308 TON

Lattice Boom Truck Crane

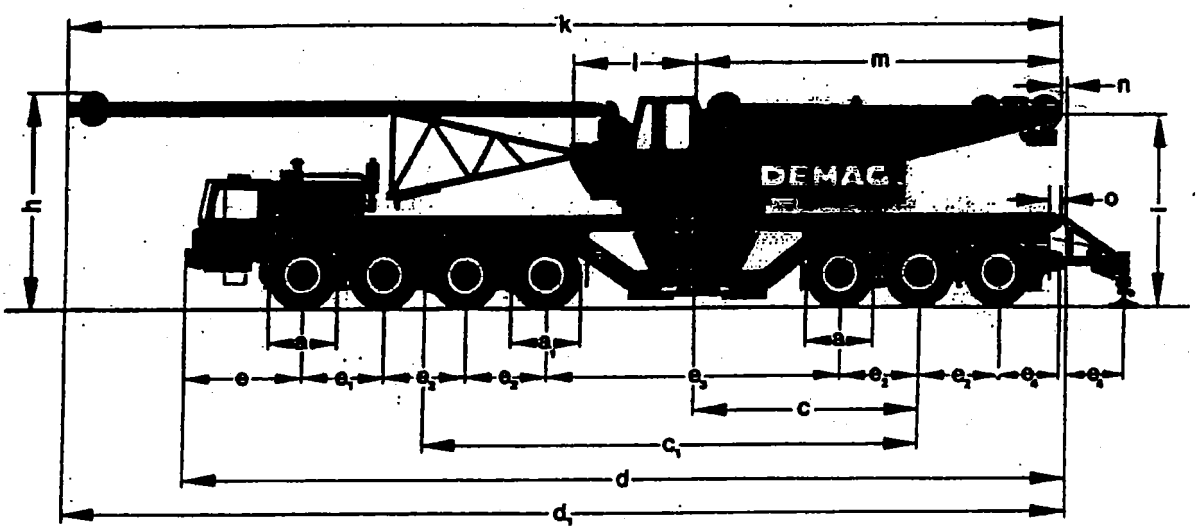
NESS & CAMPBELL CRANE, INC.

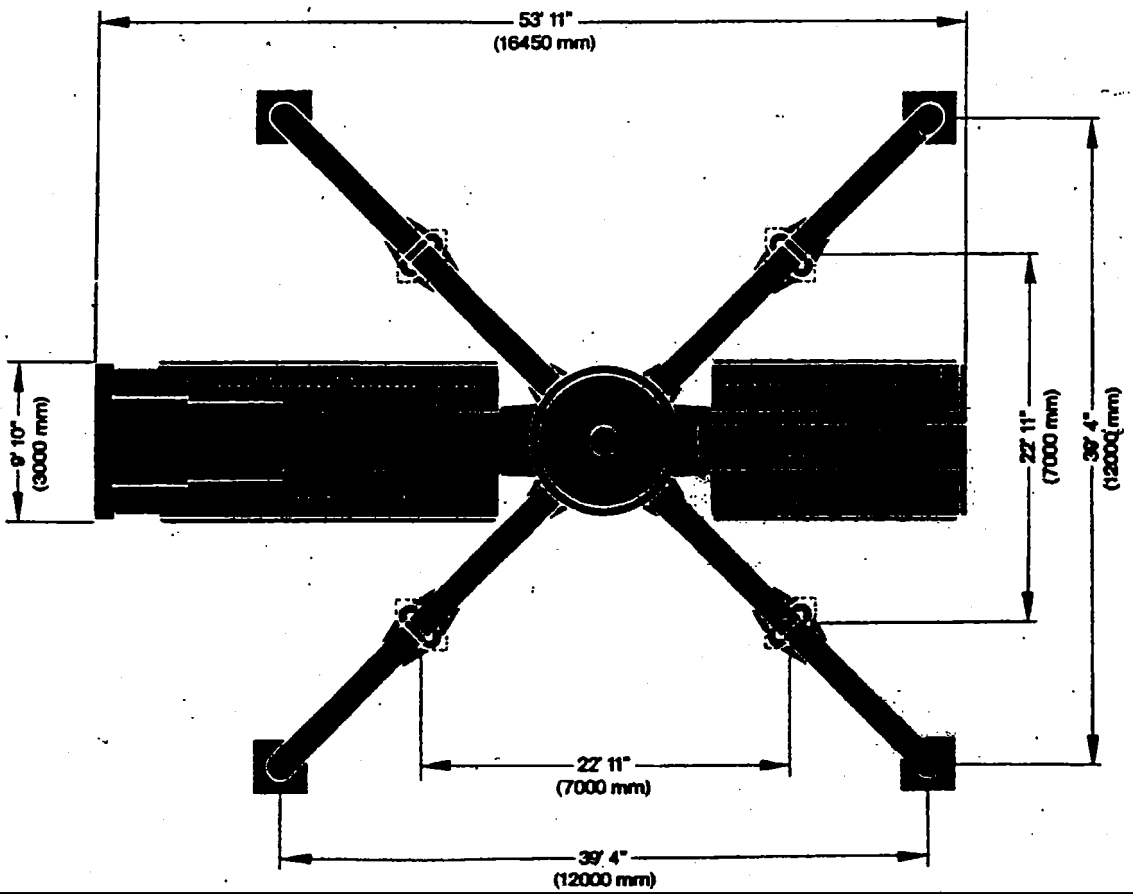
39′ to 295′ Main Boom
59′ to 216′ Luffing Jib

Notes:

DEMAG Baumaschinen 308 Ton Cap.

Basic Machine





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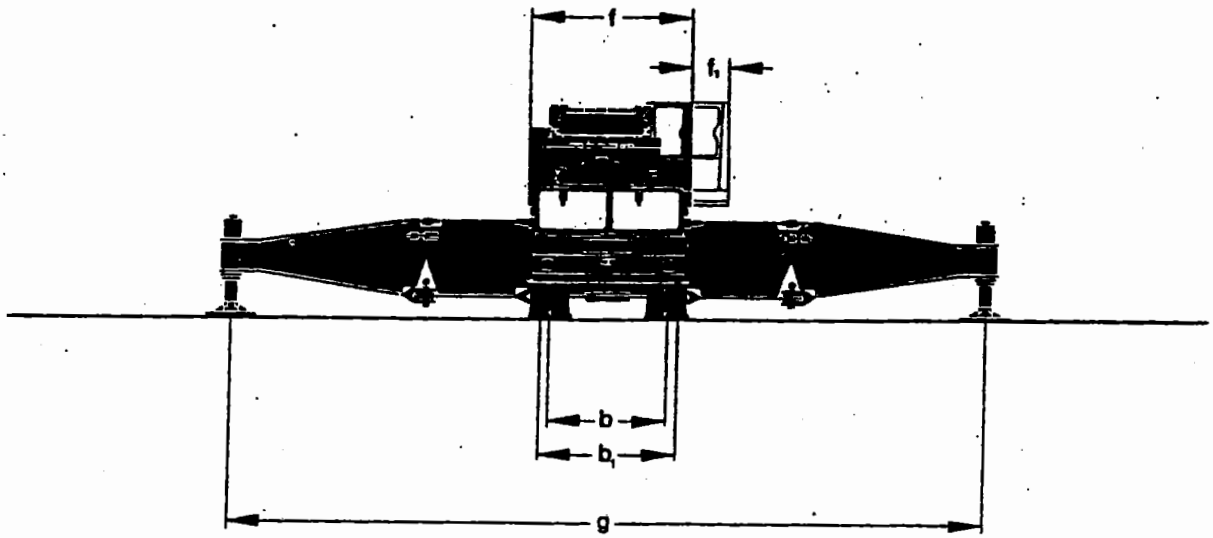
DEMAG Baumaschinen 308 Ton Cap.



a	14.00 - 24, PR 22	d	54' 9"	(16 710 mm)	e4	3'	(1 150 mm)	k	61' 4"	(18 700 mm)
a1	12.00 - 24, PR 20	d1	62' 2"	(18 950 mm)	f	9' 10"	(3 000 mm)	l	7' 2"	(2 200 mm)
b	7' 1"	(2 170 mm*)	e	8'	(2 450 mm)	f1	2' 4"	(700 mm)	m	22'	(6 710 mm)
b1	8' 5"	(2 503 mm)	e1	5' 3"	(1 600 mm)	g	39' 4"	(12 000 mm)	n	10"	(250 mm)
c	13' 9"	(4 200 mm)	e2	4' 11"	(1 500 mm)	h	12' 11"	(3 950 mm)	o	6"	(150 mm)
c1	30'	(9 150 mm)	e3	17' 8"	(5 400 mm)	i	11' 2"	(3 600 mm)			

* 4th Front Axle

Truck Carrier

Engine	KHD BF 12 L 413
System	12 cyl.-4 strokes
Output at 2500 RPM	310 kW (420 HP)
Cooling	air
Fuel-Tank Capacity	80 gal. (300 liters)
Transmission	12-Speed Main Transmission plus 2-Speed Transfer Case
Carrier	14 x 8
Suspension	
Front	1st and 2nd Axles: Leaf springs; 3rd and 4th = Hydraulic suspension
Rear	1st and 2nd Axles = Walking Beams, 3rd = Hydraulic suspension
Outriggers	4 articulated dismountable outrigger beams with hydraulic jack legs

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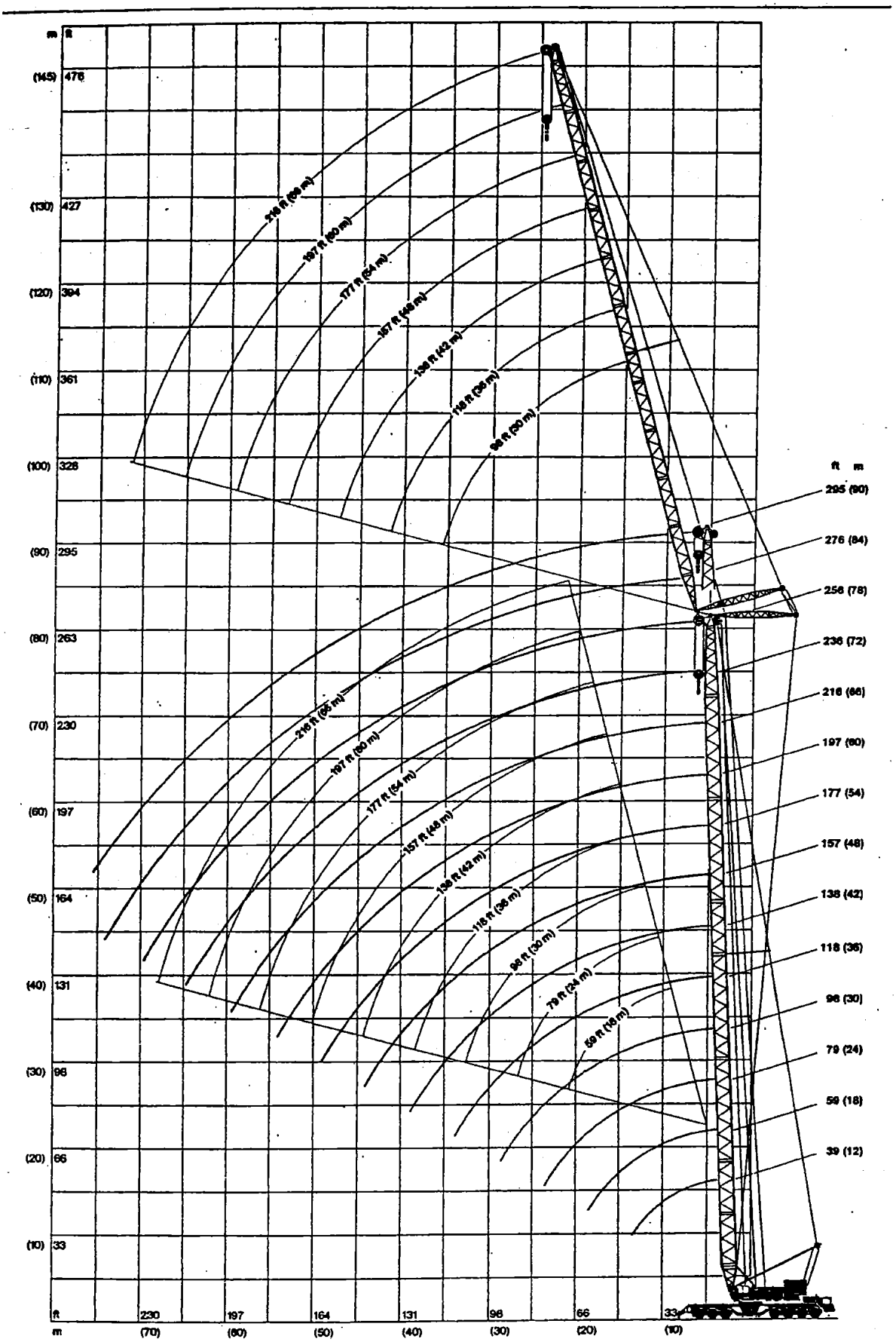
DEMAG Baumaschinen 308 Ton Cap.



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TC 1200

85 %

360°

O/R SPREAD
39'–4.4" SQ.
(12 x 12 m)

CAPACITIES (POUNDS) = LOAD + HOOK BLOCK

MAIN BOOM ONLY (FT.)

99 TON CWT.

BOOM LENGTH (FT.) 39

RADIUS (FT.)	85 % RATED
20	616,000
23	550,000
26	506,000
30	430,000
33	386,000
36	353,000
40	312,000

BOOM LENGTH (FT.) 79

RADIUS (FT.)	85 % RATED
23	550,000
26	503,000
30	425,000
33	382,000
36	344,000
40	306,000
46	260,000
53	220,000
59	196,000
66	177,000
72	156,000

All capacities above the parting line are based on structural strength, those below the line are based on stability for the percentage of tipping load as indicated.

BOOM LENGTH (FT.) 59

RADIUS (FT.)	85 % RATED
20	616,000
23	550,000
26	504,000
30	427,000
33	384,000
36	348,400
40	307,000
46	262,000
53	224,000
59	198,000

BOOM LENGTH (FT.) 98

RADIUS (FT.)	85 % RATED
23	550,000
26	498,000
30	422,000
33	378,000
36	342,000
40	304,000
46	258,000
53	217,000
59	193,000
66	169,000
72	153,000
79	137,000
85	127,000
92	116,000

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TC 1200

85 %

360°

O/R SPREAD
39'-4.4" SQ.
(12 x 12 m)

CAPACITIES (POUNDS) = LOAD + HOOK BLOCK

MAIN BOOM ONLY (FT.)

99 TON CWT.

BOOM LENGTH (FT.) 118

RADIUS (FT.)	85 % RATED
23	510,000
26	472,000
30	422,000
33	380,000
36	340,000
40	300,000
46	255,000
53	217,000
59	190,800
66	168,000
72	151,000
79	136,000
85	125,000
92	114,000
98	106,000

All capacities above the parting line are based on structural strength, those below the line are based on stability for the percentage of tipping load as indicated.

BOOM LENGTH (FT.) 138

RADIUS (FT.)	85 % RATED
26	436,000
30	408,000
33	376,000
36	337,600
40	297,000
46	253,000
53	213,000
59	189,000
66	166,000
72	150,000
79	134,000
85	122,000
92	112,000
98	103,000
110	89,000
125	75,000

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TC 1200

85 %

360°

O/R SPREAD
39'–4.4" SQ.
(12 x 12 m)

CAPACITIES (POUNDS) = LOAD + HOOK BLOCK

MAIN BOOM ONLY (FT.)

99 TON CWT.

BOOM LENGTH (FT.)	RADIUS (FT.)	85 % RATED
157		
	30	388,000
	33	362,000
	36	330,400
	40	298,000
	46	253,000
	53	213,000
	59	187,600
	66	165,000
	72	148,000
	79	132,000
	85	121,000
	92	112,000
	98	102,000
	110	87,000
	125	72,000
	140	61,000

All capacities above the parting line are based on structural strength, those below the line are based on stability for the percentage of tipping load as indicated.

BOOM LENGTH (FT.)	RADIUS (FT.)	85 % RATED
177		
	30	340,000
	33	328,000
	36	315,400
	40	294,000
	46	251,000
	53	211,000
	59	186,000
	66	162,000
	72	146,400
	79	131,000
	85	119,600
	92	108,000
	98	100,000
	110	85,200
	125	71,000
	140	60,000
	150	54,000

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TC 1200

85 %

360°

O/R SPREAD
39'–4.4" SQ.
(12 x 12 m)

CAPACITIES (POUNDS) = LOAD + HOOK BLOCK

MAIN BOOM ONLY (FT.)

99 TON CWT.

BOOM LENGTH (FT.)	RADIUS (FT.)	85 % RATED
197	33	291,000
	36	278,000
	40	264,000
	46	240,000
	53	209,000
	59	184,000
	66	161,000
	72	144,600
	79	129,600
	85	118,000
	92	107,000
	98	99,000
	110	84,000
	125	69,600
	140	58,000
	150	52,800
	165	45,000
	180	40,000

All capacities above the parting line are based on structural strength, those below the line are based on stability for the percentage of tipping load as indicated.

BOOM LENGTH (FT.)	RADIUS (FT.)	85 % RATED
216	33	238,000
	36	225,000
	40	214,000
	46	201,000
	53	190,000
	59	182,000
	66	160,000
	72	143,000
	79	128,000
	85	116,400
	92	105,600
	98	97,000
	110	82,400
	125	68,000
	140	58,000
	150	52,000
	165	43,600
	180	38,000
	190	35,000

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TC 1200

85 %

360°

O/R SPREAD
39'-4.4" SQ.
(12 x 12 m)

CAPACITIES (POUNDS) = LOAD + HOOK BLOCK

MAIN BOOM ONLY (FT.)

99 TON CWT.

BOOM LENGTH (FT.) 236

RADIUS (FT.)	85 % RATED
33	194,000
36	187,200
40	182,600
46	171,800
53	162,000
59	154,000
66	143,000
72	138,400
79	127,000
85	115,000
92	104,000
98	95,000
110	82,000
125	67,000
140	56,000
150	50,000
165	42,600
180	36,000
190	33,000
205	29,000

All capacities above the parting line are based on structural strength, those below the line are based on stability for the percentage of tipping load as indicated.

BOOM LENGTH (FT.) 256

RADIUS (FT.)	85 % RATED
33	163,000
36	156,600
40	151,000
46	141,600
53	111,400
59	124,600
66	116,000
72	110,200
79	103,400
85	98,400
92	92,600
98	88,000
110	79,000
125	66,000
140	55,000
150	49,000
165	41,000
180	35,000
190	32,000
205	27,600
220	24,000
230	22,000

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TC 1200

85 %

360°

O/R SPREAD
39'–4.4" SQ.
(12 x 12 m)

CAPACITIES (POUNDS) = LOAD + HOOK BLOCK

MAIN BOOM ONLY (FT.)

99 TON CWT.

BOOM LENGTH (FT.) 276

RADIUS (FT.)	85 % RATED
36	132,400
40	125,000
46	116,000
53	107,600
59	100,200
66	93,600
72	88,000
79	82,000
85	77,600
92	73,200
98	69,600
110	62,000
125	55,600
140	49,000
150	45,400
165	40,600
180	34,000
190	30,600
205	26,000
220	23,000
230	20,400

All capacities above the parting line are based on structural strength, those below the line are based on stability for the percentage of tipping load as indicated.

BOOM LENGTH (FT.) 295

RADIUS (FT.)	85 % RATED
36	116,800
40	108,400
46	101,400
53	92,000
59	84,800
66	78,000
72	73,400
79	68,000
85	64,000
92	59,000
98	56,000
110	49,600
125	43,000
140	36,400
150	34,000
165	31,200
180	26,000
190	23,400
205	20,200
220	17,000
230	15,600

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75 %	TC 1200 LUFFING FLY JIB ANGLE OF MAIN BOOM 88°	360° 39'–4.4" (12 x 12 m)

CAPACITIES (POUNDS) = LOAD + HOOK BLOCK

MAIN BOOM (FT.) 99 TON CWT.

98'–5.1" (30m)

JIB (FT.)

RADIUS (FT)	59'–1"	78'–9"	98'–5"	118'–1"	137'–9"	157'–6"	177'–2"	196'–10"	216'–6"
32'–10"	220,000								
39'–4"	207,000	180,400							
45'–11"	195,400	170,200	143,600	113,200					
52'–6"	185,800	160,000	137,400	110,600	88,200				
59'–1"	160,600	150,600	131,400	108,000	87,400	67,600			
65'–7"	139,200	143,200	126,000	105,000	86,600	66,600	50,400		
72'–7"		126,800	120,600	102,200	85,800	65,000	49,800	41,400	34,200
78'–9"		112,800	111,600	99,400	84,600	63,800	48,600	40,200	33,000
85'–0"		101,800	100,400	96,200	83,800	62,400	47,400	38,800	31,800
91'–10"			91,200	90,400	82,600	61,000	46,600	37,800	30,800
98'–5"			83,600	82,400	81,400	60,000	45,400	36,600	29,200
111'–7"				70,400	69,000	57,200	43,200	34,200	27,000
124'–8"				61,000	59,800	54,400	41,000	32,000	24,600
137'–9"					52,800	51,800	40,200	29,600	22,600
150'–11"						46,200	37,000	27,600	20,600
164'–0"						41,400	34,800	25,800	18,600
177'–2"							33,000	24,400	16,800
190'–3"								22,800	15,400
203'–5"								21,400	14,200
216'–6"									
229'–8"									
242'–9"									
255'–11"									

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75 %	TC 1200 LUFFING FLY JIB ANGLE OF MAIN BOOM 88°	360° 39'–4.4" (12 x 12 m)

CAPACITIES (POUNDS) = LOAD + HOOK BLOCK

MAIN BOOM (FT.) 118'–1.3" (36m) 99 TON CWT.

JIB (FT.)

RADIUS (FT)	59'–1"	78'–9"	98'–5"	118'–1"	137'–9"	157'–6"	177'–2"	196'–10"	216'–6"
32'–10"	199,200								
39'–4"	190,600	166,400							
45'–11"	181,000	156,400	132,000						
52'–6"	171,800	148,200	127,200	103,000	82,600				
59'–1"	163,200	140,800	122,400	100,800	82,000	64,400			
65'–7"	141,200	133,800	117,800	98,400	81,400	63,200	49,600		
72'–7"	124,200	126,400	113,600	95,800	80,200	62,200	48,800	40,000	32,400
78'–9"		112,600	109,000	93,400	79,400	61,200	47,800	38,800	31,600
85'–0"		101,400	100,000	90,800	78,400	60,000	46,800	38,000	30,400
91'–10"			90,800	88,000	77,400	58,800	45,800	36,800	29,600
98'–5"			83,000	82,200	76,000	58,000	44,800	36,000	28,600
111'–7"				69,800	68,800	55,600	43,000	34,000	24,800
124'–8"				60,800	59,600	53,600	41,200	32,000	22,800
137'–9"					52,200	51,400	39,200	30,000	20,800
150'–11"						45,600	37,400	28,000	18,800
164'–0"						41,000	35,400	24,400	16,800
177'–2"							33,400	22,800	15,400
190'–3"								21,400	14,200
203'–5"									
216'–6"									
229'–8"									
242'–9"									
255'–11"									

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75 %

TC 1200

LUFFING FLY JIB

ANGLE OF MAIN BOOM 88°

360°

39'-4.4" (12 x 12 m)

CAPACITIES (POUNDS) = LOAD + HOOK BLOCK

MAIN BOOM (FT.) 99 TON CWT.

137'-9.5" (42m)

JIB (FT.)

RADIUS (FT)	59'-1"	78'-9"	98'-5"	118'-1"	137'-9"	157'-6"	177'-2"	196'-10"	216'-6"
32'-10"									
38'-4"		149,600							
45'-11"		143,200	119,800						
52'-6"		137,000	116,000	95,200	76,400				
59'-1"		131,000	112,400	93,400	75,800	60,600			
65'-7"		125,800	108,600	91,400	75,000	60,000	47,800		
72'-7"		120,200	105,000	89,200	74,000	58,800	47,200	38,000	29,600
78'-9"		112,600	101,800	87,400	73,000	58,000	46,600	37,400	28,800
85'-0"		101,400	98,200	85,200	72,200	57,200	45,800	36,200	27,600
91'-10"		92,000	91,000	83,000	71,200	56,400	45,200	35,400	26,600
98'-5"			83,200	80,800	70,000	55,600	44,400	34,400	24,600
111'-7"				70,000	67,800	53,600	42,600	33,000	23,000
124'-8"				61,000	60,000	52,000	40,600	31,000	21,200
137'-9"					52,800	50,200	39,000	29,400	19,800
150'-11"						48,400	37,400	27,600	18,400
164'-0"						46,400	35,200	26,400	17,000
177'-2"							33,200	25,000	16,000
190'-3"								24,200	14,600
203'-5"								23,000	13,400
216'-6"									
229'-8"									
242'-9"									
255'-11"									

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75 %

TC 1200

LUFFING FLY JIB

ANGLE OF MAIN BOOM 88°

360°

39'–4.4" (12 x 12 m)

CAPACITIES (POUNDS) = LOAD + HOOK BLOCK

MAIN BOOM (FT.) 99 TON CWT.

157'–5.7" (48m)

JIB (FT.)

RADIUS (FT)	59'–1"	78'–9"	98'–5"	118'–1"	137'–9"	157'–6"	177'–2"	196'–10"	216'–6"
32'–10"									
39'–4"		134,200							
45'–11"		129,000	108,800						
52'–6"		123,800	106,000	87,000					
59'–1"		119,000	102,800	85,200	69,400	57,200			
65'–7"		114,400	99,800	83,800	68,800	56,400	45,200		
72'–7"		110,000	97,000	82,000	68,200	55,600	45,000	35,800	
78'–9"		105,600	93,800	80,200	67,200	55,200	44,600	35,200	27,600
85'–0"		101,400	91,000	78,400	66,400	54,400	44,200	34,200	27,000
91'–10"		92,000	88,200	76,600	65,400	53,800	43,600	33,600	26,000
98'–5"			83,000	75,000	64,600	53,200	42,800	33,000	25,000
111'–7"			71,000	69,800	62,400	51,600	41,800	31,600	23,800
124'–8"				60,600	59,600	50,000	40,200	30,200	22,600
137'–9"					52,400	48,000	38,400	29,000	21,200
150'–11"						46,200	36,600	27,400	20,000
164'–0"						41,200	34,800	26,000	18,600
177'–2"							33,000	24,600	17,200
190'–3"								23,000	16,000
203'–5"								21,400	14,600
216'–6"									13,400
229'–8"									
242'–9"									
255'–11"									

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75 %	TC 1200 LUFFING FLY JIB ANGLE OF MAIN BOOM 88°	360° 39'–4.4" (12 x 12 m)

CAPACITIES (POUNDS) = LOAD + HOOK BLOCK

MAIN BOOM (FT.) 99 TON CWT.

177'–2" (54m)

JIB (FT.)

RADIUS (FT)	59'–1"	78'–9"	98'–5"	118'–1"	137'–9"	157'–6"	177'–2"	196'–10"	216'–6"
32'–10"									
39'–4"		124,000							
45'–11"		120,200	100,000						
52'–6"		116,800	97,800	81,800					
59'–1"		113,200	95,600	80,200	64,400	53,000			
65'–7"		109,600	93,600	78,800	63,400	52,400	42,200		
72'–7"		106,200	91,400	77,600	62,800	51,800	41,800	33,800	
78'–9"		102,600	89,000	76,000	62,400	51,200	41,200	33,400	27,000
85'–0"		99,200	87,200	74,400	61,600	50,800	40,800	33,200	26,600
91'–10"		91,800	84,800	73,200	60,800	50,200	40,600	32,600	25,800
98'–5"			82,400	71,800	60,200	49,600	40,000	32,200	25,200
111'–7"			70,800	69,800	58,400	48,600	39,600	31,400	24,600
124'–8"				60,600	56,600	47,400	38,600	30,400	23,400
137'–9"					52,400	46,200	38,000	29,400	22,200
150'–11"						43,600	36,600	28,200	20,800
164'–0"						41,200	35,600	27,200	19,800
177'–2"							34,000	25,800	18,400
190'–3"								24,400	17,000
203'–5"								22,800	15,800
216'–6"									14,400
229'–8"									
242'–9"									
255'–11"									

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75 %	TC 1200 LUFFING FLY JIB ANGLE OF MAIN BOOM 88°	360° / 39'–4.4" (12 x 12 m)

CAPACITIES (POUNDS) = LOAD + HOOK BLOCK

MAIN BOOM (FT.) 99 TON CWT.

255'–10.9" (78m)

JIB (FT.)

RADIUS (FT)	59'–1"	78'–9"	98'–5"	118'–1"	137'–9"	157'–6"	177'–2"	196'–10"	216'–6"
32'–10"									
39'–4"									
45'–11"									
52'–6"			54,400	47,600					
59'–1"			54,200	47,000	39,600				
65'–7"			53,800	46,400	39,000	32,000			
72'–7"			53,400	46,200	38,600	31,800	26,600	22,000	
78'–9"			52,800	45,600	38,200	31,600	26,600	21,600	18,000
85'–0"			52,000	45,400	38,000	31,600	26,400	21,400	18,000
91'–10"			51,400	45,000	37,600	31,400	26,000	21,200	17,800
98'–5"			49,800	44,200	37,400	31,400	25,800	21,000	17,600
111'–7"			48,400	43,000	36,400	31,200	25,800	20,800	17,200
124'–8"				41,200	35,600	30,800	25,600	20,600	17,000
137'–9"					34,000	30,000	25,400	20,400	17,000
150'–11"					32,600	29,200	24,800	20,200	16,800
164'–0"						28,000	24,200	20,000	16,600
177'–2"							23,200	19,200	16,200
190'–3"							22,400	18,800	15,800
203'–5"								18,000	14,800
216'–6"									14,000
229'–8"									
242'–9"									
255'–11"									

7–8–01

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