Grove Manitowoc National Crane Potain

Manitowoc

National Crane 500E2 Series

Product Guide

Features

- 16,3 t (18 USt) rating
- 21,6 m (71 ft) three-section boom
- Self-lubricating Easy Glide wear pads
- Internal anti-two block

Features

National Crane Series 500E2

•16,3 t (18USt) maximum capacity
• 36,9 m (121 ft) maximum vertical reach
• 24,7 m (81 ft) maximum vertical hydraulic reach

Three-section boom

With acapacity of 16,3 t (18USt) the Series 500E2 is equipped with a three-section 21,6 m (71 ft) boom. The long boom allows the operator to perform more lifts without the use of a jib, reducing setup time and improving efficiency.

Outriggers

The Series500E2 comes equipped with A-frame stabilizers and an optional single front outrigger.

Easy Glide boom wear pads

EasyGlide boom wear pads reduce the conditions that cause boom chatter and vibration. The net result is smoother crane operation.

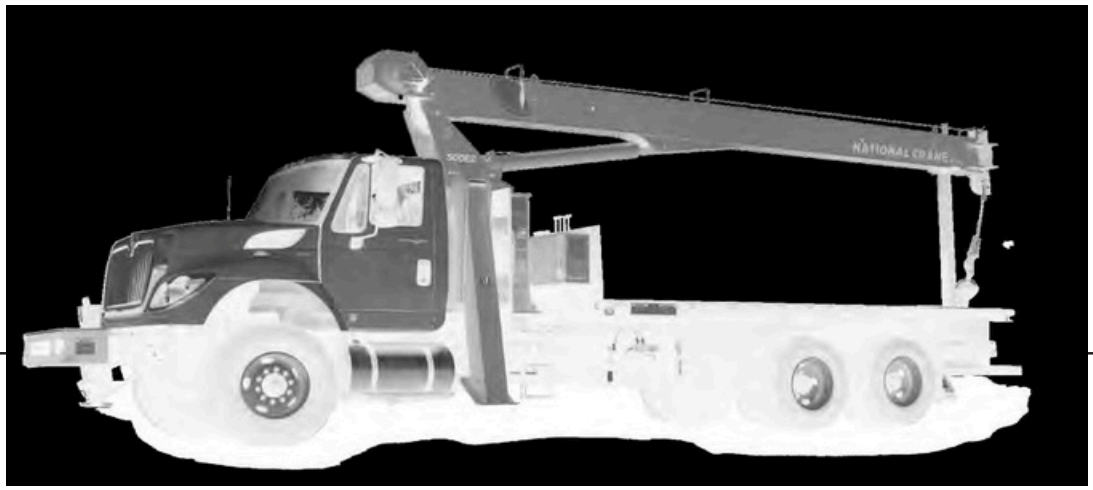
Improved serviceability

- Bearingson theboomextensionand retract cables can be greased through access holes in the boom side plates
- Removable winch allows the internal telescoping cylinder to be removed quickly, without dismantling the boom
- Internal anti-two-block wire routing eliminates external reel and wire to protect crane components
- The boom sheave case is open, allowing access to replace the internal anti-two-block wire and to observe internal boom components
- Internal boom parts have been reduced, decreasing service time when rebuilding the machine

Features

Best in class performance and serviceability

- The steel torsion box and flatbed further reduce frame flex
- Speedy-reeve boom tip and sheave blocks simplify rigging changes by decreasing the time needed to change line reeving
- Crane components painted before assembly reduce the chance of rust, improve serviceability and enhance the appearance of the crane
- A control knob located on the swing motor brake release valve can be easily adjusted to the crane operator's swing speed preference
- Rear stabilizers include an independent stabilizer control and bolt/clamp on mounting



* Product may be shown with optional equipment.

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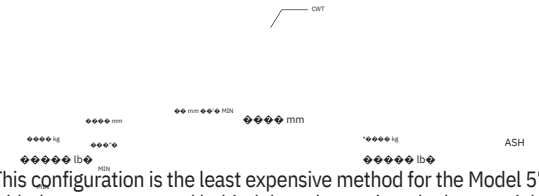
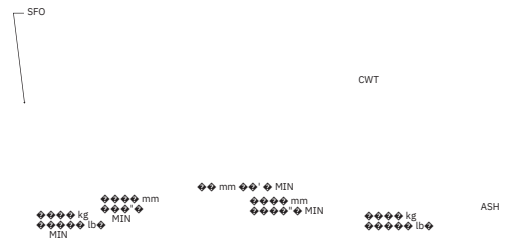
Mounting configurations

The configurations are based on the Series 500E2 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.



This configuration is the least expensive method for the Model 571E2. This mount, with the crane mounted behind the cab, requires the least weight of all mounts for stability; thus, you can haul larger payloads on your truck. It requires standard subbase and rear (ASH) stabilizers.

Configuration 1 with Torsion Box – 180˚ Full Capacity Work Area
Working area .....180˚
Gross Axle Weight Rating Front .....5443 kg (12,000 lb)
Gross Axle Weight Rating Rear.....9525 kg (21,000 lb)
Gross Vehicle Weight Rating .....14 968 kg (33,000 lb)
Wheelbase .....602 cm (237 in)
Cab to Axle/trunnion (CA/CT) .....427 cm (168 in)
Frame Section Modulus (SM) under crane:
758 MPa (110,000 PSI) 261 cm3 (15.9 in3)
Frame Section Modulus (SM) over rear stabilizers:
758MPa(110,000 P SI).....213cm(13in)3
Stability Weight, Front .....3130 kg (6900 lb) minimum*
Stability Weight, Rear .....2767 kg (6100 lb) minimum*
Estimated Average Final Weight .....13 608 kg (30,000 lb)



Requires front SFO stabilizer to give machine full capacity 360˚ around the truck. Truck must meet the minimum requirements above. Front stabilizer gives the machine a solid base, helping the operator control loads precisely.

Configuration 2 with Torsion Box – 360˚ Full Capacity Work Area
(Extended front frame rails required for SFO installation.)
Working area .....360˚
Gross Axle Weight Rating Front .....5443 kg (12,000 lb)
Gross Axle Weight Rating Rear.....9525 kg (21,000 lb)
Gross Vehicle Weight Rating .....14 968 kg (33,000 lb)
Wheelbase .....602 cm (237 in)
Cab to Axle/trunnion (CA/CT) .....427 cm (168 in)
Frame Section Modulus (SM) under crane:
758 MPa (110,000 PSI) 261 cm3 (15.9 in3)
Frame Section Modulus (SM) over rear stabilizers:
758 MPa (110,000 PSI) 213 cm3 (13 in3)
Stability Weight, Front .....3130 kg (6900 lb) minimum*
Stability Weight, Rear .....3175 kg (7000 lb) minimum*
Estimated Average Final Weight .....13 835 kg (30,500 lb)

Allows the installation of the Model 560E2 on a chassis with a small frame by using the standard sub-base for 18 ft bed. In most cases, the chassis will not require reinforcing, and the amount of counterweight required is minimized, increasing payload capacities.

Configuration 3 with Torsion Box – 180˚ Full Capacity Work Area
Working area .....180˚
Gross Axle Weight Rating Front .....5443 kg (12,000 lb)
Gross Axle Weight Rating Rear.....9525 kg (21,000 lb)
Gross Vehicle Weight Rating .....14 968 kg (33,000 lb)
Wheelbase ..... 566 cm (223 in)
Cab to Axle/trunnion (CA/CT) ..... 391 cm (154 in)
Frame Section Modulus (SM) under crane:
758 MPa (110,000 PSI) 261 cm3 (15.9 in3)
Frame Section Modulus (SM) over rear stabilizers:
758 MPa (110,000 PSI) 213 cm3 (13 in3)
Stability Weight, Front ..... 3084 kg (6800 lb) minimum*
Stability Weight, Rear ..... 2494 kg (5500 lb) minimum*
Estimated Average Final Weight .....13 040 kg (28,750 lb)

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 Series 500E2 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 per SAE J765; contact the factory for details
- Transmission neutral safety interlock switch is required

**Estimated axle scale rates prior to installation of crane, stabilizers and subbase for 85% stability.*

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Specifications

Boom and jib combinations data

Available in two basic models:

Model 560E2 – Equipped with a 7,31 m - 18,29 m (24 ft - 60 ft) three-section boom. This model can be equipped with a 7,01 m - 12,50 m (23 ft - 41 ft) two-section jib. Maximum tip height with 12,50 m (41 ft) jib is 33,53 m (110 ft).

7,31 m - 18,29 m (24 ft - 60 ft) three-section boom.

5FJ41M 7,01 m - 12,50 m (23 ft - 41 ft) two-section jib

Model 571E2 – Equipped with a 8,23 m - 21,65 m (27 ft - 71 ft) three-section boom. This model can be equipped with a 7,01 m - 12,50 m (23 ft - 41 ft) two-section jib. Maximum tip height with 12,50 m (41 ft) jib is 36,9 m (121 ft).

8,23 m - 21,65 m (27 ft - 71 ft) three-section boom.

5FJ41M 7,01 m -12,50 m (23 ft - 41 ft) two-section jib

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

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Specifications

500E2 winch data

- All winch pulls and speeds are shown on the fourth layer.
- Winch line pulls would increase on the first and second layers.
- Winch line pulls may be limited by the winch capacity or the ANSI 5 to 1 cable safety factor, shown below this chart.
- Hook blocks are rated at maximum capacity for the block. Do not exceed rated cable pull with any block.

Winch	Cable supplied	Average breaking strength	1 part line Max pull	2 part line Max pull	3 part line Max pull	4 part line Max pull	5 part line Max pull
Standard planetary winch	9/16 in diameter rotation resistant	17 463 kg (38,500 lb)	3492,66 kg (7700 lb)	6985,32 kg (15,400 lb)	10 477,98 kg (23,100 lb)	13 970,65 kg (30,800 lb)	14 514,96 kg (36,000 lb)

Layer	Winch pull kg	Winch pull fpm	Winch speed mpm	Winch speed	BOS winch speed mpm	BOS winch speed fpm	Rope capacity m	Rope capacity ft
1	4708	157380	48		68	222	19	64
2	4246	197360	53		75	246	41	136
3	3865	182320	59		83	271	65	215
4	3547	208320	64		90	294	91	301
5	3279	257230	69		97	318	120	394

Note: All ratings based on 128,7 LPM at 22,75 MPa (34 GPM at 3300 psi)

Burst of Speed maximum pull = 1361 kg (3000 lb)

Winch	Bare drum pull	Allowable cable pull
With standard rotation resistant rope	4627 kg (10,2000 lb)	3493 kg (7700 lb)

Loadline deduct		
Block type	Rating	Weight
Downhaul weight	3,49 t (3.85 USt)	68 kg (150 lb)
1-sheave block	10,48 t (11.55 USt)	91 kg (200 lb)
2-sheave block	17,46 t (19.25 USt)	161 kg (355 lb)

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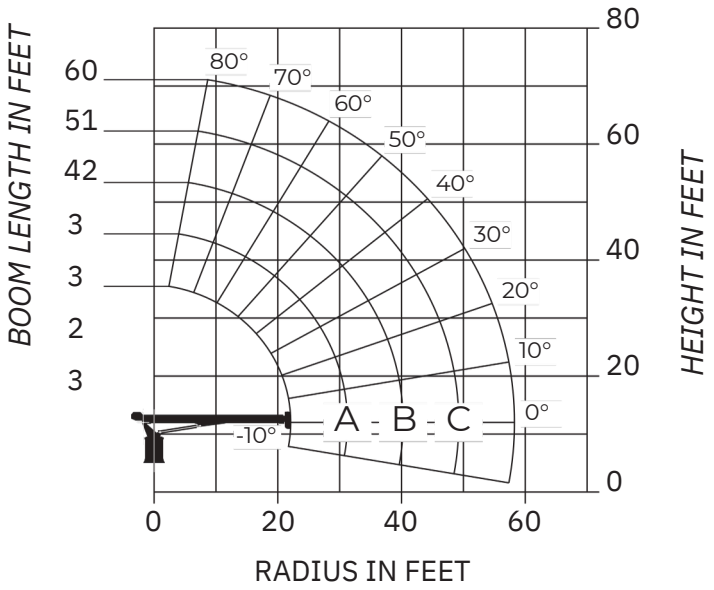
Capacities

Series 560E2: 60 ft boom

National Crane will send you a chart on request – or you may secure needed load rating information through your nearest National Crane dealer.



CAUTION:

- **Do not operate crane booms, jib extensions, any accessories or loads within 3 m (10 ft) of live power lines or other conductors of electricity.**
- Jib and boom capacities shown are maximum for each section.
- Do not exceed capacities at reduced radii
- Load ratings shown on the load rating charts are maximum allowable loads with the outriggers properly extended on a firm, level surface and the crane leveled and mounted on a factory recommended truck.
- Always level the crane with the level indicator located on the crane.
- The operator must reduce load to allow for factors such as wind, ground conditions, operating speeds and their effects on freely suspended loads.
- Overloading this crane may cause structural collapse or instability.
- Weights on any accessories attached to the boom or loadline must be deducted from the load chart capacities.
- Do not exceed jib capabilities at any reduced boom lengths.
- Do not deadhead lineblock against boom tip when extending boom or winching up.
- Keep at least three wraps of loadline on drum at all times.
- Use only specified cable with this machine.

Load chart

LOADED RADIUS ft	LOADED BOOM ANGLE deg	ft BOOM lb	LOADED BOOM ANGLE deg	A ft BOOM lb	LOADED BOOM ANGLE deg	B ft BOOM lb	LOADED BOOM ANGLE deg	C ft BOOM lb	LOADED BOOM ANGLE deg	ft BOOM lb

Capacities

Series 560E2: 60 ft boom with 41 ft jib

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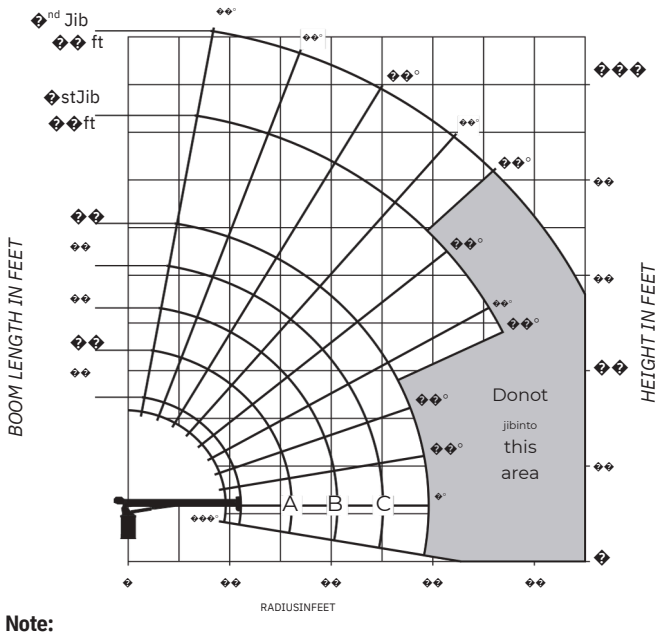

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- The operator must reduce load to allow for factors such as wind, ground conditions, operating speeds and their effects on freely suspended loads.
- Overloading this crane may cause structural collapse or instability.
- Weights on any accessories attached to the boom or loadline must be deducted from the load chart capacities.
- Do not exceed jib capabilities at any reduced boom lengths.
- Do not deadhead lineblock against boom tip when extending boom or winching up.
- Keep at least three wraps of loadline on drum at all times.
- Use only specified cable with this machine.

Note:

1. Operate with jib by radius when main boom is fully extended. If necessary increase boom angle to maintain loaded radius.
2. Operate with jib by boom angle when main boom is not fully extended. Do not exceed rated jib capacities at any reduced boom lengths.

Load chart

LOADED ft	LOADED BOOM ft RADIUS	ANGLE deg	BOOM lb	LOADED A BOOM ft ANGLE deg	BOOM lb	LOADED B BOOM ft ANGLE deg	BOOM lb	BOOM ANGLE deg	C ft BOOM lb	LOADED BOOM ft ANGLE deg	BOOM lb	LOADED BOOM ANGLE deg	ft JIB lb	LOADED BOOM ANGLE deg	ft JIB lb

Capacities

Series 571E2: 71 ft boom

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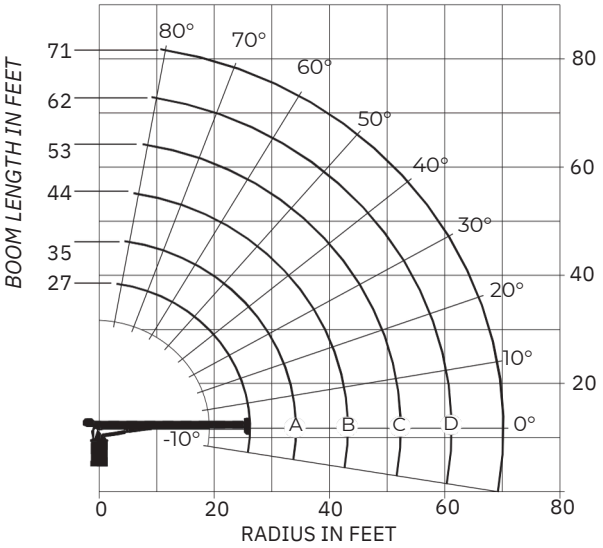

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- Do not exceed capacities at reduced radii
- Load ratings shown on the load rating charts are maximum allowable loads with the outriggers properly extended on a firm, level surface and the crane leveled and mounted on a factory recommended truck.
- Always level the crane with the level indicator located on the crane.
- The operator must reduce load to allow for factors such as wind, ground conditions, operating speeds and their effects on freely suspended loads.
- Overloading this crane may cause structural collapse or instability.
- Weights on any accessories attached to the boom or loadline must be deducted from the load chart capacities.
- Do not deadhead lineblock against boom tip when extending boom or winching up.
- Keep at least three wraps of loadline on drum at all times.
- Use only specified cable with this machine.

Load chart

LOADED BOOM LOAD RADIUS ft	ANGLE deg	ft BOOM	LOADED BOOM ANGLE deg	A ft BOOM	LOADED BOOM ANGLE deg	B ft BOOM	LOADED BOOM ANGLE deg	C ft BOOM	LOADED BOOM ANGLE deg	D ft BOOM	LOADED BOOM ANGLE deg	ft BOOM

Capacities

Series 571E2: 71 ft boom with 41 ft jib

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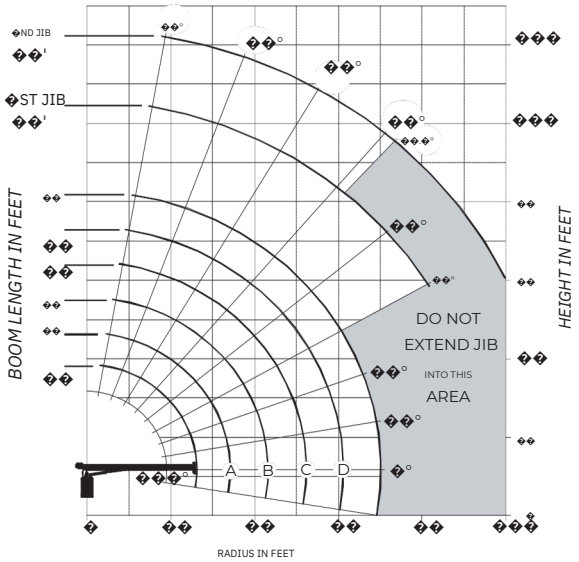

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Note:

1. Operate with jib by radius when main boom is fully extended. If necessary increase boom angle to maintain loaded radius.
2. Operate with jib by boom angle when main boom is not fully extended. Do not exceed rated jib capacities at any reduced boom lengths.

Load chart

LOAD RADIUS (FEET)	LOADED BOOM ANGLE	27 FT BOOM	LOADED BOOM ANGLE	A 35 FT	LOADED BOOM ANGLE	B 44 FT	LOADED BOOM ANGLE	C 53 FT	LOADED BOOM ANGLE	D 62 FT	LOADED BOOM	71 FT
10	80.0	60,000										
12	80.0	60,000	60,000	60,000								
14	78.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000				
16	76.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000				
18	74.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000		
20	72.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
22	70.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
24	68.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
26	66.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
28	64.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
30	62.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
32	60.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
34	58.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
36	56.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
38	54.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
40	52.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
42	50.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
44	48.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
46	46.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
48	44.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
50	42.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
52	40.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
54	38.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
56	36.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
58	34.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
60	32.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
62	30.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
64	28.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
66	26.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
68	24.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
70	22.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
72	20.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
74	18.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
76	16.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
78	14.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
80	12.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
82	10.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
84	8.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
86	6.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
88	4.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
90	2.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
92	0.0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000

LOAD RADIUS (FEET)	LOADED BOOM ANGLE	23 FT JIB	LOADED BOOM ANGLE	41 FT JIB
10	80.0	60,000		
12	80.0	60,000	80.0	60,000
14	78.0	60,000	80.0	60,000
16	76.0	60,000	80.0	60,000
18	74.0	60,000	80.0	60,000
20	72.0	60,000	80.0	60,000
22	70.0	60,000	80.0	60,000
24	68.0	60,000	80.0	60,000
26	66.0	60,000	80.0	60,000
28	64.0	60,000	80.0	60,000
30	62.0	60,000	80.0	60,000
32	60.0	60,000	80.0	60,000
34	58.0	60,000	80.0	60,000
36	56.0	60,000	80.0	60,000
38	54.0	60,000	80.0	60,000
40	52.0	60,000	80.0	60,000
42	50.0	60,000	80.0	60,000
44	48.0	60,000	80.0	60,000
46	46.0	60,000	80.0	60,000
48	44.0	60,000	80.0	60,000
50	42.0	60,000	80.0	60,000
52	40.0	60,000	80.0	60,000
54	38.0	60,000	80.0	60,000
56	36.0	60,000	80.0	60,000
58	34.0	60,000	80.0	60,000
60	32.0	60,000	80.0	60,000
62	30.0	60,000	80.0	60,000
64	28.0	60,000	80.0	60,000
66	26.0	60,000	80.0	60,000
68	24.0	60,000	80.0	60,000
70	22.0	60,000	80.0	60,000
72	20.0	60,000	80.0	60,000
74	18.0	60,000	80.0	60,000
76	16.0	60,000	80.0	60,000
78	14.0	60,000	80.0	60,000
80	12.0	60,000	80.0	60,000
82	10.0	60,000	80.0	60,000
84	8.0	60,000	80.0	60,000
86	6.0	60,000	80.0	60,000
88	4.0	60,000	80.0	60,000
90	2.0	60,000	80.0	60,000
92	0.0	60,000	80.0	60,000

NOTE:

1. All capacities are in pounds, angles in degrees, radius in feet.
2. Loaded boom angles are given as reference only.
3. Shaded areas are structurally limited capacities.

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

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Dimensions

SERIES

MAINTAIN CLEARANCE FOR R1144 (R45.00) TAILSWING

		G (WET)	DRY/WET	WITH OIL/WT
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	60 ft	[illegible]	[illegible]	[illegible]
[illegible]	71 ft	[illegible]	[illegible]	[illegible]

EXTENDED

***INCLUDES STANDARD 18 ft SUBBASE
***INCLUDES STANDARD 20 ft SUBBASE

1132 (44.50)

533 (21.00)

2937 (115.60)

2387 (94.00)

1833 (72.00)

GROUND PENETRATION

278 (11.00)

667 (26.25)

1256 (49.50)

1019 (40.00) 338 (13.25)

1218 (48.00)

278 (11.00)

406 (16.00)

548 (21.50

3086 (121.50)

461 (18.00)

1270 (50.00)

3365 (132.50)

71 0 BOOM: 23.1 RETRACTED, 16 EXTENDED [9.26 m, 21,844 lb]

80° G

3518 (138.50)

10° 959 (37.75) 2343 (92.25)

292 (11.50) 2156 (85.00)

1777 (70.00)

Dimensions are in mm (in) unless otherwise specified.

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Accessories

Radio Remote Controls –
Eliminate the handling and maintenance concerns that accompany cabled remotes. Operate to a range of about 250 feet (76 m), varying with conditions.

- RB4R (R4 functions)

Heavy-duty Personnel Basket –
1,200-lb. (544-kg) capacity steel basket with safety loops for two passengers. Gravity leveling 72- x 42-inch (183- x 107-cm) platform. Fast attachment and secure locking systems. Load chart must show 2,300 (1043 kg) minimum to operate this accessory.

- BSA-1
- BSA-R1 (provides rotation)

Hydraulic Oil Cooler –
Automatic, self-contained radiator system with electric fans, cools oil under continuous duty-cycle operations.

- OC

Single Front Outrigger –
Center mount front stabilizer with 25" vertical stroke.

- SFO

Burst-of-Speed Winch –
Provides faster winch payout and pickup of unloaded cable.

- BOS

Bulkhead –
Steel 30" solid wall bulkhead.

- BHSD

Spanish-Language Danger Decals, Control Knobs, and Operators' Manuals –

- SDD
- SOM

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Notes

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Chile

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France

Baudemont

Germany

Cergy

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