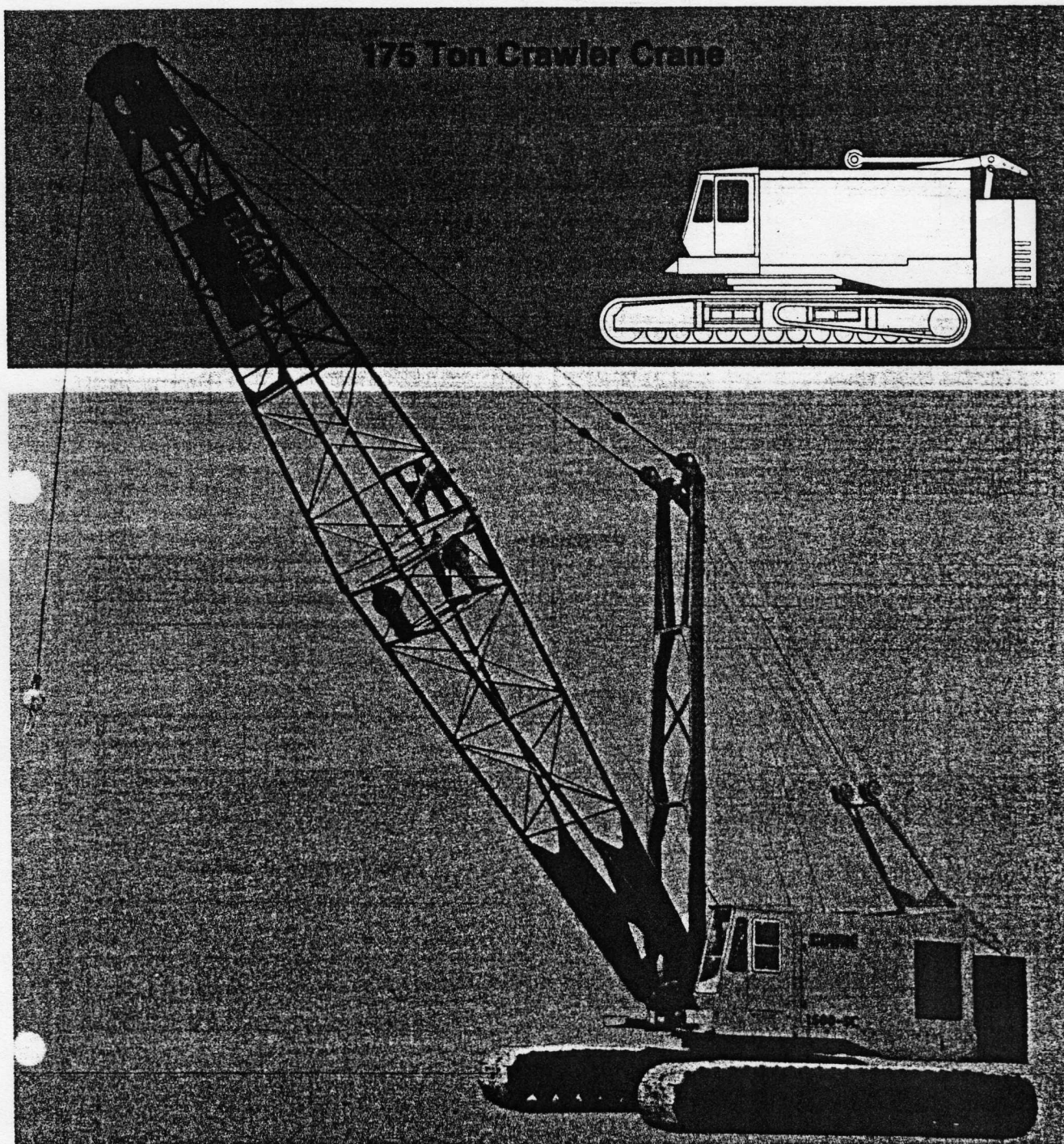
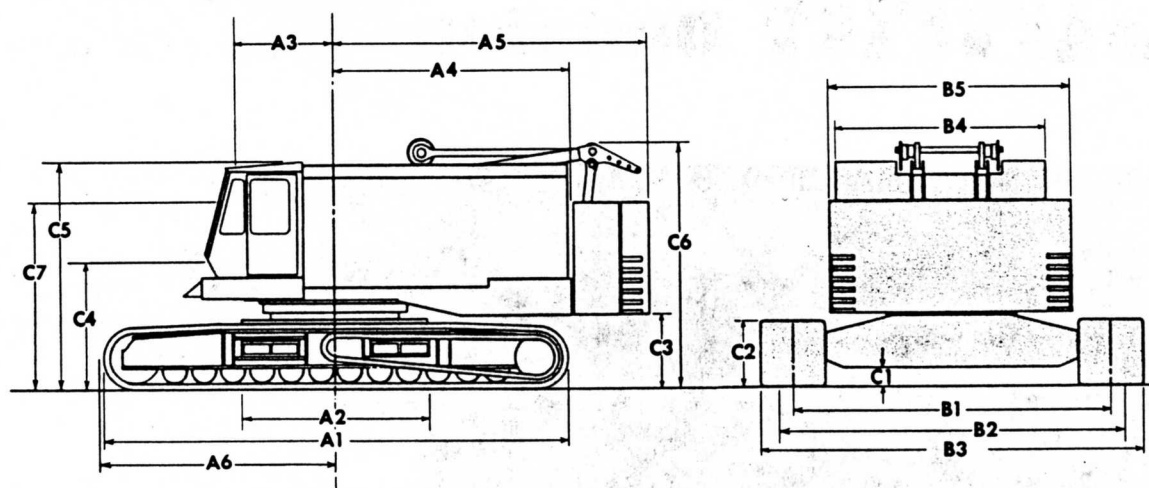




CLARK Crane Division 1500-SC

Specifications



**CLEARANCE AND DIMENSIONS****FRONT TO BACK**

A1.	Crawler Length	24'- 9 1/2" (7.55m)
A2.	Truck Base Length	10'- 2 1/4" (3.10m)
A3.	C Boom Foot to C Rotation	5'- 3 1/2" (1.61m)
A4.	Rear End Swing—Rotating Unit	14'- 8 1/2" (4.48m)
A5.	Rear End Swing—57,500# (26082kg) Cwt.	16'- 8 1/2" (5.09m)
	Rear End Swing—100,000# (45360kg) Cwt.	17'- 6 1/2" (5.34m)
	Rear End Swing—Gantry Lowered	18'- 0 1/4" (5.49m)
A6.	Over Corners—42" (1.06m) Treads	16'- 1" (4.90m)

SIDE TO SIDE

B1.	C to C Tread Rollers	17'- 0" (5.18m)
B2.	Overall Length of Axles	18'- 5 1/2" (5.62m)
B3.	Overall Width Crawlers with 42" (1.06m) Treads	20'- 6" (6.24m)
B4.	Overall Width Cab	11'- 2 1/2" (3.40m)
B5.	Overall Width, Rotating Unit and Counterweight	13'- 0" (3.96m)

VERTICAL

C1.	Ground Clearance	10-15/16" (.27m)
C2.	Ground to Top Crawler (Maximum)	3'- 6-7/8" (1.08m)
C3.	Ground to Bottom of Counterweight	3'- 11" (1.19m)
C4.	Ground to C of Boom Foot Pin	6'-10-7/8" (2.10m)

C5.	Ground to Top of Cab	12'- 1-5/8" (3.69m)
C6.	Overall Height Backhitch Gantry	13'- 5-1/8" (4.09m)
C7.	Eye Level Standard Cab	10'-11-3/8" (3.33m)

POWER PLANT DATA

Make	Model	Fuel	Cyl.	Bore and Stroke	Gross Rated H.P.	Torque Conv. H.P. @ Governed R.P.M.
Cumm.w/T.C.	NT-855-P-335	Diesel	6	5 1/4" x 6" (140mm 152mm)	335 @ 2300	208 @ 600

Fuel Tank Capacity—256 Gallons (969 Liters)

WORKING WEIGHTS

(APPROXIMATE IN POUNDS)

Weight based upon a machine equipped with a Cummins power plant and torque converter, 25' (7.6m) truck with 42" (1.06m) treads, 100,000 lbs. (45360kg) of counterweight, and a 60' (18.3m) basic boom, and all other standard equipment.

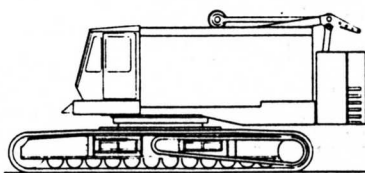
Crane	292,000 Lbs. (132451kg)
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PERFORMANCE DATA

Swing Speed	3.2 R.P.M.
Gradability	30%
Travel Speed:	
Standard Propel	1.1 M.P.H. (1.7KmPH)
Independent Propel	1.3 M.P.H. (2.0KmPH)



1500-SC MACHINE WEIGHTS



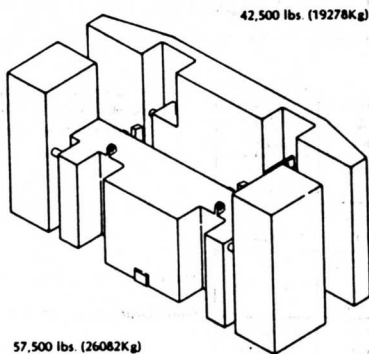
B-1 BASIC MACHINE

Equipment includes: Fabricated truck and rotating base; environmental cab; heater (hot water) and defroster fan; fire extinguisher; steps for access to cab roof; L.H. and R.H. running boards; air signal horn; standard crawlers [25'0" (7.62m) overall length]; 42" (106.7cm) wide heat treated treads; anti-friction bearing swing circle and ring gear; engine (See Item No. 60-105-A); two drum chain driven planetary boom hoist; sprague clutch arrangement; spring set, air released positive swing lock; power controlled load lowering (R.H. drum); full air controls; basic gantry; hydraulic counterweight removal equipment; (no laggings or counterweight).

Weight: 168,200 lbs. (76295Kg)

COUNTERWEIGHT
REMOVAL
EQUIPMENT
660 lbs. (299Kg)

COUNTERWEIGHTS



42,500 lbs. (19278Kg)

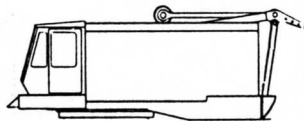
57,500 lbs. (26082Kg)

OPTIONAL
INDEPENDENT PROPEL (Ref. BO-125)
4,770 lbs. (2164Kg)

THIRD DRUM (Less Wire Rope)
3770 lbs. (1293Kg)
Ref: BO-175

WIRE ROPE (For Third Drum)
310 lbs. (140Kg)

ROTATOR (Incl. Gantry and Counterweight Removal Equipment)



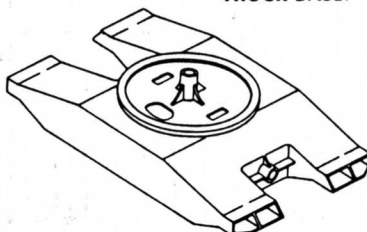
69,900 lbs. (31,707Kg)

TRUCK:



With 42" Treads: 98,300 lbs. (44589Kg)

TRUCK BASE:

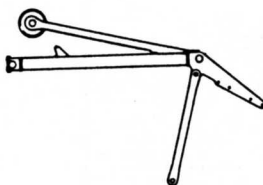


39,260 lbs. (17807Kg)

TREADS:

56-42" Treads
Weight Per Belt:
14,170 lbs. (6428Kg)

GANTRY



4,240 lbs. (1923Kg)

SIDE FRAME:



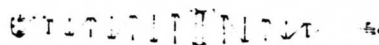
Less Treads: 15,350 lbs. (6963Kg) Each

A-2 CRANE ATTACHMENT

Equipment includes: 60' (18.3m) pin connected tubular boom (75" x 85") (1.90m x 2.16m) with hammerhead point with six (6) lower main sheaves with guards and two (2) top guide sheaves plus two (2) guide sheaves at base of point section; mast assembly with fourteen (14) part boom hoist reeving and pendants for basic boom; telescopic boomstops with air shutoff; boom angle indicator; 22" (55.9cm) L.H. and R.H. smooth laggings [1" (25.4mm)]; lagging rope guards; foot accelerator; swing snubber and swing brakes; ropes; 100,000# (45360Kg) two piece counterweight.

Weight: 123,820 lbs. (56164Kg)

BOOM EQUIPMENT (Ref: A-2)



Boom Point (Incl. Sheaves)	5,840 lbs. (2649Kg)
Boom Base	4,980 lbs. (2259Kg)
Mast	4,610 lbs. (2091Kg)
Pendants For Basic Boom	430 lbs. (195Kg)
Boom Stops	1,380 lbs. (626Kg)
Wire Ropes	4,130 lbs. (1873Kg)
R.H. Hoist Drum	1,250 lbs. (567Kg)
L.H. Hoist Drum	1,200 lbs. (544Kg)

ADDITIONAL

Boom Extensions (Incl. Pendants)	
10' (3.05M)	1,460 lbs. (662Kg)
20' (6.10M)	2,320 lbs. (1050Kg)
40' (12.2M)	4,010 lbs. (1819Kg)

MIDPOINT SUSPENSION

200' (61.0M) thru 220' (67.1M) Booms	930 lbs. (422Kg)
230' (70.1M) thru 250' (76.2M) Booms	1,060 lbs. (481Kg)

OPTIONAL JIB EQUIPMENT (Ref: AO-125)



Jib Point (Incl. Sheave)	610 lbs. (277Kg)
Jib Base	400 lbs. (181Kg)
Strut	600 lbs. (272Kg)
Basic Pendants	370 lbs. (168Kg)
Jib Extension (Incl. Pendants)	
20' (6.10M)	785 lbs. (356Kg)



158.7 METRIC TON TUBULAR BOOM CLASS 5.2-407 Per U.S. Dept. of Commerce Standard C590-59					CHART NO. 6035168—CRAWLER CRANE CAPACITY CHART Capacities Per SAE Code J765a Date: May, 1977										1.07M TR MAXIMUM COUNTERWEIGHT—45.3				
Boom, or Boom Plus Jib					Boom, or Boom Plus Jib					Boom, or Boom Plus Jib					Boom, or Boom Plus Jib				
L	R	A	H	Capacity Side/End	L	R	A	H	Capacity Side/End	L	R	A	H	Capacity Side/End	L	R	A	H	Capacity Side/End
18.3M	5.2	79.7	20.0	*158,700	39.6M	8.1	80.9	41.1	73,100	54.9M	10.5	80.9	56.2	49,400	67.1M	12.4	81.0	68.2	31,300
	6	77.1	19.8	121,300		10	78.2	40.8	53,500		12	79.4	55.9	40,900		14	79.6	68.0	28,300
	8	70.5	19.2	74,800		12	75.2	40.3	41,300		14	77.2	55.5	32,800		17	77.0	67.3	24,900
	10	63.7	18.3	53,700		14	72.2	39.7	33,300		17	74.0	54.7	24,900		20	74.3	66.5	21,800
	12	56.3	17.1	41,600		17	67.6	38.6	25,500		20	70.7	53.7	19,800		23	71.6	65.6	18,100
	14	48.3	15.5	33,700		20	62.8	37.2	20,300		23	67.3	52.6	16,100		26	68.9	64.5	14,500
	16	39.1	13.3	28,100		23	57.7	35.4	16,700		26	63.9	51.2	13,400		29	66.1	63.3	12,100
	18	27.3	10.2	24,100		26	52.4	33.3	14,100		29	60.3	49.6	11,300		32	63.3	61.8	10,100
18.3	25.2	9.6	23,500	29	46.7	30.7	12,000	32	56.7	47.7	9,700	35	60.4	60.2	8,600				
21.3M	5.3	80.9	23.1	*155,900	42.7M	8.6	81.0	44.2	67,200	57.9M	11	81.0	59.2	46,400	70.1M	12.9	81.0	71.2	31,300
	7	76.2	22.7	91,900		10	79.0	43.9	53,500		12	79.9	59.0	40,700		14	80.0	71.1	28,300
	9	70.6	22.1	62,600		12	76.3	43.4	41,200		14	77.9	58.6	32,700		17	77.5	70.5	24,900
	11	64.7	21.2	46,900		14	73.5	42.9	33,200		17	74.9	57.9	24,800		20	75.0	69.7	21,800
	13	58.6	20.1	37,200		17	69.2	41.9	25,400		20	71.8	57.0	19,600		23	72.5	68.8	18,100
	15	52.0	18.7	30,700		20	64.9	40.6	20,200		23	68.6	55.9	16,000		26	69.9	67.8	14,500
	18	40.6	15.7	24,000		23	60.3	39.0	16,600		26	65.4	54.6	13,300		29	67.2	66.6	12,100
	21	25.5	11.0	19,500		26	55.5	37.1	13,900		29	62.0	53.1	11,200		32	64.5	65.2	10,100
21.3	23.2	10.2	19,100	29	50.5	34.6	11,800	32	58.6	51.4	9,600	35	61.8	63.7	9,000				
24.4M	5.7	81.0	26.1	132,500	45.7M	9.1	80.9	47.2	61,700	61.0M	11.5	81.0	62.2	43,400	73.2M	13.4	80.9	74.3	31,300
	7	77.9	25.8	91,800		11	78.5	46.8	46,500		13	79.5	61.9	36,200		15	79.7	74.0	28,300
	9	73.1	25.3	62,600		13	75.9	46.3	36,700		15	77.6	61.5	29,500		18	77.3	73.3	24,900
	11	68.1	24.6	46,900		15	73.3	45.8	30,000		18	74.7	60.8	22,600		21	74.8	72.6	21,800
	13	62.9	23.6	37,200		18	69.4	44.7	23,300		21	71.7	59.9	18,100		24	72.4	71.7	18,100
	15	57.4	22.4	30,600		21	65.3	43.5	18,800		24	68.7	58.8	14,800		27	69.9	70.7	14,500
	18	48.5	20.1	23,900		24	61.0	41.9	15,500		27	65.6	57.5	12,300		30	67.4	69.5	12,100
	21	38.0	16.8	19,400		27	56.6	40.1	13,000		30	62.5	56.0	10,300		33	64.8	68.1	10,100
24	24.1	11.7	16,200	30	52.0	37.9	11,100	33	59.3	54.3	8,800	36	62.2	66.6	9,000				
24.4	21.7	10.8	15,600	33	47.0	35.3	9,600	36	55.9	52.4	7,500	39	59.5	64.9	8,400				
27.4M	6.2	81.0	29.1	114,100	48.8M	9.6	80.9	50.2	57,200	64.0M	11.9	81.0	65.2	40,600	76.2M	13.8	81.0	77.3	31,300
	8	77.2	28.7	74,700		11	79.2	49.9	46,400		13	80.0	65.0	36,200		15	80.1	77.1	28,300
	10	72.8	28.2	53,600		13	76.8	49.5	36,600		15	78.2	64.6	29,300		18	77.8	76.5	24,900
	12	68.4	27.4	41,500		15	74.4	49.0	29,900		18	75.4	63.9	22,500		21	75.5	75.7	21,800
	14	63.8	26.5	33,600		18	70.7	48.0	23,200		21	72.6	63.1	17,900		24	73.1	74.9	18,100
	17	56.5	24.8	25,800		21	66.9	46.8	18,600		24	69.8	62.0	14,600		27	70.7	73.9	14,500
	20	48.5	22.4	20,700		24	63.0	45.4	15,400		27	66.9	60.8	12,100		30	68.3	72.8	12,100
	23	39.4	19.2	17,100		27	59.0	43.7	12,900		30	63.9	59.4	10,200		33	65.9	71.5	10,100
26	27.9	14.6	14,500	30	54.7	41.7	11,000	33	60.9	57.8	8,600	36	63.4	70.1	9,000				
27.4	20.4	11.3	13,400	33	50.3	39.4	9,400	36	57.7	56.0	7,300	39	60.8	68.5	8,400				
30.5M	6.7	80.9	32.1	100,200	51.8M	10	81.0	53.2	53,100	64.0M	11.9	81.0	65.2	40,600	76.2M	13.8	81.0	77.3	31,300
	8	78.5	31.9	74,700		12	78.7	52.8	40,900		13	80.0	65.0	36,200		15	80.1	77.1	28,300
	10	74.6	31.4	53,600		14	76.5	52.4	32,900		15	78.2	64.6	29,300		18	77.8	76.5	24,900
	12	70.6	30.7	41,500		17	73.0	51.5	25,000		18	75.4	63.9	22,500		21	75.5	75.7	21,800
	14	66.6	29.9	33,500		20	69.5	50.5	19,900		21	72.6	63.1	17,900		24	73.1	74.9	18,100
	17	60.2	28.4	25,700		23	65.9	49.3	16,300		24	69.8	62.0	14,600		27	70.7	73.9	14,500
	20	53.5	26.4	20,600		26	62.2	47.8	13,600		27	66.9	60.8	12,100		30	68.3	72.8	12,100
	23	46.0	23.8	17,000		29	58.4	46.0	11,500		30	63.9	59.4	10,200		33	65.9	71.5	10,100
26	37.4	20.3	14,300	32	54.4	44.0	9,900	33	60.9	57.8	8,600	36	63.4	70.1	9,000				
30.5	19.3	11.8	11,400	35	50.2	41.7	8,500	36	57.7	56.0	7,300	39	60.8	68.5	8,400				
33.5M	7.2	81.0	35.1	89,700	54.8M	10	81.0	53.2	53,100	64.0M	11.9	81.0	65.2	40,600	76.2M	13.8	81.0	77.3	31,300
	9	77.8	34.8	62,600		12	78.7	52.8	40,900		13	80.0	65.0	36,200		15	80.1	77.1	28,300
	11	74.2	34.2	46,800		14	76.5	52.4	32,900		15	78.2	64.6	29,300		18	77.8	76.5	24,900
	13	70.6	33.6	37,000		17	73.0	51.5	25,000		18	75.4	63.9	22,500		21	75.5	75.7	21,800
	15	67.0	32.8	30,400		20	69.5	50.5	19,900		21	72.6	63.1	17,900		24	73.1	74.9	18,100
	18	61.2	31.3	23,700		23	65.9	49.3	16,300		24	69.8	62.0	14,600		27	70.7	73.9	14,500
	21	55.2	29.4	19,200		26	62.2	47.8	13,600		27	66.9	60.8	12,100		30	68.3	72.8	12,100
	24	48.6	27.0	15,900		29	58.4	46.0	11,500		30	63.9	59.4	10,200		33	65.9	71.5	10,100
27	41.3	24.0	13,500	32	54.4	44.0	9,900	33	60.9	57.8	8,600	36	63.4	70.1	9,000				
33.5	18.4	12.3	9,800	35	50.2	41.7	8,500	36	57.7	56.0	7,300	39	60.8	68.5	8,400				
36.6M	7.7	81.0	38.1	80,600	57.8M	10	81.0	53.2	53,100	64.0M	11.9	81.0	65.2	40,600	76.2M	13.8	81.0	77.3	31,300
	9	78.8	37.9	62,700		12	78.7	52.8	40,900		13	80.0	65.0	36,200		15	80.1	77.1	28,300
	11	75.6	37.4	46,700		14	76.5	52.4	32,900		15	78.2	64.6	29,300		18	77.8	76.5	24,900
	13	72.3	36.8	36,900		17	73.0	51.5	25,000		18	75.4	63.9	22,500		21	75.5	75.7	21,800
	15	69.0	36.1	30,300		20	69.5	50.5	19,900		21	72.6	63.1	17,900		24	73.1	74.9	18,100
	18	63.8	34.8	23,600		23	65.9	49.3	16,300		24	69.8	62.0	14,600		27	70.7	73.9	14,500
	21	58.4	33.1	19,000		26	62.2	47.8	13,600		27	66.9	60.8	12,100		30	68.3	72.8	12,100
	24	52.7	31.0	15,800		29	58.4	46.0	11,500		30	63.9	59.4	10,200		33	65.9	71.5	10,100
27	46.5	28.3	13,300	32	54.4	44.0	9,900	33	60.9	57.8	8,600	36	63.4	70.1	9,000				
30	39.5	25.1	11,400	35	50.2	41.7	8,500	36	57.7	56.0	7,300	39	60.8	68.5	8,400				
33	31.3	20.8	9,900	38	45.7	38.9	7,400	39	54.5	54.0	6,300	42	58.2	66.7	7,400				
36	20.4	14.5	8,600	41	40.8	35.7	6,500	42	51.1	51.7	5,400	45	55.5	64.7	6,400				
36.6	17.5	12.8	8,400	44	35.4	31.9	5,600	45	47.6	49.1	4,600	48	52.7	62.5	6,000				
				47	29.2	27.1	4,900	48	43.8	46.2	3,900	51	49.8	60.1	5,400				
				50	21.3	20.6	4,300	51	39.7	42.8	3,300	54	46.8	57.4	4,900				
				51.8	14.6	14.9	4,000	54	35.3	38.8	2,800	57	43.6	54.4	4,400				
									60	24.4	28.3	1,900	60	40.2	51.0	3,900			
									63	16.7	20.2	1,600	61	39.0	49.9	3,400			
									64	13.1	16.3	1,500							
L = Boom length or boom plus jib combination length R = Load radius from ϕ of rotation H = Height of boom only point shaft above ground A = Angle of boom only ϕ to horizontal (A) = Reference number and not a boom angle [A] = Not a boom angle reference number only Not applicable for boom plus jibs See example for use with jibs																			



BOOM PLUS JIB

Combined Length	R	(A)	Capacity Side/Rear	Combined Length	R	(A)	Capacity Side/Rear	Combined Length	R	(A)	Capacity Side/Rear
79.2M (Boom + Jib) ▲	15	81.0	*22,500	82.3M (Boom + Jib) ▲	16.6	81.0	*22,500	85.3M (Boom + Jib) ▲	17.7	81.0	*15,500
	18	78.8	*21,900		18	80.0	*22,500		18	80.8	*15,500
	21	76.6	18,000		21	77.8	17,900		21	78.8	*14,500
	24	74.3	14,600		24	75.7	14,500		24	76.7	14,400
	27	72.1	12,000		27	73.7	13,900		27	74.6	13,800
	30	69.8	10,000		30	71.3	9,900		30	72.5	9,800
	33	67.4	8,400		33	69.1	8,300		33	70.3	8,200
	36	65.1	7,100		36	66.8	7,000		36	68.1	6,900
	39	62.6	6,000		39	64.5	5,900		39	65.9	5,800
	42	60.2	5,000		42	62.1	4,900		42	63.7	4,800
	45	57.6	4,200		45	59.7	4,100		45	61.4	4,000
	48	55.0	3,500		48	57.2	3,400		48	59.0	3,300
79.2M (Boom + Jib) ▲	51	52.3	2,900	82.3M (Boom + Jib) ▲	51	54.6	2,800	85.3M (Boom + Jib) ▲	51	56.6	2,700
	54	49.5	2,400		54	52.0	2,300		54	54.1	2,200
	57	46.5	1,900		57	49.2	1,800		57	51.5	1,700
	60	43.4	1,400		60	46.4	1,300		60	48.8	1,200
	61	42.4	1,300		61	45.4	1,200		61	47.9	1,100

Read maximum jib rating chart for possible downrating below the values shown

▲ The midpoint sag of a boom plus jib combination is the same as the midpoint sag of the boom only

MAXIMUM JIB RATING CHART

[A]	6.1M Jib			12.2M Jib			18.3M Jib		
	Jib Offset			Jib Offset			Jib Offset		
	Minimum	Intermediate	Maximum	Minimum	Intermediate	Maximum	Minimum	Intermediate	Maximum
80	*22,600kg	*22,500kg	*22,400kg	*22,600kg	*17,400kg	*11,800kg	*15,500kg	*11,600kg	*7,400kg
75	*22,600kg	*21,900kg	*21,100kg	*21,900kg	*15,200kg	*10,900kg	*14,500kg	*10,100kg	*6,900kg
70	*22,600kg	*21,300kg	*20,000kg	*20,800kg	*13,700kg	*10,100kg	*12,900kg	*9,000kg	*6,500kg
65	*22,600kg	*20,600kg	*18,600kg	*19,700kg	*12,500kg	*9,400kg	*11,300kg	*8,200kg	*6,100kg
60	*22,600kg	*20,200kg	*17,800kg	*17,200kg	*11,700kg	*8,900kg	*9,900kg	*7,500kg	*5,700kg
55	*22,600kg	*19,900kg	*17,100kg	*15,500kg	*10,900kg	*8,600kg	*8,800kg	*6,900kg	*5,400kg
50	*22,000kg	*19,300kg	*16,600kg	*14,100kg	*10,200kg	*8,200kg	*8,100kg	*6,500kg	*5,100kg
45	*20,800kg	*18,500kg	*16,100kg	*13,200kg	*9,600kg	*7,900kg			
40	*19,600kg	*17,700kg	*15,900kg	*12,300kg	*9,100kg	*5,600kg			
35	*18,700kg	*16,700kg	*15,600kg						
30	*17,800kg	*16,300kg	*15,400kg						

- A When the machine is equipped with a boom plus jib combination, the maximum permissible load radius over the jib point is the length of the boom in this combination or 61.0M, whichever is less.
- B The lifting capacity of a boom plus jib combination 76.2M or less is the capacity of the boom equal to this combined length (length of boom plus length of jib), but shall not be greater than the appropriate capacity shown on the Maximum Jib Rating Chart.
- C The lifting capacity of a boom plus jib combination 79.2M or more is the capacity shown on the chart, but shall not be greater than the appropriate capacity shown on the Maximum Jib Rating Chart.
- D Capacities shown on the Maximum Jib Rating Chart are based upon the structural strength of the jib assembly and shall not be exceeded.

IMPORTANT—DO NOT USE BOOM ANGLE A, (A), or [A] TO ARRIVE AT RADIUS OF LOAD ON JIBS. MEASURE ACTUAL RADIUS ONLY.

JIB CAPACITY DETERMINATION

Example for 45.7M boom, 12.2M jib, intermediate (19.4°) offset, 21.9M jib loading radius

- a The boom length chart to use is 57.9M (45.7M plus 12.2M).
- b Using 57.9M chart for 21.9M radius use next larger radius or 23M which shows 16,000kg. Read value of A as 68.6. Consult jib rating chart for [A] equal to 68.6 or next smaller value. In this case use 65 and find for 12.2M jib at intermediate offset rating = 12,500kg.
- c Jib rating is therefore to be 12,500kg @ 21.9M.
- d For boom and jib combination over 76.2M use (A) in place of A.

This Chart Is Based Upon:

- 1 Loads marked by * are the maximum allowable loads permitted by the structural strength of the parts and are not based upon the stability of the machine.
- 2 All other loads are based upon stability and do not exceed 75% of tipping in the least stable direction.
- 3 Load ratings shown on this chart make no allowance for such factors as the affect of side loads, wind, ground conditions, and operating speeds. The operator therefore shall reduce load ratings in order to take these conditions into account.
- 4 All hook blocks, lifting tackle, and auxiliary load handling devices shall be considered a part of the load to be lifted.
- 5 Exceeding the capacities shown on this chart or altering the counterweight nullifies all warranties.
- 6 Capacities above dashed lines require a length of wire rope greater than furnished as standard with the machine.
- 7 Booms 42.7M long and less may be handled horizontally, without live load, with the mast pinned to the boom base, to provide a low travel height. With longer booms, normal pendant suspension must be used.
- 8 Gantry must always be in lowest position, with upper 76.2mm diameter gantry pins in place, when handling a boom or boom and load. Refer to operator's manual for counterweight handling attachment operating instructions.
- 9 Over the side of the machine is the least stable direction.
- 10 Load ratings are for the machine standing on a firm, solid, level supporting surface.
- 11 If a load radius is between two charted radii, the capacity shown for the larger radius shall apply.

JIB DATA

Length	Offset			
	Position	Distance	Angle	Weight
6.1M	Minimum	0.99M	9.3°	930kg
	Intermediate	1.96M	18.8°	950kg
	Maximum	2.97M	29.2°	970kg
12.2M	Minimum	2.08M	9.8°	1,250kg
	Intermediate	4.04M	19.4°	1,260kg
	Maximum	6.05M	29.7°	1,280kg
18.3M	Minimum	2.77M	8.7°	1,560kg
	Intermediate	5.74M	18.3°	1,570kg
	Maximum	8.76M	28.6°	1,590kg

For desired jib offset, refer to operator's manual for proper rigging instructions.

ROPE REEVING FOR HOOK BLOCKS

Load In Kilograms	No. Part Line
To 11,340	1
Over 11,340	2
Over 22,680	3
Over 34,020	4
Over 45,360	5
Over 56,700	6
Over 68,040	7
Over 79,380	8
Over 90,720	9
Over 102,060	10
Over 113,400	11
Over 124,740	12

Requires 25.4mm Dia. Wire Rope Having a Minimum Breaking Strength of 46,902 Kg.

MAIN BOOM CAPACITY REDUCTION DUE TO A JIB MOUNTED ON THE BOOM

Jib Length	Jib Offset		
	Minimum	Intermediate	Maximum
6.1M	1,300kg	1,300kg	1,400kg
12.2M	2,000kg	2,200kg	2,400kg
18.3M	3,100kg	3,500kg	4,400kg

When lifting a load on the boom point with a jib mounted on the boom, the boom lifting capacity shall be reduced by the amount shown in the above table.

MAXIMUM BOOM OR BOOM PLUS JIB THAT CAN BE HANDLED HORIZONTALLY

Over Side	Over End With Wedges
70.1M	76.2M
67.1M + 6.1M	73.2M + 6.1M
64.0M + 12.2M	70.1M + 12.2M
61.0M + 18.3M	67.1M + 18.3M

CAUTION READ ALL NOTES BEFORE OPERATING MACHINE.

SPECIAL NOTES TO OPERATOR:

- I Before operating this machine the operator shall make himself thoroughly familiar with the contents of the operator's manual furnished with this machine.
- II This machine is stable to the degree that structural failure may be possible if loads are taken to tipping. An accurate load measuring device should be used and/or known loads only should be handled at no greater radius than the chart indicates for the boom length being used.



175 TON TUBULAR BOOM					CHART NO. 6035051—CRAWLER CRANE CAPACITY CHART										42" TREADS				
CLASS 17-998 Per U.S. Dept. of Commerce Standard C590-58					Capacities Per SAE Code J765a—Date: May, 1977										MAXIMUM COUNTERWEIGHT—100,000 LBS.				
Boom or Boom Plus Jib					Boom or Boom Plus Jib					Boom or Boom Plus Jib					Boom or Boom Plus Jib				
L	R	A	H	Capacity Side/End	L	R	A	H	Capacity Side/End	L	R	A	H	Capacity Side/End	L	R	A	H	Capacity Side/End
60'	17'	79.7	65.8	1350,000	130'	26.7'	81.0	135.1'	161,300	180'	34.5'	81.0	184.5'	109,000	220'	40.7'	81.0	224.0'	84,900
	20'	76.8	65.1	259,900		30'	79.5	134.5'	134,900		35'	80.8	184.4'	106,900		45'	79.8	223.3'	73,500
	25'	71.8	63.6'	178,500		35'	77.3	133.5'	107,700		40'	79.2	183.5'	88,100		50'	78.5	222.3'	63,100
	30'	66.7	61.6'	135,100		40'	75.0	132.2'	89,100		45'	77.6	182.5'	74,600		60'	75.8	220.0'	48,500
	35'	61.3	59.1'	108,100		45'	72.7	130.7'	75,600		50'	76.0	181.3'	64,300		70'	73.1	217.1'	38,500
	40'	55.7	55.9'	89,800		50'	70.3	129.0'	65,400		60'	72.6	178.4'	49,700		80'	70.4	213.8'	31,400
	45'	49.6	51.9'	76,500		60'	65.6	124.8'	50,900		70'	69.3	174.9'	39,800		90'	67.6	209.9'	26,000
	50'	42.8	46.9'	66,300		70'	60.6	119.7'	41,100		80'	65.8	170.7'	32,700		100'	64.7	205.4'	21,800
	55'	35.3	41.6'	52,000		80'	55.4	113.3'	34,100		90'	62.3	165.7'	27,400		110'	61.8	200.4'	18,500
	60'	25.3	31.6'			90'	49.8	105.5'	28,800		100'	58.6	160.0'	23,200		120'	58.8	194.6'	15,700
70'	17.3'	81.0	75.9'	1343,700	140'	28.2'	81.0	145.0'	148,200	190'	36.0'	81.0	194.4'	102,300	230'	42.3'	81.0	233.9'	79,500
	20'	78.7	75.4'	259,000		30'	80.3	144.7'	134,900		40'	79.7	193.7'	87,900		45'	80.3	233.4'	72,800
	25'	74.5	74.1'	178,500		35'	78.2	143.7'	107,600		45'	77.6	191.5'	64,000		50'	79.0	232.5'	62,400
	30'	70.2	72.4'	135,100		40'	76.1	142.5'	88,900		50'	76.7	191.5'	39,500		55'	76.5	230.3'	47,700
	35'	65.7	70.3'	108,100		45'	74.0	141.2'	75,400		55'	76.7	191.5'	27,100		60'	73.9	227.6'	37,900
	40'	61.1	67.7'	89,800		50'	71.8	139.6'	65,200		60'	76.7	191.5'	19,600		65'	71.3	224.4'	30,700
	45'	56.3	64.6'	76,400		55'	67.4	135.8'	50,600		65'	76.7	191.5'	12,600		70'	68.6	220.7'	25,400
	50'	51.2	60.8'	66,300		60'	62.9	131.1'	40,900		70'	76.7	191.5'	10,900		75'	65.9	216.5'	21,200
	55'	45.6	56.6'	51,900		65'	58.2	125.3'	33,800		75'	76.7	191.5'	9,400		80'	63.1	211.6'	17,800
	60'	39.5	50.6'			70'	53.2	118.4'	28,500		80'	67.1	181.6'	32,500		85'	60.3	206.2'	15,100
80'	18.8'	81.0	85.8'	292,200	150'	29.8'	81.0	154.9'	136,100	200'	37.6'	81.0	204.3'	95,800	240'	43.9'	81.0	243.8'	75,700
	20'	80.2	85.6'	259,000		30'	80.9	154.9'	134,700		40'	80.3	203.8'	87,600		45'	80.7	243.1'	72,800
	25'	76.5	84.5'	178,500		35'	79.0	153.9'	107,400		45'	77.8	202.9'	73,900		50'	79.5	242.7'	62,400
	30'	72.8	83.0'	135,100		40'	77.0	152.8'	88,700		50'	77.3	201.8'	63,600		55'	77.0	240.5'	47,700
	35'	69.0	81.2'	108,100		45'	75.1	151.6'	75,200		55'	77.3	201.8'	48,900		60'	74.6	238.0'	37,900
	40'	65.1	79.0'	89,700		50'	73.1	150.1'	64,900		60'	74.4	199.2'	39,000		65'	72.1	234.9'	30,700
	45'	61.0	76.4'	76,300		55'	70.4	147.3'	50,100		65'	74.4	199.2'	31,900		70'	69.5	231.4'	25,300
	50'	56.8	73.3'	66,100		60'	68.8	142.2'	40,600		70'	74.4	199.2'	26,500		75'	67.0	227.4'	21,100
	55'	51.2	68.4'	51,700		65'	65.5	137.0'	33,500		75'	74.4	199.2'	21,900		80'	64.3	222.8'	17,700
	60'	47.6	65.3'	37,700		70'	62.5	132.2'	28,200		80'	68.8	192.4'	18,600		85'	61.7	217.7'	15,000
90'	20.4'	81.0	95.6'	251,700	160'	31.4'	81.0	164.8'	126,200	210'	39.1'	81.0	214.2'	89,600	250'	45.4'	81.0	253.7'	70,300
	25'	78.0	94.7'	178,400		35'	79.7	164.1'	107,200		40'	80.7	214.0'	87,200		50'	79.9	252.8'	62,200
	30'	74.7	93.5'	135,000		40'	77.8	163.1'	88,500		45'	79.3	213.1'	73,500		55'	77.6	250.8'	47,500
	35'	71.4	91.9'	108,100		45'	76.0	161.9'	74,900		50'	77.9	212.1'	63,200		60'	75.2	248.3'	37,500
	40'	68.0	90.0'	89,600		50'	74.2	160.5'	64,600		55'	77.9	212.1'	48,500		65'	72.8	245.4'	30,400
	45'	64.5	87.7'	76,200		55'	70.4	157.3'	50,100		60'	77.9	212.1'	31,500		70'	70.4	242.1'	25,000
	50'	60.9	85.0'	66,100		60'	66.5	153.2'	40,200		65'	77.9	212.1'	26,100		75'	67.9	238.2'	20,800
	55'	53.2	78.4'	51,700		65'	62.5	148.4'	33,200		70'	77.9	212.1'	21,900		80'	67.4	233.9'	17,400
	60'	44.7	69.5'	41,900		70'	58.4	142.7'	27,800		75'	77.9	212.1'	18,600		85'	65.4	229.0'	14,600
	70'	34.6	57.1'	34,900		75'	54.1	135.9'	23,700		80'	63.4	194.3'	15,800		90'	60.9	223.9'	12,300
100'	22.0'	81.0	105.5'	221,000	170'	32.9'	81.0	174.6'	117,100	220'	40.1'	81.0	224.2'	89,600	260'	45.4'	81.0	253.7'	70,300
	25'	79.2	105.0'	178,400		35'	80.3	174.3'	107,000		40'	80.7	224.0'	87,200		50'	79.9	252.8'	62,200
	30'	76.3	103.8'	135,000		40'	78.6	173.3'	88,300		45'	79.3	223.1'	73,500		55'	77.6	250.8'	47,500
	35'	73.3	102.4'	108,000		45'	76.8	172.2'	74,800		50'	77.9	222.1'	63,200		60'	75.2	248.3'	37,500
	40'	70.3	100.7'	89,500		50'	75.1	170.9'	64,500		55'	77.9	222.1'	48,500		65'	72.8	245.4'	30,400
	45'	67.2	98.7'	76,000		55'	71.6	167.9'	50,000		60'	77.9	222.1'	31,500		70'	70.4	242.1'	25,000
	50'	64.0	96.4'	65,800		60'	68.0	164.1'	40,100		65'	77.9	222.1'	26,100		75'	67.9	238.2'	20,800
	55'	57.4	90.6'	51,400		65'	64.3	159.6'	33,100		70'	77.9	222.1'	21,900		80'	67.4	233.9'	17,400
	60'	50.3	83.2'	41,600		70'	60.5	154.3'	27,700		75'	77.9	222.1'	18,600		85'	65.4	229.0'	14,600
	70'	42.7	73.4'	34,600		75'	56.5	148.1'	23,600		80'	63.4	194.3'	15,800		90'	60.9	223.9'	12,300
110'	23.5'	81.0	115.4'	197,800	180'	34.9'	81.0	184.5'	109,000	230'	42.3'	81.0	233.9'	79,500	270'	48.0'	81.0	273.9'	62,400
	25'	80.2	115.1'	178,300		35'	80.3	184.2'	106,900		40'	80.7	233.4'	72,800		50'	79.0	232.5'	62,400
	30'	77.6	114.1'	135,000		40'	78.2	183.2'	104,800		45'	80.3	233.4'	72,800		55'	76.5	230.3'	47,700
	35'	74.9	112.8'	107,900		45'	76.1	182.1'	92,700		50'	79.5	232.5'	62,400		60'	73.9	227.6'	37,900
	40'	72.2	111.3'	89,300		50'	74.0	181.0'	80,600		55'	76.5	230.3'	47,700		65'	71.3	224.4'	30,700
	45'	69.4	109.5'	75,900		55'	71.8	179.9'	68,500		60'	73.9	227.6'	37,900		70'	68.6	220.7'	25,400
	50'	66.6	107.4'	65,700		60'	69.3	177.8'	56,400		65'	73.9	227.6'	37,900		75'	65.9	216.5'	21,200
	55'	60.7	102.3'	51,200		65'	65.6	175.7'	44,300		70'	73.9	227.6'	37,900		80'	63.1	211.6'	17,800
	60'	54.5	95.9'	41,500		70'	62.8	173.6'	32,200		75'	73.9	227.6'	37,900		85'	60.3	206.2'	15,100
	70'	47.8	87.7'	34,400		75'	58.9	171.5'	22,100		80'	63.1	211.6'	17,800		90'	57.4	200.1'	12,700
120'	25.1'	81.0	125.3'	177,700	190'	36.0'	81.0	194.4'	102,300	240'	43.9'	81.0	243.8'	75,700	280'	48.0'	81.0	273.9'	62,400
	30'	78.6	124.3'	135,000		35'	80.3	194.1'	100,200		40'	80.7	243.1'	72,800		50'	79.0	232.5'	62,400
	35'	76.2	123.2'	107,700		40'	78.2	193.2'	98,100		45'	80.3	243.1'	72,800		55'	76.5	230.3'	47,700
	40'	73.7	121.8'	89,100		45'	76.1	192.1'	86,000		50'	79.5	232.5'	62,400		60'	73.9	227.6'	37,900
	45'	71.2	120.2'	75,600		50'	74.0	191.0'	73,900		55'	76.5	230.3'	47,700		65'	71.3	224.4'	30,700
	50'	68.6	118.3'	65,400		55'	71.8	189.9'	61,800		60'	73.9	227.6'	37,900		70'	68.6	220.7'	25,400
	55'	63.4	113.7'	50,900		60'	69.3	188.8'	49,700		65'	73.9	227.6'	37,900		75'	65.9	216.5'	21,200
	60'	57.9	108.0'	41,100		65'	65.6	187.7'	37,600		70'	73.9	227.6'	37,900		80'	63.1	211.6'	17,800
	70'	52.0	100.8'	34,100		70'	62.8	186.6'	25,500		75'	73.9	227.6'	37,900		85'	60.3	206.2'	15,100
	80'	45.6	91.9'	28,800		75'	58.9	185.5'	13,400		80'	63.1	211.6'	17,800		90'	57.4	200.1'	12,700
90'	38.4	80.6'	24,700	80'	55.4	184.4'	11,300	85'	60.3	206.2'	15,100	90'	57.4	200.1'	12,700				
100'	29.7	65.5'	21,300	85'	52.5	183.3'	9,300	90'	58.8	194.6'	15,700	95'	55.7	188.1'	13,400				
120'	17.6	42.2'	18,600	90'	49.8	182.2'	7,300	95'	55.7	188.1'	13,400	100'	52.5	180.8'	11,400				

L = Boom length or boom plus jib combination length

R = Load radius from Q of rotation

H = Height of boom only point shaft above ground

A = Angle of boom only Q to horizontal

(A) = Reference number and not a boom angle

[A] = Not a boom angle reference number only

Not applicable for boom plus jibs

See example for use with jibs



BOOM PLUS JIB											
Combined Length	R	(A)	Capacity Side/Rear	Combined Length	R	(A)	Capacity Side/Rear	Combined Length	R	(A)	Capacity Side/Rear
260' (Boom + Jib) ▲	49' 3"	81.0	*49,700	270' (Boom + Jib) ▲	54' 3"	81.0	*49,700	280' (Boom + Jib) ▲	58' 1"	81.0	*34,200
	50' 0"	80.8	*49,700		60' 0"	79.8	*48,300		60' 0"	80.6	*34,200
	60' 0"	78.6	*48,300		70' 0"	77.6	38,700		70' 0"	78.5	*32,100
	70' 0"	76.3	38,800		80' 0"	75.4	31,300		80' 0"	76.4	31,200
	80' 0"	74.1	31,400		90' 0"	73.2	25,700		90' 0"	74.3	25,600
	90' 0"	71.8	25,800		100' 0"	71.0	21,400		100' 0"	72.1	21,300
	100' 0"	69.4	21,500		110' 0"	68.7	17,900		110' 0"	69.9	17,800
	110' 0"	67.0	18,000		120' 0"	66.4	15,000		120' 0"	67.7	14,900
	120' 0"	64.6	15,100		130' 0"	64.0	12,600		130' 0"	65.5	12,500
	130' 0"	62.1	12,700		140' 0"	61.6	10,600		140' 0"	63.2	10,600
	140' 0"	59.6	10,700		150' 0"	59.1	8,800		150' 0"	60.8	8,700
	150' 0"	57.0	8,900		160' 0"	56.6	7,300		160' 0"	58.4	7,200
	160' 0"	54.3	7,400		170' 0"	53.9	6,000		170' 0"	55.9	5,900
	170' 0"	51.5	6,100		180' 0"	51.2	4,800		180' 0"	53.3	4,700
	180' 0"	48.6	4,900		190' 0"	48.4	3,800		190' 0"	50.7	3,700
	190' 0"	45.6	3,900		200' 0"	45.4	2,800		200' 0"	47.9	2,700
	200' 0"	42.4	2,900								

Read maximum jib rating chart for possible downrating below the values shown

▲ The midpoint sag of a boom plus jib combination is the same as the midpoint sag of the boom only

MAXIMUM JIB RATING CHART									
(A)	20' Jib			40' Jib			60' Jib		
	Jib Offset			Jib Offset			Jib Offset		
	Minimum	Intermediate	Maximum	Minimum	Intermediate	Maximum	Minimum	Intermediate	Maximum
80	*50,000	*49,700	*49,400	*50,000	*38,400	*26,200	*34,200	*25,600	*16,500
75	*50,000	*48,300	*46,700	*48,300	*33,700	*24,200	*32,100	*22,300	*15,300
70	*50,000	*47,100	*44,200	*46,000	*30,200	*22,400	*28,600	*20,000	*14,400
65	*50,000	*45,600	*41,200	*43,500	*27,700	*20,800	*25,000	*18,100	*13,500
60	*50,000	*44,600	*39,300	*38,100	*25,800	*19,700	*22,000	*16,600	*12,700
55	*50,000	*43,900	*37,800	*34,200	*24,200	*19,000	*19,500	*15,300	*12,000
50	*48,700	*42,600	*36,600	*31,300	*22,600	*18,200	*17,900	*14,400	*11,400
45	*46,000	*40,800	*35,700	*29,200	*21,300	*17,600			
40	*43,400	*39,200	*35,100	*27,300	*20,100	*12,500			
35	*41,300	*37,000	*34,500						
30	*39,300	*36,000	*34,000						

- A. When the machine is equipped with a boom plus jib combination, the maximum permissible load radius over the jib point is the length of the boom in this combination or 200', whichever is less.
- B. The lifting capacity of a boom plus jib combination 250' or less is the capacity of the boom equal to this combined length (length of boom plus length of jib), but shall not be greater than the appropriate capacity shown on the Maximum Jib Rating Chart
- C. The lifting capacity of a boom plus jib combination 260' or more is the capacity shown on the chart, but shall not be greater than the appropriate capacity shown on the Maximum Jib Rating Chart.
- D. Capacities shown on the Maximum Jib Rating Chart are based upon the structural strength of the jib assembly and shall not be exceeded

IMPORTANT—DO NOT USE BOOM ANGLE A, (A), or [A] TO ARRIVE AT RADIUS OF LOAD ON JIBS. MEASURE ACTUAL RADIUS ONLY.

JIB CAPACITY DETERMINATION

Example for 150' boom, 40' jib, intermediate (19 4°) offset, 72' jib loading radius

- a. The boom length chart to use is 190' (150' plus 40')
- b. Using 190' chart for 72' radius use next larger radius or 80' which shows 32,500 lbs. Read value of A as 67.1. Consult jib rating chart for [A] equal to 67.1 or next smaller value. In this case use 65 and find for 40' jib at intermediate offset rating = 27,700 lbs
- c. Jib rating is therefore to be 27,700 lbs. @ 72'
- d. For boom and jib combination over 250' use (A) in place of A

This Chart is Based Upon:

1. Loads marked by * are the maximum allowable loads permitted by the structural strength of the parts and are not based upon the stability of the machine
2. Other loads are based upon stability and do not exceed 75% of tipping in the least stable direction
3. Load ratings shown on this chart make no allowance for such factors as the effect of side loads, wind, ground conditions, and operating speeds. The operator therefore shall reduce load ratings in order to take these conditions into account.
4. All hook blocks, lifting tackle, and auxiliary load handling devices shall be considered a part of the load to be lifted
5. Exceeding the capacities shown on this chart or altering the counterweight nullifies all warranties
6. Capacities above dashed lines require a length of wire rope greater than furnished as standard with the machine
7. Booms 140' long and less may be handled horizontally, without live load, with the mast pinned to the boom base, to provide a low travel height. With longer booms, normal pendant suspension must be used
8. Gantry must always be in lowest position, with upper 3" diameter gantry pins in place, when handling a boom or boom and load. Refer to operator's manual for counterweight handling attachment operating instructions
9. Over the side of the machine is the least stable direction
10. Load ratings are for the machine standing on a firm, solid, level supporting surface
11. If a load radius is between two charted radii, the capacity shown for the larger radius shall apply

JIB DATA				
Length	Offset			
	Position	Distance	Angle	Weight
20'-0"	Minimum	3'-3"	9 3°	2,060 Lbs
	Intermediate	6'-5"	18 8°	2,090 Lbs
	Maximum	9'-9"	29 2°	2,135 Lbs
40'-0"	Minimum	6'-10"	9 8°	2,745 Lbs
	Intermediate	13'-3"	19 4°	2,780 Lbs
	Maximum	19'-10"	29 7°	2,820 Lbs
60'-0"	Minimum	9'-1"	8 7°	3,430 Lbs
	Intermediate	18'-10"	18 3°	3,465 Lbs
	Maximum	28'-9"	28 6°	3,505 Lbs

For desired jib offset, refer to operator's manual for proper rigging instructions.

ROPE REEVING FOR HOOK BLOCKS	
Load in Pounds	No. Part Line
To 25,000	1
Over 25,000	2
Over 50,000	3
Over 75,000	4
Over 100,000	5
Over 125,000	6
Over 150,000	7
Over 175,000	8
Over 200,000	9
Over 225,000	10
Over 250,000	11
Over 275,000	12

Requires 1" Dia. Wire Rope Having a Minimum Breaking Strength of 103,400 lbs

MAIN BOOM CAPACITY REDUCTION DUE TO A JIB MOUNTED ON THE BOOM			
Jib Length	Jib Offset		
	Minimum	Intermediate	Maximum
20'-0"	2,800 Lbs	2,900 Lbs	3,100 Lbs
40'-0"	4,400 Lbs	4,800 Lbs	5,200 Lbs
60'-0"	6,700 Lbs	7,700 Lbs	9,600 Lbs

When lifting a load on the boom point with a jib mounted on the boom, the boom lifting capacity shall be reduced by the amount shown in the above table.

MAXIMUM BOOM OR BOOM PLUS JIB THAT CAN BE HANDLED HORIZONTALLY	
Over Side	Over End With Wedges
230'	250'
220' + 20'	240' + 20'
210' + 40'	230' + 40'
200' + 60'	220' + 60'

CAUTION READ ALL NOTES BEFORE OPERATING MACHINE.

SPECIAL NOTES TO OPERATOR:

- I. Before operating this machine the operator shall make himself thoroughly familiar with the contents of the operator's manual furnished with this machine
- II. This machine is stable to the degree that structural failure may be possible if loads are taken to tipping. An accurate load measuring device should be used and/or known loads only should be handled at no greater radius than the chart indicates for the boom length being used