

Liftcrane Luffing Jib Intermediate Fall Capacities

888 SERIES 2

New York City Code
Fixed Jib No. 138 At
3 Degree Offset Angle On
Luffing Jib No. 135 On
Boom No. 22EL
179,100 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
28 Ft. 2 in. Crawlers Extended
360 Degree Rating

Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

LIFTING CAPACITIES: Lifting capacities for various boom lengths, boom angles, luffing jib lengths, fixed jib lengths and intermediate fall operating radii are for freely suspended loads and do not exceed New York City criteria of 1.4 factor applied to total machine moment. Capacities based on structural competence are denoted by an asterisk (*).

Lower boom point assembly must be completely removed on 190 Ft. and 200 Ft. boom lengths.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath intermediate fall is considered part of intermediate fall load. 3,000 Lbs. suspended beneath luffing jib point sheaves has been included in capacity determination. Fixed jib weight and 1,500 Lbs. suspended beneath fixed jib point also included in capacity determination. Boom and luffing jib are 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 on a firm uniformly supporting surface with crawlers fully extended, gantry up and bearing turntable level within a tolerance of 1/2 in. in 10 Ft. and properly supported. During operation, boom must be maintained at one of the selected angles shown in chart. Refer to fixed jib assembly **No. 179361**, luffing jib assembly **No. A07691**, Wire Rope Specification chart **No. 7825-A** and Luffing Jib Raising Procedure chart **No. 7826-B**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and

physical machine depreciation. Refer to operators manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface with boom and luffing jib within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 7827-B**.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line. Boom angle is angle between horizontal and centerline of boom butt and inserts. Luffing jib angle is angle between horizontal and centerline of luffing jib butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

INTERMEDIATE FALL ELEVATION: Intermediate fall elevation is vertical distance from ground level to centerline of intermediate fall shaft.

MACHINE EQUIPMENT: Machine equipped with 28 Ft. 2 in. extendible crawlers, 48 in. treads, 10 Ft. 3 in. retractable gantry, 30 Ft. live mast, 20 part boom hoist reeving, four 1-3/8 in. boom pendants, 8 part luffing jib hoist reeving, two 1-1/2 in. luffing jib pendants and backstays, 179,100 Lb. crane counterweight and 44,000 Lb. carbody counterweight.

Consult chart **No. 7887-A** for luffing jib capacities. Consult chart **No. 7998-A** for fixed jib on luffing jib capacities. Consult chart **No. 8519-A** for intermediate fall capacities with fixed jib removed.

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160 Ft. Boom, 140 Ft. Luffing Jib 30 Ft. - 60 Ft. Fixed Jib

Int. Fall Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle		
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall	
		Elev. Feet	Capacity Pounds		Elev. Feet	Capacity Pounds
35	71.8	228.1	15,000*			
40	66.9	226.1	15,000*			
45	61.9	223.6	15,000*			
50	56.6	220.5	15,000*	70.7	226.4	15,000*
55	51.0	216.6	15,000*	65.8	224.3	15,000*
60	44.8	211.9	12,800*	60.8	221.7	15,000*
65	37.8	206.0	11,000*	55.4	218.4	15,000*
70	29.5	198.1	9,600*	49.7	214.4	14,700*
75	17.6	185.9	8,500*	43.4	209.4	12,500*
80				36.1	203.2	10,800*
85				27.3	194.7	9,500*
90				13.7	180.4	8,400*

160 Ft. Boom, 160 Ft. Luffing Jib 30 Ft. - 60 Ft. Fixed Jib

Int. Fall Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle		
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall	
		Elev. Feet	Capacity Pounds		Elev. Feet	Capacity Pounds
35	71.8	228.1	15,000*			
40	66.9	226.1	15,000*			
45	61.9	223.6	15,000*			
50	56.6	220.5	15,000*	70.7	226.4	15,000*
55	51.0	216.6	13,900*	65.8	224.3	15,000*
60	44.8	211.9	11,800*	60.8	221.7	15,000*
65	37.8	206.0	10,200*	55.4	218.4	15,000*
70	29.5	198.1	9,000*	49.7	214.4	13,600*
75	17.6	185.9	8,000*	43.4	209.4	11,600*
80				36.1	203.2	10,000*
85				27.3	194.7	8,800*
90				13.7	180.4	7,800*

160 Ft. Boom, 150 Ft. Luffing Jib 30 Ft. - 60 Ft. Fixed Jib

Int. Fall Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle		
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall	
		Elev. Feet	Capacity Pounds		Elev. Feet	Capacity Pounds
35	71.8	228.1	15,000*			
40	66.9	226.1	15,000*			
45	61.9	223.6	15,000*			
50	56.6	220.5	15,000*	70.7	226.4	15,000*
55	51.0	216.6	14,300*	65.8	224.3	15,000*
60	44.8	211.9	12,200*	60.8	221.7	15,000*
65	37.8	206.0	10,500*	55.4	218.4	15,000*
70	29.5	198.1	9,200*	49.7	214.4	14,000*
75	17.6	185.9	8,100*	43.4	209.4	11,900*
80				36.1	203.2	10,300*
85				27.3	194.7	9,000*
90				13.7	180.4	8,000*

160 Ft. Boom, 170 Ft. Luffing Jib 30 Ft. - 60 Ft. Fixed Jib

Int. Fall Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle		
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall	
		Elev. Feet	Capacity Pounds		Elev. Feet	Capacity Pounds
35	71.8	228.1	15,000*			
40	66.9	226.1	15,000*			
45	61.9	223.6	15,000*			
50	56.6	220.5	15,000*	70.7	226.4	15,000*
55	51.0	216.6	13,800*	65.8	224.3	15,000*
60	44.8	211.9	11,800*	60.8	221.7	15,000*
65	37.8	206.0	10,200*	55.4	218.4	15,000*
70	29.5	198.1	9,000*	49.7	214.4	13,500*
75	17.6	185.9	8,100*	43.4	209.4	11,500*
80				36.1	203.2	10,000*
85				27.3	194.7	8,900*
90				13.7	180.4	7,900*

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180 Ft. Boom, 140 Ft. Luffing Jib 30 Ft. - 60 Ft. Fixed Jib

Int. Fall Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle		
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall	
		Elev. Feet	Capacity Pounds		Elev. Feet	Capacity Pounds
35	72.4	248.4	15,000*			
40	67.6	246.4	15,000*			
45	62.6	244.0	15,000*			
50	57.4	240.9	15,000*			
55	51.8	237.2	15,000*	68.2	245.3	15,000*
60	45.7	232.6	13,200*	63.3	242.9	15,000*
65	38.9	226.9	11,400*	58.1	239.9	15,000*
70	30.8	219.4	9,900*	52.5	236.3	15,000*
75	19.7	208.1	8,700*	46.5	231.9	13,800*
80				39.8	226.3	11,800*
85				31.9	219.0	10,200*
90				21.4	208.5	9,000*

180 Ft. Boom, 160 Ft. Luffing Jib 30 Ft. - 60 Ft. Fixed Jib

Int. Fall Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle		
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall	
		Elev. Feet	Capacity Pounds		Elev. Feet	Capacity Pounds
35	72.4	248.4	15,000*			
40	67.6	246.4	15,000*			
45	62.6	244.0	15,000*			
50	57.4	240.9	15,000*			
55	51.8	237.2	14,500*	68.2	245.3	15,000*
60	45.7	232.6	12,200*	63.3	242.9	15,000*
65	38.9	226.9	10,500*	58.1	239.9	15,000*
70	30.8	219.4	9,200*	52.5	236.3	15,000*
75	19.7	208.1	8,200*	46.5	231.9	12,700*
80				39.8	226.3	10,900*
85				31.9	219.0	9,500*
90				21.4	208.5	8,400*

180 Ft. Boom, 150 Ft. Luffing Jib 30 Ft. - 60 Ft. Fixed Jib

Int. Fall Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle		
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall	
		Elev. Feet	Capacity Pounds		Elev. Feet	Capacity Pounds
35	72.4	248.4	15,000*			
40	67.6	246.4	15,000*			
45	62.6	244.0	15,000*			
50	57.4	240.9	15,000*			
55	51.8	237.2	14,900*	68.2	245.3	15,000*
60	45.7	232.6	12,600*	63.3	242.9	15,000*
65	38.9	226.9	10,800*	58.1	239.9	15,000*
70	30.8	219.4	9,400*	52.5	236.3	15,000*
75	19.7	208.1	8,300*	46.5	231.9	13,100*
80				39.8	226.3	11,200*
85				31.9	219.0	9,700*
90				21.4	208.5	8,500*

180 Ft. Boom, 170 Ft. Luffing Jib 30 Ft. - 60 Ft. Fixed Jib

Int. Fall Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle		
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall	
		Elev. Feet	Capacity Pounds		Elev. Feet	Capacity Pounds
35	72.4	248.4	15,000*			
40	67.6	246.4	15,000*			
45	62.6	244.0	15,000*			
50	57.4	240.9	15,000*			
55	51.8	237.2	14,300*	68.2	245.3	15,000*
60	45.7	232.6	12,200*	63.3	242.9	15,000*
65	38.9	226.9	10,600*	58.1	239.9	15,000*
70	30.8	219.4	9,300*	52.5	236.3	15,000*
75	19.7	208.1	8,300*	46.5	231.9	12,700*
80				39.8	226.3	10,900*
85				31.9	219.0	9,500*
90				21.4	208.5	8,500*

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179,100 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
28 Ft. 2 in. Crawlers Extended
360 Degree Rating

190 Ft. Boom, 140 Ft. Luffing Jib 30 Ft. - 60 Ft. Fixed Jib

Int. Fall Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle		
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall	
		Elev. Feet	Capacity Pounds		Elev. Feet	Capacity Pounds
35	72.8	258.5	15,000*			
40	68.0	256.6	15,000*			
45	63.0	254.1	15,000*			
50	57.8	251.2	15,000*			
55	52.2	247.5	15,000*	69.4	255.7	15,000*
60	46.1	243.0	13,500*	64.5	253.4	15,000*
65	39.4	237.3	11,600*	59.4	250.6	15,000*
70	31.4	230.0	10,100*	53.9	247.2	15,000*
75	20.7	219.1	8,900*	48.0	242.9	14,500*
80				41.5	237.7	12,300*
85				34.0	230.9	10,700*
90				24.4	221.5	9,300*
95				5.2	200.8	8,300*

190 Ft. Boom, 160 Ft. Luffing Jib 30 Ft. - 60 Ft. Fixed Jib

Int. Fall Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle		
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall	
		Elev. Feet	Capacity Pounds		Elev. Feet	Capacity Pounds
35	72.8	258.5	15,000*			
40	68.0	256.6	15,000*			
45	63.0	254.1	15,000*			
50	57.8	251.2	15,000*			
55	52.2	247.5	14,700*	69.4	255.7	15,000*
60	46.1	243.0	12,500*	64.5	253.4	15,000*
65	39.4	237.3	10,700*	59.4	250.6	15,000*
70	31.4	230.0	9,400*	53.9	247.2	15,000*
75	20.7	219.1	8,300*	48.0	242.9	13,400*
80				41.5	237.7	11,400*
85				34.0	230.9	9,900*
90				24.4	221.5	8,700*
95				5.2	200.8	7,800*

190 Ft. Boom, 150 Ft. Luffing Jib 30 Ft. - 60 Ft. Fixed Jib

Int. Fall Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle		
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall	
		Elev. Feet	Capacity Pounds		Elev. Feet	Capacity Pounds
35	72.8	258.5	15,000*			
40	68.0	256.6	15,000*			
45	63.0	254.1	15,000*			
50	57.8	251.2	15,000*			
55	52.2	247.5	15,000*	69.4	255.7	15,000*
60	46.1	243.0	12,800*	64.5	253.4	15,000*
65	39.4	237.3	11,000*	59.4	250.6	15,000*
70	31.4	230.0	9,600*	53.9	247.2	15,000*
75	20.7	219.1	8,400*	48.0	242.9	13,800*
80				41.5	237.7	11,700*
85				34.0	230.9	10,100*
90				24.4	221.5	8,900*
95				5.2	200.8	7,900*

190 Ft. Boom, 170 Ft. Luffing Jib 30 Ft. - 60 Ft. Fixed Jib

Int. Fall Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle		
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall	
		Elev. Feet	Capacity Pounds		Elev. Feet	Capacity Pounds
35	72.8	258.5	15,000*			
40	68.0	256.6	15,000*			
45	63.0	254.1	15,000*			
50	57.8	251.2	15,000*			
55	52.2	247.5	14,600*	69.4	255.7	15,000*
60	46.1	243.0	12,400*	64.5	253.4	15,000*
65	39.4	237.3	10,700*	59.4	250.6	15,000*
70	31.4	230.0	9,400*	53.9	247.2	15,000*
75	20.7	219.1	8,400*	48.0	242.9	13,300*
80				41.5	237.7	11,400*
85				34.0	230.9	9,900*
90				24.4	221.5	8,800*
95				5.2	200.8	7,900*

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44,000 Lb. Carbody Counterweight
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**200 Ft. Boom, 140 Ft. Luffing Jib
30 Ft. - 60 Ft. Fixed Jib**

Int. Fall Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle		
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall	
		Elev. Feet	Capacity Pounds		Elev. Feet	Capacity Pounds
35	73.1	268.6	15,000*			
40	68.3	266.7	15,000*			
45	63.3	264.3	15,000*			
50	58.1	261.4	15,000*			
55	52.6	257.8	15,000*	70.6	266.1	15,000*
60	46.6	253.3	13,700*	65.7	264.0	15,000*
65	39.9	247.8	11,800*	60.6	261.3	15,000*
70	32.0	240.6	10,300*	55.3	258.0	15,000*
75	21.6	230.1	9,000*	49.5	254.0	15,000*
80				43.2	249.0	13,000*
85				35.9	242.7	11,200*
90				27.0	234.1	9,700*
95				13.1	219.5	8,600*

**200 Ft. Boom, 150 Ft. Luffing Jib
30 Ft. - 60 Ft. Fixed Jib**

Int. Fall Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle		
	Jib Angle Degrees	Intermediate Fall		Jib Angle Degrees	Intermediate Fall	
		Elev. Feet	Capacity Pounds		Elev. Feet	Capacity Pounds
35	73.1	268.6	15,000*			
40	68.3	266.7	15,000*			
45	63.3	264.3	15,000*			
50	58.1	261.4	15,000*			
55	52.6	257.8	15,000*	70.6	266.1	15,000*
60	46.6	253.3	13,000*	65.7	264.0	15,000*
65	39.9	247.8	11,200*	60.6	261.3	15,000*
70	32.0	240.6	9,700*	55.3	258.0	15,000*
75	21.6	230.1	8,500*	49.5	254.0	14,500*
80				43.2	249.0	12,300*
85				35.9	242.7	10,600*
90				27.0	234.1	9,200*
95				13.1	219.5	8,200*