



Self-lubricating "Easy Glide" Wear

Pads

Canitowoc

Crane Group

Internal Anti-twoblock

\*Product may be shown with optional equipment.



### Why Buy a National Series 1400?

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\*Product may be shown with optional equipment.

- 33-ton (29.94-t) maximum capacity
- 171-ft (52.12-m) maximum vertical reach\*
- 135-ft (41.15-m) maximum vertical hydraulic reach\*
- Load Moment Indicator system (LMI)
- Proportional boom extension
- High performance planetary winch
- Heavy-duty triple pump hydraulics
- 99 Gallon(375L) hydraulic reservoir with 10 micron return filter.
- \* Maximum vertical reach is ground-level to boom tip height at maximum extension and angle with outriggers/stabilizers fully extended.
  - 1400



- **33-ton Rating** The new 1400 is a 33-ton machine, a 10% increase in capacity over the Series 1300.
- New 127-foot Five-section Boom The longest in its size range. The longer boom allows the operator to perform more lifts without the use of a jib, reducing setup time and improving efficiency. A 100-foot four-section boom or a 110-foot four-section boom is also available.
- **Overload Protection** All National cranes are equipped with overload protection: – Load Moment Indicator (LMI) standard on all series 1400 machines.
  - LMI display and CPU are weatherproof.
  - LCD display is visible in full or low light.
  - All crane load lifting values are displayed simultaneously.
- Self-lubricating "Easy glide" Boom Wear Pads The self-lubricating boom pads, standard on the 1400, reduce the conditions that cause boom chatter and vibration. The net result is smoother crane operation.
- Internal Anti-two-block Wire This exclusive design, standard on the Series 1400, routes the wiring through the inside of the boom. No more snagging the wire on obstructions.
- **"H"-style Outriggers** Two sets of "H"-style outriggers with 24' 6" (7.47 m) span, with removable ball and socket aluminum foot pads. Independent controls located on each side of the crane can be positioned at mid-span setting of 17' (5.18 m).
- **Continuous Rotation/Glide Swing** The series 1400 is supplied with continuous rotation standard, along with the "glide swing" feature allowing free swing during rotation and a manually applied foot brake. 375° non-continuous rotation is also available.
- Adjustable Swing Speed Standard on the 1400. A control knob located on the swing motor brake release valve can be easily adjusted to the crane operator's swing speed preference.
- **Oil Cooler** Radiator mounted at boom rest with electric fan is standard, with an option for a heavy-duty cooler for high duty-cycle applications.
- **Heavier Duty Torsion Box** The stronger standard torsion box improves rigidity, reduces truck frame flex and reduces the need for counterweight.
- **Speedy-reeve Boom Tip and Sheave Blocks** These standard features simplify rigging changes by decreasing the time needed to change line reeving.
- **Pre-painted Components** Painting crane components before assembly reduces the possibility of rust, improves serviceability and enhances the appearance of the machine.
- **Deluxe Operator's Cab** Rigid galvannealed steel structure, well insulated, with ample safety glass for operator visibility and comfort. Multi-position seat with arm rest controls, ventilation fans, diesel heater, wipers. Optional air-conditioning is available. Optional open-seat control station in lieu of enclosed cab is available.
- Improved Serviceability
  - Bearings on the boom extend and retract cables can be greased through access holes in the boom side plates.
  - Number of internal boom parts has been reduced, decreasing service time when rebuilding the machine.
- **New State-of-the-art Control Valve** Provides smoother operation. The new design eliminates parts, reducing repair costs and improving the machine's serviceability.
- National Crane Is the Market Leader National is number one in the production of commercial truck-mounted boom trucks. National has many programs and people directly and indirectly involved to provide our customers reliable products.
- National has the boom truck industry's leading test program. Every structural part of the crane is cycle tested up to 60,000 cycles at full capacity. In addition to cycle testing, each model is subjected to state-of-the-art strain gauge testing that measures metal deformation as small as one one-millionth of an inch. The net result is that any weak areas are caught in test, not on job sites where costly downtime occurs.
- All outrigger, lift and telescoping cylinders are manufactured by National Crane, so that the seals, packing glands, and end plates are traced for accurate shipment of replacement parts.
- Parts are available for all National Crane machines, even if they are 35 years old.
- National has a formalized quality program and is ISO 9001 approved.
- You Expect National Crane to be a Quality Product That Will Provide Years of Service, and So Do We.

# mounting configuration

The mounting configuration shown is based on the Series 1400 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. If bare truck weights are not met, counterweight will be required. The front bumper stabilizer (SFO) is required for all installations. Chassis must be equipped with a front frame suitable for SFO addition. Contact factory for complete chassis specifications.

Working area	
Gross Axle Weight Rating Front	20,000 lb (9072 kg)*
Gross Axle Weight Rating Rear	34,000 lb (15 422 kg)*
Gross Vehicle Weight Rating	54,000 lb (24 494 kg)*
Wheelbase	Minimum 258 in (655 cm)
Cab to Axle/trunnion (CA/CT)	Minimum 180 in (457 cm)
After Frame (AF)	
Frame Section Modulus (SM), front axle to end of afterframe, w/110,000 F	PSI (758 MPa)30 in <sup>3</sup> (492 cm <sup>3</sup> )
Stability Weight, Front	
Stability Weight, Rear	
Estimated Average Final Weight	51,880 lb (23 585 kg)***

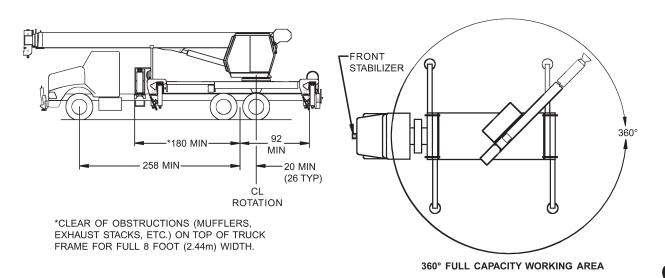
The diagram shows the 360° working area that can be achieved with the front stabilizer (standard on the Series 1400). The front stabilizer is required when extending the boom and lifting loads forward of the outriggers. A minimum of 10-in<sup>3</sup> (164 cm<sup>3</sup>) section modulus at 110,000 psi (759 MPa) is required from the rear of the front spring hanger forward to the front stabilizer. Integral front frame extension recommended.

\* Required to mount basic crane with 30-ft (9.15-m) jib option. Additional options or heavier bare chassis weights will require additional axles or a GVWR in excess of 54,000 lb (24 494 kg); 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, 100-gal (379-L) fuel tank and two workers (300 lb, 136kg) in cab.

Note: Chassis preferred with extended front frame rails for SFO addition.



## TRUCK REQUIREMENTS

#### 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 and energize-torun fuel solenoid for smooth crane operation. Electronic fuelinjected engines are required.
- All mounting data is based on a National Series 1400 with the standard subbase and an 85 percent 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.



# specifications

#### **Boom and Jib Combinations Data**

Available in three basic models.

Model 14100 — Equipped with a 30 ft 10 in to 100 ft (9.40-30.49 m) four-section boom. This model can be equipped with a 30 ft (9.15 m) single-section jib or a 30-54 ft (9.15-16.46 m) two-section jib. Maximum tip height w/30ft (9.15 m) jib is 137 ft (41.77 m), while maximum tip height w/30-54 ft (9.15-16.46 m) jib is 161 ft (49.08 m).

30'10" - 100' (9.40-30.49 m) four-section boom

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30'10	0" - 100' (9.40-30.49 m) four-section boom	14FJ30M	30 ft (9.15 m) single-section jib
30'10	0" - 100' (9.40-30.49 m) four-section boom	14FJ54M	30-54 ft (9.15-16.46 m) two-section jib

Model 14110 — Equipped with a 33 ft 4 in to 110 ft (10.16-33.53 m) four-section boom. This model can be equipped with a 30 ft (9.15 m) single section jib or a 30-54 ft (9.15-16.46 m) two-section jib. Maximum tip height w/30ft (9.15 m) jib is 147 ft (44.82 m), while maximum tip height w/54 ft (16.46 m) jib is 171 ft (52.13 m).

33'4" - 110' (10.16-33.53 m) four-section boom

33'4" - 110' (10.16-33.53 m) four-section boom	14FJ30M 30 ft (9.15 m) single-section jib
33'4" - 110' (10.16-33.53 m) four-section boom	14FJ54M 30-54 ft (9.15-16.46 m) two-section jib
	<b>D</b>

Model 14127 — Equipped with a 31 ft 7 in to 127 ft (9.63-38.72 m) five-section boom. This model can be equipped with a 30 ft (9.15 m) single-section jib. Maximum tip height w/ 30 ft (9.15 m) jib is 164 ft (50.00 m).

31'7" - 127' (9.63-38.72 m) five-section boom		
31'7" - 127' (9.63-38.72 m) five-section boom	14FJ30M	30 ft (9.15 m) single-section jib

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

### 1400 Winch Data

		1 Part Line	2 Part Line	3 Part Line	4 Part Line	5 Part Line	6 Part Line	7 Part Line	8 Part Line
east 3 wraps o at all times. 5/8" diameter cable with 45,4	f loadline rotation- 100 pounds	1990 - 19900 - 19900 - 19900 - 19900 - 1990 - 1990 - 1990 - 1990 - 1990	A A A	A CONTRACTOR	19	<u> </u>	to the second se		
MAXIMUM BOOM LENGTH AT MAXIMUM ELEVATION WITH RIGGING SHOWN WITH LOAD BLOCK AT GROUND LEVEL		110' boom w/ 54' jib	110'	83'	64'	52'	43'	36'	31'
Cable Supplied	Average Breaking Strength	Lift and Speed	Lift and Speed	Lift and Speed	Lift and Speed	Lift and Speed	Lift and Speed	Lift and Speed	Lift and Speed
5/8" Diameter Rotation Resistant	45,400 lb (20 593 kg)	9,000 lb (4082 kg) 170 fpm (52 m/min)	18,000 lb (8165 kg) 85 fpm (26 m/min)	27,000 lb (12 247 kg) 57 fpm (17 m/min)	36,000 lb (16 329 kg) 43 fpm (13 m/min)	45,000 lb (20 412 kg 34 fpm (10 m/min)	) 54,000 lb (24 494 kg) 28 fpm (9 m/min)	63,000 lb (28 576 kg) 24 fpm (7 m/min)	66,000 lb (29 937 kg 21 fpm (6 m/min)
5/8" Diameter Rotation Resistant	45,400 lb (20 593 kg)	4,400 lb (1996 kg) 340 fpm (104 m/min)	8,800 lb (3992 kg) 170 fpm (52 m/min)	13,200 lb (5987 kg) 113 fpm (34 m/min)	17,600 lb (7983 kg) 85 fpm (26 m/min)	22,000 lb (9979 kg) 68 fpm (21 m/min)	26,400 lb (11 975 kg) 57 fpm (17 m/min)	30,800 lb (13 971 kg) 49 fpm (15 m/min)	35,200 lb (15 967 kg 43 fpm (13 m/min)
ers. Winch line sp	eed would deci NSI 5 to 1 cabl	ease on the first, second	l and third layers. Winch e shown below:	increase on the first, se I line pulls may be limite	cond d	Do	ix. Boom Head wnhaul Weight	Rating 5 Ton (4.53t) 15 Ton (13.60t)	Weight 100 lb (45 kg) 180 lb (82 kg) 375 lb (170 kg)
	vhen extendin ast 3 wraps o t all times. 5/8" diameter, stable with 452, strength on thi M LENGTH AT M TH RIGGING SH OCK AT GROUN CK AT GROUN CK AT GROUN CK AT GROUN CK AT GROUN CK AT GROUN Stable S	5/8° diameter rotation- table with 45,400 pounds trength on this machine. MLENGTH AT MAXIMUM TH RIGGING SHOWN OCK AT GROUND LEVEL Cable Supplied Strength 5/8° Diameter Rotation Resistant Station Resistant 25/8° Diameter Rotation Resistant 45,400 lb (20 593 kg) s and speeds in this chart are st rs. Winch line speed would decr capacity or the ANSI 5 to 1 cable	when extending boom.         ast 3 wraps of loadline         tall times.         %2" diameter rotation- rable with 45,400 pounds         trength on this machine.         MLENGTH AT MAXIMUM TH RIGGING SHOWN         CCK AT GROUND LEVEL         DOCK AT GROUND LEVEL         Diameter Rotation         Resistant         20,593 kg)         5/8" Diameter Rotation         Rotation         45,400 lb         9,000 lb (4082 kg)         170 fpm (52 m/min)         5/8" Diameter Rotation         Rotation         45,400 lb         20,593 kg)         340 fpm (104 m/min)         s and speeds in this chart are shown on the fourth layer. rsr. Winch line speed would decrease on the first, second capacity or the ANSI 5 to 1 cable safety factor. These and the fourth layer.	when extending boom.         ast 3 wraps of loadline         t all times.         /\$" diameter rotation-         rable with 45,400 pounds         itrength on this machine.         MLENGTH AT MAXIMUM         TH RIGGING SHOWN         OCK AT GROUND LEVEL         boom w/ 54' jib         Cable       Breaking         Lift and       Lift and         Supplied       Strength         Speed       Speed         5/8' Diameter       45,400 lb         Rotation       45,400 lb         Resistant       (20 593 kg)         5/8' Diameter       45,400 lb         Rotation       45,400 lb         45,400 lb       340 fpm (104 m/min)         5/8' Diameter       45,400 lb         Resistant       (20 593 kg)         340 fpm (104 m/min)       170 fpm (52 m/min)         s and speeds in this chart are shown on the fourth layer. Winch line pulls would are:         stand speeds in this chart are shown on the fourth layer. Winch line pulls would capacity or the ANSI 5 to 1 cable safety factor. These are shown below:	when extending boom.         ast 3 wraps of loadline         t all times.         \$2'' diameter rotation- rable with 45,400 pounds trength on this machine.         MLENGTH AT MAXIMUM TH RIGGING SHOWN         CCK AT GROUND LEVEL         boom w/ 54' jib         CCK AT GROUND LEVEL         boom w/ 54' jib         CCK AT GROUND LEVEL         boom w/ 54' jib         Resistant         (20 593 kg)         170 fpm (52 m/min)         18,000 lb (8165 kg)         27,000 lb (12 247 kg)         Resistant         (20 593 kg)         340 fpm (104 m/min)         170 fpm (52 m/min)         13,200 lb (5987 kg)         13,200 lb (5987 kg)         130 fpm (104 m/min)         113 fpm (34 m/min)         s and speeds in this chart are shown on the fourth layer. Winch line pulls would increase on the first, sec ares. Winch line speed would decrease on the first, second and third layers. Winch line pulls may be limite capacity or the ANSI 5 to 1 cable safety factor. These are shown below:	when extending boom.         ast 3 wraps of loadline t all times.         sat 3 wraps of loadline t all times.         30° diameter rotation-rable with 45,400 pounds trength on this machine.         MLENGTH AT MAXIMUM         TH RIGGING SHOWN         OCK AT GROUND LEVEL         boom w/ 54' jib         Cable       Average         Breaking       Lift and         Supplied       Speed         Speed       Speed         Speed       Speed         Speed       Speed         Speed       Speed         Strength       Speed         Speed       Speed         Strength       Speed         Speed       Speed         Strength       Speed         Strength       Speed         Speed       Speed         Strength       Speed         Strength       Speed         Speed       Speed         Strength       Speed         Speed       Speed         Strength       Speed         Speed       Speed         Speed       Speed         Speed       Speed         Speed       Speed         Stand	when extending boom.       ast 3 wraps of loadline         ast 3 wraps of loadline       it litimes.         ast 3 wraps of loadline       it litimes.         ys" diameter rotation- rable with 45,400 pounds trength on this machine.       iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	when extending boom.       ast 3 wraps of loadline       i<	Viene extending boom.       If are the line         ast 3 wraps of loadline tall times.       Sif' diameter rotation-able with 45,400 pounds thrength on this machine.       If and the line       If and the line



Standard planetary

4,400 lb. (1996 kg) (high speed) 9,000 lb. (4082 kg) (low speed)

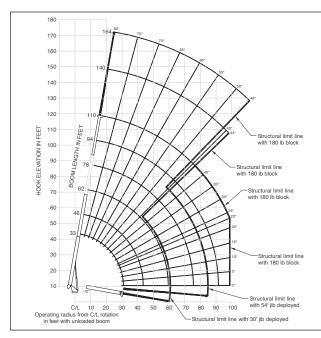
9,080 lb. (4119 kg)

Block Type	Rating	Weight
Aux. Boom Head		100 lb (45 kg)
Downhaul Weight	5 Ton (4.53t)	180 lb (82 kg)
1 Sheave Block	15 Ton (13.60t)	375 lb (170 kg)
2 Sheave Block	25 Ton (22.67t)	640 lb (290 kg)
3 Sheave Block	35 Ton (31.74t)	870 lb (395 kg)
4 Sheave Block	36 Ton (32.65)	970 lb (440 kg)



#### Load Rating Chart: Series 14110 with 30'-54' Jib / Fullspan Outrigger 24'6"

Other Series 1400 Load Rating Charts are available. National will send you a chart on request – or you may secure needed load rating information through your nearest National dealer.



#### CAUTION:

 Do not operate crane booms, jib extensions, any accessories or loads within 10 ft (3m) of live power lines or other conductors of electricity.

capacities

- Jib and boom capacities shown are maximum for each section.
- · Do not exceed capacities at reduced radii.
- Load ratings shown on the appropriate charts are maximum allowable loads with the crane mounted on a factoryapproved truck and all outriggers at either full span or at mid span range and set on a firm level surface so that the crane is level and all tires are suspended.
- 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.

SERIES 14110 WITH 30'-54' JIB FULL SPAN OUTRIGGER 24'6"

#### NOTE:

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

### LOADLINE EQUIPMENT DEDUCT (lb.)

Downhaul weight	180
One sheave block	375
Two sheave block	640
Three sheave block	870
Four sheave block	970

### Load Rating: Series 14110 with 30'-54' Jib / Fullspan Outrigger 24'6"

LOAD RADIUS (ft)	LOADED BOOM ANGLE	33 ft BOOM (lb)	LOADED BOOM ANGLE	A 46 ft BOOM (Ib)	LOADED BOOM ANGLE	B 62 ft BOOM (Ib)	LOADED BOOM ANGLE	C 78 ft BOOM (Ib)	LOADED BOOM ANGLE	D 94 ft BOOM (Ib)	LOADED BOOM ANGLE	110 ft BOOM (Ib)
6	76.7	66,000										
8	72.8	51,700										
10	68.9	42,200	76	37,000								
12	64.9	38,400	73.4	33,400	78.2	26,900						
15	58.6	32,200	69.3	28,000	75.6	24,900	79.4	22,800				
20	48.5	23,900	62.2	21,650	70.2	19,300	74.8	17,900	78.2	14,100		
25	33.3	17,600	54.4	17,800	64.9	16,050	71	14,550	75.1	12,400	77.4	9,200
30			46.2	15,100	59.8	13,600	67	12,300	71.9	11,200	75.1	8,700
35			36.3	12,750	54	12,050	63	10,600	68.5	9,750	72.5	8,000
40			22.9	10,100	47.8	10,450	58.7	9,300	65.5	8,550	69.6	7,200
45					41.6	8,750	54.5	7,800	61.9	7,350	67	6,400
50					33.9	7,200	49.7	6,900	58.2	6,250	63.9	5,700
55					23.6	5,600	44.5	6,000	54.4	5,500	60.8	4,700
60							38.6	4,900	50.5	4,800	57.6	4,000
65							31.9	4,000	46.3	4,200	54.4	3,400
70							23.3	3,250	41.7	3,450	51	2,700
75							8.7	2,500	36.6	2,750	47.4	2,300
80									30.7	2,250	43.6	1,800
85									23.5	1,750	39.3	1,200
90									12.5	1,250	34.7	1,000
95											29.6	800
100											23.3	600
	0	12,000	0	7,500	0	4,500	0	2,100	0	1,000		

LOAD RADIUS (ft)	LOADED BOOM ANGLE	30 ft JIB (lb)	LOADED BOOM ANGLE	54 ft JIB (Ib)
30	79.1	5,050		
35	77.4	5,000	79.5	2,650
40	75.6	4,950	78.1	2,600
45	74.7	4,700	77.6	2,500
50	71.6	4,300	75	2,400
55	69.5	4,000	73.2	2,300
60	67.3	3,700	71.4	2,200
65	65.1	3,400	69.6	2,100
70	62.9	3,150	67.8	2,000
75	60.5	2,850	66	1,850
80	58	2,500	64.1	1,750
85	55.5	2,000	62.2	1,600
90	52.8	1,600	60.2	1,500
95	50	1,200	58	1,400
100	47.1	850	55.8	1,300
105	43.9	500	53.6	1,200
110			51.2	1,000
115			48.7	750
120			46.1	500

\*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.



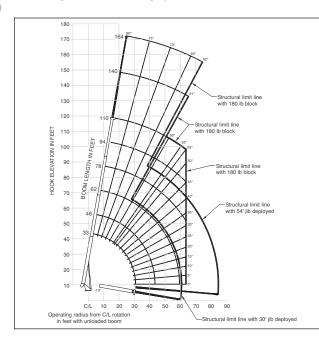
NATIONAL CRANE

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# capacities

#### Load Rating Chart: Series 14110 with 30'-54' Jib / Midspan Outrigger 17'

Other Series 1400 Load Rating Charts are available. National will send you a chart on request – or you may secure needed load rating information through your nearest National dealer.



#### CAUTION:

- Do not operate crane booms, jib extensions, any accessories or loads within 10 ft (3m) 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 and the outrigger lock pins engaged 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.

SERIES 14110 WITH
30'-54' JIB
MIDSPAN OUTRIGGER 17'

LOADLINE EQUIPMENT DEDUCT (lb.)	
Downhaul weight One sheave block Two sheave block Three sheave block Four sheave block	375 640 870

### Load Rating Chart: Series 14110 with 30'-54' Jib / Midspan Outrigger 17'

33 TO 110 FOOT BOOM RATED LOADS WITHOUT JIB																	
LOAD RADIUS	LOADED BOOM	33 ft BOOM (Ib)	LOADED BOOM ANGLE	A 46 ft BOOM (Ib)	LOADED BOOM ANGLE	B 62 ft BOOM (Ib)	LOADED BOOM ANGLE	C 78 ft BOOM (Ib)	LOADED BOOM ANGLE	D 94 ft BOOM (Ib)	LOADED BOOM ANGLE	110 ft BOOM (Ib)	30 TO 54 FOOT JIB RATED LOADS				
(ft)	ANGLE												LOAD RADIUS	LOADED BOOM	30 ft JIB	LOADED BOOM	54 ft JIB
6	76.7	66,000											(ft)	ANGLE	(lb)	ANGLE	(lb)
8	72.8	51,700		07.000									30	79.1	5.050		
10	68.9	42,200	76	37,000									35	77.4	5.000	79.5	2.650
12	64.9	38,400	73.4	33,400	78.2	26,900	70.4	00.000					40	75.6	4.950	78.1	2.600
15	58.6 46.9	32,200	69.3	28,000	75.6	24,900	79.4	22,800	70.0	44.400			45	73.4	4,300	77.6	2,500
20		18,500	62.2	21,650 14.000	70.2	19,300	74.8	17,900	78.2 75.1	14,100	77.4	0.000	50	70.9	3,250	75	2,400
25	32.3	11,000	54.4 45.9	9.500	64.7	12,800	67	13,200	75.1	12,400 9,200	77.4	9,200	55	68.4	2,400	73.2	2,300
30 35			45.9 36.9	7.000	59.8 54	6,200	62.8	9,100 6,400	68.2	9,200	75.1	8,700 7.000	60	65.9	1,750	71.4	2,200
40			23.9	4.800	54 47.8	4.500	58.2	4,600	64.7	5.000	69	5.200	65	63.4	1,150	69	1,900
			23.9	4,800		/	58.2	4,600	61	- /	65.9		70	60.8	700	66.7	1,450
45					40.9	3,200	48.8	0,.00	57.4	3,600	62.9	3,900	75			64.5	1,050
50 55					33.1 22.8	2,100	40.0	2,500	57.4	2,600	59.9	2,800	80			62.1	650
60					22.8	1,300	43.5	1,700	49.4	1,900	59.9	2,000	85				
65							31.7	600	49.4	750	53.3	900	90				
70							31	600	45.1	750	00.0	900	95				
70													100				
80													105				
85													110				
90													115				
90													120				
100																	
100																	
	0	7,000	0	3,600	0	500											



\*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.



## 1,200-lb. (544-kg) capacity steel basket with safety loops for four passengers. Gravity

with swing lock and full body harness.

Heavy-duty Personnel Basket -

Radio Remote Controls -

**One-Person Basket** –

leveling 72- x 42-inch (183- x 107-cm) platform. Fast attachment and secure locking systems. Load chart must show 2,300 lb. (1043 kg) minimum to operate this accessory. • Model BSA-R1 (provides rotation)

#### Air Conditioning –

Hydraulically driven air conditioning compressor with in-cab cool air outlets. External condenser on side of turret. Requires 130+ amp chassis alternator.

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

Strong but lightweight steel basket with 300-lb. (139-kg) capacity, gravity hung

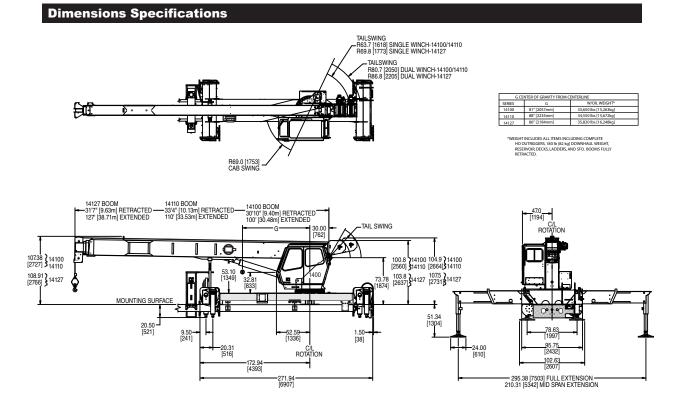
Model NB4R

· Model B1-S

· Model 2B1-S (for dual locking baskets)

Model BSA-1

· Model AC



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.



# accessories



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