



JDC

VERSALIFT®

VN - 555 Product Training

Denny Nelson and Brian Coleman

- **WORKING HEIGHT:** Up to 60 ft 6 in (18.4 m)
- **HORIZONTAL REACH:** Up to 42 ft 10 in (13.0 m)
- **PLATFORM CAPACITY:** Up to 700 lbs (318 kg)
- **JIB CAPACITY:** Up to 2000 lbs (905 kg)

TruGuard®
STANDARD
SIMPLE MECHANICAL LINKAGE
FOR BOOM COMPENSATION



VN-555-MHI model shown here



GENERAL SPECIFICATIONS:
(Based on 40 in Frame)

Horizontal Reach	39.1' (11.9 m)
Platform Capacity Single 1-Man	400 lbs (180 kg)
Platform Capacity Single 2-Man	700 lbs (318 kg)
Rotation	360° Continuous
Platform Rotation	90°
Height to Bottom of Platform	50.6' (15.4 m)
Working Height	55.6' (16.9 m)

Stowed Travel Height	12.3' (3.74 m)
Maximum Jib Capacity	2000 lbs (900 kg)
Upper Boom Articulation	192° Relative to Lower Boom
Lower Boom Articulation	120°

INSULATION GAP:

Upper Boom	9.0' (2.7 m)
Lower Boom	18" (46 cm)

HYDRAULIC SYSTEM:

Operating Pressure	3000 psi (207 bar)
Flow Rate at Engine Idle	8 gpm (30 lpm)
Flow Rate with Auto Throttle Control Engaged	12 gpm (45 lpm)
Filtration	10 micron pressure 10 micron return 100 mesh suction Open Center

System Type

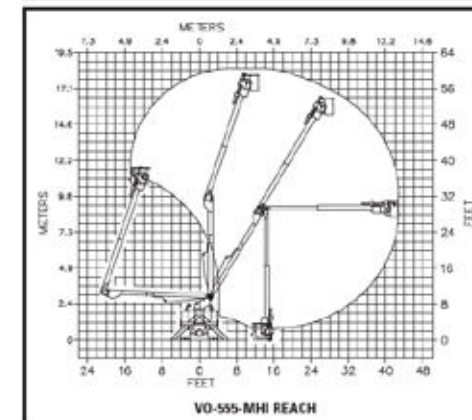
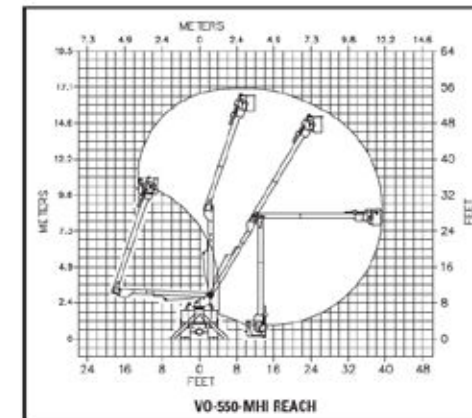
OPTIONS:

- Automatic Boom Latch
- Various Auxiliary Outriggers
- Backup 12-Volt Pump
- Platform Tilt at Lower Controls
- Hydraulic Jib Pole Extension
- Lift Eye (2500 lb max)
- Platform Elevator
- Various Pedestal Heights
- Various Platforms, Covers and Liners

VN-550-MHI

VN-555-MHI

Horizontal Reach	42.8' (13.0 m)
Platform Capacity Single 1-Man	400 lbs (180 kg)
Platform Capacity Single 2-Man	700 lbs (318 kg)
Rotation	360° Continuous
Platform Rotation	90°
Height to Bottom of Platform	55.5' (16.9 m)
Working Height	60.5' (18.4 m)





New 55' Compensating Non-Overcenter Workhorse

- ☒ Dependable Boom compensation
 - Simple mechanical linkage – no complex valves or over-center limit system
 - Booms can be stowed in any sequence
 - Standard
- ☒ Optimized hydraulic system
 - Full flow, full pressure, open center
 - 3000 PSI system pressure
 - Optimized to reduce pressure drop and heat build-up
 - Mechanically compensated boom design allows for fast boom speeds without the need for 20+ GPM pump- 8 GPM at idle/ 12 GPM high idle (auto-throttle)
 - Auto-throttle standard
- ☒ Heat Reduction
 - Return flow bypasses the lower control valve
 - Larger rotary joint
 - Larger selector valve (already implemented on other models)
 - Larger hose and fitting sizes in ped
 - Careful layout of pedestal plumbing
 - Pedestal plumbing mostly completed by factory rather than installer – more consistent
- ☒ Excellent side reach
 - 120° lower boom travel
 - 39.1' side reach on VN-550-MHI
 - 42.8' side reach on VN-555-MHI
- ☒ Easy ground access
 - VN-550-MHI bottom of platform reaches within 7" of ground
 - VN-555-MHI bottom of platform reaches within 3" of ground
- ☒ Increased vehicle payload
 - Approximately 1000 lbs. lighter than typical VO-455 installation
- ☒ Capacities
 - 700 lbs. platform
 - 2000 lbs. jib
- ☒ New optional auto-throttle disable
 - Valve at platform disables auto-throttle so engine runs at low idle

	VERSALIFT VN555MHI	TEREX TC55 OPTIMA	ALTEC AA55E	
PLATFORM HEIGHT	55.5	55	55.1	(FEET)
SIDE REACH	42.8	42.8	43.1	(FEET)
TRAVEL HEIGHT	12.3	11.9	11.5	(FEET)
PLATFORM CAPACITY	700	700	700	(LBS)
MAX JIB CAPACITY	2000	2000	2000	(LBS)
BOOM COMPENSATION	STANDARD	OPTIONAL	STANDARD	
LOWER BOOM ARTICULATION	120	116	120	(DEG)
UPPER BOOM ARTICULATION	72	70	68	(DEG)
UPPER BOOM INSULATION GAP	9		13.5	(FEET)
LOWER BOOM INSULATION GAP	18		24	(IN)
HYDRAULIC SYSTEM TYPE	OPEN	OPEN W/O COMPENSATION, PILOT WITH COMPENSATION	PILOT	
PRESSURE	3000		3000	(PSI)
FLOW LOW IDLE	8			(GPM)
FLOW HIGH IDLE	12	19	28	(GPM)

SPEED

MOST LINEMEN WILL ALWAYS WANT THE LIFT TO BE FASTER



FAST BOOM SPEEDS

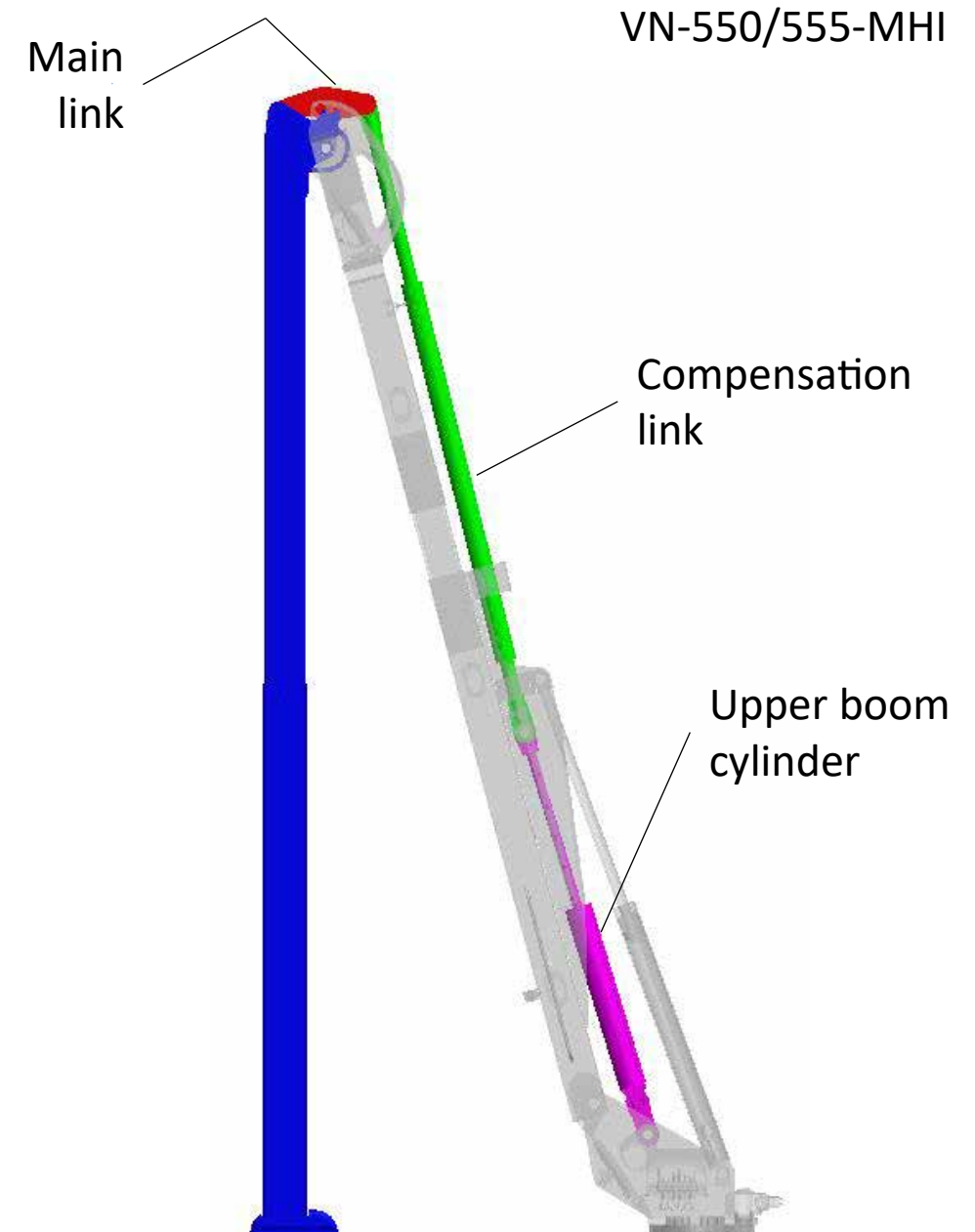
- Linkage design allows for the use of smaller cylinders
- Smaller cylinders = faster speeds at same flow
- Speeds competitive with Altec AA55E

APPROXIMATE CYCLE TIMES

OPERATION	VERSALIFT VN555MHI	ALTEC AA55E	
LOWER BOOM RAISE	45	45	(SECONDS)
UPPER BOOM UNFOLD 70 DEG	15	15	(SECONDS)
ROTATE 360 DEG	60	60	(SECONDS)

DEPENDABLE BOOM COMPENSATION

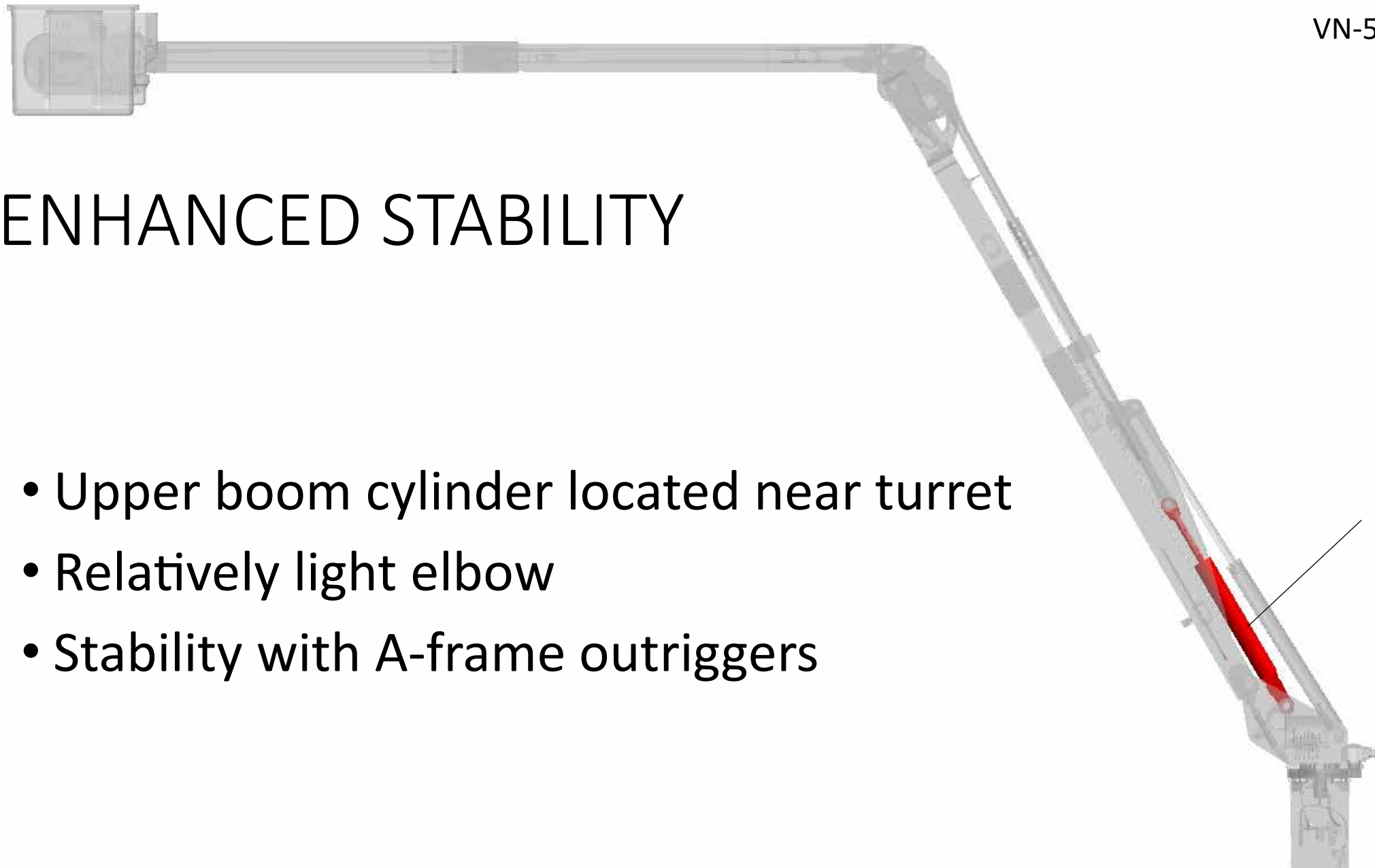
- Simple mechanical linkage – no valves or over-center limit system
- Booms can be stowed in any sequence



VN-550/555-MHI

ENHANCED STABILITY

- Upper boom cylinder located near turret
- Relatively light elbow
- Stability with A-frame outriggers



Top Controls- Robust Metal Construction w/TruGuard Isolation System

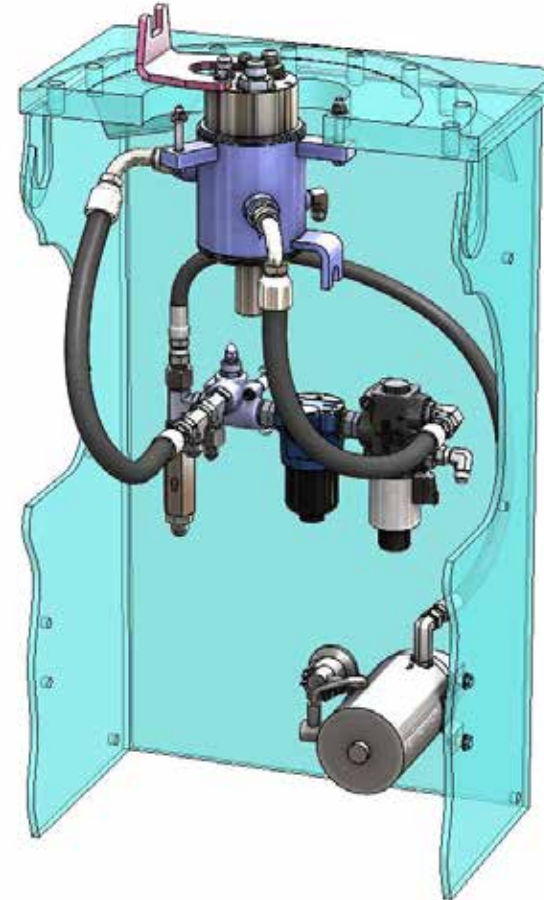
VN-550/555-MHI

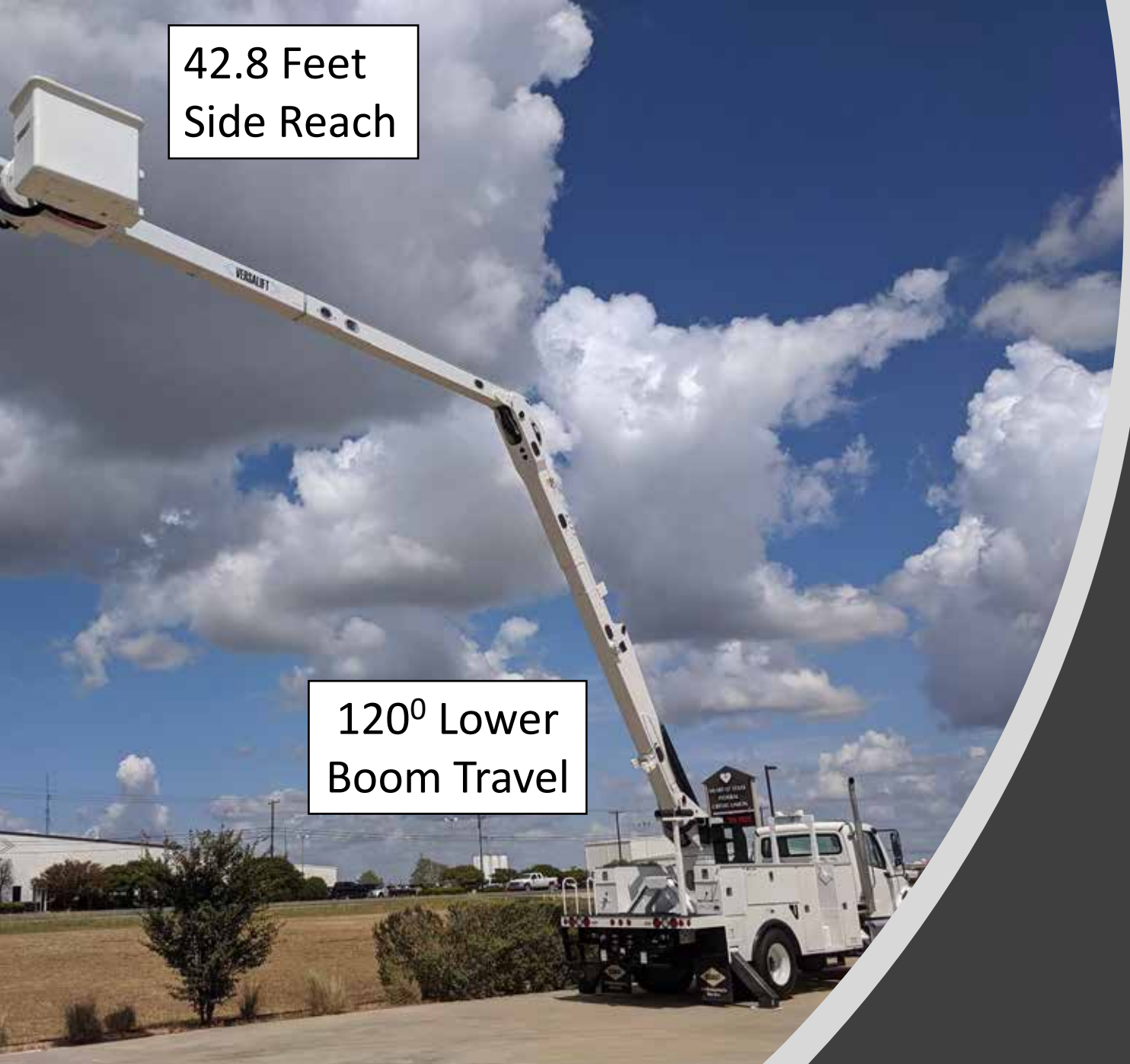


VN-550/555-MHI

OPTIMIZED HYDRAULIC SYSTEM

- Full flow, full pressure, open center
- Optimized to reduce pressure drop and heat build-up
- Auto-throttle standard





42.8 Feet
Side Reach

120° Lower
Boom Travel

EXCELLENT
SIDE REACH



EASY GROUND
ACCESS-
3" from ground

VN-550/555-MHI

INCREASED VEHICLE PAYLOAD

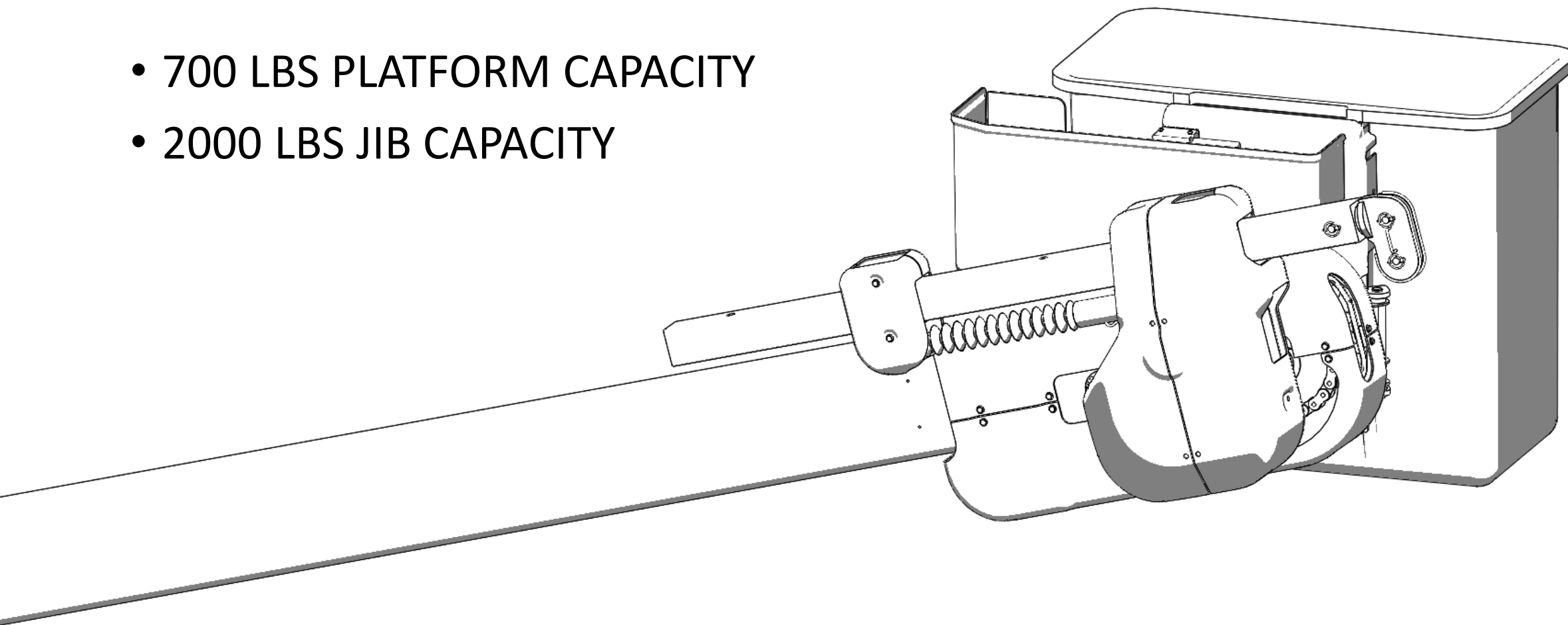
- Approximately 1200 lbs lighter than typical VO-455 installation



VN-550/555-MHI

CAPACITIES

- 700 LBS PLATFORM CAPACITY
- 2000 LBS JIB CAPACITY



Jib Capacity Charts- 700 lbs. Platform



VN-555-MHI
SINGLE 2-MAN PLATFORM
STANDARD DUTY 2000 LBS JIB
700 LBS PLATFORM CAPACITY

Jib Capacity in Pounds at Load Line Radius

Upper Boom Angle	Lower Boom Up To 110°					Greater than 110°	
	1'	2'	4'	6'	8'	4'	8'
-60	1860	1500	750	500	375	670	375
-30	770	740	690	500	375	340	305
0	550	530	490	460	375	170	155
30	830	800	750	500	375	230	210
45	1250	1200	750	500	375	490	375
60	2000	1500	750	500	375	750	375
70	2000	1500	750	500	375	750	375

Notes:

- 85% of unused platform capacity may be placed on the jib, up to the jib structural capacity.
- Jib structural capacity at load line radius.
 - 2000 LBS at 1'
 - 1500 LBS at 2'
 - 750 LBS at 4'
 - 500 LBS at 6'
 - 375 LBS at 8'

CA-1351-4

Jib Capacity Charts- 400 lbs. Platform



VN-555-MHI
SINGLE 1-MAN PLATFORM
STANDARD DUTY 2000 LBS JIB
400 LBS PLATFORM CAPACITY

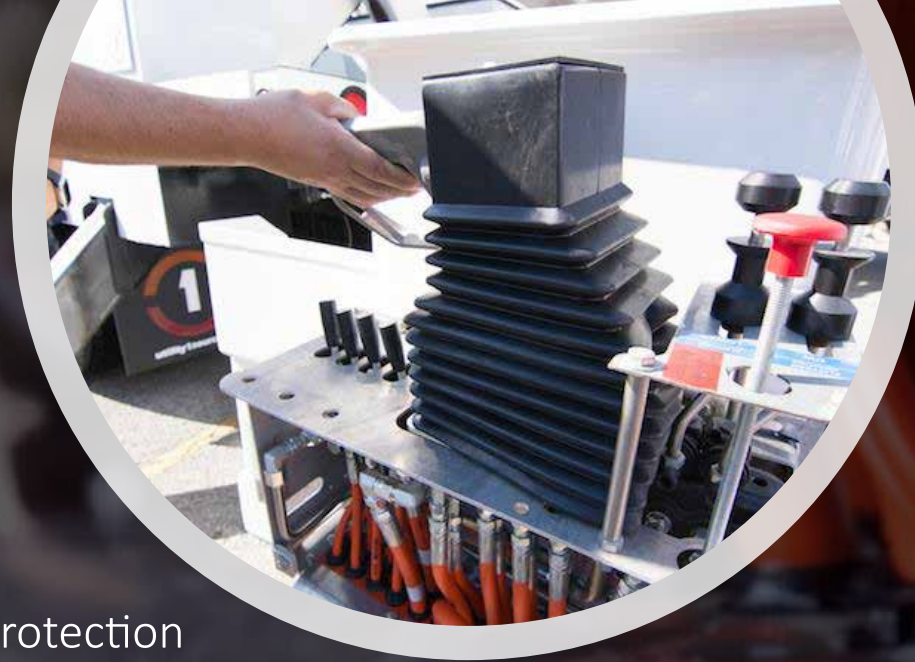
Jib Capacity in Pounds at Load Line Radius

Upper Boom Angle	Lower Boom Up To 110°					Greater than 110°	
	1'	2'	4'	6'	8'	4'	8'
-60	2000	1500	750	500	375	750	375
-30	1120	1080	750	500	375	740	375
0	900	870	750	500	375	500	375
30	1180	1140	750	500	375	560	375
45	1610	1500	750	500	375	750	375
60	2000	1500	750	500	375	750	375
70	2000	1500	750	500	375	750	375

Notes:

- 85% of unused platform capacity may be placed on the jib, up to the jib structural capacity.
- Jib structural capacity at load line radius.
 - 2000 LBS at 1'
 - 1500 LBS at 2'
 - 750 LBS at 4'
 - 500 LBS at 6'
 - 375 LBS at 8'

CA-1351-3



- A Quantum Leap in Lineman Protection
- Bring your Linemen Home Safely
- Standard on Every Insulated Lift
- Insulated Tool Power in Bucket
- Complete Dielectric Isolation
- Patented Technology
- No Maintenance
- No Cost



TruGuard[®]

See Video at: <https://versalift.com/safety>



JDC

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Thank you for this opportunity!