

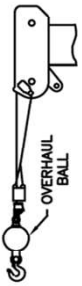
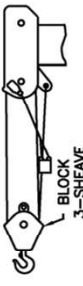

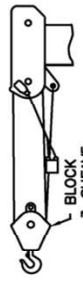

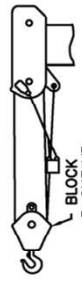
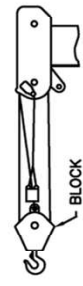
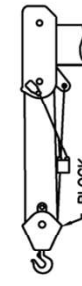
Load Rating Chart

Model TC45131

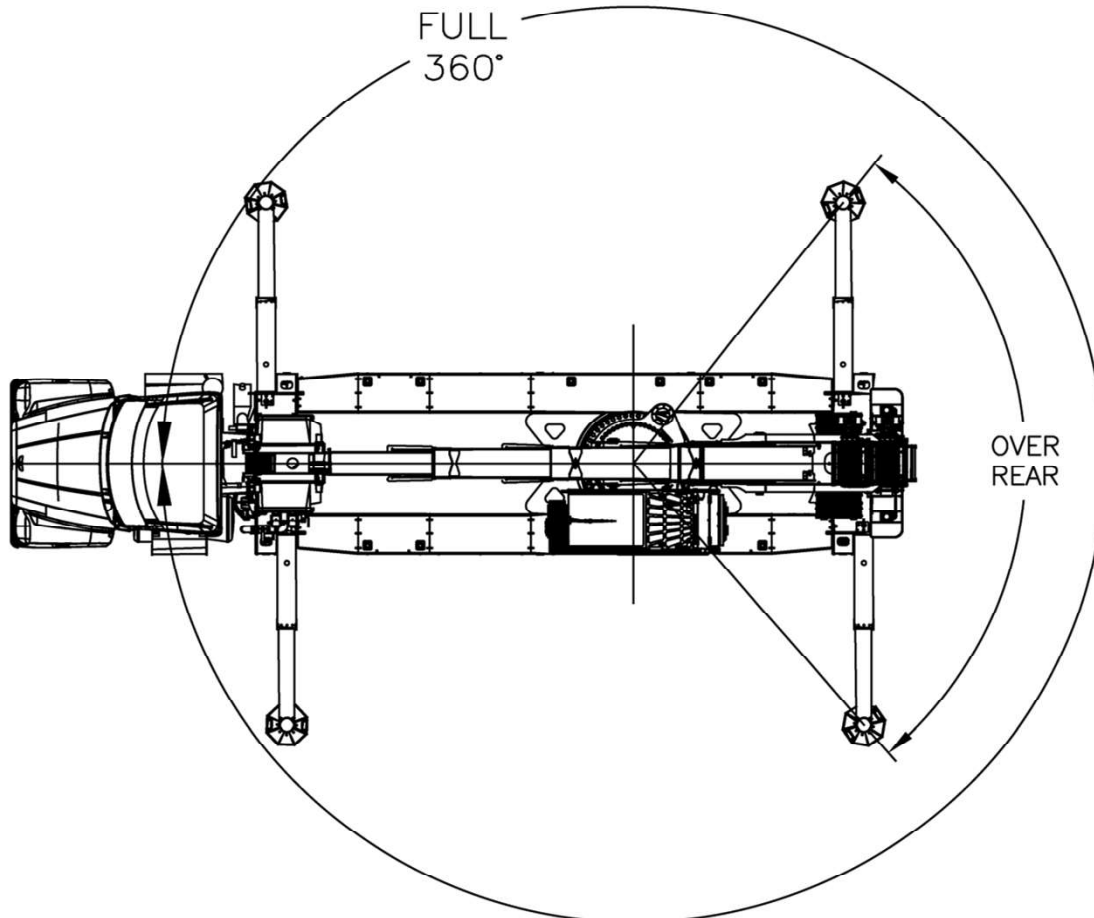


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NOTE: Additional copies of this Load Rating Chart can be purchased from your Manitex Distributor. When ordering, use the part number shown in the bottom left hand corner of this page.

ALLOWABLE LINE PULL								WARNING
1 PART LINE	2 PART LINE	3 PART LINE	4 PART LINE	5 PART LINE	6 PART LINE	7 PART LINE	8 PART LINE	
								
12000 LBS	24000 LBS	36000 LBS	48000 LBS	60000 LBS	72000 LBS	84000 LBS	90000 LBS	
								ANTI-TWO-BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE. REFER TO THE OWNER'S MANUAL. KEEP AT LEAST 3 WRAPS OF LOAD LINE ON THE DRUM AT ALL TIMES. 5/8" ROT RESISTANT (5:1 SF) 61,200 LBS MIN BREAKING STRENGTH

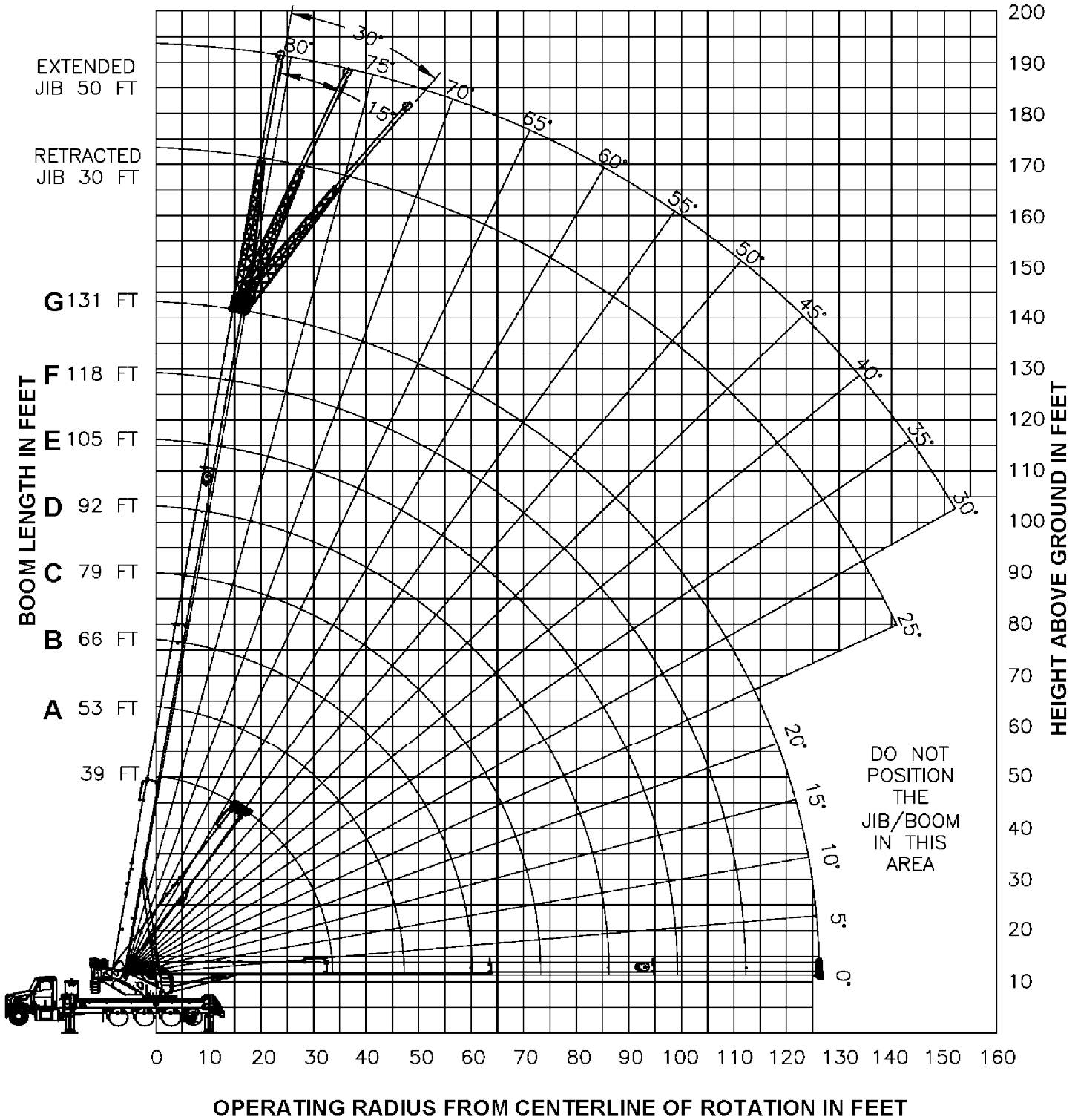
AREA OF OPERATIONS

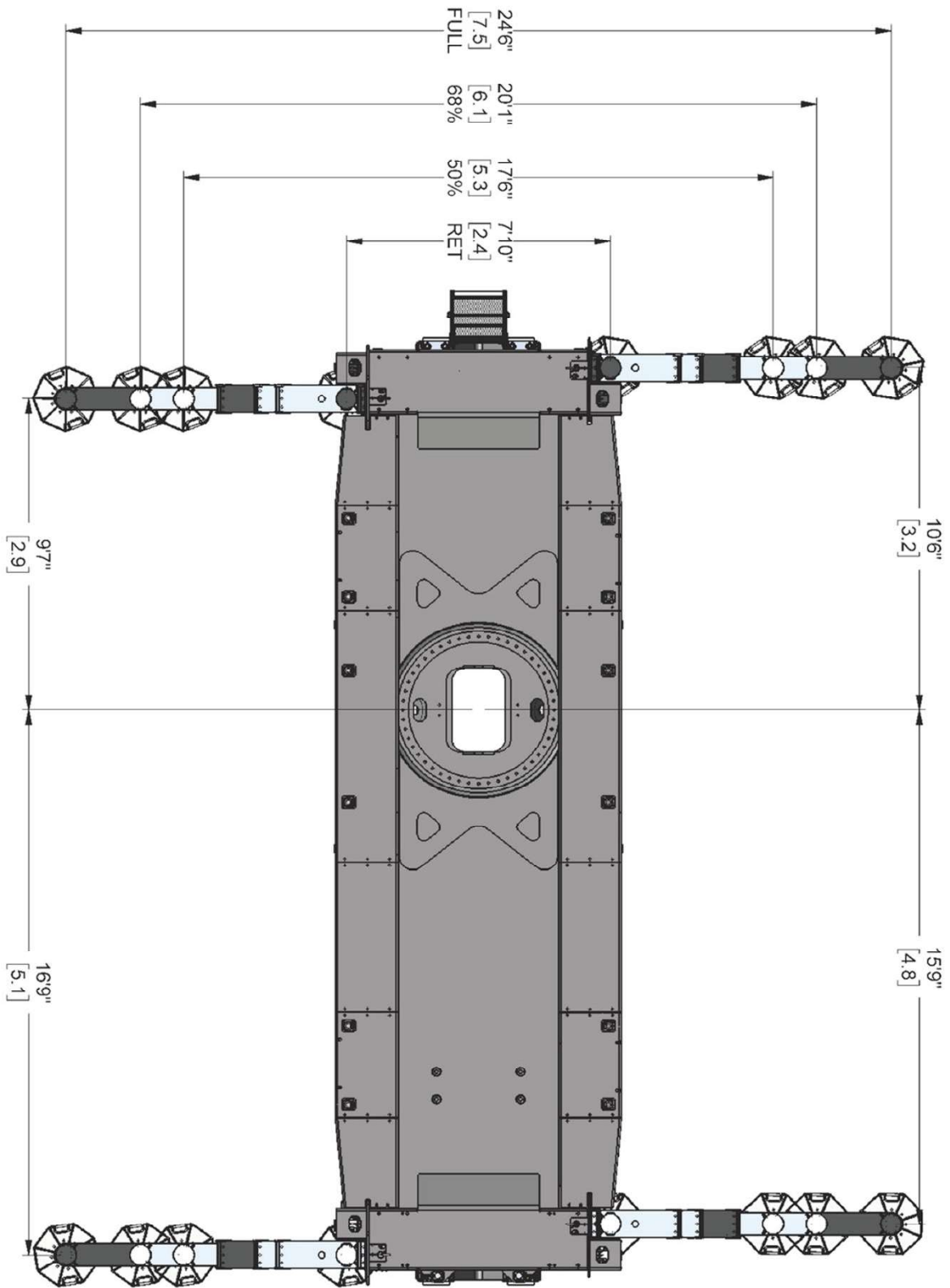


DEDUCTIONS FROM RATED LOADS FOR LOAD HANDLING DEVICES SUPPLIED BY MANITEX

AUXILIARY BLOCK-----	50 LBS
AUXILIARY (ROOSTER) SHEAVE-----	70 LBS
LIFTING FROM MAIN BOOM WITH JIB STOWED OR ERECTED-----	SEE LOAD CHART
OVERHAUL BALL-----	SEE MANUFACTURER NAMEPLATE
LOAD BLOCK-----	SEE MANUFACTURER NAMEPLATE

- RANGE DIAGRAM -





Dimensions are in feet [meters] unless otherwise specified

CODE 1

MAIN BOOM



LOAD RADIUS (FT)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	LOAD RADIUS (FT)
LENGTH	39.3 FT		53 FT		66 FT		79 FT		92 FT		105 FT		118 FT		131 FT		
6	74°	90000															6
8	70°	90000															8
10	67°	90000	74°	79200	77°	72400											10
12	64°	90000	71°	79200	76°	68300	78°	53900									12
15	59°	83200	68°	73500	73°	61800	76°	49100	79°	37600							15
20	50°	64800	62°	61700	68°	52500	72°	42600	75°	33100	78°	28700					20
25	40°	50300	55°	51200	63°	45500	69°	37100	72°	29100	75°	25500	77°	22500			25
30	26°	40400	49°	41400	58°	39800	65°	32900	69°	25700	72°	23100	75°	20500	77°	17900	30
35			41°	34000	53°	34700	61°	29300	66°	23200	69°	20700	73°	18600	75°	16600	35
40			31°	26400	47°	27100	56°	26100	62°	20700	66°	18700	70°	16900	73°	15200	40
45			18°	21100	41°	21800	52°	22200	58°	18700	63°	16900	67°	15300	70°	13900	45
50					35°	17900	47°	18300	55°	16900	60°	15300	65°	14000	68°	12700	50
55					28°	14900	41°	15300	51°	15400	57°	14000	62°	12800	66°	11900	55
60					18°	12500	35°	13000	46°	13200	54°	12700	59°	11900	63°	10900	60
65							28°	11000	42°	11300	50°	11500	56°	10900	61°	10000	65
70							18°	9400	36°	9700	46°	9900	53°	10000	58°	9200	70
75									30°	8400	42°	8600	50°	8700	55°	8500	75
80									23°	7200	38°	7400	46°	7600	52°	7700	80
85									11°	6200	33°	6400	43°	6600	49°	6700	85
90											27°	5600	39°	5700	46°	5800	90
95											19°	4800	34°	4900	43°	5000	95
100													29°	4200	39°	4300	100
105													23°	3600	36°	3700	105
110													14°	3000	31°	3100	110
115															26°	2600	115
120															19°	2200	120
125															6°	1700	125
130																	130
DEDUCTIONS FOR MAIN BOOM CAPACITIES	0°	30500	0°	18050	0°	12350	0°	8300	0°	5950	0°	4250	0°	2850	0°	600	
		1570		1140		920		770		660		580		520		460	STOWED
		3510		3240		3100		3010		2940		2890		2850		2820	RET
		3910		3530		3340		3200		3110		3040		2980		2940	EXT
	2620		2420		2320		2250		2200		2170		2140		2120	FIXED	

CODE 10

MAIN BOOM



LOAD RADIUS (FT)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	LOAD RADIUS (FT)
LENGTH	39.3 FT		53 FT		66 FT		79 FT		92 FT		105 FT		118 FT		131 FT		
6	74°	90000															6
8	70°	90000															8
10	67°	90000	74°	79200	77°	72400											10
12	64°	90000	71°	79200	76°	68300	78°	53900									12
15	59°	83200	68°	73500	73°	61800	76°	49100	79°	37600							15
20	50°	64800	62°	61700	68°	52500	72°	42600	75°	33100	78°	28700					20
25	40°	50300	55°	51200	63°	45500	69°	37100	72°	29100	75°	25500	77°	22500			25
30	26°	40400	49°	41400	58°	39800	65°	32900	69°	25700	72°	23100	75°	20500	77°	17900	30
35			41°	34300	53°	34800	61°	29300	66°	23200	69°	20700	73°	18600	75°	16600	35
40			31°	28900	47°	29500	56°	26100	62°	20700	66°	18700	70°	16900	73°	15200	40
45			18°	23800	41°	24500	52°	23700	58°	18700	63°	16900	67°	15300	70°	13900	45
50					35°	20500	47°	20900	55°	16900	60°	15300	65°	14000	68°	12700	50
55					28°	17400	41°	17800	51°	15400	57°	14000	62°	12800	66°	11900	55
60					18°	13800	35°	15300	46°	14000	54°	12700	59°	11900	63°	10900	60
65							28°	13200	42°	12800	50°	11900	56°	10900	61°	10000	65
70							18°	11500	36°	11800	46°	10900	53°	10000	58°	9200	70
75									30°	10300	42°	10000	50°	9200	55°	8500	75
80									23°	9000	38°	9200	46°	8500	52°	7800	80
85									11°	7900	33°	8200	43°	7800	49°	7200	85
90											27°	7200	39°	7200	46°	6600	90
95											19°	6300	34°	6500	43°	6100	95
100													29°	5800	39°	5600	100
105													23°	5100	36°	5100	105
110													14°	4500	31°	4600	110
115															26°	4000	115
120															19°	3500	120
125															6°	3100	125
130																	130
DEDUCTIONS FOR MAIN BOOM CAPACITIES	0°	30500	0°	19550	0°	13600	0°	9050	0°	7250	0°	4500	0°	3700	0°	600	
		1570		1140		920		770		660		580		520		460	STOWED
		3510		3240		3100		3010		2940		2890		2850		2820	RET
		3910		3530		3340		3200		3110		3040		2980		2940	EXT
	2620		2420		2320		2250		2200		2170		2140		2120	FIXED	

CODE 19

MAIN BOOM



10,000

20'-0"

360°

LOAD RADIUS (FT)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	LOAD RADIUS (FT)
LENGTH		39.3 FT		53 FT		66 FT		79 FT		92 FT		105 FT		118 FT		131 FT	
6	74°	90000															6
8	70°	90000															8
10	67°	90000	74°	79200	77°	72400											10
12	64°	90000	71°	79200	76°	68300	78°	53900									12
15	59°	83200	68°	73500	73°	61800	76°	49100	79°	37600							15
20	50°	64800	62°	61700	68°	52500	72°	42600	75°	33100	78°	28700					20
25	40°	42200	55°	43600	63°	44400	69°	37100	72°	29100	75°	25500	77°	22500			25
30	26°	29300	49°	30700	58°	31400	65°	31800	69°	25700	72°	23100	75°	20500	77°	17900	30
35			41°	22900	53°	23500	61°	23900	66°	23200	69°	20700	73°	18600	75°	16600	35
40			31°	17700	47°	18300	56°	18700	62°	19000	66°	18700	70°	16900	73°	15200	40
45			18°	13900	41°	14600	52°	15000	58°	15200	63°	15400	67°	15300	70°	13900	45
50					35°	11800	47°	12100	55°	12400	60°	12600	65°	12700	68°	12700	50
55					28°	9600	41°	10000	51°	10200	57°	10400	62°	10500	66°	10600	55
60					18°	7700	35°	8200	46°	8500	54°	8600	59°	8800	63°	8900	60
65							28°	6800	42°	7000	50°	7200	56°	7300	61°	7400	65
70							18°	5500	36°	5800	46°	6000	53°	6100	58°	6200	70
75									30°	4800	42°	5000	50°	5100	55°	5200	75
80									23°	3900	38°	4100	46°	4200	52°	4300	80
85									11°	3100	33°	3300	43°	3500	49°	3600	85
90											27°	2700	39°	2800	46°	2900	90
95											19°	2100	34°	2200	43°	2300	95
100													29°	1700	39°	1800	100
105													23°	1200	36°	1300	105
110													14°	800	31°	900	110
115																	115
120																	120
125																	125
130																	130
DEDUCTIONS FOR MAIN BOOM CAPACITIES	0°	25150	0°	12700	0°	7600	0°	4850	0°	2950	0°	1600	0°	600	0°	600	
		1570		1140		920		770		660		580		520		460	STOWED
		3510		3240		3100		3010		2940		2890		2850		2820	RET
		3910		3530		3340		3200		3110		3040		2980		2940	EXT
	2620		2420		2320		2250		2200		2170		2140		2120	FIXED	

CODE 28

MAIN BOOM



LOAD RADIUS (FT)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	LOAD RADIUS (FT)
LENGTH	39.3 FT		53 FT		66 FT		79 FT		92 FT		105 FT		118 FT		131 FT		
6	74°	90000															6
8	70°	90000															8
10	67°	90000	74°	79200	77°	72400											10
12	64°	90000	71°	79200	76°	68300	78°	53900									12
15	59°	83200	68°	73500	73°	61800	76°	49100	79°	37600							15
20	50°	64800	62°	61700	68°	52500	72°	42600	75°	33100	78°	28700					20
25	40°	50300	55°	51200	63°	45500	69°	37100	72°	29100	75°	25500	77°	22500			25
30	26°	40400	49°	41400	58°	39800	65°	32900	69°	25700	72°	23100	75°	20500	77°	17900	30
35			41°	34200	53°	34800	61°	29300	66°	23200	69°	20700	73°	18600	75°	16600	35
40			31°	27100	47°	27800	56°	26100	62°	20700	66°	18700	70°	16900	73°	15200	40
45			18°	22000	41°	22700	52°	23100	58°	18700	63°	16900	67°	15300	70°	13900	45
50					35°	18900	47°	19300	55°	16900	60°	15300	65°	14000	68°	12700	50
55					28°	15900	41°	16300	51°	15400	57°	14000	62°	12800	66°	11900	55
60					18°	13400	35°	13900	46°	14000	54°	12700	59°	11900	63°	10900	60
65							28°	11900	42°	12200	50°	11900	56°	10900	61°	10000	65
70							18°	10300	36°	10600	46°	10700	53°	10000	58°	9200	70
75									30°	9200	42°	9400	50°	9200	55°	8500	75
80									23°	8000	38°	8200	46°	8300	52°	7800	80
85									11°	6900	33°	7100	43°	7300	49°	7200	85
90											27°	6200	39°	6400	46°	6500	90
95											19°	5400	34°	5600	43°	5700	95
100													29°	4900	39°	5000	100
105													23°	4200	36°	4300	105
110													14°	3600	31°	3800	110
115															26°	3200	115
120															19°	2700	120
125															6°	2300	125
130																	130
DEDUCTIONS FOR MAIN BOOM CAPACITIES	0°	30500	0°	18550	0°	13200	0°	8600	0°	6500	0°	4350	0°	3200	0°	600	
		1570		1140		920		770		660		580		520		460	STOWED
		3510		3240		3100		3010		2940		2890		2850		2820	RET
		3910		3530		3340		3200		3110		3040		2980		2940	EXT
	2620		2420		2320		2250		2200		2170		2140		2120	FIXED	

CODE 37

MAIN BOOM



LOAD RADIUS (FT)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	LOAD RADIUS (FT)
LENGTH	39.3 FT		53 FT		66 FT		79 FT		92 FT		105 FT		118 FT		131 FT		
6	74°	90000															6
8	70°	90000															8
10	67°	90000	74°	79200	77°	72400											10
12	64°	90000	71°	79200	76°	68300	78°	53900									12
15	59°	83200	68°	73500	73°	61800	76°	49100	79°	37600							15
20	50°	52300	62°	53800	68°	52500	72°	42600	75°	33100	78°	28700					20
25	40°	33500	55°	34800	63°	35500	69°	36000	72°	29100	75°	25500	77°	22500			25
30	26°	23400	49°	24700	58°	25300	65°	25800	69°	25700	72°	23100	75°	20500	77°	17900	30
35			41°	18400	53°	19100	61°	19400	66°	19700	69°	19900	73°	18600	75°	16600	35
40			31°	14100	47°	14800	56°	15100	62°	15400	66°	15600	70°	15700	73°	15200	40
45			18°	11000	41°	11700	52°	12000	58°	12300	63°	12500	67°	12600	70°	12700	45
50					35°	9300	47°	9700	55°	9900	60°	10100	65°	10200	68°	10300	50
55					28°	7400	41°	7800	51°	8000	57°	8200	62°	8400	66°	8500	55
60					18°	5800	35°	6300	46°	6500	54°	6700	59°	6900	63°	6900	60
65							28°	5000	42°	5300	50°	5500	56°	5600	61°	5700	65
70							18°	4000	36°	4300	46°	4400	53°	4600	58°	4700	70
75									30°	3400	42°	3600	50°	3700	55°	3800	75
80									23°	2600	38°	2800	46°	2900	52°	3000	80
85									11°	1900	33°	2100	43°	2300	49°	2400	85
90											27°	1500	39°	1700	46°	1800	90
95											19°	1000	34°	1200	43°	1300	95
100													29°	700	39°	800	100
105																	105
110																	110
115																	115
120																	120
125																	125
130																	130
DEDUCTIONS FOR MAIN BOOM CAPACITIES	0°	20050	0°	10000	0°	5750	0°	3400	0°	1750	0°	600	0°	0	0°	0	
		1570		1140		920		770		660		580		520		460	STOWED
		3510		3240		3100		3010		2940		2890		2850		2820	RET
		3910		3530		3340		3200		3110		3040		2980		2940	EXT
	2620		2420		2320		2250		2200		2170		2140		2120	FIXED	

CODE 46

MAIN BOOM



LOAD RADIUS (FT)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	LOAD RADIUS (FT)
LENGTH	39.3 FT		53 FT		66 FT		79 FT		92 FT		105 FT		118 FT		131 FT		
6	74°	90000															6
8	70°	90000															8
10	67°	90000	74°	79200	77°	72400											10
12	64°	90000	71°	79200	76°	68300	78°	53900									12
15	59°	83200	68°	73500	73°	61800	76°	49100	79°	37600							15
20	50°	64800	62°	61700	68°	52500	72°	42600	75°	33100	78°	28700					20
25	40°	50300	55°	51200	63°	45500	69°	37100	72°	29100	75°	25500	77°	22500			25
30	26°	40400	49°	41400	58°	39800	65°	32900	69°	25700	72°	23100	75°	20500	77°	17900	30
35			41°	34200	53°	34800	61°	29300	66°	23200	69°	20700	73°	18600	75°	16600	35
40			31°	27100	47°	27800	56°	26100	62°	20700	66°	18700	70°	16900	73°	15200	40
45			18°	22000	41°	22700	52°	23100	58°	18700	63°	16900	67°	15300	70°	13900	45
50					35°	18800	47°	19200	55°	16900	60°	15300	65°	14000	68°	12700	50
55					28°	15900	41°	16300	51°	15400	57°	14000	62°	12800	66°	11900	55
60					18°	13400	35°	13900	46°	14000	54°	12700	59°	11900	63°	10900	60
65							28°	11900	42°	12200	50°	11900	56°	10900	61°	10000	65
70							18°	10300	36°	10500	46°	10700	53°	10000	58°	9200	70
75									30°	9200	42°	9300	50°	9200	55°	8500	75
80									23°	8000	38°	8200	46°	8300	52°	7800	80
85									11°	6900	33°	7100	43°	7300	49°	7200	85
90											27°	6200	39°	6400	46°	6500	90
95											19°	5400	34°	5600	43°	5700	95
100													29°	4900	39°	5000	100
105													23°	4200	36°	4300	105
110													14°	3600	31°	3700	110
115															26°	3200	115
120															19°	2700	120
125															6°	2300	125
130																	130
DEDUCTIONS FOR MAIN BOOM CAPACITIES	0°	30500	0°	18550	0°	13200	0°	8600	0°	6500	0°	4350	0°	3200	0°	0	
		1570		1140		920		770		660		580		520		460	STOWED
		3510		3240		3100		3010		2940		2890		2850		2820	RET
		3910		3530		3340		3200		3110		3040		2980		2940	EXT
	2620		2420		2320		2250		2200		2170		2140		2120	FIXED	

CODE 55

MAIN BOOM



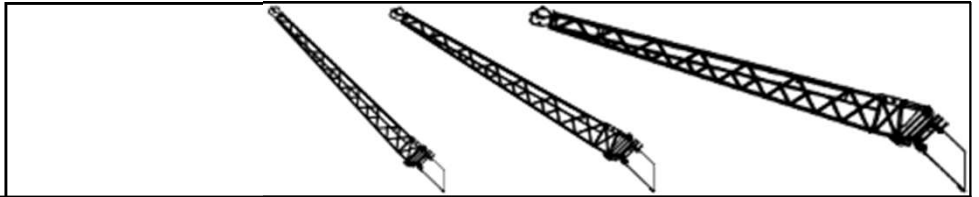
10,000

7'-10"

360°

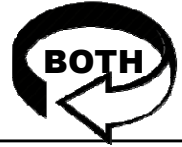
LOAD RADIUS (FT)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	ANGLE	LIFTING CAP. (LBS)	LOAD RADIUS (FT)
LENGTH	39.3 FT		53 FT		66 FT		79 FT		92 FT		105 FT		118 FT		131 FT		
6	74°	90000															6
8	70°	90000															8
10	67°	58000	74°	59600	77°	60500											10
12	64°	41400	71°	42800	76°	43600	78°	44100									12
15	59°	27900	68°	29000	73°	29700	76°	30200	79°	30500							15
20	50°	16500	62°	17500	68°	18100	72°	18500	75°	18800	78°	19000					20
25	40°	10400	55°	11500	63°	12000	69°	12300	72°	12600	75°	12800	77°	12900			25
30	26°	6700	49°	7700	58°	8200	65°	8600	69°	8800	72°	9000	75°	9100	77°	9200	30
35			41°	5100	53°	5700	61°	6000	66°	6200	69°	6400	73°	6500	75°	6600	35
40			31°	3300	47°	3800	56°	4100	62°	4300	66°	4500	70°	4600	73°	4700	40
45			18°	1800	41°	2400	52°	2700	58°	2900	63°	3100	67°	3200	70°	3300	45
50					35°	1300	47°	1600	55°	1800	60°	2000	65°	2100	68°	2200	50
55							41°	700	51°	900	57°	1100	62°	1200	66°	1300	55
60																	60
65																	65
70																	70
75																	75
80																	80
85																	85
90																	90
95																	95
100																	100
105																	105
110																	110
115																	115
120																	120
125																	125
130																	130
DEDUCTIONS FOR MAIN BOOM CAPACITIES	0°	5250	0°	1300	0°	0	0°	0	0°	0	0°	0	0°	0	0°	0	
		1570		1140		920		770		660		580		520		460	STOWED
		3510		3240		3100		3010		2940		2890		2850		2820	RET
		3910		3530		3340		3200		3110		3040		2980		2940	EXT
	2620		2420		2320		2250		2200		2170		2140		2120	FIXED	

**CODES 64, 73, 82, 91,
100, 109**
RETRACTED 30' JIB



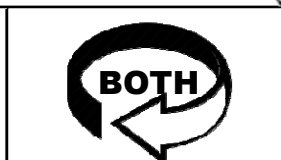
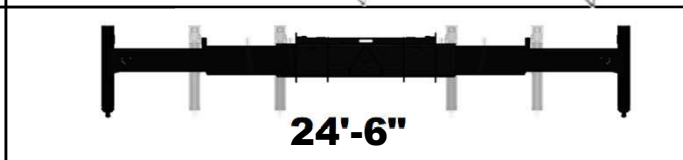
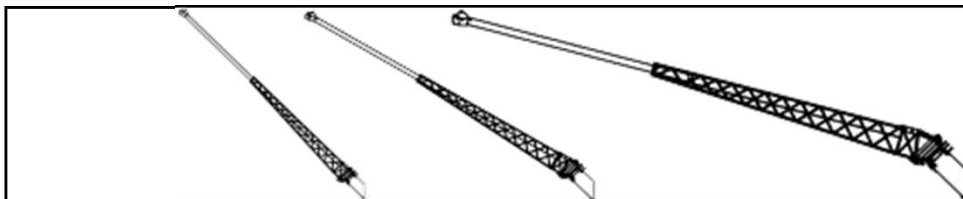
10,000

24'-6"



LOAD RADIUS (FT)	0° OFFSET			15° OFFSET			30° OFFSET			LOAD RADIUS (FT)
	BOOM ANGLE (DEG)	CODE 91	CODE 64	BOOM ANGLE (DEG)	CODE 100	CODE 73	BOOM ANGLE (DEG)	CODE 109	CODE 82	
		OVER REAR (LBS)	FULL 360° (LBS)		OVER REAR (LBS)	FULL 360° (LBS)		OVER REAR (LBS)	FULL 360° (LBS)	
6										6
8										8
10										10
12										12
15										15
20										20
25										25
30										30
35	79°	9000	9000							35
40	77°	9000	9000	79°	9000	9000				40
45	75°	9000	9000	78°	8580	8580				45
50	74°	9000	9000	76°	8130	8130	79°	7680	7680	50
55	72°	8560	8560	74°	7680	7680	77°	7270	7270	55
60	70°	8100	8100	73°	7260	7260	75°	6890	6890	60
65	68°	7680	7680	71°	6870	6870	73°	6540	6540	65
70	66°	7240	7240	69°	6510	6510	71°	6210	6210	70
75	64°	6840	6840	67°	6180	6180	69°	5910	5910	75
80	62°	6260	6260	65°	5850	5850	67°	5630	5630	80
85	60°	5730	5730	63°	5550	5550	65°	5360	5360	85
90	58°	5220	5220	61°	5090	5090	63°	5100	5100	90
95	55°	4750	4750	58°	4630	4630	60°	4850	4850	95
100	53°	4320	4280	56°	4190	4190	58°	4410	4410	100
105	50°	3900	3660	53°	3800	3800	55°	3990	3990	105
110	48°	3520	3110	50°	3430	3430	52°	3600	3600	110
115	45°	3170	2620	48°	3080	2920	49°	3230	3150	115
120	42°	2830	2170	45°	2760	2440	46°	2880	2630	120
125	39°	2520	1750	42°	2450	2000	43°	2550	2160	125
130	36°	2240	1380	38°	2160	1590	39°	2240	1730	130
135	32°	1970	1030	34°	1880	1220	35°	1950	1320	135
140	28°	1720		30°	1620	860	30°	1670	930	140
145										145
150										150

**CODES 118, 127, 136,
145, 154, 163**
EXTENDED 50' JIB



LOAD RADIUS (FT)	0° OFFSET				15° OFFSET			30° OFFSET			LOAD RADIUS (FT)
	BOOM ANGLE (DEG)	CODE 145	CODE 118	BOOM ANGLE (DEG)	CODE 154	CODE 127	BOOM ANGLE (DEG)	CODE 163	CODE 136		
		OVER REAR (LBS)	FULL 360° (LBS)		OVER REAR (LBS)	FULL 360° (LBS)		OVER REAR (LBS)	FULL 360° (LBS)		
25										25	
30										30	
35										35	
40	79°	7600	7600							40	
45	76°	7200	7200							45	
50	75°	6900	6900	79°	6370	6370				50	
55	73°	6500	6500	78°	6040	6040				55	
60	72°	6200	6200	76°	5750	5750	79°	5340	5340	60	
65	70°	5900	5900	75°	5460	5460	78°	5080	5080	65	
70	69°	5600	5600	73°	5190	5190	76°	4840	4840	70	
75	67°	5300	5300	71°	4940	4940	74°	4620	4620	75	
80	66°	5000	5000	70°	4700	4700	72°	4410	4410	80	
85	64°	4800	4800	68°	4470	4470	70°	4210	4210	85	
90	63°	4500	4500	66°	4260	4260	69°	4020	4020	90	
95	61°	4300	4300	64°	4060	4060	67°	3850	3850	95	
100	59°	4100	4100	62°	3870	3870	65°	3680	3680	100	
105	57°	3900	3900	60°	3690	3690	63°	3530	3530	105	
110	54°	3600	3600	58°	3530	3530	61°	3390	3390	110	
115	52°	3300	3300	56°	3370	3370	58°	3250	3250	115	
120	49°	3000	3000	53°	3220	3220	56°	3130	3130	120	
125	47°	2700	2600	51°	2980	2980	53°	3000	3000	125	
130	44°	2400	2220	48°	2700	2610	50°	2890	2890	130	
135	42°	2200	1870	45°	2440	2230	47°	2610	2500	135	
140	39°	2000	1540	42°	2190	1870	44°	2340	2100	140	
145	36°	1700	1240	39°	1950	1530	41°	2070	1730	145	
150	33°	1500	960	36°	1720	1220	37°	1820	1380	150	
155	30°	1300		32°	1500	930	32°	1580	1050	155	
160										160	
165										165	
170										170	
175										175	
180										180	