

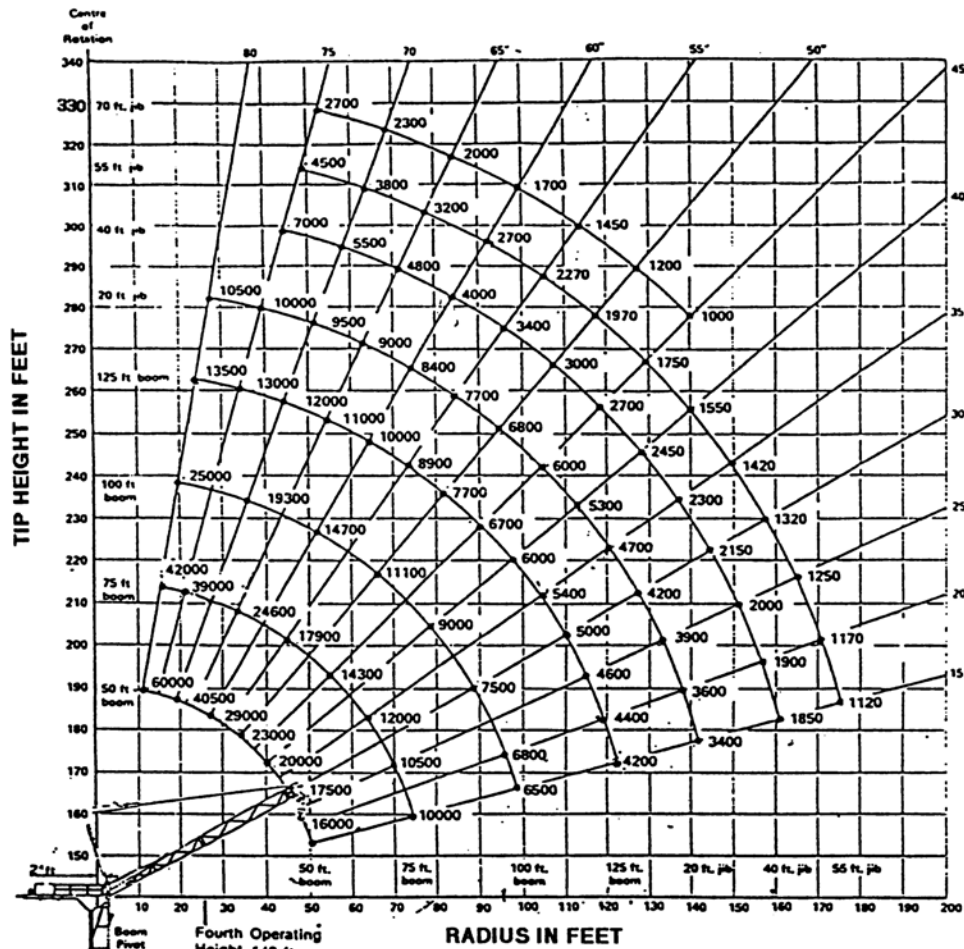


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CAPACITÉ

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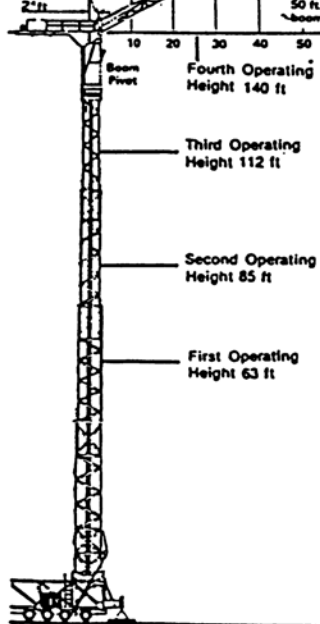
LATTICE BOOM CAPACITIES IN POUNDS



NOTES TO LIFTING CAPACITIES

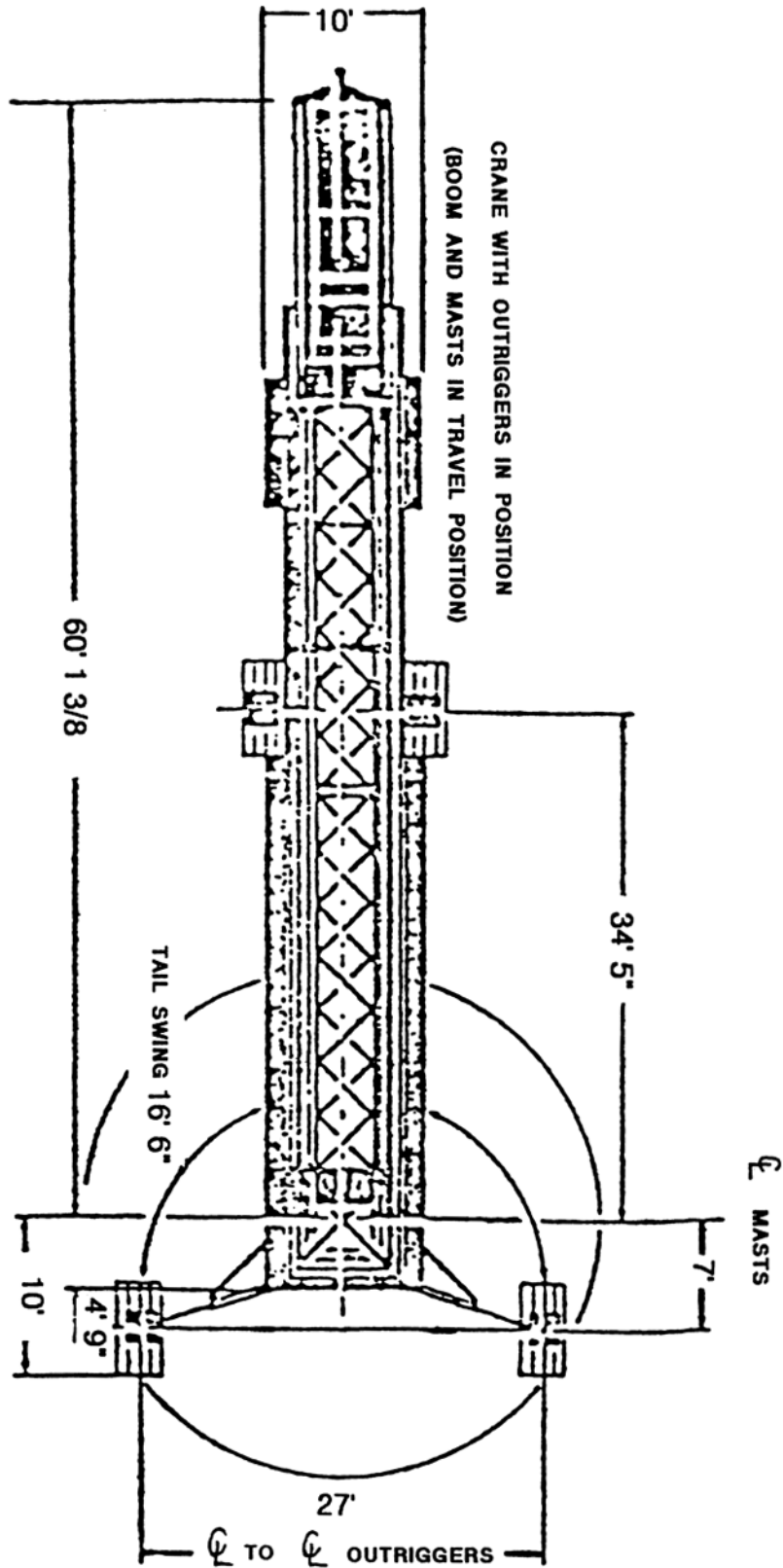
- 1 50 FOOT BOOM MUST USE BULLNOSE END
- 2 BULLNOSE MAY BE LEFT IN PLACE FOR 75 AND 100 FOOT LENGTHS
IT INCREASES BOOM LENGTH BY 1.5 FEET BUT REDUCES LIFTING CAPACITY BY 600 LBS
- 3 BULLNOSE MUST NOT BE USED WITH 125 FOOT BOOM.

125 FOOT LATTICE BOOM

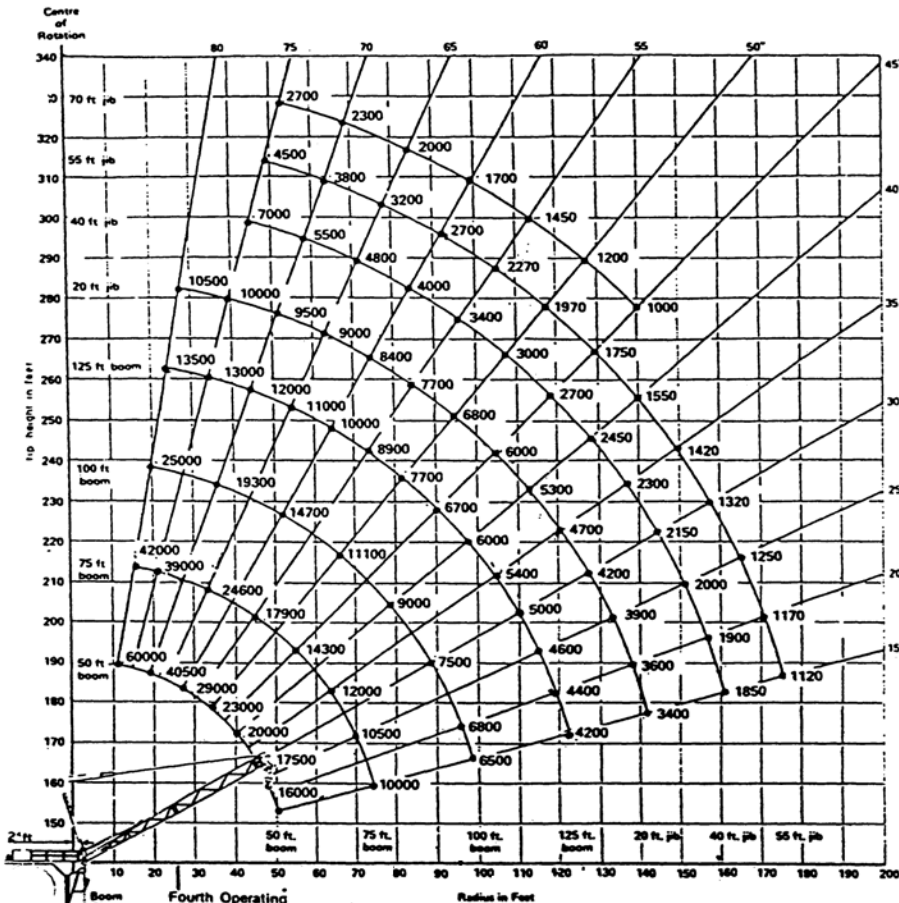


- MAXIMUM TIP HEIGHT FT WITH 70 FT. JIB
- MAXIMUM REACH 175 FT. WITH 55 FT. JIB
- CAP. 60,000 LBS. AT TIP HEIGHT OF 188 FT. 6000 LBS. 240 FT. UP AND 100 FT. OUT
- LATTICE BOOM INTERCHANGEABLE WITH HYDRAULIC BOOM
- TRAVELS SELF CONTAINED WITH 100 FT. OF BOOM AND 40 FT. OF JIB
- HIGHWAY SPEED OF MPH
- FAST ERECTION 188 FT. TIP HEIGHT 16 MINUTES AFTER OUTRIGGERS ARE SET
- POWER LIFTING TO 80°
- COMBINED SECTIONS GIVE BOOM LENGTHS OF 50, 75, 100 AND 125 FT
- SETS UP 10 FT. FROM STRUCTURE
- ANTI TWO BLOCK DEVICE
- LOAD MOMENT SYSTEM
- OPERATION FROM CAB AT TOP OF MAST OR FROM REMOTE CONTROL CONSOLE
- 360° SWING WITH MINIMAL TAILSWING INTERFERENCE
- 2 SPEED HOIST
- SINGLE LINE PULL OF 15,000 LBS

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GCI 5400 SERIES LATTICE BOOM



NOTES TO LIFTING CAPACITIES

- 1 The Crane must not be operated and mast must be retracted in winds over 45 m p h (72 Km/h)
- 2 Rated lifting capacities are based on freely suspended loads. They are the maximum covered by the Manufacturer's Warranty with the machine leveled and standing on a firm supporting surface. Ratings are based on rear outriggers being extended to their maximum positions with safety screws turned down. Mast cylinder pressure must be maintained at a minimum of 1800 p s i, (122.5 bar) with the exception of first operating height.
- 3 Practical working loads for each particular job shall be established by the user depending on operating conditions; including the supporting surface and other factors affecting stability, hazardous surroundings, experience of personnel handling of loads etc.
- 4 Operating radius is the horizontal distance from the axis of rotation to the centerline of the hoist line or tackle with loads applied.
- 5 The jib may be used for single line lifting crane service only.
- 6 For concrete bucket operation, weight of bucket and load must not exceed 90% of rated lifting capacities as indicated by warning light.
- 7 Loads over 7500 lbs (3400 Kg) must be handled only in low speed.
- 8 Load block must be centred on boom for multiple reeving.
- 9 Always lift load clear of ground with hoist, as booming-up is not protected against overloading.
- 10 Load Moment Indicator and travel limit switches are to be used as an assistance to the operator and are not to be considered as a safety protection.

Radius in Feet	50 ft. Boom with Hammerhead	75 ft. Boom (72.5)	100 ft. Boom (97.5)	125 ft. Boom (122.5)
12.5	60,000 (80°)			
15	56,400 (77°)	42,000 (80°)		
20	41,850 (71°)	39,000 (76°)	25,000 (79°)	
25	33,150 (64°)	32,700 (72°)	24,000 (76°)	13,500 (80°)
30	27,300 (57°)	26,900 (67°)	22,500 (73°)	13,200 (77°)
35	23,150 (50°)	22,800 (63°)	20,000 (70°)	12,900 (75°)
40	20,000 (41°)	19,700 (58°)	18,000 (67°)	12,400 (72°)
45	17,600 (31°)	17,300 (54°)	16,000 (64°)	12,000 (70°)
50	15,650 (14°)	15,350 (49°)	15,000 (61°)	11,400 (67°)
55		13,800 (44°)	13,500 (58°)	10,800 (65°)
60		12,500 (38°)	12,150 (54°)	10,400 (62°)
65		11,400 (31°)	11,050 (50°)	10,000 (60°)
70		10,400 (23°)	10,100 (46°)	9,300 (57°)
75		9,700 (09°)	9,250 (42°)	8,600 (54°)
80			8,550 (38°)	7,800 (51°)
85			7,900 (33°)	7,150 (48°)
90			7,350 (27°)	6,500 (45°)
95			6,850 (19°)	6,200 (41°)
100			6,400 (07°)	5,700 (38°)
105				5,100 (34°)
110				4,800 (29°)
115				4,500 (24°)
120				4,300 (17°)
122.5				4,200 (15°)

NOTES TO JIB CAPACITIES

- 1 Side loads must not exceed 2%
- 2 For 20 ft (6 m) jib, capacities in shaded area have no overload protection.
- 3 70 ft (21 m) jib not to be used when wind exceeds 35 mph (56 Km/h)
- 4 All notes are to be applied in addition to and/or in conjunction with standard notes to lifting capacities.

WEIGHT REDUCTION FOR LOAD HANDLING DEVICES

- 10 Ft. JIB with 100 Ft. Boom— Erected 1,000 lbs
- 55 Ft JIB erected 1,300 lbs
- 70 Ft JIB erected 700 lbs
- BLOCKS— 30 Ton, 2 Sheave 600 lbs
- 12 Ton, Headache Ball 274 lbs

NOTE: All load handling devices and boom attachments are considered part of the load and suitable allowances must be made for their combined weight.

All capacities are based on structural strength and do not exceed 66 2/3% of the tipping load, in accordance with SAE J-765 and SAE J-987.

Boom Angle	20 ft. jib		40 ft. jib		55 ft. jib		70 ft. jib	
	Capacity	Radius	Capacity	Radius	Capacity	Radius	Capacity	Radius
80°	10,500	27'						
75°	10,000	39'	7,000	44'	4,500	58'	2,700	52'
70°	9,500	51'	5,500	58'	3,800	63'	2,300	68'
65°	9,000	63'	4,800	71'	3,200	77'	2,000	84'
60°	8,400	74'	4,000	83'	2,700	91'	1,700	99'
55°	7,700	84'	3,400	95'	2,270	105'	1,450	113'
50°	6,800	94'	3,000	108'	1,970	118'	1,200	128'
45°	6,000	103'	2,700	118'	1,750	128'	1,000	139'
40°	5,300	112'	2,450	128'	1,550	139'		
35°	4,700	119'	2,300	135'	1,420	148'		
30°	4,200	126'	2,150	142'	1,320	157'		
25°	3,900	132'	2,000	149'	1,250	163'		
20°	3,600	136'	1,900	155'	1,170	169'		
15°	3,400	140'	1,850	159'	1,120	174'		

LINE PULL & REEVING

CABLE SPECS — 3/4 in Trulay 18 x 7, IPS, IWRC

PERMISSIBLE LINE PULL — 15,000 lbs

For multiple part reeving, use one line for each 15,000 lbs of load or portion thereof.

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REAR OUTRIGGER LOADING (in Pounds)

LIFTED LOAD	STATIC CONDITION			OPERATION WITH 35 M P.H. WINDS			
	Lifted Load	Total Load	4 Timbers Per Sq. Ft.	4 Timbers & Plywood Per Sq. Ft.	Total Load	4 Timbers Per Sq Ft	4 Timbers & Plywood Per Sq. Ft.
Mast Horizontal Travel Position	17,000		900	550	17,000	900	550
Mast Vertical Balanced	44,000		2,350	1,400	52,000	2,800	1,650
4,000	68,000		3,650	2,100	84,000	4,500	2,600
10,000	70,000		3,750	2,200	85,000	4,600	2,650
20,000	74,000		4,000	2,300	87,000	4,700	2,700
30,000	78,000		4,200	2,450	90,000	4,850	2,800
40,000	83,000		4,500	2,600	93,000	5,000	2,900
60,000	91,000		4,900	2,850	99,000	5,300	3,100

Timbers are 8 in x 8 in x 7 ft -0 in Lg: Good quality Douglas Fir with allowance for a few knots and minor splits
Plywood sheets are 3/4 in x 4 ft x 8 ft with Timbers placed on top for good load distribution



SET UP AND TAKE DOWN PROCEDURES

FRONT OUTRIGGER LOADING (in Pounds)

LIFTED LOAD	STATIC CONDITION			OPERATION WITH 35 M P H WINDS			
	Lifted Load	Total Load	3 Timbers Per Sq. Ft	Timbers & Plywood Per Sq. Ft	Total Load	3 Timbers Per Sq Ft	Timbers & Plywood Per Sq Ft.
Mast Horizontal Travel Position	45,000		3,200	1,400	52,000	3,700	1,600
Mast Vertical Balanced	16,000		1,200	500	21,000	1,500	650
4,000	24,000		1,700	750	32,000	2,300	1,000
10,000	25,000		1,800	800	33,000	2,350	1,000
20,000	26,000		1,850	800	34,000	2,400	1,050
30,000	27,000		1,900	850	34,000	2,400	1,050
40,000	28,000		2,000	900	35,000	2,500	1,100
60,000	29,000		2,100	900	35,000	2,500	1,100

Timbers are 8 in. x 8 in. x 7 ft.-0 in. Lg. Good quality Douglas Fir with allowance for a few knots and minor splits.
Plywood sheets are 3/4 in. x 4 ft x 8 ft. with Timbers placed on top for good load distribution



SET UP AND TAKE DOWN PROCEDURES