



LOAD CHARTS

for Use With

WRITTEN EXAMINATIONS



American 7250

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Make sure that you are fully trained on, and review the entire manual for, every crane you operate.

This load chart has been adapted from the original manufacturer's load chart for use in the NCCER Mobile Crane Certification Examination. It is not to be used for calculating loads, planning lifts, or for any other purpose.

Boom Length	Radius Feet	Boom Angle Degrees	Crawlers Retracted	Crawlers Extended
40'	12	78		120,000
	15	74		105,150
	20	66	*49,600	66,850
	25	58	*37,100	48,700
	30	49	*29,450	38,100
	35	39	*24,300	31,150
40	25	*20,600	*26,250	
50'	12	81		120,000
	15	77		104,850
	20	71	*49,300	66,550
	25	65	*36,800	48,400
	30	58	*29,150	37,800
	35	51	*24,000	30,850
40	45	*20,300	25,950	
50	22	15,350	*19,650	
60'	14	81		109,500
	15	79		104,550
	20	74	*49,000	66,250
	25	69	*36,500	48,100
	30	64	*28,850	37,500
	35	59	*23,700	30,550
40	53	20,000	25,650	
50	39	15,050	19,250	
60	20	11,850	*15,150	
70'	15	81	*72,950	104,250
	20	77	*48,700	65,950
	25	73	*36,200	47,800
	30	68	*28,550	37,200
	35	63	23,400	30,250
	40	59	19,700	25,350
50	49	14,750	18,950	
60	37	11,550	14,850	
70	19	9,350	*12,050	
80'	17	81	*62,800	88,500
	20	78	*48,400	65,650
	25	75	*35,900	47,500
	30	71	*28,250	36,900
	35	67	23,100	29,950
	40	63	19,400	25,050
50	55	14,450	18,650	
60	45	11,250	14,550	
70	34	9,050	11,750	
80	17	7,400	*9,750	
90'	19	81	*52,800	73,000
	20	80	*48,100	65,350
	25	77	*35,600	47,200
	30	73	27,950	36,600
	35	70	22,800	29,650
	40	66	19,100	24,750
50	59	14,150	18,350	
60	52	10,950	14,250	
70	43	8,750	11,450	
80	32	7,100	9,450	
90	17	5,850	*7,900	
100'	25	78	*35,300	46,900
	30	75	27,650	36,300
	35	72	22,500	29,350
	40	69	18,800	24,450
	50	63	13,850	18,050
	60	56	10,650	13,950
70	49	8,450	11,150	
80	41	6,800	9,150	
90	31	5,550	7,600	
100	17	4,550	*6,350	
*110'	22	81	42,500	57,100
	25	79	35,000	46,600
	30	76	27,350	36,000
	35	74	22,200	29,050

Boom Length	Radius Feet	Boom Angle Degrees	Crawlers Retracted	Crawlers Extended
*110'	40	71	18,500	24,150
	50	65	13,550	17,750
	60	59	10,350	13,650
	70	53	8,150	10,850
	80	46	6,500	8,850
	90	39	5,250	7,300
	100	30	4,250	6,050
	110	15	3,450	5,050
*120'	23	81	39,500	53,600
	25	80	34,700	46,300
	30	77	27,050	35,700
	35	76	21,900	28,750
	40	73	18,200	23,850
	50	68	13,250	17,450
	60	62	10,050	13,350
	70	57	7,850	10,550
*130'	80	51	6,200	8,550
	90	44	4,950	7,000
	100	37	3,950	5,750
	110	28	3,150	4,750
	120	15	2,500	4,700
	25	81	34,400	46,000
	30	78	26,750	35,400
	35	76	21,600	28,450
*140'	40	74	17,900	23,550
	50	69	12,950	17,150
	60	65	9,750	13,050
	70	60	7,550	10,250
	80	54	5,900	8,250
	90	49	4,650	6,700
	100	42	3,650	5,450
	110	36	2,850	4,450
120	26	2,200	4,400	
*150'	26	81	32,600	43,000
	30	79	26,450	35,100
	35	77	21,300	28,150
	40	75	17,600	23,250
	50	71	12,650	16,850
	60	66	9,450	12,750
	70	62	7,250	9,950
	80	57	5,600	7,950
*160'	90	52	4,350	6,400
	100	47	3,350	5,150
	110	41	2,550	4,150
	120	34	1,900	4,100
	28	81	29,200	39,000
	30	80	26,150	34,800
	35	78	21,000	27,850
	40	76	17,300	22,950
*170'	50	72	12,350	16,550
	60	68	9,150	12,450
	70	64	6,950	9,650
	80	60	5,300	7,650
	90	55	4,050	6,100
	100	50	3,050	4,850
	110	45	2,250	3,850
	120	39	1,600	3,800
*180'	30	81	25,850	34,500
	35	79	20,700	27,550
	40	77	17,000	22,650
	50	73	12,050	16,250
	60	70	8,850	12,150
	70	66	6,650	9,350
	80	62	5,000	7,350
	90	57	3,750	5,800
*190'	100	53	2,750	4,550
	110	48	1,950	3,550
	120	44	1,300	3,500

For No. 6 Jib Ratings see sheet 454.03 or 14.03
For No. 7HL Jib Ratings see sheet 454.04 or 14.04
For No. 9 Jib Ratings see sheet 454.06 or 14.06

Load ratings do not exceed 75% of tipping with crane standing level on firm, uniformly supporting surface. Safe loads depend on ground conditions, boom length, radius of operation, and proper handling, all of which must be taken into consideration by user.

"Radius in Feet" is the horizontal distance at ground level from center pin to a vertical line through the center of gravity of the suspended load. Blocks, slings, buckets and other load carrying devices are considered part of the load.

Ratings marked (*) require retractable "A" Frame fully raised.

Booms 110 ft. long or over require retractable "A" Frame fully raised (*). Operation of crane with retractable "A" Frame in any position other than fully raised or fully retracted is not permissible.

Ratings indicated in italics represent boom position which, without load, provide less than standard backward stability.

"These ratings apply for lifting crane service only." For duty cycle service (dragline, clamshell, grapple, magnet, etc.) the counterweight must be reduced to 19,000 lbs. by removing inserts F1, F2 and G. See separate chart for "Duty Cycle Ratings. Failure to reduce counterweight for duty cycle operation will void the warranty of this machine."

JIB RATINGS

JIB OFFSET "A"

MAXIMUM JIB RATING IN POUNDS

No. 9 Jib Ratings				
	20 ft. Jib	30 ft. Jib	40 ft. Jib	50 ft. Jib
0 to 6 ft. -----	18,000	18,000	14,500	10,500
9 ft. -----	18,000	17,300	14,100	10,250
12 ft. -----	18,000	15,300	12,400	10,000
15 ft. -----	-----	13,500	10,750	8,800
18 ft. -----	-----	-----	10,000	8,150
21 ft. -----	-----	-----	-----	7,750
Effective Jib Weight at Boom Point	1,550	2,100	2,800	3,600

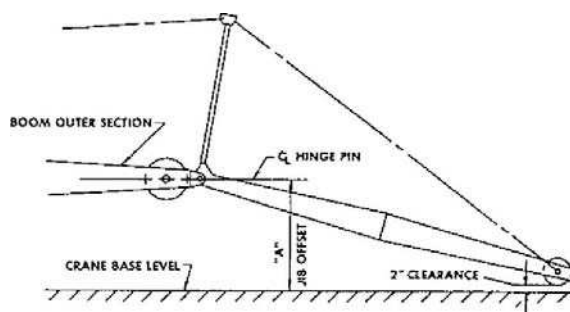
No. 9 Jib ratings are based on 100 ft. minimum boom length with angle chord boom or tubular chord boom with hammerhead and 130 ft. minimum boom length with tubular chord boom with tapered tip.

No. 15 Jib Ratings				
	20 ft. Jib	30 ft. Jib	40 ft. Jib	50 ft. Jib
0 to 6 ft. -----	30,000	30,000	21,000	16,500
9 ft. -----	30,000	28,250	21,000	16,500
12 ft. -----	30,000	23,400	17,500	14,000
15 ft. -----	-----	18,500	15,000	12,000
18 ft. -----	-----	-----	13,250	11,000
21 ft. -----	-----	-----	-----	10,000
Effective Jib Weight at Boom Point	1,900	2,250	2,800	3,600

No. 15 Jib ratings are based on 120 ft. minimum boom length with angle chord boom or tubular chord boom with hammerhead and 150 ft. minimum boom length with tubular chord boom with tapered tip.

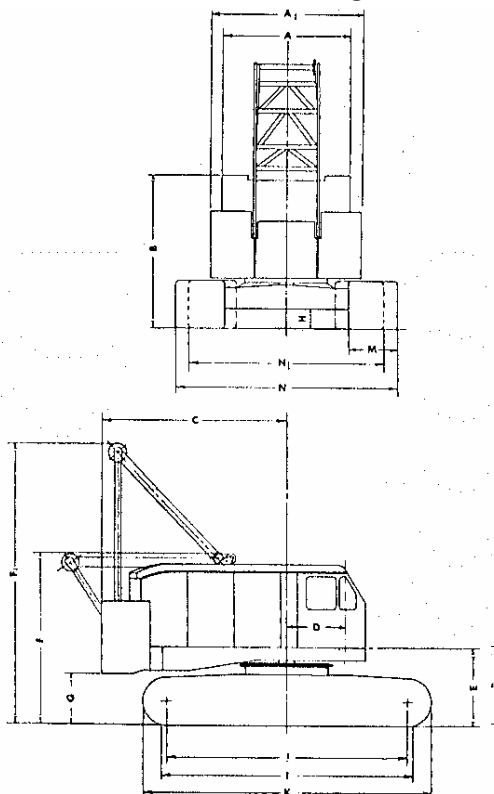
No. 9HL Jib Ratings				
	40 ft. Jib	50 ft. Jib	60 ft. Jib	70 ft. Jib
0 to 8 ft. -----	19,000	17,000	12,500	10,500
12 ft. -----	16,600	14,800	11,300	9,600
16 ft. -----	14,400	12,800	10,100	8,600
20 ft. -----	12,000	11,000	9,000	8,000
24 ft. -----	-----	-----	8,000	7,000
28 ft. -----	-----	-----	7,000	6,200
32 ft. -----	-----	-----	-----	5,400
Effective Jib Weight at Boom Point	1,850	2,350	3,700	4,300

Maximum Jib length with angle chord boom is 50 ft. No. 9HL Jib ratings are based on 140 ft. minimum boom length with angle chord boom and 160 ft. minimum boom length with tubular chord boom with tapered tip or hammerhead.



Jib ratings are based on the minimum boom length specified above. For ratings on shorter booms consult factory. The jib load rating is the lesser of: (a) the maximum jib rating, or (b) the main boom rating at the jib working radius, reduced by the effective weight and by the weight of all suspended load-carrying devices. The main boom rating with jib in place must be reduced by the effective jib weight, the weight of the main fall blocks and slings, and twice the weight of the jib tackle.

GENERAL DIMENSIONS



A	Width of Cab	11' 0"
A ₁	Width of Counterweight	13' 2"
B	Height Over Cab	13' 7-1/8"
C	Tailswing	17' 1-1/4"
D	Center of Pivot to Center of Boom Foot	5' 3/4"
E	Ground to Center Boom Foot	6' 9-1/8"
F	Height Over A-Frame, Lowered	14' 6-3/4"
F ₁	Height over A-Frame, Raised	24' 6-3/4"
G	Ground to Bottom of Counterweight	4' 4-3/8"
H	Minimum Ground Clearance Under Crawler Base	4' 4-3/8"
I	Crawler Bearing Length	1' 9"
J	Center to Center Crawler Tumblers	19' 8"
K	Overall Length of Crawlers	23' 9"
M	Width of Tread Shoes (Standard)	44"
M ₁	Width of Tread Shoes (Optional)	38"
M ₂	Width of Tread Shoes (Optional)	50"
N	Overall Width Over Crawlers	17' 7-1/2"
	Extended (with 38" shoes)	
	Overall Width Over Crawlers	
	Extended (with 44" shoes)	18' 1-1/2"
	Overall Width Over Crawlers	
	Extended (with 50" shoes)	18' 7-1/2"
N ₁	Overall Width Over Crawlers	
	Retracted (with 38" shoes)	15' 9"
	Overall Width Over Crawlers	
	Retracted (with 44" shoes)	16' 3"
	Overall Width Over Crawlers	
	Retracted (with 50" shoes)	16' 9"