

Liftcrane Jib Capacities

Jib No. 182 With 82 Ft. 6 in. Strut On

Boom No. 72A

Mast No. 75A

60 Ft. RINGER Attachment on Screw Jack Pedestals

52,000 Lb. Crane Counterweight

2,061,200 Lb. Auxiliary Counterweight

320,000 Lb. Hanging Steel Counterweight

360 Degree Rating

LIFTING CAPACITIES: Lifting capacities for various boom lengths, jib length and jib operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

Weight of all load blocks, hooks, slings, hoist lines, etc., beneath jib point sheaves, is considered part of jib load. Boom and 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 in a level position on a firm uniformly supporting surface with roller path level within a tolerance of 1-1/4 in. in 60 Ft. and properly supported. Refer to boom rigging **No. 179395**, jib assembly **No. 178341** and Wire Rope Specification chart **No. 7955-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, wind conditions, as well as adverse operating conditions and physical machine depreciation.

WIND CONDITIONS: Machine may be operated in winds up to 30 MPH provided crane operator judgment is used to allow for wind effect on the lifted load and other considerations noted on capacity chart are followed. Wind will

have a considerable effect on a load with a large "sail area" and must be compensated for accordingly by reducing load ratings, reducing operating speeds or by a combination of both. Recommend stopping operation and lowering boom and jib to approximately 75 degree boom angle when wind exceeds 30 MPH. Lower boom and jib to ground when wind is above 50 MPH.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is 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.

JIB POINT ELEVATION: Jib point elevation is vertical distance from ground level to centerline of jib point shaft.

MACHINE EQUIPMENT: Machine equipped with 60 Ft. RINGER attachment, 30 Ft. 9 in. crawlers, 48 in. treads, 28 Ft. retractable gantry, 150 Ft. No. 75A mast with 36 part boom hoist reeving, strap boom pendants, strap jib pendants and backstays, 52,000 Lb. crane counterweight, 2,061,200 Lb. auxiliary counterweight and 320,000 Lb. hanging steel counterweight.

Maximum Boom And Jib Length Lifted Unassisted	
Boom Length	Jib No. 182
303 Ft.	50 Ft.
Load block on ground at start.	

Load block, boom point hanger frame and upper boom point must be removed from main boom for use of this chart.

Warning: Check amount of auxiliary and hanging counterweight on machine before use of this chart.
Hanging steel counterweight must be attached for use of this chart.



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203 Ft. Boom

50 Ft. Jib, 10 Degree Offset

Jib Oper. Rad. Feet	Boom Ang. Deg.	Jib Point Elev. Feet	Minimum Jib Capacity To Swing Pounds	Jib Capacity Pounds
65	85.3	266.1	742,800	2,304,900 *
70	84.2	265.3	621,500	2,265,800 *
75	83.1	264.4	526,100	2,141,600 *
80	81.9	263.4	449,100	2,021,500 *
85	80.8	262.3	385,600	1,913,900 *
90	79.6	261.2	332,400	1,812,600
95	78.5	259.9	287,100	1,663,600
100	77.3	258.5	248,000	1,535,100
105	76.2	257.0	214,000	1,423,100
110	75.0	255.3	184,100	1,324,600
115	73.8	253.6	157,600	1,237,300
120	72.6	251.7	134,000	1,159,400
125	71.4	249.8	112,700	1,089,500
130	70.2	247.7	93,500	1,026,300
135	69.0	245.4	76,100	969,000
140	67.8	243.1	60,200	916,700
145	66.5	240.6	45,600	868,800
150	65.3	238.0	32,200	824,900
155	64.0	235.2	19,700	784,300
160	62.7	232.3	8,200	746,800
165	61.4	229.3		711,900
170	60.1	226.0		679,500
175	58.7	222.6		649,200
180	57.4	219.1		620,900
185	56.0	215.3		594,400
190	54.6	211.4		569,500
195	53.1	207.2		546,000
200	51.6	202.8		523,900
210	48.6	193.4		483,100
220	45.3	182.8		446,500
230	41.9	170.9		413,300 *
240	38.1	157.3		383,100 *
250	34.0	141.6		355,400 *
260	29.2	122.8		324,300 *

228 Ft. Boom

50 Ft. Jib, 10 Degree Offset

Jib Oper. Rad. Feet	Boom Ang. Deg.	Jib Point Elev. Feet	Minimum Jib Capacity To Swing Pounds	Jib Capacity Pounds
65	85.7	291.3	746,700	2,236,500 *
70	84.7	290.5	623,000	2,203,100 *
75	83.7	289.7	525,700	2,171,400 *
80	82.7	288.9	447,300	2,105,900 *
85	81.6	287.9	382,600	1,983,700
90	80.6	286.8	328,300	1,808,300
95	79.5	285.6	282,200	1,658,900
100	78.5	284.4	242,400	1,529,900
105	77.4	283.0	207,700	1,417,600
110	76.4	281.5	177,300	1,318,800
115	75.3	280.0	150,300	1,231,200
120	74.2	278.3	126,300	1,153,100
125	73.2	276.5	104,700	1,082,900
130	72.1	274.6	85,100	1,019,500
135	71.0	272.6	67,400	962,000
140	69.9	270.5	51,200	909,500
145	68.8	268.3	36,400	861,500
150	67.7	266.0	22,700	817,400
155	66.5	263.5	10,100	776,700
160	65.4	260.9		739,100
165	64.2	258.2		704,100
170	63.1	255.4		671,600
175	61.9	252.4		641,300
180	60.7	249.3		612,900
185	59.5	246.0		586,300
190	58.2	242.6		561,300
195	57.0	239.0		537,800
200	55.7	235.3		515,600
210	53.1	227.2		474,800
220	50.4	218.4		438,200
230	47.6	208.6		405,000
240	44.6	197.8		374,900
250	41.4	185.8		341,500 *
260	38.0	172.3		317,700 *
270	34.3	156.8		293,800 *
280	30.0	138.7		268,800 *

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60 Ft. RINGER Attachment on Screw Jack Pedestals

52,000 Lb. Crane Counterweight

2,061,200 Lb. Auxiliary Counterweight

320,000 Lb. Hanging Steel Counterweight

360 Degree Rating

253 Ft. Boom

50 Ft. Jib, 10 Degree Offset

Jib Oper. Rad. Feet	Boom Ang. Deg.	Jib Point Elev. Feet	Minimum Jib Capacity To Swing Pounds	Jib Capacity Pounds
70	85.1	315.8	622,700	2,125,600 *
75	84.2	315.0	523,800	2,099,000 *
80	83.3	314.2	444,100	2,073,700 *
85	82.3	313.3	378,300	1,979,300
90	81.4	312.3	323,200	1,803,500
95	80.4	311.3	276,300	1,653,500
100	79.5	310.1	235,900	1,524,200
105	78.5	308.9	200,700	1,411,500
110	77.5	307.5	169,800	1,312,400
115	76.6	306.1	142,400	1,224,600
120	75.6	304.6	118,000	1,146,200
125	74.6	302.9	96,000	1,075,900
130	73.6	301.2	76,200	1,012,300
135	72.6	299.4	58,200	954,600
140	71.6	297.5	41,800	902,100
145	70.6	295.5	26,700	853,900
150	69.6	293.4	12,900	809,700
155	68.6	291.2		768,900
160	67.6	288.9		731,100
165	66.5	286.4		696,100
170	65.5	283.9		663,500
175	64.4	281.2		633,100
180	63.4	278.4		604,700
185	62.3	275.5		578,000
190	61.2	272.5		553,000
195	60.1	269.3		529,400
200	59.0	266.0		507,200
210	56.7	259.0		466,300
220	54.3	251.3		429,600
230	51.9	242.9		396,400
240	49.4	233.8		366,300
250	46.7	223.8		338,800
260	44.0	212.9		313,500
270	41.0	200.8		284,200 *
280	37.9	187.2		252,600 *
290	34.5	171.9		247,100 *
300	30.7	154.3		214,900 *

278 Ft. Boom

50 Ft. Jib, 10 Degree Offset

Jib Oper. Rad. Feet	Boom Ang. Deg.	Jib Point Elev. Feet	Minimum Jib Capacity To Swing Pounds	Jib Capacity Pounds
70	85.5	341.0	622,000	2,027,100 *
75	84.6	340.3	522,300	1,987,100 *
80	83.8	339.5	441,800	1,949,000 *
85	82.9	338.7	375,500	1,912,500 *
90	82.0	337.8	319,900	1,800,100
95	81.1	336.8	272,600	1,650,000
100	80.3	335.7	231,900	1,520,500
105	79.4	334.6	196,400	1,407,700
110	78.5	333.3	165,300	1,308,500
115	77.6	332.0	137,700	1,220,500
120	76.7	330.6	113,100	1,142,100
125	75.8	329.2	90,900	1,071,600
130	74.9	327.6	71,000	1,008,000
135	74.0	325.9	52,900	950,200
140	73.1	324.2	36,300	897,600
145	72.2	322.3	21,200	849,400
150	71.2	320.4	7,300	805,100
155	70.3	318.4		764,300
160	69.4	316.3		726,500
165	68.4	314.1		691,500
170	67.5	311.8		658,800
175	66.5	309.3		628,400
180	65.5	306.8		600,000
185	64.6	304.2		573,300
190	63.6	301.5		548,200
195	62.6	298.6		524,700
200	61.6	295.7		502,400
210	59.6	289.4		461,600
220	57.5	282.5		424,900
230	55.3	275.2		391,700
240	53.1	267.2		361,600
250	50.8	258.6		334,200
260	48.5	249.2		309,000
270	46.0	239.0		285,800
280	43.4	227.9		263,800 *
290	40.7	215.7		236,500 *
300	37.8	202.2		209,800 *
310	34.7	187.1		207,800 *
320	31.3	169.9		180,400 *
330	27.4	149.9		166,400 *



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52,000 Lb. Crane Counterweight

2,061,200 Lb. Auxiliary Counterweight

320,000 Lb. Hanging Steel Counterweight

360 Degree Rating

303 Ft. Boom

50 Ft. Jib, 10 Degree Offset

Jib Oper. Rad. Feet	Boom Ang. Deg.	Jib Point Elev. Feet	Minimum Jib Capacity To Swing Pounds	Jib Capacity Pounds
70	85.8	366.1	620,100	1,857,400 *
75	85.0	365.5	518,800	1,825,200 *
80	84.2	364.8	437,200	1,790,200 *
85	83.4	364.0	369,900	1,756,600 *
90	82.6	363.2	313,500	1,724,300 *
95	81.8	362.3	265,600	1,624,400 *
100	81.0	361.3	224,300	1,514,000
105	80.1	360.2	188,300	1,400,900
110	79.3	359.1	156,700	1,301,400
115	78.5	357.8	128,800	1,213,300
120	77.7	356.5	103,800	1,134,600
125	76.8	355.2	81,500	1,064,000
130	76.0	353.7	61,200	1,000,200
135	75.2	352.2	42,900	942,300
140	74.3	350.6	26,200	889,600
145	73.5	348.9	10,800	841,300
150	72.6	347.1		796,900
155	71.8	345.3		756,000
160	70.9	343.3		718,100
165	70.0	341.3		683,000
170	69.2	339.2		650,300
175	68.3	337.0		619,800
180	67.4	334.7		591,300
185	66.5	332.3		564,600
190	65.6	329.8		539,500
195	64.7	327.2		515,900
200	63.8	324.5		493,600
210	61.9	318.8		452,700
220	60.1	312.6		415,900
230	58.1	306.0		382,800
240	56.2	298.9		352,600
250	54.2	291.3		325,200
260	52.1	283.0		300,000
270	49.9	274.2		276,800
280	47.7	264.6		255,400
290	45.4	254.2		235,500
300	43.0	243.0		217,100
310	40.4	230.7		186,800 *
320	37.7	217.2		164,200 *
330	34.9	202.2		152,900 *
340	31.7	185.4		141,200 *
350	28.2	166.1		117,500 *