

NBT45-1

Capacity: 40,8 t (45 USt) Rating

Boom: 49,1 m (161 ft) five-section boom

Max tip height main boom: 51,5 m (169 ft)

Max tip height main boom with jib: 62,8 m (206 ft)

Several boom length options providing work height capabilities up to 62,8 m (206 ft) with 49,1 m (161 ft) boom option

ANSI/SAIA A92.2 & CSA C225 Aerial Lift Configuration:

- Two-person, quick-attach, yoke basket
- Stowage provisions for travel
- Wireless radio remote controls for aerial operation
- Operator presence device and speed selection
- Standard emergency lowering system
- 544 kg (1200 lb) capacity (on main boom)



Several jib and boom length options available

Aerial Lift Package features many utility-focused options such as a platform hydraulic tool circuit and integral wind speed sensor

Optimized lift cylinder offering improved strength, lighter weight, a high-performance seal design and integrated pressure transducers for less leak points

Optional K100™ Synthetic rope for easy reeving

Standard air conditioned cab

Strengthened aluminum decking with integrated outrigger control panels, improved stiffness and less truck axle obstructions

Swing-out, aluminum cab access ladder similar to NBT50 and NBT60 Series

Three-position, out and down style outriggers with lighter polymeric floats

YOU WANT IT ALL. GET IT NOW.

Benefits

Dual-rating versatility

- Fully compliant with both crane and aerial lift industry standards as well as OSHA
- ROI and utilization benefits as a 40,8 t (45 USt) crane and 544 kg (1200 lb) platform capacity aerial lift
- More efficient setup and operation – no test weights, no trial lifts or proof loads
- Ultimate tool for your fleet

Simpler, Smoother, Smarter operation

- Graphical RCL for ease of setup in both crane and aerial modes
- Proportional joystick control in operator cab and fully adjustable single-axis joystick in the aerial lift platform
- Aerial controls feature quick setup features, real-time feedback of operating range and wind speed plus automatic function slowdowns when approaching the extents of the working range
- Standard emergency lowering system with aerial lift package

Class leading 49,1 m (161 ft) boom length

- No need to swing the jib to reach 51,5 m (169 ft) platform working height
- Available jib to work at over 62,8 m (206 ft)

Enhanced Access/Egress and Setup

- Strengthened decking, improved ladders for easier access
- Lighter polymeric outrigger floats are easier to use and less prone to theft when on the job

Field-hardened, NBT40 Series DNA

- Installed base of over 1000 machines and counting
- Proven standard for the boom truck market

Cab controls

- Armrest controls with single-axis hydraulic joystick controllers for main crane functions
- Functions arranged to comply to ASME B30.5
- Hand-held outrigger control pendant with umbilical cable to allow the operator the best view of the outriggers during setup
- Electric outrigger and stabilizer control
- Foot controls for
 - > Engine throttle (electronic)
 - > Dynamic swing brake (hydraulic)
- Standard features include
 - > Heater and air-conditioning
 - > Windshield wiper and washer
 - > Skylight wiper
 - > Cab-mounted work lights



Outriggers

- Horizontal out and down with a 7,50 m (24.6 ft) full-span, 5,34 m (17.5 ft) mid-span and fully retracted span
- Equipped with 508 mm (20 in) diameter lighter weight polymeric outrigger pads
- Equipped with an outrigger in-motion alarm and Outrigger Monitoring System

Winch

- Two-speed high performance planetary winch with drum rotation and last layer indicators
- 137,2 m (450 ft) 16 mm (5/8 in) rotation resistant wire rope which has a 5102,9 kg (11,250 lb) single line pull

Boom and jib options

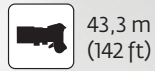
- Additional main boom lengths available: 31,4 m (103 ft), 38,7m (127 ft) and 43,3 (142 ft)
- 9,4 m – 16,7 m (31 ft – 55 ft) jib for 31,4 m (103 ft), 38,7 m (127 ft) and 43,3 (142 ft) boom options
- 11,6 m (38 ft) fixed length jib available for 49,1 m (161 ft) main boom only



Options and Lift Solutions

- Aerial Lift Package
- Platform hydraulic tool circuit with pressure intensifier manifold
- 5-function radio remotes
- Auxiliary hoist
- Wind speed sensor (operator cab and aerial lift platform)
- K100™ synthetic rope

Reach Diagram - Aerial lift



43,3 m
(142 ft)



9,45 m-16,76 m
(31 ft-55 ft)

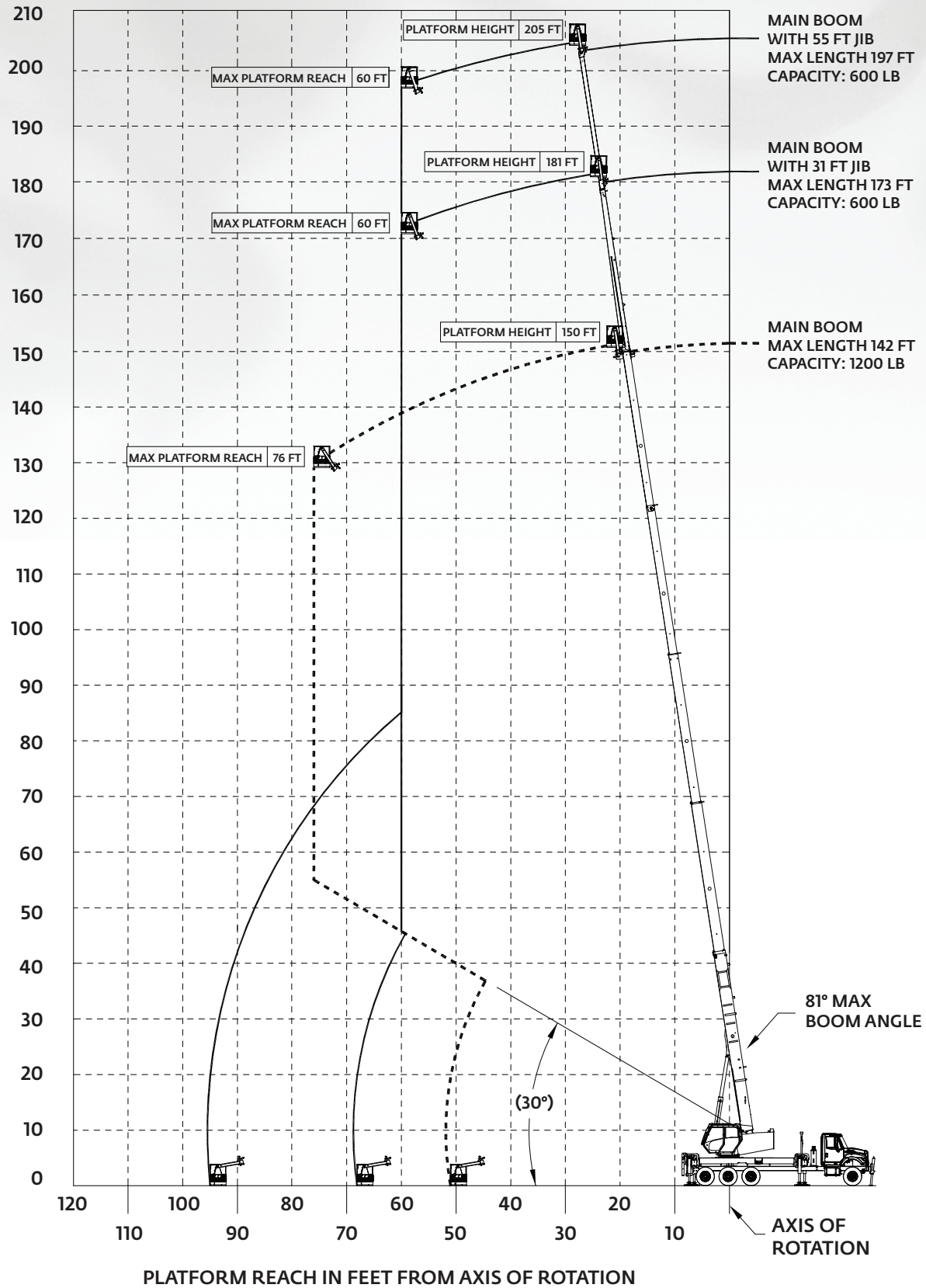


7,52 m
(24.7 ft)



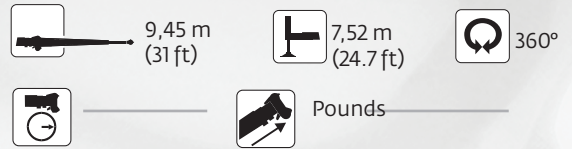
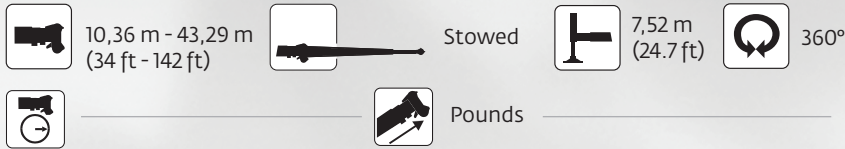
360°

PLATFORM HEIGHT IN FEET SHOWN FROM GROUND



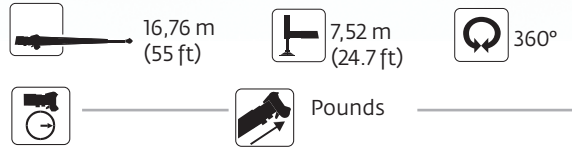
MAXIMUM O/R PAD LOAD (FOR MINIMUM TRUCK): 41,000 LB

Load chart



Radius in Feet	#02								
	Main Boom Length in Feet								
	34	47-A	61-B	74-C	88-D	101-E	115-F	128-G	142
7	89,200 (74.9)								
8	78,800 (73.1)								
10	67,400 (69.4)	39,350 (75.6)							
12	56,300 (65.7)	39,350 (73.1)	39,550 (77.4)						
15	43,950 (59.7)	39,350 (69.2)	39,050 (74.5)	34,800 (77.7)					
20	31,300 (48.9)	32,050 (62.3)	32,650 (69.5)	31,100 (73.7)	22,650 (76.7)	17,050 (78.8)			
25	23,500 (35.6)	24,300 (55.0)	24,850 (64.3)	25,150 (69.6)	20,300 (73.4)	15,400 (76.0)	12,700 (78.3)		
30	18,150 (13.5)	19,050 (46.9)	19,650 (58.8)	19,900 (65.2)	18,350 (70.0)	13,950 (73.1)	11,850 (75.8)	9800 (78.0)	7800 (79.5)
35		15,250 (37.5)	15,850 (52.9)	16,100 (60.7)	16,300 (66.4)	12,850 (70.1)	10,850 (73.5)	9300 (75.8)	7400 (77.7)
40		12,350 (25.2)	12,950 (46.6)	13,250 (56.1)	13,450 (62.7)	11,850 (67.1)	10,100 (71.0)	8800 (73.7)	7250 (75.9)
45			10,750 (40.2)	11,000 (51.1)	11,150 (58.8)	10,750 (64.2)	9450 (68.4)	8300 (71.4)	7000 (74.0)
50			8800 (31.9)	9150 (46.2)	9300 (55.1)	9550 (60.9)	8800 (65.7)	7800 (69.1)	6600 (72.0)
55			7150 (20.7)	7500 (40.4)	7700 (50.9)	7900 (57.5)	8100 (62.9)	7350 (66.7)	6350 (70.0)
60				6150 (46.3)	6400 (53.8)	6550 (59.9)	6750 (64.3)	6850 (67.9)	6000 (67.9)
65				5050 (25.4)	5300 (41.5)	5450 (50.0)	5650 (56.7)	5850 (61.6)	5400 (65.6)
70				4100 (12.7)	4350 (36.0)	4550 (46.0)	4700 (53.5)	4900 (58.8)	5050 (63.4)
75					3550 (29.7)	3750 (41.7)	3900 (50.1)	4100 (55.9)	4250 (60.9)
80					2850 (21.7)	3050 (37.0)	3250 (46.5)	3400 (52.9)	3550 (58.3)
85					2200 (7.2)	2450 (31.6)	2650 (42.8)	2750 (49.8)	2900 (55.6)
90					1900 (25.3)	2100 (38.7)	2250 (46.5)	2350 (52.9)	
95					1450 (16.6)	1700 (34.1)	1750 (43.1)	1900 (50.0)	
100						1150 (29.0)	1350 (39.4)	1450 (47.0)	
105						700 (22.7)	950 (35.4)	1100 (43.9)	
110						450 (13.8)	550 (30.9)	700 (40.6)	
Minimum boom angle (°) for indicated length (no load)						0	25.6	36.9	
Maximum boom length (ft) at 0° boom angle (no load)						88			

Radius in Feet	31 ft LENGTH	
	#03	
33	3400 (80)	
50	3200 (75)	
65	2700 (70)	
79	2100 (65)	
Min. boom angle for indicated length (no load)		51°
Max. boom length at 0° boom angle (no load)		88 ft



Radius in Feet	55 ft LENGTH	
	#04	
40	2200 (80)	
59	2200 (75)	
76	1600 (70)	
91	1000 (65)	
Min. boom angle for indicated length (no load)		60°
Max. boom length at 0° boom angle (no load)		74 ft

NOTE: () Boom angles are in degrees.
#RCL operating code. Refer to RCL manual for operating instructions.

Boom Angle	Lifting Capacities at Zero Degree Boom Angle							
	Main Boom Length in Feet							
	34	47-A	61-B	74-C	88-D	101-E		
0°	17,150 (31.5)	10,550 (44.5)	6150 (58.5)	3850 (71.5)	2150 (85.5)	1100 (98.5)		

NOTE: () Reference radii in feet. 80097068

Boom extension capacity notes:

- 31 ft and 55 ft extension lengths may be used for single line lifting service.
- Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. For boom angles not shown, use the rating of the next lower angle.
Warning: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- Capacities listed are with outriggers properly extended and vertical jacks set.
- When lifting over the main boom nose with 31 ft or 55 ft extension erected, the outriggers must be fully extended or 50% (17.5 ft) spread.

NOTE: () Boom angles are in degrees.
#RCL operating code. Refer to RCL manual for operating instructions.

