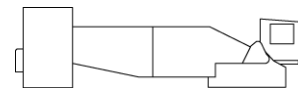


Liftcrane Boom Capacities

21000

Boom No. 80 with 100 Ft. Mast
530,700 Lb. Crane Counterweight
Pedestal Mount - Four Swing Drives
0 Degree thru 3 Degree Static Machine List



LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and are based on structural competence.

Capacities above 1,200,000 Lbs. require tandem lower boom points. 180 Ft. thru 360 Ft. boom lengths require only the single lower boom point (15 sheaves) to be used. Second lower boom point must be removed from boom on 180 Ft. thru 360 Ft. boom lengths.

Upper boom point capacity for liftcrane service with single part whip line is 48,800 Lbs. or 97,600 Lbs. with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Minimum boom operating angle is 36 degrees when drum 2 lead line is reeved over upper sheave in boom top wire rope guide.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc. beneath boom point sheaves is considered part of 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 with turntable bearing properly supported, gantry and mast up, and machine list not to exceeded degrees noted. Refer to boom rigging **No. 192587** and Wire Rope Specification chart **No. 8139-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. Refer to operators manual for operating guidelines.

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.

BOOM POINT ELEVATION: Boom point elevation is vertical distance from top of turntable bearing to centerline of boom point shaft.

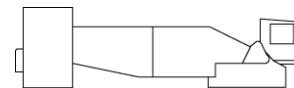
MACHINE EQUIPMENT: Machine equipped with **four swing drives**, 100 Ft. mast, 28 Ft. retractable gantry, 20 part boom hoist reeving, boom support straps, and 530,700 Lb. crane counterweight.

Maximum Boom Length Lifted Unassisted	
List	Boom Length
0 Degree	(a) 360 Ft.
1 Degree	340 Ft.
2 Degree	340 Ft.
3 Degree	340 Ft.
Load block, hook and weight ball on barge deck at start. (a) Upper boom point cannot be used on 360 Ft. boom.	

Liftcrane Boom Capacities

21000

Boom No. 80 with 100 Ft. Mast
 530,700 Lb. Crane Counterweight
 Pedestal Mount - Four Swing Drives
 0 Degree thru 3 Degree Static Machine List

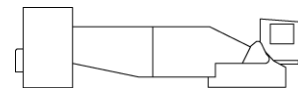


Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
100 Ft. Boom							
23	82.7	100.7	1,668,200				23
24	82.1	100.6	1,602,500				24
26	80.9	100.2	1,485,000	1,373,300	1,273,500		26
28	79.7	99.7	1,383,000	1,284,800	1,196,300	1,117,800	28
30	78.6	99.2	1,293,600	1,206,600	1,127,600	1,057,000	30
32	77.4	98.7	1,214,500	1,137,000	1,065,900	1,002,100	32
34	76.2	98.2	1,144,100	1,074,500	1,010,400	952,400	34
36	75.0	97.5	1,081,000	1,018,300	960,000	907,100	36
38	73.8	96.9	1,024,200	967,300	914,200	865,800	38
40	72.6	96.2	972,700	921,000	872,300	827,800	40
45	69.5	94.2	862,900	821,400	781,800	745,300	45
50	66.3	91.9	774,100	740,000	707,300	675,500	50
55	63.1	89.2	700,600	670,800	641,000	613,100	55
60	59.8	86.2	633,800	609,100	584,100	560,500	60
65	56.3	82.8	577,600	556,800	535,700	515,600	65
70	52.6	78.8	529,600	512,100	494,000	476,800	70
75	48.8	74.3	488,200	473,300	457,800	443,000	75
80	44.7	69.2	452,100	439,400	426,000	412,100	80
85	40.2	63.2	420,300	409,400	397,900	383,700	85
90	35.2	56.1	392,000	382,800	372,900	358,300	90
95	29.4	47.3	366,800	359,000	350,600	335,600	95

Liftcrane Boom Capacities

21000

Boom No. 80 with 100 Ft. Mast
 530,700 Lb. Crane Counterweight
 Pedestal Mount - Four Swing Drives
 0 Degree thru 3 Degree Static Machine List

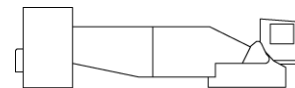


Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
120 Ft. Boom							
26	82.4	120.5	1,478,800				26
28	81.5	120.1	1,376,900	1,264,100			28
30	80.5	119.7	1,287,600	1,187,600	1,098,700		30
32	79.5	119.3	1,208,600	1,119,400	1,039,300	968,600	32
34	78.5	118.8	1,138,300	1,058,200	985,800	921,300	34
36	77.6	118.3	1,075,400	1,003,000	937,100	878,200	36
38	76.6	117.8	1,018,600	952,900	892,800	838,700	38
40	75.6	117.2	967,200	907,300	852,200	802,300	40
45	73.1	115.6	857,600	809,300	764,300	723,200	45
50	70.5	113.8	768,800	729,200	691,700	655,200	50
55	67.9	111.6	695,500	661,000	626,700	595,100	55
60	65.3	109.2	629,400	600,000	571,100	544,200	60
65	62.6	106.6	573,200	548,400	523,700	500,600	65
70	59.8	103.5	525,300	504,100	482,900	462,900	70
75	56.9	100.2	484,000	465,800	447,300	429,900	75
80	53.9	96.5	447,900	432,200	416,000	400,700	80
85	50.8	92.3	416,200	402,500	388,300	374,800	85
90	47.6	87.6	388,100	376,100	363,600	351,700	90
95	44.1	82.4	363,000	352,500	341,500	330,900	95
100	40.4	76.4	340,400	331,200	321,500	311,400	100
105	36.4	69.6	319,900	311,900	303,400	292,900	105
110	31.9	61.6	301,400	294,400	286,900	276,100	110
115	26.6	51.8	284,300	278,300	271,900	260,600	115

Liftcrane Boom Capacities

21000

Boom No. 80 with 100 Ft. Mast
 530,700 Lb. Crane Counterweight
 Pedestal Mount - Four Swing Drives
 0 Degree thru 3 Degree Static Machine List

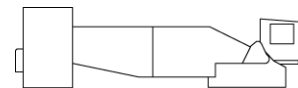


Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
140 Ft. Boom							
28	82.7	140.4	1,373,000				28
30	81.9	140.1	1,283,800	1,171,000			30
32	81.0	139.7	1,204,900	1,104,200	1,015,800		32
34	80.2	139.3	1,134,700	1,044,200	964,000		34
36	79.4	138.9	1,071,800	990,000	917,000	852,600	36
38	78.5	138.4	1,015,100	940,800	874,100	814,900	38
40	77.7	137.9	963,700	896,000	834,700	780,100	40
45	75.6	136.6	854,200	799,500	749,300	704,000	45
50	73.4	135.0	765,600	720,500	678,600	637,500	50
55	71.3	133.2	692,300	652,900	614,500	579,500	55
60	69.1	131.2	626,500	592,800	560,200	530,400	60
65	66.8	129.0	570,300	541,800	513,900	488,100	65
70	64.5	126.6	522,500	498,000	473,900	451,400	70
75	62.2	123.8	481,200	460,000	439,000	419,300	75
80	59.8	120.9	445,200	426,700	408,200	390,800	80
85	57.4	117.6	413,600	397,400	381,000	365,500	85
90	54.9	114.0	385,500	371,200	356,700	342,900	90
95	52.3	110.0	360,400	347,800	334,800	322,500	95
100	49.5	105.7	337,900	326,700	315,100	304,000	100
105	46.7	100.9	317,600	307,500	297,100	287,200	105
110	43.7	95.6	299,100	290,100	280,800	271,800	110
115	40.6	89.7	282,200	274,200	265,900	257,800	115
120	37.2	83.1	266,700	259,600	252,100	244,400	120
125	33.5	75.5	251,100	246,200	239,500	231,400	125
130	29.3	66.7	236,100	232,400	227,800	219,400	130

Liftcrane Boom Capacities

21000

Boom No. 80 with 100 Ft. Mast
530,700 Lb. Crane Counterweight
Pedestal Mount - Four Swing Drives
0 Degree thru 3 Degree Static Machine List

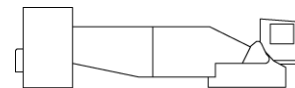


Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
160 Ft. Boom							
30	82.9	160.4	1,277,500				30
32	82.2	160.0	1,198,700				32
34	81.4	159.7	1,128,600	1,027,900			34
36	80.7	159.3	1,065,700	974,700	895,100		36
38	80.0	158.9	1,009,100	926,400	853,500	789,700	38
40	79.3	158.5	957,800	882,400	815,300	756,300	40
45	77.4	157.3	848,400	787,400	732,300	683,300	45
50	75.6	155.9	759,900	709,500	663,500	618,500	50
55	73.7	154.4	686,800	643,000	600,700	562,600	55
60	71.8	152.7	621,500	583,600	547,700	515,000	60
65	69.9	150.8	565,500	533,200	502,400	474,100	65
70	67.9	148.7	517,700	489,900	463,100	438,400	70
75	66.0	146.4	476,400	452,300	428,900	407,100	75
80	64.0	143.9	440,500	419,400	398,700	379,400	80
85	61.9	141.2	408,800	390,300	371,900	354,700	85
90	59.8	138.2	380,800	364,400	348,000	332,600	90
95	57.7	135.0	355,800	341,100	326,400	312,600	95
100	55.5	131.5	333,300	320,200	307,000	294,500	100
105	53.3	127.7	313,000	301,200	289,300	277,900	105
110	51.0	123.5	294,600	284,000	273,200	262,800	110
115	48.6	119.1	277,800	268,200	258,400	249,000	115
120	46.1	114.2	262,400	253,700	244,800	236,200	120
125	43.4	108.8	247,000	240,300	232,200	224,400	125
130	40.7	102.9	232,200	226,700	220,600	213,500	130
135	37.7	96.4	218,500	213,700	209,100	203,400	135
140	34.6	89.2	205,800	201,600	197,600	193,800	140
145	31.1	80.9	193,900	190,300	186,900	183,500	145
150	27.3	71.3	182,800	179,700	176,800	174,000	150

Liftcrane Boom Capacities

21000

Boom No. 80 with 100 Ft. Mast
 530,700 Lb. Crane Counterweight
 Pedestal Mount - Four Swing Drives
 0 Degree thru 3 Degree Static Machine List

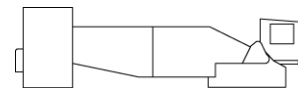


Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
180 Ft. Boom							
34	82.4	180.0	1,130,800				34
36	81.8	179.6	1,068,000	968,000			36
38	81.1	179.3	1,011,400	920,600			38
40	80.5	178.9	960,200	877,200	804,800		40
45	78.8	177.9	850,900	783,800	724,100	671,600	45
50	77.2	176.7	762,500	707,000	656,400	608,100	50
55	75.6	175.3	689,500	641,100	595,100	554,200	55
60	73.9	173.8	624,500	582,400	543,400	508,200	60
65	72.2	172.1	568,500	532,700	499,000	468,500	65
70	70.5	170.3	520,700	489,900	460,600	433,900	70
75	68.8	168.3	479,500	452,700	427,000	403,400	75
80	67.1	166.1	443,600	420,100	397,400	376,400	80
85	65.3	163.8	412,100	391,300	371,100	352,300	85
90	63.5	161.2	384,100	365,600	347,500	330,700	90
95	61.7	158.5	359,100	342,600	326,400	311,100	95
100	59.9	155.5	336,700	321,900	307,200	293,400	100
105	58.0	152.3	316,400	303,100	289,700	277,200	105
110	56.0	148.9	298,000	285,900	273,800	262,400	110
115	54.1	145.2	281,300	270,300	259,200	248,700	115
120	52.0	141.2	265,900	255,900	245,800	236,200	120
125	49.9	137.0	251,800	242,700	233,400	224,600	125
130	47.8	132.4	238,200	230,400	221,900	213,800	130
135	45.5	127.4	224,600	218,400	211,300	203,800	135
140	43.2	122.0	212,000	206,500	201,200	194,500	140
145	40.8	116.2	200,200	195,300	190,600	185,700	145
150	38.2	109.8	189,300	184,900	180,700	176,700	150
155	35.4	102.7	179,000	175,100	171,400	167,800	155
160	32.5	94.9	169,400	165,900	162,700	159,500	160
165	29.2	86.0	160,300	157,300	154,400	151,700	165

Liftcrane Boom Capacities

21000

Boom No. 80 with 100 Ft. Mast
 530,700 Lb. Crane Counterweight
 Pedestal Mount - Four Swing Drives
 0 Degree thru 3 Degree Static Machine List

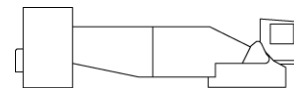


Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
200 Ft. Boom							
36	82.6	199.9	1,063,600				36
38	82.0	199.6	1,007,000	908,000			38
40	81.4	199.2	955,700	865,300			40
45	80.0	198.3	846,400	773,100	709,000	653,000	45
50	78.5	197.2	757,900	697,300	642,600	591,200	50
55	77.0	196.0	684,800	632,300	582,800	539,100	55
60	75.6	194.7	620,300	574,300	532,100	494,400	60
65	74.1	193.2	564,200	525,000	488,600	455,800	65
70	72.6	191.6	516,400	482,600	450,800	422,100	70
75	71.0	189.8	475,100	445,700	417,800	392,400	75
80	69.5	187.9	439,200	413,300	388,600	366,000	80
85	67.9	185.8	407,600	384,700	362,700	342,400	85
90	66.4	183.6	379,600	359,200	339,500	321,200	90
95	64.8	181.1	354,600	336,300	318,500	302,000	95
100	63.2	178.6	332,100	315,700	299,600	284,500	100
105	61.5	175.8	311,800	297,000	282,400	268,600	105
110	59.9	172.8	293,400	280,000	266,600	254,000	110
115	58.2	169.7	276,600	264,400	252,200	240,600	115
120	56.5	166.3	261,300	250,100	238,900	228,200	120
125	54.7	162.7	247,100	236,900	226,600	216,800	125
130	52.9	158.9	232,900	224,700	215,200	206,200	130
135	51.0	154.8	219,300	212,000	204,600	196,200	135
140	49.1	150.4	206,700	200,000	193,700	186,500	140
145	47.2	145.7	195,000	188,900	183,200	177,000	145
150	45.1	140.7	184,000	178,600	173,300	168,000	150
155	43.0	135.3	173,800	168,800	164,100	159,600	155
160	40.8	129.4	164,200	159,700	155,400	151,300	160
165	38.5	123.1	155,200	151,100	147,300	143,500	165
170	36.1	116.2	146,700	143,000	139,600	136,200	170
175	33.5	108.7	138,700	135,400	132,300	129,300	175
180	30.7	100.3	131,000	128,100	125,400	122,700	180
185	27.6	90.8	123,800	121,200	118,800	116,500	185

Liftcrane Boom Capacities

21000

Boom No. 80 with 100 Ft. Mast
530,700 Lb. Crane Counterweight
Pedestal Mount - Four Swing Drives
0 Degree thru 3 Degree Static Machine List

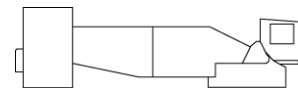


Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
220 Ft. Boom							
38	82.7	219.8	1,002,300				38
40	82.2	219.5	951,000				40
45	80.9	218.6	841,700	762,400	694,000		45
50	79.6	217.7	753,100	687,500	629,000	574,700	50
55	78.2	216.6	680,000	623,400	570,400	524,200	55
60	76.9	215.4	616,000	566,000	520,800	480,900	60
65	75.6	214.0	559,800	517,200	478,100	443,300	65
70	74.2	212.6	511,900	475,200	441,100	410,500	70
75	72.8	211.0	470,600	438,600	408,600	381,500	75
80	71.5	209.2	434,600	406,500	379,900	355,700	80
85	70.1	207.4	403,000	378,100	354,300	332,600	85
90	68.7	205.4	375,000	352,700	331,400	311,800	90
95	67.2	203.2	349,900	330,000	310,700	292,900	95
100	65.8	200.9	327,400	309,500	292,000	275,800	100
105	64.4	198.5	307,100	290,900	275,000	260,200	105
110	62.9	195.9	288,700	273,900	259,400	245,800	110
115	61.4	193.1	271,900	258,400	245,100	232,600	115
120	59.9	190.1	256,500	244,200	231,900	220,400	120
125	58.4	187.0	242,200	231,100	219,800	209,100	125
130	56.8	183.7	227,400	218,100	208,500	198,200	130
135	55.2	180.2	213,800	205,300	197,300	187,400	135
140	53.6	176.4	201,200	193,400	186,100	177,300	140
145	51.9	172.5	189,400	182,400	175,700	167,900	145
150	50.2	168.2	178,500	172,000	165,900	159,000	150
155	48.5	163.8	168,200	162,300	156,700	150,700	155
160	46.7	159.0	158,700	153,200	148,100	142,900	160
165	44.8	153.9	149,700	144,700	140,000	135,500	165
170	42.9	148.5	141,200	136,700	132,300	128,200	170
175	40.9	142.7	133,200	129,000	125,100	121,300	175
180	38.8	136.4	125,600	121,900	118,200	114,800	180
185	36.6	129.7	118,500	115,000	111,800	108,600	185
190	34.3	122.3	111,700	108,600	105,600	102,700	190
195	31.8	114.3	105,200	102,400	99,700	97,100	195
200	29.2	105.4	99,000	96,500	94,100	91,800	200
205	26.3	95.3	93,100	90,900	88,800	86,700	205

Liftcrane Boom Capacities

21000

Boom No. 80 with 100 Ft. Mast
 530,700 Lb. Crane Counterweight
 Pedestal Mount - Four Swing Drives
 0 Degree thru 3 Degree Static Machine List

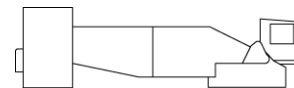


Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
240 Ft. Boom							
40	82.9	239.7	948,200				40
45	81.7	238.9	838,800	753,700			45
50	80.5	238.1	750,300	679,800	617,400		50
55	79.2	237.1	677,100	616,500	560,300	511,600	55
60	78.0	235.9	613,500	559,700	511,600	469,600	60
65	76.8	234.7	557,300	511,400	469,800	433,100	65
70	75.5	233.4	509,400	469,800	433,400	401,100	70
75	74.3	231.9	468,100	433,500	401,500	372,800	75
80	73.1	230.4	432,100	401,700	373,200	347,500	80
85	71.8	228.7	400,400	373,500	348,000	324,900	85
90	70.5	226.9	372,400	348,300	325,500	304,600	90
95	69.2	224.9	347,300	325,700	305,100	286,100	95
100	68.0	222.9	324,800	305,400	286,600	269,300	100
105	66.6	220.7	304,500	286,900	269,800	253,900	105
110	65.3	218.3	286,100	270,000	254,400	239,800	110
115	64.0	215.8	269,300	254,600	240,200	226,800	115
120	62.6	213.2	253,900	240,400	227,200	214,800	120
125	61.3	210.4	239,500	227,400	215,200	203,200	125
130	59.9	207.5	224,700	214,200	204,000	191,800	130
135	58.5	204.4	211,000	201,500	192,500	181,200	135
140	57.1	201.1	198,400	189,600	181,400	171,200	140
145	55.6	197.6	186,600	178,600	171,000	161,900	145
150	54.1	193.9	175,600	168,300	161,300	153,100	150
155	52.6	190.1	165,400	158,600	152,200	144,900	155
160	51.1	186.0	155,800	149,600	143,600	137,200	160
165	49.5	181.7	146,800	141,100	135,600	129,800	165
170	47.9	177.1	138,400	133,000	128,000	122,900	170
175	46.2	172.3	130,400	125,500	120,800	116,300	175
180	44.5	167.1	122,900	118,300	114,000	109,900	180
185	42.8	161.7	115,700	111,500	107,600	103,800	185
190	40.9	155.9	109,000	105,100	101,400	97,900	190
195	39.0	149.7	102,500	99,000	95,600	92,400	195
200	37.0	143.1	96,400	93,200	90,100	87,100	200
205	35.0	135.9	90,600	87,600	84,800	82,100	205
210	32.7	128.1	85,000	82,300	79,700	77,300	210
215	30.4	119.6	79,700	77,200	74,900	72,700	215
220	27.9	110.2	74,500	72,300	70,300	68,200	220

Liftcrane Boom Capacities

21000

Boom No. 80 with 100 Ft. Mast
530,700 Lb. Crane Counterweight
Pedestal Mount - Four Swing Drives
0 Degree thru 3 Degree Static Machine List

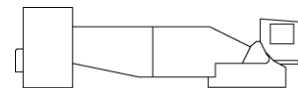


Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
260 Ft. Boom							
45	82.3	259.2	833,900				45
50	81.2	258.4	745,400	670,000			50
55	80.1	257.5	672,200	607,600	548,200		55
60	78.9	256.4	609,000	551,400	500,600	456,500	60
65	77.8	255.3	552,800	503,600	459,500	420,900	65
70	76.7	254.1	504,800	462,300	423,800	389,700	70
75	75.5	252.8	463,400	426,300	392,300	362,100	75
80	74.4	251.3	427,400	394,700	364,500	337,400	80
85	73.2	249.8	395,700	366,700	339,700	315,300	85
90	72.1	248.1	367,600	341,800	317,400	295,300	90
95	70.9	246.4	342,500	319,300	297,300	277,200	95
100	69.7	244.5	320,000	299,100	279,100	260,700	100
105	68.6	242.5	299,700	280,700	262,400	245,600	105
110	67.4	240.3	281,300	263,900	247,200	231,700	110
115	66.1	238.1	264,400	248,600	233,200	218,900	115
120	64.9	235.7	249,000	234,500	220,300	205,900	120
125	63.7	233.2	233,700	221,100	207,900	193,800	125
130	62.4	230.5	218,900	207,300	195,700	182,500	130
135	61.2	227.7	205,200	194,600	184,300	172,000	135
140	59.9	224.8	192,500	182,800	173,700	162,200	140
145	58.6	221.7	180,700	171,800	163,400	153,000	145
150	57.3	218.4	169,700	161,500	153,700	144,300	150
155	56.0	215.0	159,500	151,900	144,700	136,200	155
160	54.6	211.4	149,900	142,800	136,200	128,500	160
165	53.2	207.6	140,900	134,400	128,200	121,300	165
170	51.8	203.7	132,400	126,400	120,600	114,400	170
175	50.4	199.5	124,400	118,800	113,500	107,900	175
180	48.9	195.1	116,900	111,700	106,700	101,800	180
185	47.4	190.4	109,800	104,900	100,300	95,900	185
190	45.9	185.6	103,000	98,500	94,300	90,200	190
195	44.3	180.4	96,600	92,400	88,500	84,700	195
200	42.7	174.9	90,500	86,700	83,000	79,400	200
205	41.0	169.1	84,700	81,100	77,700	74,400	205
210	39.2	163.0	79,200	75,900	72,700	69,700	210
215	37.4	156.4	73,900	70,800	67,900	65,100	215
220	35.5	149.4	68,800	66,000	63,300	60,700	220
225	33.5	141.8	64,000	61,400	58,900	56,500	225
230	31.4	133.6	59,300	56,900	54,700	52,500	230
235	29.1	124.7	54,800	52,700	50,600	48,600	235
240	26.7	114.9	50,500	48,500	46,700	44,900	240

Liftcrane Boom Capacities

21000

Boom No. 80 with 100 Ft. Mast
530,700 Lb. Crane Counterweight
Pedestal Mount - Four Swing Drives
0 Degree thru 3 Degree Static Machine List

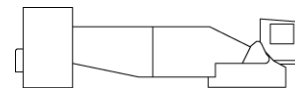


Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
280 Ft. Boom							
45	82.9	279.4	830,700				45
50	81.8	278.6	742,100	662,000			50
55	80.8	277.8	668,900	600,400	537,900		55
60	79.8	276.9	606,100	544,800	491,200	445,300	60
65	78.7	275.8	549,800	497,400	451,000	410,700	65
70	77.7	274.7	501,800	456,500	415,900	380,300	70
75	76.6	273.5	460,500	420,900	385,000	353,300	75
80	75.5	272.1	424,400	389,500	357,600	329,200	80
85	74.5	270.7	392,700	361,700	333,100	307,500	85
90	73.4	269.2	364,600	336,900	311,200	288,000	90
95	72.3	267.5	339,500	314,700	291,300	270,200	95
100	71.3	265.8	317,000	294,500	273,300	254,000	100
105	70.2	264.0	296,600	276,300	256,900	239,200	105
110	69.1	262.0	278,200	259,600	241,900	225,400	110
115	68.0	260.0	261,300	244,400	228,000	211,600	115
120	66.8	257.8	245,900	230,400	214,800	198,700	120
125	65.7	255.5	230,200	216,400	201,700	186,800	125
130	64.6	253.1	215,300	202,700	189,600	175,700	130
135	63.4	250.5	201,600	190,000	178,300	165,300	135
140	62.3	247.9	188,900	178,200	167,800	155,700	140
145	61.1	245.1	177,100	167,300	158,000	146,600	145
150	59.9	242.1	166,100	157,000	148,500	138,000	150
155	58.7	239.0	155,900	147,400	139,500	130,000	155
160	57.5	235.8	146,300	138,400	131,100	122,400	160
165	56.3	232.4	137,300	130,000	123,200	115,300	165
170	55.0	228.9	128,800	122,000	115,700	108,500	170
175	53.7	225.2	120,800	114,500	108,600	102,100	175
180	52.4	221.3	113,300	107,400	101,900	96,000	180
185	51.1	217.2	106,200	100,700	95,500	90,200	185
190	49.8	212.9	99,400	94,300	89,500	84,700	190
195	48.4	208.5	93,000	88,300	83,700	79,400	195
200	47.0	203.8	86,900	82,500	78,300	74,200	200
205	45.6	198.8	81,100	77,000	73,100	69,300	205
210	44.1	193.6	75,600	71,800	68,100	64,600	210
215	42.6	188.1	70,400	66,800	63,300	60,000	215
220	41.0	182.4	65,300	62,000	58,800	55,700	220
225	39.4	176.2	60,500	57,400	54,400	51,500	225
230	37.7	169.8	55,900	53,000	50,200	47,600	230
235	36.0	162.9	51,500	48,800	46,200	43,700	235
240	34.1	155.5	47,200	44,700	42,300	40,000	240
245	32.2	147.5	43,100	40,800	38,600		245
250	30.2	139.0	39,100	37,000			250

Liftcrane Boom Capacities

21000

Boom No. 80 with 100 Ft. Mast
530,700 Lb. Crane Counterweight
Pedestal Mount - Four Swing Drives
0 Degree thru 3 Degree Static Machine List

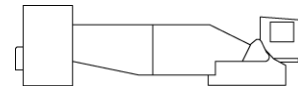


Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
300 Ft. Boom							
50	82.4	298.9	737,100				50
55	81.4	298.1	663,900	591,500			55
60	80.4	297.2	601,600	536,500	480,400		60
65	79.5	296.2	545,200	489,600	440,800	398,900	65
70	78.5	295.2	497,200	449,100	406,300	369,200	70
75	77.5	294.1	455,700	413,700	376,000	342,900	75
80	76.5	292.8	419,600	382,600	349,000	319,300	80
85	75.5	291.5	387,900	355,000	324,900	298,100	85
90	74.6	290.1	359,700	330,400	303,200	278,900	90
95	73.6	288.6	334,600	308,200	283,600	261,500	95
100	72.6	287.0	312,100	288,200	265,800	245,200	100
105	71.5	285.3	291,700	270,100	249,600	229,800	105
110	70.5	283.5	273,300	253,500	234,400	215,500	110
115	69.5	281.5	256,400	238,300	219,900	201,800	115
120	68.5	279.5	240,400	224,100	206,100	189,200	120
125	67.4	277.4	224,300	209,400	193,100	177,400	125
130	66.4	275.2	209,400	195,700	181,100	166,500	130
135	65.3	272.9	195,600	183,000	170,000	156,300	135
140	64.3	270.4	182,900	171,300	159,500	146,700	140
145	63.2	267.9	171,100	160,300	149,800	137,700	145
150	62.1	265.2	160,100	150,100	140,600	129,300	150
155	61.0	262.4	149,800	140,600	131,900	121,400	155
160	59.9	259.4	140,100	131,600	123,600	113,900	160
165	58.8	256.4	131,100	123,200	115,700	106,800	165
170	57.7	253.2	122,600	115,200	108,200	100,100	170
175	56.5	249.8	114,700	107,700	101,200	93,800	175
180	55.4	246.3	107,100	100,600	94,500	87,700	180
185	54.2	242.7	100,000	93,900	88,200	82,000	185
190	53.0	238.9	93,200	87,600	82,200	76,500	190
195	51.7	234.9	86,800	81,500	76,500	71,300	195
200	50.5	230.7	80,700	75,800	71,000	66,400	200
205	49.2	226.4	75,000	70,300	65,900	61,600	205
210	48.0	221.8	69,400	65,100	60,900	57,000	210
215	46.6	217.1	64,200	60,100	56,200	52,500	215
220	45.3	212.1	59,200	55,300	51,700	48,200	220
225	43.9	206.9	54,400	50,800	47,300	44,000	225
230	42.5	201.4	49,800	46,400	43,200	40,100	230
235	41.0	195.6	45,300	42,200	39,200		235
240	39.5	189.5	41,100	38,100			240
245	38.0	183.1	37,000				245

Liftcrane Boom Capacities

21000

Boom No. 80 with 100 Ft. Mast
530,700 Lb. Crane Counterweight
Pedestal Mount - Four Swing Drives
0 Degree thru 3 Degree Static Machine List

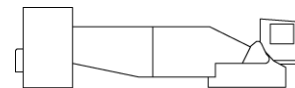


Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
320 Ft. Boom							
50	82.9	319.1	733,500				50
55	82.0	318.4	660,300	584,100			55
60	81.0	317.5	598,400	529,700	471,000		60
65	80.1	316.6	542,000	483,200	432,300		65
70	79.2	315.6	493,900	443,000	398,400	359,800	70
75	78.3	314.6	452,400	408,000	368,500	334,100	75
80	77.4	313.4	416,300	377,100	341,900	311,000	80
85	76.5	312.2	384,500	349,700	318,200	290,200	85
90	75.5	310.9	356,400	325,300	296,800	271,200	90
95	74.6	309.5	331,300	303,300	277,500	253,200	95
100	73.7	308.0	308,700	283,400	259,800	236,800	100
105	72.7	306.4	288,400	265,400	242,900	221,600	105
110	71.8	304.7	269,900	248,900	227,300	207,600	110
115	70.8	302.9	253,000	232,900	213,000	194,200	115
120	69.9	301.0	236,400	218,200	199,400	181,800	120
125	68.9	299.1	220,200	204,200	186,600	170,200	125
130	68.0	297.0	205,300	190,600	174,800	159,400	130
135	67.0	294.9	191,500	178,000	163,700	149,300	135
140	66.0	292.6	178,800	166,300	153,400	139,900	140
145	65.0	290.2	166,900	155,400	143,700	131,100	145
150	64.0	287.8	155,900	145,200	134,600	122,700	150
155	63.0	285.2	145,600	135,700	126,100	114,900	155
160	62.0	282.5	136,000	126,700	118,100	107,500	160
165	61.0	279.7	127,000	118,300	110,200	100,500	165
170	59.9	276.8	118,500	110,400	102,800	93,900	170
175	58.9	273.7	110,500	102,900	95,800	87,600	175
180	57.8	270.5	102,900	95,900	89,200	81,600	180
185	56.7	267.2	95,800	89,200	82,900	76,000	185
190	55.7	263.8	89,100	82,800	77,000	70,600	190
195	54.5	260.2	82,700	76,800	71,300	65,400	195
200	53.4	256.4	76,600	71,100	65,900	60,500	200
205	52.3	252.5	70,800	65,600	60,800	55,800	205
210	51.1	248.4	65,300	60,500	55,800	51,300	210
215	50.0	244.2	60,100	55,500	51,200	47,000	215
220	48.8	239.8	55,000	50,700	46,700	42,800	220
225	47.6	235.2	50,200	46,200	42,300	38,700	225
230	46.3	230.4	45,700	41,800	38,200		230
235	45.0	225.4	41,300	37,700			235
240	43.7	220.1	37,000				240

Liftcrane Boom Capacities

21000

Boom No. 80 with 100 Ft. Mast
530,700 Lb. Crane Counterweight
Pedestal Mount - Four Swing Drives
0 Degree thru 3 Degree Static Machine List

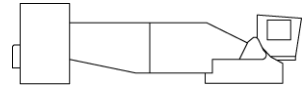


Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
340 Ft. Boom							
55	82.4	338.6	655,200				55
60	81.6	337.8	593,700	521,400			60
65	80.7	337.0	537,400	475,400	422,300		65
70	79.9	336.0	489,200	435,600	389,000		70
75	79.0	335.0	447,700	400,800	359,600	323,800	75
80	78.1	334.0	411,500	370,200	333,400	300,400	80
85	77.3	332.8	379,700	343,000	310,000	279,300	85
90	76.4	331.5	351,600	318,700	288,300	260,000	90
95	75.5	330.2	326,400	296,900	268,400	242,400	95
100	74.7	328.8	303,800	276,800	250,200	226,300	100
105	73.8	327.3	283,500	258,000	233,500	211,400	105
110	72.9	325.8	265,000	240,700	218,100	197,600	110
115	72.0	324.1	248,100	224,800	203,900	184,600	115
120	71.1	322.4	230,500	210,200	190,700	172,300	120
125	70.2	320.5	214,200	196,600	178,100	160,900	125
130	69.3	318.6	199,200	183,500	166,300	150,300	130
135	68.4	316.6	185,400	170,900	155,400	140,300	135
140	67.5	314.5	172,700	159,200	145,100	131,000	140
145	66.6	312.3	160,800	148,400	135,500	122,300	145
150	65.7	310.0	149,700	138,200	126,500	114,100	150
155	64.7	307.6	139,400	128,700	118,100	106,300	155
160	63.8	305.1	129,800	119,800	110,100	99,000	160
165	62.8	302.5	120,700	111,400	102,600	92,100	165
170	61.9	299.8	112,200	103,500	95,300	85,500	170
175	60.9	297.0	104,200	96,000	88,400	79,300	175
180	59.9	294.1	96,700	89,000	81,800	73,400	180
185	58.9	291.0	89,500	82,300	75,600	67,800	185
190	57.9	287.9	82,800	76,000	69,600	62,400	190
195	56.9	284.6	76,300	70,000	64,000	57,300	195
200	55.9	281.2	70,300	64,300	58,600	52,500	200
205	54.9	277.6	64,500	58,800	53,500	47,800	205
210	53.8	273.9	59,000	53,600	48,600	43,400	210
215	52.8	270.1	53,700	48,700	43,900	39,100	215
220	51.7	266.1	48,700	44,000	39,500		220
225	50.6	262.0	43,900	39,400			225
230	49.5	257.7	39,300				230

Liftcrane Boom Capacities

21000

Boom No. 80 with 100 Ft. Mast
530,700 Lb. Crane Counterweight
Pedestal Mount - Four Swing Drives
0 Degree thru 3 Degree Static Machine List



Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds
360 Ft. Boom			
55	82.9	358.8	651,500
60	82.0	358.0	589,900
65	81.2	357.2	533,900
70	80.4	356.4	485,700
75	79.6	355.4	444,200
80	78.8	354.4	408,000
85	78.0	353.3	376,200
90	77.2	352.1	348,000
95	76.4	350.9	322,800
100	75.5	349.6	300,200
105	74.7	348.2	279,800
110	73.9	346.7	261,300
115	73.1	345.2	243,800
120	72.2	343.5	226,100
125	71.4	341.8	209,800
130	70.5	340.0	194,800
135	69.7	338.1	181,000
140	68.8	336.2	168,200
145	68.0	334.1	156,300
150	67.1	332.0	145,200
155	66.2	329.7	134,900
160	65.3	327.4	125,300
165	64.5	325.0	116,200
170	63.6	322.5	107,700
175	62.7	319.9	99,700
180	61.8	317.1	92,100
185	60.9	314.3	85,000
190	59.9	311.4	78,200
195	59.0	308.4	71,800
200	58.1	305.2	65,700
205	57.1	302.0	59,900
210	56.2	298.6	54,400
215	55.2	295.1	49,200
220	54.2	291.4	44,200
225	53.2	287.6	39,400