



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W
SERIES 2
CRAWLER

BOOM NO. 22C WITH OPEN THROAT TOP
146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED

WARNING: This chart will apply only when two 12,000 lb. side ctwts. and two 30,000 lb. carbody ctwts. bear MEC registered Serial Numbers.

LIFTING CAPACITIES: Capacities for various boom lengths and operating radii may be based on per cent of tipping, strength of structural components, operating speeds and other factors.

Capacities are for freely suspended loads and do not exceed **75%** of a static tipping load. Capacities based on structural competence are shown by shaded areas.

Capacities are shown in pounds. Deduct 1200 pounds from capacities listed when single sheave upper boom point is attached and 1500 pounds when two sheave upper boom point is attached. To comply with B30.5 requirements, upper boom point cannot be used on the 260 ft. boom. Weight of jib, (see chart A), all load blocks, hooks, weight ball, slings, hoist lines beneath boom and jib point sheaves, etc., is considered part of the main boom load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate in a level position on a firm surface with crawlers fully extended and gantry in working position and be rigged in accordance with and under conditions referred to in rigging drawing No. 190693 and load line specification chart No. 6592-A.

Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, as well as adverse operating conditions & physical machine depreciation.

OPERATING RADIUS: Operating radius is the horizontal distance from the axis of rotation to the center of vertical hoist line or load block with the load freely suspended. Add 14" to boom point radius for radius of sheave when using single part hoist line.

Boom angle is the angle between horizontal and centerline of boom butt and inserts and is an indication of operating radius. In all cases, operating radius shall govern capacity.

BOOM POINT ELEVATION: Boom point elevation, in feet, is the vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 26'6" extendible crawlers, 48" treads, 17' retractable gantry, 12 part boom hoist reeving, four 1 3/8" boom pendants, 1st ctwt. 41,900 lbs., 2nd ctwt. 41,500 lbs., 3rd ctwt. 39,000 lbs., two 12,000 lbs. side ctwt's. and two 30,000 lbs. carbody ctwt's.

HOIST REEVING FOR MAIN LOAD BLOCK						
No. Parts of Line	1	2	3	4	5	6
Max. Load — Lbs.	32,500	65,000	97,500	130,000	162,500	195,000
No. Parts of Line	7	8	9	10	11	12
Max. Load — Lbs.	227,500	260,000	292,500	325,000	357,500	400,000
No. Parts of Line	13	14				
Max. Load — Lbs.	430,000	460,000				

LOAD AND WHIP LINE SPECIFICATIONS	
LOAD LINE: 1-1/8" — 6x31 Warrington-Seale, Extra Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 65 Ton. (Approx. Weight Per Ft. in Lbs. 2.34)	
WHIP LINE: 1-1/8" — 6x31 Warrington-Seale, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 56.5 Ton. Maximum Load — 28,300 Lbs. Per Line. (Approx. Weight Per Ft. in Lbs. 2.34)	

MAXIMUM BOOM AND JIB LENGTHS LISTED UNASSISTED				(A) DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
OVER FRONT OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS		Jib Lgth.	Jib No. 123
Boom Lgth.	Jib No. 123	Boom Lgth.	Jib No. 123		
260'	---	260'	---	30'	3,000 Lb.
250'	---	250'	---	40'	3,600 Lb.
240'	40'	240'	40'	50'	4,200 Lb.
230'	60'	230'	60'	60'	4,900 Lb.

Load block, hook and weight ball on ground at start.

For jib capacities, consult jib chart.

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	
16.5	79.7	75.9	460,000	17	80.6	85.9	392,800	18	81.1	95.9	355,400	19	81.4	105.9	332,900
17	79.3	75.8	400,000	18	79.9	85.8	378,900	19	80.4	95.7	346,900	20	80.8	105.7	327,100
18	78.5	75.6	380,100	19	79.2	85.6	361,800	20	79.8	95.6	336,900	22	79.6	105.4	316,200
19	77.6	75.4	363,000	20	78.5	85.4	346,100	22	78.5	95.2	317,400	24	78.5	105.0	290,800
20	76.8	75.1	347,300	22	77.0	84.9	318,400	24	77.2	94.7	291,700	26	77.3	104.5	263,900
22	75.1	74.6	319,600	24	75.5	84.5	292,500	26	75.9	94.3	264,800	28	76.1	104.1	236,200
24	73.4	74.1	293,400	26	74.0	83.9	265,600	28	74.5	93.7	236,600	30	74.9	103.6	212,900
26	71.7	73.5	266,100	28	72.5	83.3	237,000	30	73.2	93.2	213,400	32	73.7	103.0	193,700
28	69.9	72.8	237,500	30	71.0	82.7	213,800	32	71.9	92.5	194,200	34	72.5	102.4	177,500
30	68.2	72.0	214,300	32	69.5	81.9	194,600	34	70.5	91.9	178,000	36	71.3	101.7	163,700
32	66.4	71.2	195,100	34	68.0	81.2	178,500	36	69.2	91.1	164,200	38	70.1	101.0	151,800
34	64.6	70.2	178,900	36	66.4	80.3	164,700	38	67.8	90.3	152,300	40	68.9	100.3	141,400
36	62.8	69.3	165,200	38	64.8	79.4	152,800	40	66.4	89.5	142,000	45	65.8	98.2	120,500
38	60.9	68.2	153,300	40	63.3	78.4	142,400	45	62.9	87.1	121,100	50	62.6	95.8	104,700
40	59.1	67.0	143,000	45	59.2	75.7	121,500	50	59.3	84.4	105,200	55	59.3	93.0	92,300
45	54.1	63.7	122,100	50	54.9	72.5	105,700	55	55.5	81.2	92,800	60	55.9	89.8	82,300
50	48.9	59.8	106,300	55	50.4	68.6	93,300	60	51.5	77.5	82,900	65	52.4	86.2	74,100
55	43.2	54.9	93,900	60	45.6	64.1	83,400	65	47.3	73.2	74,700	70	48.7	82.1	67,200
60	36.9	49.0	84,000	65	40.3	58.8	75,200	70	42.8	68.2	67,800	75	44.8	77.4	61,400
65	29.4	41.3	75,800	70	34.3	52.2	68,300	75	37.9	62.3	62,000	80	40.5	72.0	56,400
70	19.5	30.3	63,900	75	27.4	43.9	62,500	80	32.4	55.2	57,000	85	35.9	65.6	52,000
				80	18.2	32.0	53,900	85	25.8	46.2	52,600	90	30.7	58.0	48,200
								90	17.1	33.5	45,900	95	24.5	48.5	44,900
												100	16.3	35.0	35,300

CAUTION! CHECK AMOUNT OF COUNTERWEIGHT ON MACHINE BEFORE USE OF THIS CHART.

Capacities continued on reverse side.

Form No. 6934-A, 7-27-78/GA

