



LOAD CHARTS

for Use With

WRITTEN EXAMINATIONS



Link-Belt LS-138H

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These pages are reproduced for illustration only and not as a substitute for reviewing the entire manual for a particular crane.

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.

LS-138H

PSCA Class 12-268
Refer to notes Page 4

Lifting Crane & Dragline Capacities

Boom – tubular:

54" (1.37 m) wide and 44" (1.12 m) deep with open throat top section; with 24" (7.32 m) live mast.

Jib – tubular: 30" (.76 m) wide and 24" (.61 m) deep.

Mounting – crawler:

extended gauge: 13' 0" (3.96 m)
retracted gauge: 8' 11" (2.72 m)
overall length: 19' 5" (5.92 m)

Counterweights –

Ctwt. "A": 19,592 lbs. (8 887 kg)
Ctwt. "AB": 39,720 lbs. (18 017 kg)

Maximum tubular boom or boom + jib[Ⓢ] machine can lift off ground unassisted – without load

	Counterweight "A"		Counterweight "AB"	
	44" X54" tubular boom		44" X54" tubular boom	
	feet	meters	feet	meters
Over End Side frames extended Side frames retracted	150 or 130 + 50 150 or 130 + 50	45.72 or 39.62 + 15.24 45.72 or 39.26 + 15.24	180 or 160 + 50 Ⓢ	54.86 or 48.77 + 15.24 Ⓢ
Over Sides Side frames extended Side frames retracted	140 or 120 + 40 120 or 100 + 40	42.67 or 36.58 + 12.19 36.58 or 30.48 + 12.19	170 or 150 + 40 Ⓢ	51.82 or 45.72 + 12.19 Ⓢ

Ⓢ With boom live mast and 1-1/4" (32 mm) diameter pendants, and hook blocks on ground.

Maximum tubular boom or boom + jib machine can lift off ground unassisted and travel without load with boom horizontal[Ⓢ] – minimum travel speed on firm level supporting surface

	Counterweight "A"		Counterweight "AB"	
	44" X54" tubular boom		44" X54" tubular boom	
	feet	meters	feet	meters
Over End Side frames extended Side frames retracted	120 or 90 + 40 120 or 90 + 40	36.58 or 27.43 + 12.19 36.58 or 27.43 + 12.19	150 or 120 + 40 Ⓢ	45.72 or 36.58 + 12.19 Ⓢ
Over Sides Side frames extended Side frames retracted	120 or 90 + 40 100 or 70 + 50	36.58 or 27.43 + 12.19 30.48 or 21.34 + 15.24	150 or 120 + 40 Ⓢ	45.72 or 36.58 + 12.19 Ⓢ

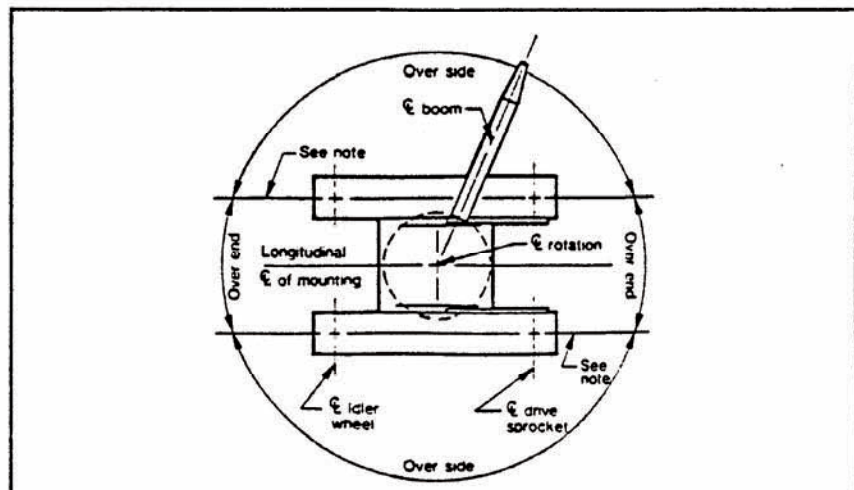
Ⓢ With counterweight "AB", machine must not be operated with side frames retracted.

Ⓢ Hook blocks carried at boom and jib points. Based on 75 ton (68 mt) three sheave hook block.

Working Areas

Note – These lines determine the limiting position of any load for operation within the working areas indicated.

Caution – This material is for reference only. Operator must refer to in-cab capacity plate to determine allowable machine lifting capacities and operating procedures.



LS-138H tubular jib capacities

Heavy duty boom with open throat - 360° swing

1. Capacities are for an LS-138H with "AB" counterweight, live mast and with 1.25" diameter pendants.
2. Capacities are in pounds and are not more than 75% of the tipping loads with machine standing level on firm supporting surface.
3. Capacities are limited to an 44" x 54" cross-section heavy duty boom and an 24" x 30" cross-section jib with a jib strut properly assembled.
4. Two parts of 0.75" diameter L-BS Type "N" wire rope are required for maximum lift. For single part operation, 0.75" diameter L-BS Type "P" wire rope is recommended.
5. Capacities are for 20'-50' jib lengths.
6. The maximum boom and jib combinations are: 160' boom + 50' jib, and 170' boom + 30' jib.
7. The least stable condition is over the side.
8. Boom lengths exceeding 120' must be erected and lowered over the end. Adequate blocking must be placed under the tread member sprockets to prevent the machine from rocking.
9. Those capacities followed by an asterisk (*) are governed by factors other than those that would cause a tipping condition.
10. A deduction must be made from the jib capacities for weights of all hook blocks, hook, slings, grapples, main hoist rope dead end bracket and swivel, load weighing devices, and other misc. items.
11. When using main hook, while jib is attached, reduce boom capacities by the following values:
 - a) 20' jib - 1,600 lbs.
 - b) 30' jib - 1,900 lbs.
 - c) 40' jib - 2,200 lbs.
 - d) 50' jib - 2,500 lbs.

LS-138H Lift Crane Capacities

Boom - tubular:

54" (1.37 m) wide and 44" (1.12 m) deep with open throat top section; with 24" (7.32 m) live mast 1-1/4" (32 mm) diameter boom pendants.

Mounting - crawler

extended gauge: 13' 0" (3.96 m)
retracted: 8' 11" (2.72 m)
overall length: 19' 5" (5.92 m)

Counterweights:

Cwt. "A": 19,592 lbs (8 887 kg)
Cwt. "AB": 39,720 lbs (18 017 kg)

Length	Boom					Side Frames Extended				Retracted	
	Radius		Angle	Boom Pt. Height [®]		Cwt. "A"		Cwt. "AB"		Cwt. "A"	
	feet	meters	degree	feet	meters	pounds	kilograms	pounds	kilograms	pounds	kilograms
40' (12.19 m)	12	3.66	77.4	44' 8"	20.3	127,200	57 698	150,000*	68 040*	72,600	32 931
	13	3.96	75.9	44' 6"	20.2	107,200	48 626	150,000*	68 040*	63,700	28 894
	14	4.27	74.5	44' 2"	20.1	92,500	41 958	131,000	59 422	56,700	25 719
	15	4.57	73.0	43' 11"	19.9	81,200	36 832	115,200	52 255	51,000	23 134
	20	6.10	65.3	42' 0"	19.1	49,900	22 635	71,300	32 342	33,600	15 241
	25	7.62	57.1	39' 3"	17.8	35,500	16 103	51,100	23 179	24,600	11 159
	30	9.14	48.1	35' 5"	16.1	27,200	12 338	39,500	17 917	19,100	8 664
	35	10.67	37.5	30' 0"	13.6	21,800	9 888	31,900	14 470	15,400	6 985
	40	12.19	23.4	21' 6"	9.8	18,000	8 165	26,600	12 066	12,600	5 715
50' (15.24 m)	12	3.66	80.0	54' 11"	16.7	127,900	58 015	150,000*	68 040*	73,000	21 365
	13	3.96	78.8	54' 8"	16.7	107,800	48 898	150,000*	68 040*	64,100	29 076
	14	4.27	77.6	54' 6"	16.6	93,000	42 185	131,500	59 648	57,100	25 901
	15	4.57	76.4	54' 3"	16.6	81,700	37 059	115,700	52 482	51,300	23 270
	20	6.10	70.5	52' 9"	16.1	50,200	22 771	71,700	32 523	33,800	15 332
	25	7.62	64.3	50' 8"	15.5	35,800	16 239	51,400	23 315	24,800	11 249
	30	9.14	57.7	47' 11"	14.6	27,400	12 429	39,700	18 008	19,200	8 709
	35	10.67	50.6	44' 4"	13.5	22,000	9 979	32,200	14 606	15,500	7 031
	40	12.19	42.7	39' 7"	12.1	18,200	8 256	26,800	12 156	12,800	5 806
60' (18.29 m)	13	3.96	80.7	64' 10"	19.8	108,700	49 306	142,200*	64 502*	64,700	29 348
	15	4.57	78.7	64' 6"	19.7	82,400	37 377	116,400	52 799	51,800	23 496
	20	6.10	73.8	63' 3"	19.3	50,700	22 998	72,100	32 705	34,100	15 468
	25	7.62	68.8	61' 7"	18.8	36,100	16 375	51,700	23 451	25,000	11 340
	30	9.14	63.6	59' 5"	18.1	27,700	12 565	40,000	18 144	19,400	8 800
	35	10.67	58.1	56' 7"	17.3	22,200	10 070	32,400	14 697	15,700	7 122
	40	12.19	52.3	53' 1"	16.2	18,400	8 346	27,000	12 247	13,000	5 897
	50	15.24	38.9	43' 4"	13.2	13,300	6 033	20,000	9 072	9,300	4 218
	60	18.29	19.0	25' 3"	7.7	10,100	4 581	15,500	7 031	6,900	3 130
70' (21.34 m)	15	4.57	80.4	74' 8"	22.8	82,600	37 467	116,600	52 890	51,900	23 542
	20	6.10	76.2	73' 8"	22.4	50,800	23 043	72,200	32 750	34,100	15 468
	25	7.62	71.9	72' 2"	22.0	36,100	16 375	51,700	23 451	25,000	11 340
	30	9.14	67.6	70' 4"	21.5	27,700	12 565	40,000	18 144	19,400	8 800
	35	10.67	63.1	68' 1"	20.8	22,200	10 070	32,400	14 697	15,700	7 122
	40	12.19	58.4	65' 3"	19.9	18,400	8 346	27,000	12 247	12,900	5 851
	50	15.24	48.1	57' 9"	17.6	13,300	6 033	19,900	9 027	9,300	4 218
	60	18.29	35.9	46' 8"	14.2	10,100	4 581	15,500	7 031	6,900	3 130
	70	21.34	17.6	26' 10"	8.2	7,800	3 538	12,400	5 625	5,200	2 359
80' (24.38 m)	16	4.88	80.9	84' 8"	25.8	73,600	33 385	104,100	47 220	47,100	21 365
	20	6.10	77.9	83' 11"	25.6	50,800	23 043	72,200	32 750	34,100	15 468
	25	7.62	74.2	82' 8"	25.2	36,100	16 375	51,700	23 451	24,900	11 295
	30	9.14	70.5	81' 1"	24.7	27,700	12 565	40,000	18 144	19,300	8 754
	35	10.67	66.6	79' 1"	24.1	22,200	10 070	32,300	14 651	15,300	6 940
	40	12.19	62.7	76' 9"	23.4	18,300	8 301	26,900	12 202	12,900	5 851
	50	15.24	54.3	70' 7"	21.5	13,200	5 988	19,900	9 027	9,200	4 173
	60	18.29	44.8	62' 2"	18.9	10,000	4 536	15,400	6 985	6,900	3 130
	70	21.34	33.5	49' 10"	15.2	7,800	3 538	12,400	5 625	5,200	2 359
90' (27.43 m)	18	5.49	80.6	94' 5"	28.8	60,300	27 352	85,400	38 737	36,600	16 602
	20	6.10	79.3	94' 2"	28.7	50,800	23 043	72,200	32 750	24,900	11 295
	25	7.62	76.0	93' 0"	28.4	36,100	16 375	51,700	23 451	19,300	8 754
	30	9.14	72.7	91' 7"	27.9	27,600	12 519	39,900	18 099	15,300	6 940
	35	10.67	69.4	89' 11"	27.4	22,100	10 025	32,200	14 606	12,800	4 309
	40	12.19	65.9	87' 10"	26.8	18,200	8 256	26,900	12 202	9,500	5 806
	50	15.24	58.7	82' 7"	25.2	13,100	5 942	19,800	8 981	6,800	3 084
	60	18.29	50.9	75' 6"	23.0	9,900	4 491	15,400	6 985	5,100	2 313
	70	21.34	42.2	66' 1"	20.1	7,700	3 493	12,300	5 579	3,900	1 769
100' (30.48 m)	80	24.38	31.5	52' 9"	18.3	6,100	2 767	10,100	4 581	2,900	1 315
	90	27.43	15.5	29' 9"	9.1	4,900	2 223	8,300	3 765	2,600	1 179
	19	5.79	81.0	104' 5"	31.8	55,100	24 993	78,300	35 517	36,600	16 602
	25	7.62	77.5	103' 3"	31.5	36,000	16 329	51,600	23 406	24,800	11 249
	30	9.14	74.5	102' 0"	31.1	27,500	12 474	39,800	18 053	19,100	8 664
	35	10.67	71.5	100' 6"	30.6	22,000	9 979	32,100	14 561	15,400	6 985
	40	12.19	68.5	98' 8"	30.1	18,100	8 210	26,700	12 111	12,600	5 715
	50	15.24	62.1	94' 1"	28.7	13,000	5 897	19,700	8 936	9,000	4 082
	60	18.29	55.4	88' 0"	26.8	9,800	4 445	15,200	6 895	6,600	2 994
	70	21.34	48.1	80' 2"	24.4	7,600	3 447	12,200	5 534	5,000	2 268
	80	24.38	39.9	69' 10"	21.3	6,000	2 722	10,000	4 536	3,800	1 724
	90	27.43	29.9	55' 5"	16.9	4,800	2 177	8,200	3 720	2,800	1 270
	100	30.48	14.7	31' 1"	9.5	3,800	1 724	6,900	3 130	2 000	907

LS-138H Lift Crane Capacities

continued

Length	Boom					Side Frames Extended				Retracted	
	Radius		Angle	Boom Pt. Height [®]		Ctwt. "A"		Ctwt. "AB"		Ctwt. "A"	
	feet	meters	degree	feet	meters	pounds	kilograms	pounds	kilograms	pounds	kilograms
110' (33.53 m)	25	7.62	78.6	113' 6"	34.6	35,900	16,284	51,500	23,360	24,600	11,159
	30	9.14	75.9	112' 4"	34.2	27,400	12,429	39,700	18,008	19,000	8,618
	35	10.67	73.2	111' 0"	33.8	21,900	9,934	32,000	14,515	15,200	6,895
	40	12.19	70.5	109' 4"	33.3	18,000	8,165	26,600	12,066	12,500	5,670
	50	15.24	64.9	105' 3"	32.1	12,900	5,851	19,500	8,845	8,800	3,992
	60	18.29	59.0	99' 11"	30.4	9,700	4,400	15,100	6,849	6,500	2,948
	70	21.34	52.7	93' 1"	28.4	7,500	3,402	12,000	5,443	4,800	2,177
	80	24.38	45.8	84' 6"	25.8	5,900	2,676	9,800	4,445	3,600	1,633
	90	27.43	38.0	73' 4"	22.4	4,600	2,087	8,100	3,674	2,700	1,225
	100	30.48	28.4	58' 1"	17.7	3,700	1,678	6,800	3,084	—	—
	110	33.53	14.0	32' 4"	9.8	2,800	1,270	5,600	2,540	—	—
120' (36.58 m)	25	7.62	79.6	123' 8"	37.7	35,800	16,239	51,500	23,360	24,500	11,113
	30	9.14	77.1	122' 8"	37.4	27,300	12,383	39,600	17,963	18,900	8,573
	35	10.67	74.7	121' 5"	37.0	21,800	9,888	31,900	14,470	15,100	6,849
	40	12.19	72.2	119' 11"	36.6	17,900	8,119	26,500	12,020	12,400	5,625
	50	15.24	67.1	116' 2"	35.4	12,800	5,806	19,400	8,800	8,700	3,946
	60	18.29	61.8	111' 5"	34.0	9,500	4,309	15,000	6,804	6,300	2,858
	70	21.34	56.2	105' 5"	32.1	7,300	3,311	11,900	5,398	4,700	2,132
	80	24.38	50.3	97' 11"	29.9	5,700	2,586	9,700	4,400	3,500	1,588
	90	27.43	43.7	88' 7"	27.0	4,500	2,041	8,000	3,629	2,500	1,134
	100	30.48	36.3	76' 8"	23.4	3,500	1,588	6,600	2,994	—	—
	110	33.53	27.2	60' 6"	18.4	2,700	1,225	5,500	2,495	—	—
	120	36.58	13.4	33' 6"	10.2	2,000	907	4,600	2,087	—	—
130' (39.62 m)	25	7.62	80.4	133' 10"	40.8	35,700	16,194	51,400	23,315	Not Applicable	
	30	9.14	78.1	132' 11"	40.5	27,300	12,383	39,500	17,917		
	35	10.67	75.9	131' 9"	40.2	21,600	9,798	31,800	14,424		
	40	12.19	73.6	130' 4"	39.8	17,700	8,029	26,400	11,975		
	50	15.24	68.9	127' 0"	38.7	12,600	5,715	19,300	8,754		
	60	18.29	64.1	122' 8"	37.4	9,400	4,264	14,800	6,713		
	70	21.34	59.1	117' 3"	35.7	7,200	3,266	11,700	5,307		
	80	24.38	53.8	110' 7"	33.7	5,600	2,540	9,500	4,309		
	90	27.43	48.2	102' 6"	31.2	4,300	1,950	7,800	3,538		
	100	30.48	41.9	92' 6"	28.2	3,400	1,542	6,500	2,948		
	110	33.53	34.8	79' 11"	24.4	2,600	1,179	5,400	2,449		
	120	36.58	26.1	62' 11"	19.2	—	—	4,500	2,041		
	130	39.62	12.9	34' 8"	10.6	—	—	3,700	1,678		
140' (42.67 m)	30	9.14	79.0	143' 1"	43.6	27,100	12,293	39,400	17,872	Not Applicable	
	35	10.67	76.9	142' 0"	43.3	21,500	9,752	31,600	14,334		
	40	12.19	74.8	140' 9"	42.9	17,600	7,983	26,200	11,884		
	50	15.24	70.5	137' 8"	42.0	12,500	5,670	19,100	8,664		
	60	18.29	66.1	133' 8"	40.7	9,200	4,173	14,600	6,623		
	70	21.34	61.5	128' 9"	39.3	7,000	3,175	11,600	5,262		
	80	24.38	56.8	122' 9"	37.4	5,400	2,449	9,300	4,218		
	90	27.43	51.7	115' 7"	35.2	4,200	1,905	7,600	3,447		
	100	30.48	46.3	106' 11"	32.6	3,200	1,452	6,300	2,858		
	110	33.53	40.3	96' 3"	29.4	2,400	1,089	5,200	2,359		
	120	36.58	33.5	83' 0"	25.3	—	—	4,300	1,951		
	130	39.62	25.2	65' 2"	19.9	—	—	3,500	1,588		
	140	42.67	12.4	35' 9"	10.9	—	—	2,900	1,315		
150' (45.72 m)	30	9.14	79.7	153' 3"	46.7	27,000	12,247	39,300	17,826	Not Applicable	
	35	10.67	77.8	152' 3"	46.4	21,400	9,707	31,500	14,288		
	40	12.19	75.8	151' 1"	46.1	17,400	7,893	26,100	11,839		
	50	15.24	71.9	148' 2"	45.2	12,300	5,579	18,900	8,573		
	60	18.29	67.8	144' 6"	44.0	9,000	4,082	14,400	6,532		
	70	21.34	63.6	140' 0"	42.7	6,800	3,084	11,400	5,171		
	80	24.38	59.2	134' 7"	41.0	5,200	2,359	9,100	4,128		
	90	27.43	54.7	128' 1"	39.0	3,900	1,769	7,400	3,357		
	100	30.48	49.8	120' 4"	36.7	3,000	1,361	6,100	2,767		
	110	33.53	44.6	111' 1"	33.9	2,000	907	5,000	2,268		
	120	36.58	38.9	99' 10"	30.4	—	—	4,100	1,860		
	130	39.62	32.3	85' 11"	26.2	—	—	3,300	1,497		
	140	42.67	24.3	67' 4"	20.5	—	—	2,700	1,225		
	150	45.72	12.0	36' 10"	11.2	—	—	2,000	907		

® Measured vertically from center of boom head sheave to ground.

LS-138H Lift Crane Capacities

continued

refer to notes below

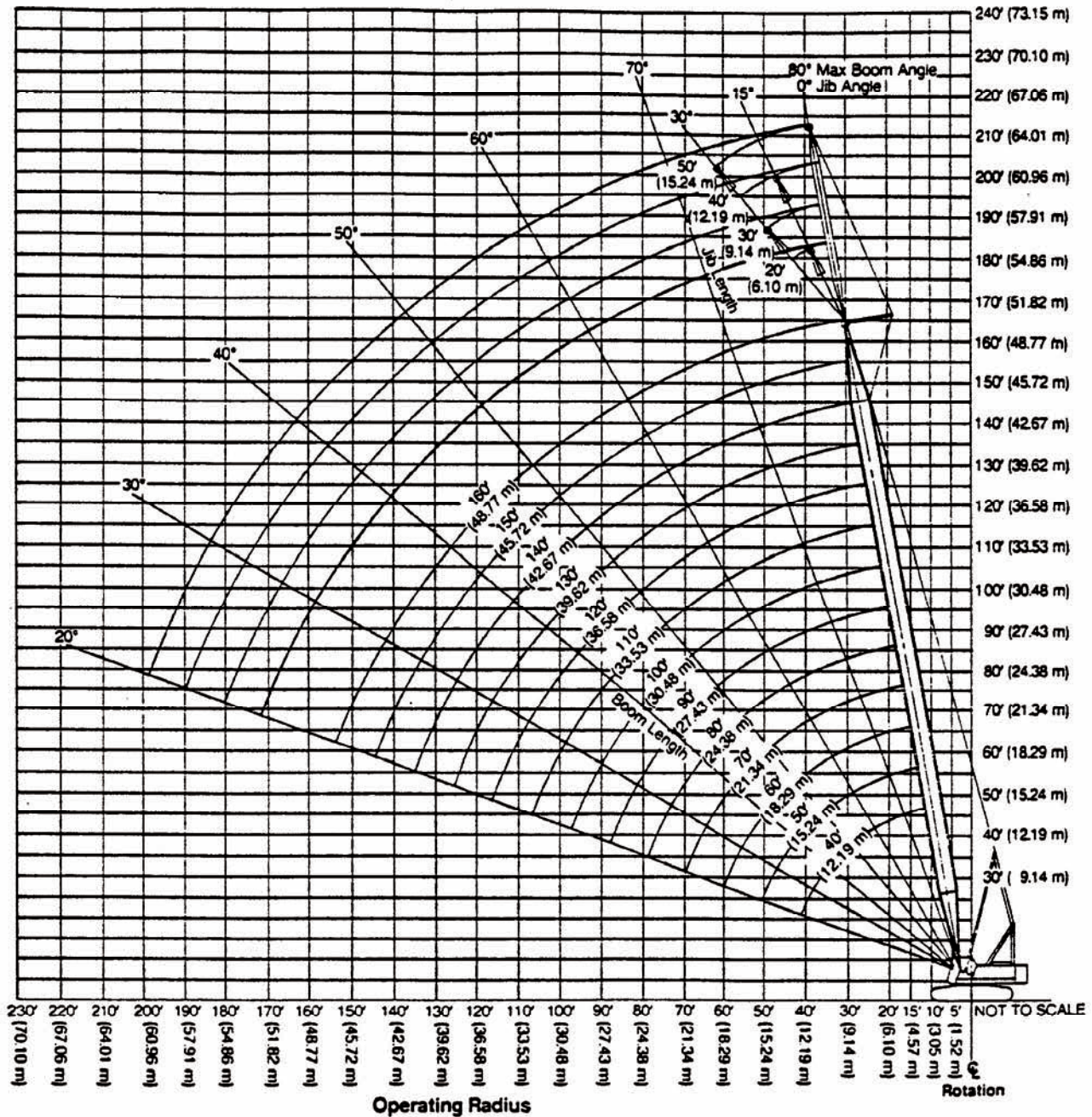
Length	Boom					Side Frames Extended				Retracted	
	Radius		Angle	Boom Pt. Height [®]		Ctwt. "A"		Ctwt. "AB"		Ctwt. "A"	
	feet	meters	degree	feet	meters	pounds	kilograms	pounds	kilograms	pounds	kilograms
160' (48.77 m)	20	9.14	80.4	163' 5"	49.8	Not Applicable		39,100	17 736	Not Applicable	
	35	10.67	78.6	162' 6"	49.5			31,400	14 243		
	40	12.19	76.7	161' 5"	49.2			25,900	11 748		
	50	15.24	73.0	158' 8"	48.4			18,800	8 528		
	60	18.29	69.2	155' 3"	47.3			14,300	6 486		
	70	21.34	65.4	151' 1"	46.1			11,200	5 080		
	80	24.38	61.3	146' 1"	44.5			9,000	4 082		
	90	27.43	57.2	140' 1"	42.7			7,200	3 266		
	10	30.48	52.8	133' 1"	40.6			5,900	2 676		
	110	33.53	48.2	124' 10"	38.1			4,800	2 177		
	120	36.58	43.2	115' 1"	35.1			3,900	1 769		
	130	39.62	37.6	103' 4"	31.5			3,100	1 406		
	140	42.67	31.3	88' 9"	27.1			2,500	1 134		
	150	45.72	23.5	69' 6"	21.2			-	-		
	160	48.77	11.6	37' 11"	11.6			-	-		
170' (51.82 m)	30	9.14	81.0	173' 7"	52.9			38,000	17 237		
	35	10.67	79.2	172' 8"	52.6			31,200	14 152		
	40	12.19	77.5	171' 8"	52.3			25,800	11 703		
	50	15.24	74.0	169' 1"	51.6			18,600	8 437		
	60	18.29	70.5	165' 11"	50.6			14,100	6 396		
	70	21.34	66.9	162' 0"	49.4			11,000	4 990		
	80	24.38	63.2	157' 4"	48.0			8,800	3 992		
	90	27.43	59.3	151' 11"	46.3			7,100	3 221		
	100	30.48	55.3	145' 6"	44.4			5,700	2 586		
	110	33.53	51.1	138' 1"	42.1			4,600	2 087		
	120	36.58	46.6	129' 3"	39.4			3,700	1 678		
	130	39.62	41.8	119' 0"	36.3			3,000	1 361		
	140	42.67	36.5	106' 8"	32.5			2,300	1 043		
	150	45.72	30.3	91' 6"	27.9			-	-		
	160	48.77	22.8	71' 6"	21.8			-	-		
	170	51.82	11.3	38' 11"	11.9			-	-		
180' (54.86 m)	35	10.67	79.9	182' 10"	55.7			31,100	14 107		
	40	12.19	78.2	181' 10"	55.5			25,600	11 612		
	50	15.24	75.0	179' 6"	54.7			18,400	8 346		
	60	18.29	71.6	176' 6"	53.8			13,900	6 305		
	70	21.34	68.2	172' 10"	52.7			10,800	4 899		
	80	24.38	64.8	168' 6"	51.4			8,600	3 901		
	90	27.43	61.2	163' 5"	49.8			6,900	3 130		
	100	30.48	57.5	157' 6"	48.0			5,500	2 495		
	110	33.53	53.6	150' 7"	45.9			4,500	2 041		
	120	36.58	49.6	142' 8"	43.5			3,600	1 633		
	130	39.62	45.3	133' 6"	40.7			2,800	1 270		
	140	42.67	40.6	122' 9"	37.4			2,100	953		
	150	45.72	35.4	109' 11"	33.5			-	-		
	160	48.77	29.5	94' 2"	28.7			-	-		
	170	51.82	22.1	73' 6"	22.4			-	-		
	180	54.86	11.0	39' 10"	12.2			-	-		

® Measured vertically from center of boom head sheave to ground.

Notes

- The capacities included in this chart are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
- Capacities are based on 75% of minimum tipping loads unless marked with an asterisk (*).
(*): Asterisk indicates capacities based on factors other than those which would cause a tipping condition.
- Capacities based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, and operating speeds.
- Operator must reduce load ratings to take such conditions into account. Deduction from rated capacities must be made for weight of hook block, weighted ball / hook, sling, spreader bar, or other suspended gear.
- 54" (1.37m) tubular boom with open throat top section — for lifting 150,000# (68 040 kg), 8-part load hoist line (7/8" — 22 mm, Type "N" wire rope) is required. Check parts of line required for all capacities.
- Retractable high gantry must be fixed in raised position for all capacities on this chart.
- Boom lengths exceeding 120' (36.58 m) must be erected and lowered over end. Adequate blocking must be placed under the tread member sprockets to prevent the machine from rocking.
- For boom length exceeding 140' (42.67 m) the mid-point suspension pendants are required.
- Least stable position is over the side.
- Main boom length must not exceed 180' (54.86 m).
- These capacities apply only to the machine as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.

LS-138H Working Ranges



We are constantly improving our products and therefore reserve the right to change designs and specifications.

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Link-Belt Construction Equipment Company Lexington, Kentucky

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE

BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM								
			0°			15°			30°		
			BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY
100	40	60	66.4	134.7	9800*	70.4	133.3	8500*	74.0	130.2	6900*
100	40	70	61.9	129.7	9200*	65.9	128.9	7900*	69.3	125.1	6300*
100	40	80	57.2	123.7	8600*	61.1	122.9	7300*	64.5	118.9	5800*
100	40	90	52.2	116.5	7900*	56.1	115.7	6600*	59.3	111.5	5500*
100	40	100	46.9	107.9	7000	50.7	107.0	5900*	53.7	102.5	5100*
100	40	110	41.0	97.4	5900	44.3	96.4	5500*			
100	40	120	34.4	84.4	5000	38.0	83.2	5100*			
100	40	130	26.4	67.2	4200						
100	50	30	79.8	154.6	7800*						
100	50	35	77.9	153.6	7500*						
100	50	40	76.0	152.4	7300*						
100	50	50	72.0	149.5	6700*	76.8	148.6	5700*			
100	50	60	68.0	145.8	6200*	72.8	144.9	5500*	77.1	140.8	4700*
100	50	70	63.9	141.2	5800*	68.6	140.4	5200*	72.8	136.2	4400*
100	50	80	59.6	135.8	5500*	64.3	135.0	4900*	68.3	130.5	4100*
100	50	90	55.1	129.3	5200*	59.7	128.5	4600*	63.6	123.8	3800*
100	50	100	50.3	121.6	4900*	54.9	120.8	4300*	58.6	115.8	3500*
100	50	110	45.2	112.5	4600*	49.7	111.5	3900*	53.2	106.2	3100*
100	50	120	39.6	101.5	4200*	44.0	100.4	3500*			
100	50	130	33.2	87.8	3300*	37.5	86.5	3100*			
100	50	140	25.5	70.0	3200*						
110	20	30	78.3	134.4	19400*						
110	20	35	76.0	133.3	18800*	78.2	132.8	15800*			
110	20	40	73.8	131.9	18200*	76.0	131.5	15300*	77.9	129.6	12600*
110	20	50	69.2	128.6	17000*	71.4	129.1	14400*	73.2	126.2	11900*
110	20	60	64.4	124.3	14700	66.6	123.9	13400*	68.4	121.8	11100*
110	20	70	59.5	118.9	11700	61.6	113.5	11900	63.3	116.4	10400*
110	20	80	54.3	112.4	9600	56.4	112.0	9700	58.0	109.7	9900
110	20	90	48.7	104.5	7900	50.3	104.0	8000	52.3	101.5	8100
110	20	100	42.6	94.7	6500	44.6	94.2	6600			
110	20	110	35.7	82.4	5500	37.7	81.8	5500			
110	20	120	27.4	66.1	4600						
110	30	30	79.1	144.4	15300*						
110	30	35	77.0	143.3	14900*						

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE

OOM GTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM								
			0°			15°			30°		
			BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY
110	30	40	75.0	142.0	14500*	78.0	141.2	12300*			
110	30	50	70.7	138.8	13600*	73.8	138.0	11500*	76.5	135.2	9200*
110	30	60	66.4	134.8	12800*	69.4	134.0	10600*	72.0	131.1	8600*
110	30	70	61.9	129.7	11800	64.9	129.1	9800*	67.4	126.0	8000*
110	30	80	57.2	123.9	9700	60.1	123.1	9100*	62.5	119.9	7700*
110	30	90	52.2	116.7	8000	55.1	116.0	8200	57.4	112.5	7300*
110	30	100	46.9	108.1	6700	49.7	107.3	6800	51.8	103.6	7000*
110	30	110	41.0	97.6	5600	43.8	96.8	5700			
110	30	120	34.4	84.6	4700	37.1	83.6	4800			
110	30	130	26.4	67.5	3900						
110	40	30	79.8	154.5	11600*						
110	40	35	77.9	153.5	11400*						
110	40	40	76.0	152.3	11100*	79.3	151.3	9800*			
110	40	50	72.0	149.3	10600*	75.9	148.4	9300*	79.3	144.8	7600*
110	40	60	68.0	145.6	10100*	71.8	144.6	8700*	75.2	141.0	7100*
110	40	70	63.9	141.0	9500*	67.6	140.1	8200*	70.9	136.3	6500*
110	40	80	59.6	135.5	8900*	63.3	134.6	7600*	66.4	130.7	5900*
110	40	90	55.1	129.0	8100	58.8	128.1	7000*	61.8	124.0	5600*
110	40	100	50.3	121.3	6700	53.9	120.4	6300*	56.8	116.0	5300*
110	40	110	45.2	112.1	5700	48.8	111.1	5800*			
110	40	120	39.6	101.0	4300	43.1	100.0	4900			
110	40	130	33.2	87.4	4000	36.6	86.1	4100			
110	40	140	25.5	69.5	3400						
110	50	35	78.7	163.8	7600*						
110	50	40	76.9	162.7	7400*						
110	50	50	73.2	160.0	6900*	77.7	159.0	5800*			
110	50	60	69.4	156.5	6400*	73.9	155.6	5500*	78.0	151.5	4300*
110	50	70	65.6	152.3	5900*	70.0	151.4	5300*	74.0	147.2	4500*
110	50	80	61.6	147.3	5600*	66.0	146.4	5000*	69.9	142.0	4200*
110	50	90	57.5	141.4	5400*	61.9	140.5	4700*	65.6	135.9	3900*
110	50	100	53.2	134.4	5100*	57.5	133.5	4400*	61.1	128.6	3600*
110	50	110	48.6	126.2	4800*	52.9	125.3	4100*	56.3	120.0	3300*
110	50	120	43.7	116.5	4500*	47.9	115.5	3800*	51.1	109.8	3000*
110	50	130	38.3	105.0	4100	42.4	103.8	3400*			
110	50	140	32.1	90.7	3500	36.1	89.3	3000*			
110	50	150	24.7	72.2	2900						

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE

OM ITH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM								
			0°			15°			30°		
			BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY
120	20	30	79.1	144.6	19600*						
120	20	35	77.0	143.6	19100*	79.1	143.1	15900*			
120	20	40	75.0	142.3	18500*	77.0	141.9	15500*	78.8	140.0	12800*
120	20	50	70.7	139.2	17400*	72.7	138.8	14700*	74.5	136.8	12100*
120	20	60	66.4	135.3	14600	68.4	134.8	13800*	70.1	132.8	11300*
120	20	70	61.9	130.4	11500	63.8	130.0	11700	65.5	127.9	10600*
120	20	80	57.2	124.5	9400	59.1	124.1	9600	60.7	121.9	9800
120	20	90	52.2	117.4	7700	54.1	117.0	7800	55.6	114.6	8000
120	20	100	46.9	108.9	6300	48.8	108.4	6400	50.1	105.8	6500
120	20	110	41.0	98.5	5300	42.9	97.9	5300			
120	20	120	34.4	85.6	4400	36.2	84.9	4400			
120	20	130	26.4	68.5	3600						
120	30	30	79.8	154.6	15400*						
120	30	35	77.9	153.5	15100*						
120	30	40	76.0	152.3	14700*	78.8	151.5	12500*			
120	30	50	72.0	149.4	13900*	74.9	148.6	11700*	77.4	145.7	9400*
120	30	60	68.0	145.7	13100*	70.8	144.9	10900*	73.3	141.9	9800*
120	30	70	63.9	141.1	11600	66.7	140.4	10000*	69.1	137.3	8200*
120	30	80	59.6	135.7	9500	62.3	134.9	9400*	64.6	131.7	7800*
120	30	90	55.1	129.2	7800	57.8	128.4	8000	60.0	125.1	7500*
120	30	100	50.3	121.5	6400	53.0	120.7	6600	55.1	117.1	6800
120	30	110	45.2	112.3	5400	47.9	111.5	5500			
120	30	120	39.6	101.3	4500	42.2	100.4	4600			
120	30	130	33.2	87.6	3700						
120	30	140	25.5	69.8	3100						
120	40	35	78.7	163.7	11500*						
120	40	40	76.9	162.6	11200*						
120	40	50	73.2	159.8	10700*	76.8	158.8	9400*			
120	40	60	69.4	156.3	10200*	73.0	155.4	8900*	76.2	151.7	7200*
120	40	70	65.6	152.1	9700*	69.1	151.2	8400*	72.2	147.4	6700*
120	40	80	61.6	147.0	9200*	65.1	146.1	7800*	68.1	142.2	6100*
120	40	90	57.5	141.1	7900	61.0	140.2	7300*	63.9	136.1	5300*
120	40	100	53.2	134.1	6500	56.6	133.1	6700*	59.4	128.8	5500*
120	40	110	48.6	125.3	5500	52.0	124.9	5700	54.6	120.3	5100*
120	40	120	43.7	116.1	4600	47.0	115.1	4700			
120	40	130	38.3	104.6	3900	41.5	103.4	3900			

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE

JIB 3TH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM								
			0°			15°			30°		
			BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY
120	40	140	32.1	90.3	3200						
120	40	150	24.7	71.7	2600						
120	50	35	79.3	174.0	7700*						
120	50	40	77.6	173.0	7500*						
120	50	50	74.2	170.4	7000*	78.4	169.4	5800*			
120	50	60	70.7	167.2	6600*	74.9	166.2	5600*	78.7	162.0	4800*
120	50	70	67.1	163.3	6100*	71.3	162.3	5400*	75.0	158.0	4600*
120	50	80	63.4	158.6	5800*	67.6	157.7	5100*	71.2	153.2	4300*
120	50	90	59.6	153.1	5500*	63.7	152.2	4900*	67.3	147.6	4100*
120	50	100	55.7	146.7	5200*	59.7	145.8	4600*	63.2	140.9	3800*
120	50	110	51.5	139.3	5000*	55.5	138.3	4300*	58.8	133.2	3500*
120	50	120	47.1	130.6	4600	51.1	129.6	4000*	54.2	124.1	3200*
120	50	130	42.4	120.5	3900	46.3	119.4	3700*			
120	50	140	37.1	108.4	3200	40.9	107.1	3300*			
120	50	150	31.2	93.6	2700						
120	50	160	23.9	74.4	2200						
130	20	30	79.8	154.8	19800*						
130	20	35	77.9	153.8	19300*	79.8	153.3	16100*			
130	20	40	76.0	152.6	18800*	77.9	152.2	15700*	79.6	150.3	12900*
130	20	50	72.0	149.8	17800*	73.9	149.3	14900*	75.6	147.4	12300*
130	20	60	68.0	146.1	14400	69.9	145.7	14100*	71.5	143.7	11600*
130	20	70	63.9	141.7	11300	65.7	141.2	11600	67.3	139.1	10900*
130	20	80	59.6	136.3	9200	61.4	135.8	9400	62.9	133.7	9600
130	20	90	55.1	129.8	7500	56.9	129.4	7600	58.3	127.1	7800
130	20	100	50.3	122.2	6100	52.1	121.7	6300	53.4	119.3	6400
130	20	110	45.2	113.1	5100	47.0	112.6	5100			
130	20	120	39.6	102.2	4200	41.3	101.6	4200			
130	20	130	33.2	88.6	3400	34.8	87.9	3400			
130	20	140	25.5	70.8	2800						
130	30	35	78.7	163.8	15200*						
130	30	40	76.9	162.6	14800*	79.6	161.8	12600*			
130	30	50	73.2	159.9	14100*	75.9	159.1	11900*	78.3	156.2	9500*
130	30	60	69.4	156.4	13400*	72.1	155.6	11100*	74.4	152.7	9000*
130	30	70	65.6	152.2	11400	68.2	151.4	10300*	70.5	148.4	8400*

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE

JIB 3TH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM								
			0°			15°			30°		
			BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY
130	30	80	61.6	147.2	9300	64.2	146.4	9600	66.4	143.2	7900*
130	30	90	57.5	141.2	7600	60.1	140.5	7500	62.2	137.2	7600*
130	30	100	53.2	134.2	6200	55.8	133.5	6500	57.7	130.0	6700
130	30	110	48.6	126.1	5200	51.1	125.2	5300	53.0	121.6	5500
130	30	120	43.7	116.4	4300	46.2	115.5	4400			
130	30	130	38.3	104.8	3500	40.7	103.3	3600			
130	30	140	32.1	90.6	2900						
130	30	150	24.7	72.0	2300						
130	40	35	79.3	173.9	11600*						
130	40	40	77.6	172.8	11300*						
130	40	50	74.2	170.2	10900*	77.6	169.2	9500*			
130	40	60	70.7	167.0	10400*	74.0	166.0	9000*	77.0	162.3	7300*
130	40	70	67.1	163.0	9900*	70.4	162.1	8500*	73.4	158.3	6800*
130	40	80	63.4	158.3	9400	66.7	157.4	8000*	69.6	153.5	6300*
130	40	90	59.5	152.8	7700	62.9	151.9	7500*	65.6	147.8	5900*
130	40	100	55.7	146.4	6300	58.9	145.5	6600	61.6	141.2	5600*
130	40	110	51.5	138.9	5200	54.7	138.0	5500	57.2	133.5	5300*
130	40	120	47.1	130.2	4300	50.3	129.3	4600	52.6	124.5	4600*
130	40	130	42.4	120.1	3600	45.4	119.0	3800			
130	40	140	37.1	108.0	3000	40.1	106.8	3100			
130	40	150	31.2	93.1	2400						
130	40	160	23.9	73.9	1900						
130	50	35	79.9	184.2	7800*						
130	50	40	78.3	183.2	7600*						
130	50	50	75.1	180.8	7100*	79.1	179.8	5900*			
130	50	60	71.8	177.8	6700*	75.8	176.8	5700*	79.4	172.5	4900*
130	50	70	68.4	174.1	6300*	72.4	173.1	5400*	75.9	168.8	4600*
130	50	80	65.0	169.7	5900*	68.9	168.8	5200*	72.4	164.3	4400*
130	50	90	61.5	164.6	5600*	65.4	163.7	5000*	68.7	159.0	4200*
130	50	100	57.8	158.7	5400*	61.7	157.8	4700*	64.9	152.9	3900*
130	50	110	54.0	151.9	5100*	57.8	150.9	4500*	61.0	145.9	3600*
130	50	120	50.0	144.0	4400	53.8	143.0	4200*	56.8	137.7	3300*
130	50	130	45.7	134.9	3700	49.4	133.8	3900	52.3	128.1	2800*
130	50	140	41.1	124.3	3000	44.3	123.1	3200			
130	50	150	36.1	111.7	2500	39.6	110.3	2600			
130	50	160	30.3	96.3	2000						
130	50	170	23.3	76.4	1600						

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE

BOOM GTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM								
			0°			15°			30°		
			BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY
140	20	35	78.7	164.0	19500*						
140	20	40	76.9	162.9	19000*	78.6	162.5	15800*			
140	20	50	73.2	160.2	18100*	75.0	159.8	15100*	76.5	157.9	12400
140	20	60	69.4	156.9	14100	71.2	156.4	14400*	72.7	154.4	11800
140	20	70	65.6	152.7	11100	67.3	152.3	11400	68.8	150.2	11100
140	20	80	61.6	147.7	9000	63.4	147.3	9200	64.8	145.2	9400
140	20	90	57.5	141.9	7300	59.2	141.4	7500	60.6	139.2	7600
140	20	100	53.2	135.0	5900	54.9	134.5	6100	56.2	132.1	6200
140	20	110	48.6	126.8	4900	50.3	126.3	5000	51.5	123.3	5100
140	20	120	43.7	117.2	4000	45.3	116.7	4000			
140	20	130	38.3	105.7	3200	39.9	105.1	3300			
140	20	140	32.1	91.5	2600						
140	20	150	24.7	73.1	2000						
140	30	35	79.3	174.0	15300*						
140	30	40	77.6	172.9	15000*						
140	30	50	74.2	170.3	14300*	76.7	169.5	12000*	79.0	166.6	9600*
140	30	60	70.7	167.1	13600*	73.2	166.3	11300*	75.4	163.3	9100*
140	30	70	67.1	163.2	11200	69.6	162.4	10600*	71.7	159.3	8600*
140	30	80	63.4	158.5	9100	65.9	157.7	9400	68.0	154.5	8100*
140	30	90	59.6	153.0	7400	62.1	152.2	7700	64.1	148.9	7800*
140	30	100	55.7	146.4	6000	58.1	145.3	6300	60.0	142.4	6500
140	30	110	51.5	139.1	4900	53.9	138.3	5200	55.7	134.7	5300
140	30	120	47.1	130.5	4100	49.4	129.3	4200			
140	30	130	42.4	120.3	3300	44.7	119.4	3400			
140	30	140	37.1	108.2	2700	39.4	107.2	2800			
140	30	150	31.2	93.4	2100						
140	30	160	23.9	74.2	1700						
140	40	35	79.9	184.1	11600*						
140	40	40	78.3	183.1	11400*						
140	40	50	75.1	180.6	11000*	79.3	179.6	9600*			
140	40	60	71.8	177.6	10600*	75.0	176.6	9100*	77.8	172.8	7400*
140	40	70	68.4	173.9	10100*	71.6	172.9	8700*	74.4	169.1	7000*
140	40	80	65.0	159.5	9100	68.1	163.5	8200*	70.8	164.6	6500*
140	40	90	61.5	164.4	7400	64.6	163.4	7700*	67.2	159.3	6000*

REFER TO ALL NOTES ON COVER PAGE BEFORE OPERATING MACHINE

BOOM LGTH	JIB LGTH	LOAD RAD	JIB ANGLE TO BOOM								
			0°			15°			30°		
			BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY	BOOM ANGLE	JIB POINT HEIGHT	CAPACITY
140	40	100	57.8	158.4	6100	60.9	157.5	6500	63.4	153.2	5700*
140	40	110	54.0	151.6	5000	57.0	150.6	5300	59.5	146.2	5100*
140	40	120	50.0	143.6	4100	53.0	142.7	4400	55.3	138.0	4300*
140	40	130	45.7	134.5	3400	48.7	133.5	3600			
140	40	140	41.1	123.9	2700	44.0	122.7	2900			
140	40	150	36.1	111.2	2200	38.9	110.0	2300			
140	40	160	30.3	95.9	1700						
140	50	40	78.9	193.4	7700*						
140	50	50	75.9	191.1	7200*	79.7	190.1	5900*			
140	50	60	72.8	188.3	6800*	76.6	187.2	5700*	80.0	183.0	4900*
140	50	70	69.6	184.8	6400*	73.4	183.8	5500*	76.7	179.4	4700*
140	50	80	66.4	180.7	6000*	70.1	179.7	5300*	73.4	175.2	4500*
140	50	90	63.1	175.9	5700*	66.8	175.0	5100*	70.0	170.3	4200*
140	50	100	59.7	170.4	5500*	63.3	169.5	4800*	66.5	164.7	4000*
140	50	110	56.1	164.1	5100	59.8	163.1	4600*	62.8	158.1	3700*
140	50	120	52.4	156.9	4200	56.0	155.9	4300*	59.0	150.6	3100*
140	50	130	48.6	148.6	3400	52.1	147.5	3700	54.9	142.0	2700*
140	50	140	44.4	139.0	2800	47.9	137.9	3000			
140	50	150	40.0	127.9	2300	43.4	126.7	2400			
140	50	160	35.1	114.9	1800	38.4	113.5	1900			
150	20	35	79.3	174.2	19700*						
150	20	40	77.6	173.2	19200*	79.3	172.7	16000*			
150	20	50	74.2	170.7	18300*	75.9	170.2	15300*	77.4	168.3	12500*
150	20	60	70.7	167.5	13900	72.3	167.0	14400	73.8	165.1	12000*
150	20	70	67.1	163.6	10900	68.8	163.2	11200	70.2	161.1	11300*
150	20	80	63.4	159.0	8700	65.1	158.6	9000	66.4	156.5	9300
150	20	90	59.6	153.6	7000	61.2	153.1	7300	62.5	150.9	7500
150	20	100	55.7	147.2	5700	57.3	146.8	5900	58.5	144.5	6100
150	20	110	51.5	139.9	4600	53.1	139.4	4800	54.3	136.9	4900
150	20	120	47.1	131.3	3700	48.7	130.7	3900			
150	20	130	42.4	121.2	3000	43.9	120.6	3100			
150	20	140	37.1	109.1	2300	38.6	108.5	2400			
150	20	150	31.2	94.4	1300						
150	30	35	79.9	184.1	15500*						