

Grove Manitowoc National Crane Potain



National Crane Series NBT36

Product Guide





Features

National Crane Series NBT36

- 32,7 t (36 USt) maximum capacity
- 41,1 m (135 ft) maximum tip height (main boom)
- 57,9 m (190 ft) maximum tip height (boom with jib)

Five-section boom

At 38,7m (127 ft), the NBT36 five-section boom is the longest in its size range. The long boom allows the operator to perform more lifts without the use of a jib, reducing setup time and improving efficiency. Also available is optional boom length of 31,4 m (103 ft).



Overload protection

All National Crane boom trucks are equipped with overload protection. A Load Moment Indicator (LMI) is standard on all NBT36 machines. The LCD display is visible in full or low light and displays all crane load lifting values simultaneously. Includes Work Area Definition System (WADS).



Deluxe operator's cab

Rigid galvanealed steel structure, well insulated, with tinted safety glass for operator visibility and comfort. Multi-position seat with arm rest mounted single axis controls, ventilation fans, diesel heater, dual cab mounted worklights and wipers. Optional air conditioning is available.



Outriggers

Outrigger span of 7,52 m (24.7 ft) when fully extended; 5,33 m (17.5 ft) at mid-span.

Equipped with both ground level and in-cab outrigger controls, the NBT36 outriggers allow quick and easy crane set-up and can be positioned at 0%, 50% and 100%.



Features



National Crane is proud to introduce the Series NBT36

- The stronger standard torsion box improves rigidity, reduces truck frame flex and reduces the need for counterweight.
- Easy Glide boom wear pads reduce the conditions that cause boom chatter and vibration. The net result is smoother crane operation.
- Speedy-reeve boom tip and sheave blocks simplify rigging changes by decreasing the time needed to change line reeving.
- Painting crane components before assembly reduces the possibility of rust, improves serviceability and enhances the appearance of the machine.
- State of the art control valve provides smoother operation. The new design eliminates parts, reducing repair costs and improving the machines serviceability.
- Bearings on the boom and retract cables can be greased through access holes in the boom side plates.
- Boom sections are supported by one hydraulic extend cylinder, minimizing maintenance.
- Two-speed grooved drum hoist with cable packer, electronic drum rotation indicator (DRI), last layer indicator (LLI), and third wrap indicator.



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Specifications

Boom and jib combinations data

Available in two basic models:

NBT36 - 103: Equipped with a 9,45 m - 31,39 m (31 ft - 103 ft) four-section boom. This model can be equipped with a 9,45 m (31 ft) jib, offering a tip height of 43,29 m (142 ft) or a 9,45 m - 16,76 m (31 ft - 55 ft) side-stowing foldaway jib, providing a tip height of 50,60 m (166 ft).

9,45 m - 31,39 m (31 ft - 103 ft) four-section hydraulic boom

18FJ31OS 9,45 m (31 ft) single-section offsettable manual jib

9,45 m - 31,39 m (31 ft - 103 ft) four-section hydraulic boom

18FJ55M 9,45 m - 16,76 m (31 ft - 55 ft) two-section manual jib

NBT36-127: Equipped with a 9,45 m - 38,71 m (31 ft - 127 ft) five-section boom. This model can be equipped with a 9,45 m - 16,76 m (31 ft - 55 ft) fold-away jib providing a tip height of 57,91 m (190 ft).

9,45 m - 38,71 m (31 ft - 127 ft) five-section hydraulic boom

18FJ55M 9,45 m - 16,76 m (31 ft - 55 ft) two-section manual jib

Note: Maximum tip is measured with outriggers/stabilizers fully extended.

Series NBT36



Specifications

NBT36 winch data

- All winch pulls and speeds are shown on the fourth layer.
- Winch line pulls would increase on the first, second, and third layers.
- Winch line speed would decrease on the first, second, and third layers.
- Winch line pulls may be limited by the winch capacity or the ANSI 5 to 1 cable safety factor.

Cable

supplied

5/8" diameter rotation resistant IWRC

5/8" diameter

rotation resistant Average

breaking

25 583 kg (56,400 lb)

25 583 kg (56,400 lb)

> 125 m/min (410 fpm)

Standard

planetary

winch

Low speed

High speed

[1 part line	2 part line	3 part line	4 part line	5 part line	6 part line	7 part line	8 part line
Ì	Max. pull							
Ì	5103 kg	10 206 kg	15 309 kg	20 412 kg	25 515 kg	30 618 kg	35 721 kg	40 824 kg
	(11,250 lb)	(22,500 lb)	(33,750 lb)	(45,000 lb)	(56,250 lb)	(67,500 lb)	(78,750 lb)	(90,000 lb)
	62 m/min	31 m/min	21 m/min	16 m/min	13 m/min	10 m/min	9 m/min	8 m/min
	(205 fpm)	(103 fpm)	(68 fpm)	(51 fpm)	(41 fpm)	(34 fpm)	(29 fpm)	(26 fpm)
	2268 kg	4536 kg	6804 kg	9072 kg	11 340 kg	13 608 kg	15 876 kg	18 144 kg
	(5000 lb)	(10,000 lb)	(15,000 lb)	(20,000 lb)	(25,000 lb)	(30,000 lb)	(35,000 lb)	(40,000 lb)

Winch	Fourth layer pull	Allowable cable pull
Standard planetary and auxiliary planetary	2268 kg (5000 lb) high speed 5103 kg (11,250 lb) low speed	5117 kg (11,280 lb) 5117 kg (11,280 lb)

62 m/min (205 fpm) 42 m/min (137 fpm) 31 m/min (103 fpm)

25 m/min

(82 fpm)

21 m/min

(68 fpm)

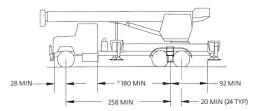
18 m/min (59 fpm) 16 m/min (51 fpm)

Block type	Rating	Weight
Aux boom head		45 kg (100 lb)
Downhaul weight	4,53 USt (7 USt)	78 kg (172 lb)
1-sheave block	13,60 t (20 USt)	149 kg (329 lb)
2-sheave block	22,67 t (30 USt)	290 kg (640 lb)
3-sheave block	31,74 t (40 USt)	272 kg (600 lb)
4-sheave block	32,65 t (50 USt)	361 kg (796 lb)

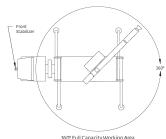


Mounting configuration

The configurations are based on the NBT36 with an 85% stability factor. The complete unit must be installed in accordance with factory requirements and a test performed to determine actual stability and counterweight requirements since individual truck chassis vary.



*CLEAR OF
OBSTRUCTIONS
(MUFFLERS,
EXHAUST STACKS,
ETC.) ON TOP OF
TRUCK FRAME FOR
FULL 8 FOOT WIDTH.



Configuration 1 – NBT 36

	Working area	
	Gross Axle Weight Rating Front	9072 kg (20,000 lb)*
	Gross Axle Weight Rating Rear	15 422 kg (34,000 lb)*
	Gross Vehicle Weight Rating	24 494 kg (54,000 lb)*
	Wheelbase	655 cm (258 in)
	Cab to Axle/trunnion (CA/CT)	457 cm (180 in)
	After Frame (AF)	2,44 m (92 in) minimum
	Frame Section Modulus (SM), front axle to end of	afterframe,
	with 758 MPa (110,000 PSI)	492 cm ³ (30 in ³)
	Stability Weight, Front	4410 kg (9700 lb) minimum**
ye.	Stability Weight, Rear	3865 kg (8500 lb) minimum**
	Estimated Average Final Weight	23 587 kg (51,880 lb)***
		•

The diagram shows the 360° working area achieved with the front stabilizer (standard on the Series NBT36). The front stabilizer is required when extending the boom and lifting loads over the front of the truck. A minimum of 104 cm³ (10 in³) section modulus at 758 MPa (110,000 psi) is required from the rear of the front spring hanger forward to the front stabilizer. Integral front frame extension required.

- *Required to mount basic crane with 9,45 m (30 ft) jib option. Additional options or heavier base chassis weights will require additional axles or a GVWR in excess of 24 494 kg (54,000 lb); in some states, special permits for overload are required.
- ••Estimated axle scale weights prior to installation of crane, stabilizers and subbase for 85% stability.
- ***Includes basic crane without jib, 379 L (100 gal) fuel tank and two workers in cab. Note: Chassis will require extended front frame rails for SFO addition.

MINIMUM TRUCK REQUIREMENTS

Many factors must be considered in the selection of proper truck for a Series NBT36 crane. Items which must be considered are:

- Axle Rating. Axle ratings are determined by the axles, tires, rims, springs, brakes, steering and frame strength of the truck. If any one of these components is below the required rating, the gross axle rating is reduced to its weakest component value.
- 2. Wheelbase (WB), Cab-to-Trunnion (CT) and Bare Chassis Weight. The wheelbase, CT and chassis weights shown are required so the basic NBT36 can be legally driven in most states and meet stability requirements. The dimensions given assume the subbase is installed properly behind the truck cab. If exhaust stacks, transmission protrusions, etc., do not allow a close installation to the cab, the WB and CT dimensions must be increased. Refer to the Mounting Configuration pages for additional information.
- 3. Truck Frame. Try to select a truck frame that will minimize or eliminate frame reinforcement or extension of the after frame (AF). Many frames are available that have the necessary after frame (AF) section modulus (S.M.) and resistance to bending moment (RBM)

- so that reinforcing is not required. The front hydraulic jack is used for a 360° working range around the truck. The frame under the cab through the front suspension must have the minimum S.M. and RBM because reinforcing through the front suspension is often difficult because of engine, radiator mounts and steering mechanics. See "Truck Requirements" and "Frame Strength" information above for the necessary section modulus and resistance to bending moment values.
- 4. Additional Equipment. In addition to the axle ratings, wheelbase, cab-to-axle requirements and frame, it is recommended that the truck is equipped with electronic engine control, increased cooling and a transmission with a PTO opening available with an extra heavy duty PTO. A conventional cab truck should be used for standard crane mounts.
- 5. **Neutral Start Switch.** The chassis must be equipped with a switch that prevents operation of the engine starter when the transmission is in gear.

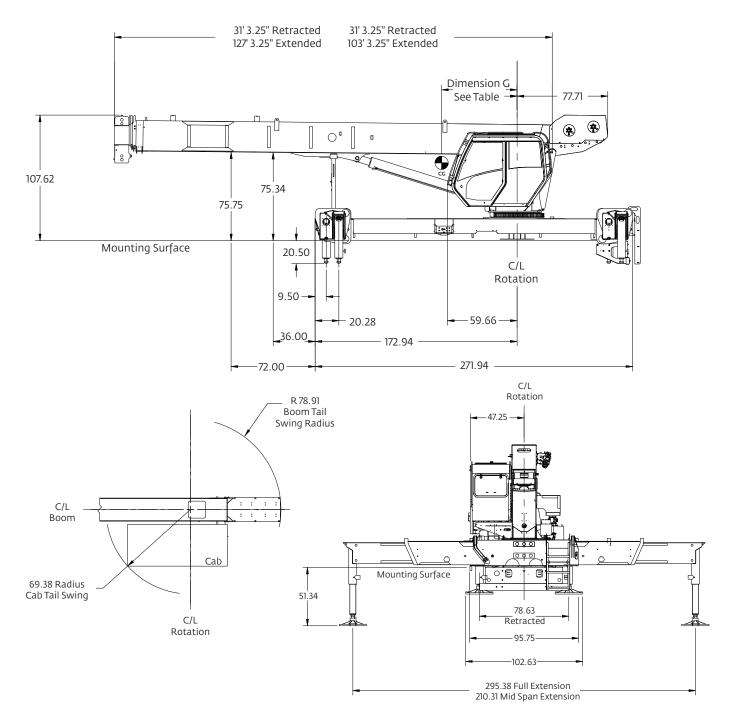
Notes:

- Gross Vehicle Weight Rating (GVWR) is dependent on all components of the vehicle (axles, tires, springs, frame, etc.) meeting manufacturers' recommendations; always specify GVWR when purchasing trucks.
- Diesel engines require a variable speed governor for smooth crane operation; electronic fuel injection requires EET engine remote throttle.
- All mounting data is based on a National Crane Series NBT36 with an 85% stability factor (75% stability factor for New York City).
- The complete unit must be installed in accordance with factory requirements, and a test performed to determine actual stability and counterweight requirements per SAE J765; contact the factory for details.

Series NBT36 7



Dimensions



Series	G	Weight with oil
NBT36103	75.5"	34,084 lb
NBT36127	79"	35,394 lb

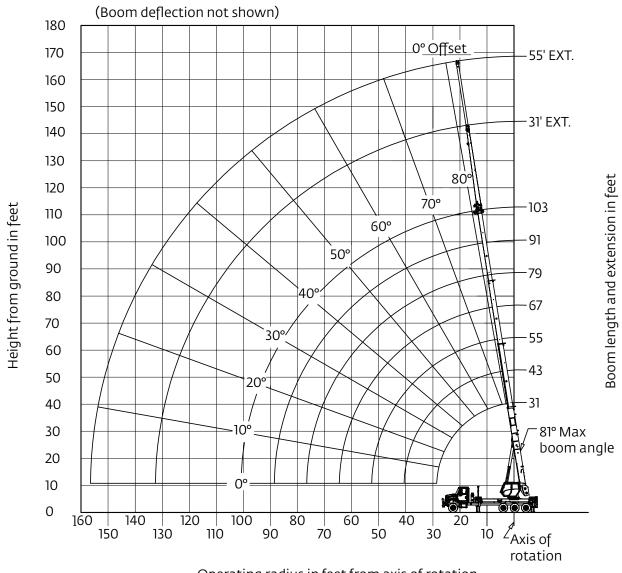
No jib, no auxiliary hoist, with 2/3 hookblock.

Dimensions are in inches unless otherwise specifiied.

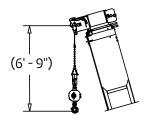


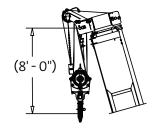
Working range

103 ft main boom, full span outrigger, with jib



Operating radius in feet from axis of rotation





Dimensions are for largest furnished hook block and headache ball, with anti-two block activated.

*Drawing is to show the physical reach of the machine. Always refer to load chart to see what portions of this range are structurally and stability limited.



103 ft main boom, full span outrigger, 360°, without stowed jib

Radius	#01						
in	Main boom length in feet						
feet	31	43-A	55-B	67-C	79-D	91-E	103
7	72,000 (73.9)						
8	69,000 (72)	50,000 (76.9)					
10	66,500 (68)	48,000 (74.1)	49,000 (78)				
12	55,000 (63.9)	46,000 (71.2)	46,000 (75.8)	36,000 (78.7)			
15	43,400 (57.5)	43,500 (66.8)	39,000 (72.5)	35,000 (76.1)	31,000 (78.7)		
20	31,300 (45.5)	31,600 (59.1)	31,900 (66.8)	32,000 (71.6)	26,000 (75.1)	18,000 (77.3)	18,000 (79.4)
25	23,900 (29.9)	24,200 (50.6)	24,500 (60.8)	24,700 (66.9)	24,800 (71.2)	17,500 (74.2)	17,000 (76.8)
30		18,100 (40.9)	18,350 (54.4)	18,500 (62)	18,650 (67.1)	17,000 (71)	16,000 (74)
35		13,900 (28.6)	14,150 (47.4)	14,300 (56.8)	14,450 (62.9)	14,550 (67.5)	14,500 (71.1)
40			11,250 (39.5)	11,400 (51.3)	11,500 (58.6)	11,600 (63.9)	11,700 (67.9)
45			9200 (31)	9350 (45.9)	9450 (54.5)	9550 (60.5)	9650 (65)
50			7500 (17.4)	7650 (39.4)	7800 (49.7)	7580 (56.6)	7950 (61.7)
55				6350 (31.7)	6450 (44.5)	6550 (52.5)	6600 (58.3)
60				5250 (21.6)	5350 (38.8)	5450 (48.2)	5500 (54.7)
65					4500 (32.3)	4550 (43.6)	4600 (51)
70					3700 (24.2)	3750 (38.6)	3850 (47.1)
75					2950 (11.1)	3050 (32.9)	3150 (43)
80						2450 (26)	2550 (38.4)
85						1950 (16.6)	2000 (33.4)
90							1550 (27.5)
95							1150 (19.9)
100							800 (4.6)
	Minimur	m boom ang	gle (°) for inc	dicated leng	th (no load)		0
		m boom len			le (no load)		103

NOTE: Loads displayed in pounds. () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating instructions.

	Lifting capacities at zero degree boom angle						
Boom	Boom Main boom length in feet						
angle	31	43-A	55-B	67-C	79-D	91-E	103
0°	18,800 (28.5)	11,150 (40.5)	6800 (52.5)	4450 (64.5)	2800 (76.5)	1650 (88.5)	800 (100.5)
NOTE:()	NOTE: () Reference radii in feet. 80028768						



103 ft main boom, full span outrigger, 360°, with stowed jib

Radius	#02						
in			Main b	oom lengt	th in feet		
feet	31	43-A	55-B	67-C	79-D	91-E	103
7	71,200 (73.9)						
8	68,200 (72)	49,350 (76.9)					
10	65,700 (68)	47,350 (74.1)	48,550 (78)				
12	54,200 (63.9)	45,350 (71.2)	45,550 (75.8)	35,600 (78.7)			
15	42,600 (57.5)	42,850 (66.8)	38,550 (72.5)	34,600 (76.1)	30,650 (78.7)		
20	30,500 (45.5)	30,950 (59.1)	31,450 (66.8)	31,600 (71.6)	25,650 (75.1)	17,700 (77.3)	17,750 (79.4)
25	23,100 (29.9)	23,550 (50.6)	24,050 (60.8)	24,300 (66.9)	24,450 (71.2)	17,200 (74.2)	16,750 (76.8)
30		17,450 (40.9)	17,900 (54.4)	18,100 (62)	18,300 (67.1)	16,700 (71)	15,750 (74)
35		13,250 (28.6)	13,700 (47.4)	13,900 (56.8)	14,100 (62.9)	14,250 (67.5)	14,250 (71.1)
40			10,800 (39.5)	11,000 (51.3)	11,150 (58.6)	11,300 (63.9)	11,450 (67.9)
45			8750 (31)	8950 (45.9)	9100 (54.5)	9250 (60.5)	9400 (65)
50			7050 (17.4)	7250 (39.4)	7450 (49.7)	7280 (56.6)	7700 (61.7)
55				5950 (31.7)	6100 (44.5)	6250 (52.5)	6350 (58.3)
60				4850 (21.6)	5000 (38.8)	5150 (48.2)	5250 (54.7)
65					4150 (32.3)	4250 (43.6)	4350 (51)
70					3350 (24.2)	3450 (38.6)	3600 (47.1)
75					2600 (11.1)	2750 (32.9)	2900 (43)
80						2150 (26)	2300 (38.4)
85						1650 (16.6)	1750 (33.4)
90							1300 (27.5)
95							900 (19.9)
100			. (2) 5				550 (4.6)
				dicated leng			0
)° boom ang	le (no load)		103

NOTE: Loads displayed in pounds.() Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating instructions.

	Lifting capacities at zero degree boom angle						
Boom		Main boom length in feet					
angle	31	43-A	55-B	67-C	79-D	91-E	103
0°	18,000 (28.5)	10,500 (40.5)	6350 (52.5)	4050 (64.5)	2450 (76.5)	1350 (88.5)	550 (100.5)

NOTE: () Reference radii in feet.

80028771



103 ft main boom, full span outrigger, 360°, with fixed jib

Radius in	0° OFFSET
feet	#06
24	8500 (80)
37	7500 (75)
48	6400 (70)
59	5100 (65)
69	3900 (60)
78	3000 (55)
87	2200 (50)
95	1500 (45)
102	1000 (40)
Min. boom angle for indicated length (no load)	25.4°
Max. boom length at 0° boom angle (no load)	91 ft

Radius in	30° OFFSET
feet	#09
39	6200 (80)
50	5400 (75)
60	4800 (70)
70	3900 (65)
79	3200 (60)
87	2400 (55)
95	1800 (50)
102	1300 (45)
107	900 (40)
Min. boom angle for indicated length (no load)	35°
Max. boom length at 0° boom angle (no load)	79 ft

80028774

NOTE: Loads displayed in pounds. () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating instructions.

Boom extension capacity notes:

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 2. 31 ft offsettable extension length may be used for single line lifting service.
- 3. 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.
- 4. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 5. Capacities listed are with outriggers properly extended and vertical jacks set
- 6. When lifting over the main boom nose with 31 ft offsettable extension erected, the outriggers must be fully extended or 50% (17.5 ft) spread.



103 ft main boom, full span outrigger, 360°, with telescopic jib

Radius in	31 ft LENGTH					
feet	#03					
24	8500 (80)					
37	7500 (75)					
48	6400 (70)					
59	5100 (65)					
69	3900 (60)					
78	2800 (55)					
87	1900 (50)					
95	1250 (45)					
102	750 (40)					
Min. boom angle for indicated length (no load)	37.8°					
Max. boom length at 0° boom angle (no load)	79 ft					

Radius in	55 ft LENGTH					
feet	#04					
29	4000 (80)					
45	3700 (75)					
59	3200 (70)					
71	2700 (65)					
83	2250 (60)					
94	1800 (55)					
104	1300 (50)					
113	800 (45)					
Min. boom angle for indicated length (no load)	41.5°					
Max. boom length at 0° boom angle (no load)	79 ft					

80028776

NOTE: Loads displayed in pounds. () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating instructions.

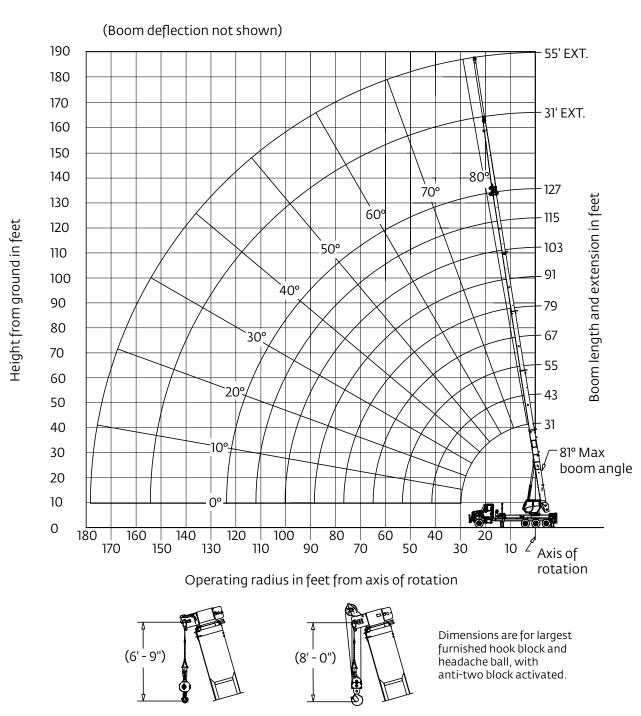
Boom extension capacity notes:

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 2. 31 ft and 55 ft extension lengths may be used for single line lifting service.
- 3. 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.
- 4. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 5. Capacities listed are with outriggers properly extended and vertical jacks set.
- 6. 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.



Working range

127 ft main boom, full span outrigger, with jib



^{*}Drawing is to show the physical reach of the machine. Always refer to load chart to see what portions of this range are structurally and stability limited.



127 ft main boom, full span outrigger, 360°, without stowed jib

Radius	#01								
in feet	21	42.4	Main boom length in feet					115.6	127
	31 72,000	43-A	55-B	67-C	79-D	91-E	103-F	115-G	127
7	(73.6)								
8	70,000 (71.6)								
10	66,000 (67.6)	40,000 (74.2)							
12	54,600 (63.4)	38,000 (71.4)	39,000 (75.8)	36,000 (78.8)					
15	42,700 (56.8)	36,000 (67)	37,000 (72.6)	34,000 (76.2)	27,000 (78.6)	21,000 (80.4)			
20	30,800 (44.4)	31,300 (59.4)	31,800 (66.9)	32,000 (71.7)	24,000 (74.9)	19,000 (77.2)	15,500 (79.2)	12,500 (80.7)	
25	23,400 (27.8)	24,000 (51)	24,400 (61)	24,600 (67)	20,500 (71.1)	16,000 (74)	14,200 (76.5)	12,000 (78.4)	9500 (79.9)
30		18,050 (41.4)	18,450 (54.6)	18,700 (62.1)	18,500 (67.2)	15,200 (70.8)	13,000 (73.7)	11,800 (76)	9100 (77.9)
35		13,800 (29.4)	14,200 (47.7)	14,450 (57)	14,650 (63)	14,000 (67.4)	12,100 (70.8)	11,100 (73.7)	8700 (75.8)
40			11,250 (39.9)	11,500 (51.5)	11,650 (58.7)	11,800 (63.9)	11,200 (67.9)	10,100 (71.2)	8500 (73.6)
45			9150 (31.5)	9400 (46.2)	9550 (54.6)	9700 (60.4)	9850 (65)	9000 (68.6)	8100 (71.3)
50			7450 (18.5)	7700 (39.7)	7850 (49.8)	8000 (56.6)	8150 (61.7)	8200 (65.8)	7800 (69)
55				6350 (32.1)	6500 (44.7)	6650 (52.6)	6750 (58.3)	6900 (62.9)	7000 (66.5)
60				5250 (22.3)	5450 (39.1)	5550 (48.3)	5650 (54.8)	5750 (59.8)	5850 (63.8)
65					4500 (32.6)	4650 (43.7)	4750 (51.1)	4850 (56.7)	4950 (61)
70					3750 (24.6)	3850 (38.7)	3950 (47.3)	4050 (53.4)	4150 (58.2)
75					3050 (12.3)	3200 (33.1)	3300 (43.1)	3400 (50)	3450 (55.2)
80						2600 (26.3)	2700 (38.6)	2800 (46.5)	2850 (52.2)
85						2050 (17.2)	2150 (33.6)	2250 (42.8)	2350 (49)
90							1700 (27.8)	1800 (38.7)	1850 (45.7)
95							1300 (20.4)	1400 (34.2)	1450 (42.1)
100								1000 (29)	1100 (38.3)
105								700 (22.8)	750 (34.2)
		m boom and m boom len					0	22.5 103	34

NOTE: Loads displayed in pounds. () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating instructions.

NOTE: () Reference radii in feet.

80028742

Rated Load Reductions from main boom capacity when lifting over main boom nose with ext. erected (retracted):
(in lb.) 2300 2150 2000 1950 1900 1850 1800 1750 1700



127 ft main boom, full span outrigger, 360°, with stowed jib

Radius	#02								
in feet	Main boom length in feet								
leer	31	43-A	55-B	67-C	79-D	91-E	103-F	115-G	127
7	71,200 (73.6)								
8	69,200 (71.6)								
10	65,200 (67.6)	39,350 (74.2)							
12	53,800 (63.4)	37,350 (71.4)	38,550 (75.8)	35,600 (78.8)					
15	41,900 (56.8)	35,350 (67)	36,550 (72.6)	33,600 (76.2)	26,600 (78.6)	20,650 (80.4)			
20	30,000 (44.4)	30,650 (59.4)	31,350 (66.9)	31,600 (71.7)	23,600 (74.9)	18,650 (77.2)	15,200 (79.2)	12,250 (80.7)	
25	22,600 (27.8)	23,350 (51)	23,950 (61)	24,200 (67)	20,100 (71.1)	15,650 (74)	13,900 (76.5)	11,750 (78.4)	9300 (79.9)
30		17,400 (41.4)	18,000 (54.6)	18,300 (62.1)	18,100 (67.2)	14,850 (70.8)	12,700 (73.7)	11,550 (76)	8900 (77.9)
35		13,150 (29.4)	13,750 (47.7)	14,050 (57)	14,250 (63)	13,650 (67.4)	11,800 (70.8)	10,750 (73.7)	8500 (75.8)
40			10,80 (39.9)	11,100 (51.5)	11,250 (58.7)	11,450 (63.9)	10,900 (67.9)	9850 (71.2)	8300 (73.6)
45			8700 (31.5)	9000 (46.2)	9150 (54.6)	9350 (60.4)	9550 (65)	8750 (68.6)	7900 (71.3)
50			7000 (18.5)	7300 (39.7)	7450 (49.8)	7650 (56.6)	7850 (61.7)	7950 (65.8)	7600 (69)
55				5950 (32.1)	6100 (44.7)	6300 (52.6)	6450 (58.3)	6650 (62.9)	6800 (66.5)
60				4850 (22.3)	5050 (39.1)	5200 (48.3)	5350 (54.8)	5500 (59.8)	5650 (63.8)
65					4100 (32.6)	4300 (43.7)	4450 (51.1)	4600 (56.7)	4750 (61)
70					3350 (24.6)	3500 (38.7)	3650 (47.3)	3800 (53.4)	3950 (58.2)
75					2650 (12.3)	2850 (33.1)	3000 (43.1)	3150 (50)	3250 (55.2)
80						2250 (26.3)	2400 (38.6)	2550 (46.5)	2650 (52.2)
85						1700 (17.2)	1850 (33.6)	2000 (42.8)	2150 (49)
90							1400 (27.8)	1550 (38.7)	1650 (45.7)
95							1000 (20.4)	1150 (34.2)	1250 (42.1)
100								750 (29)	900 (38.3)
105								450 (22.8)	550 (34.2)
		m boom ang					0	22.5	34
Maximum boom length (ft) at 0° boom angle (no load)							103		

NOTE: Loads displayed in pounds. () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating instructions

NOTE: () Reference radii in feet.

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Radius in	31 ft LENGTH				
feet	#03				
30	3400 (80)				
46	3200 (75)				
60	2700 (70)				
73	2100 (65)				
85	1700 (60)				
96	1200 (55)				
106	650 (50)				
Min. boom angle for indicated length (no load)	50°				
Max. boom length at 0° boom angle (no load)	79 ft				

Radius in	55 ft LENGTH				
feet	#04				
36	2200 (80)				
54	2200 (75)				
70	1600 (70)				
85	1000 (65)				
Min. boom angle for indicated length (no load)	51.5°				
Max. boom length at 0° boom angle (no load)	79 ft				

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NOTE: Loads displayed in pounds. () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for

Boom extension capacity notes:

operating instructions

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 2. 31 ft and 55 ft extension lengths may be used for single line lifting service.
- 3. 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.
- 4. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 5. Capacities listed are with outriggers properly extended and vertical jacks set.
- 6. 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.



Accessories

Radio Remote Controls - (Ground level or boom tip)

Eliminate the handling and maintenance concerns that accompany cabled remotes. Operate to a range of about 76~m (250 ft), varying with conditions.

Heavy-duty Personnel Basket -

 $544~\mbox{kg}$ (1200 lb) capacity steel basket with safety loops for two passengers. Gravity leveling 183 cm x 107cm (72 in x 42 in) platform. Fast attachment and secure locking systems.

Air Conditioning for Crane Cab -

Provides excellent crane cab cooling to overcome the radiant heat from the sun reflection.

Auxiliary Winch 15,000 lb Line Pull -

Second winch redundant to the main, planetary winch with boom tip "rooster sheave" to allow reeving of both winch lines.

Spanish-Language Danger Decals, Control Knobs, and Operators' Manuals • NB4R (R4 functions)

- BSA-1
- BSA-R1 (provides rotation)
- BSAY-1
- BSAY-2
- A/C
- NBT36AW
- SDD
- SOM

Series NBT36



Notes



Notes

Series NBT36



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