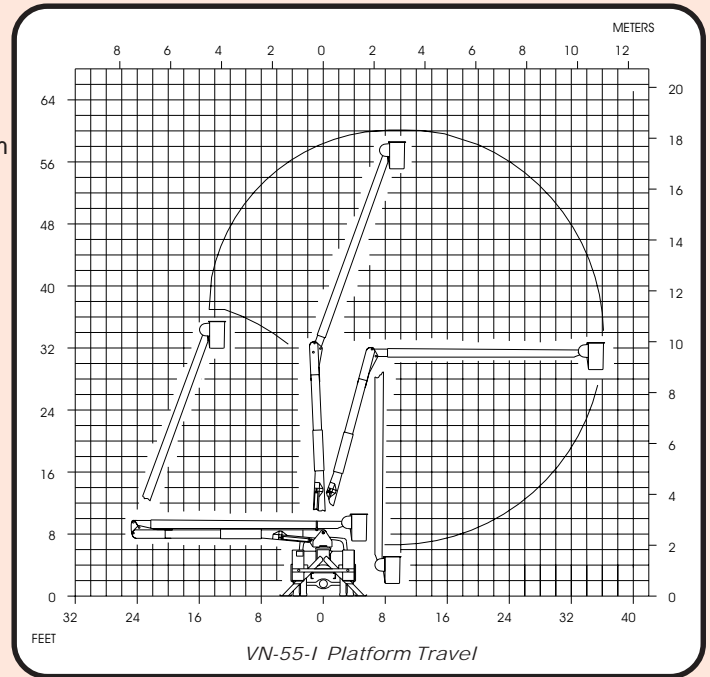
Height to Bottom of Platform	55 ft. 5 in. (16.9 m)
Working Height	60 ft. 5 in. (18.4 m)
Stowed Travel Height	10 ft. 11 in. (3.3 m)
Weight of Lift With Outriggers	6370 lbs. (2889 kg)

HYDRAULIC SYSTEM

Operating Pressure	2250 psi (158 kg/cm ²)
Flow Rate	8 gpm (30 lpm)
Filtration Return	10 Micron Return
Filtration Suction	100 Mesh Suction
System Type	Closed or Open Center
Power Source	PTO Pump

INSULATION

Upper Boom Gap	239 in. (6.1 m)
<i>(With or Without Test Bands)</i>	
Lower Boom Insert	24 in. (0.6 m)



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

- Hydraulic Tilt Platform
- One-Man End-Mount Platform
- Platform Liner
- Platform Cover
- Lower Boom Lifting Eye Attachment
- Two-Speed Manual Throttle-Control
- Emergency Power
- Category B Dielectric Testing & Certification
- Outrigger Boom Interlock System
- Auxiliary Outriggers
- Dual Hydraulic Tool Outlets
- Flow-Sensing Throttle
- Line-Lifting Socket



Easy bucket access.

Articulating boom allows for extreme range of motion.

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