



308 TON

Lattice Boom Truck Crane



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



Notes:



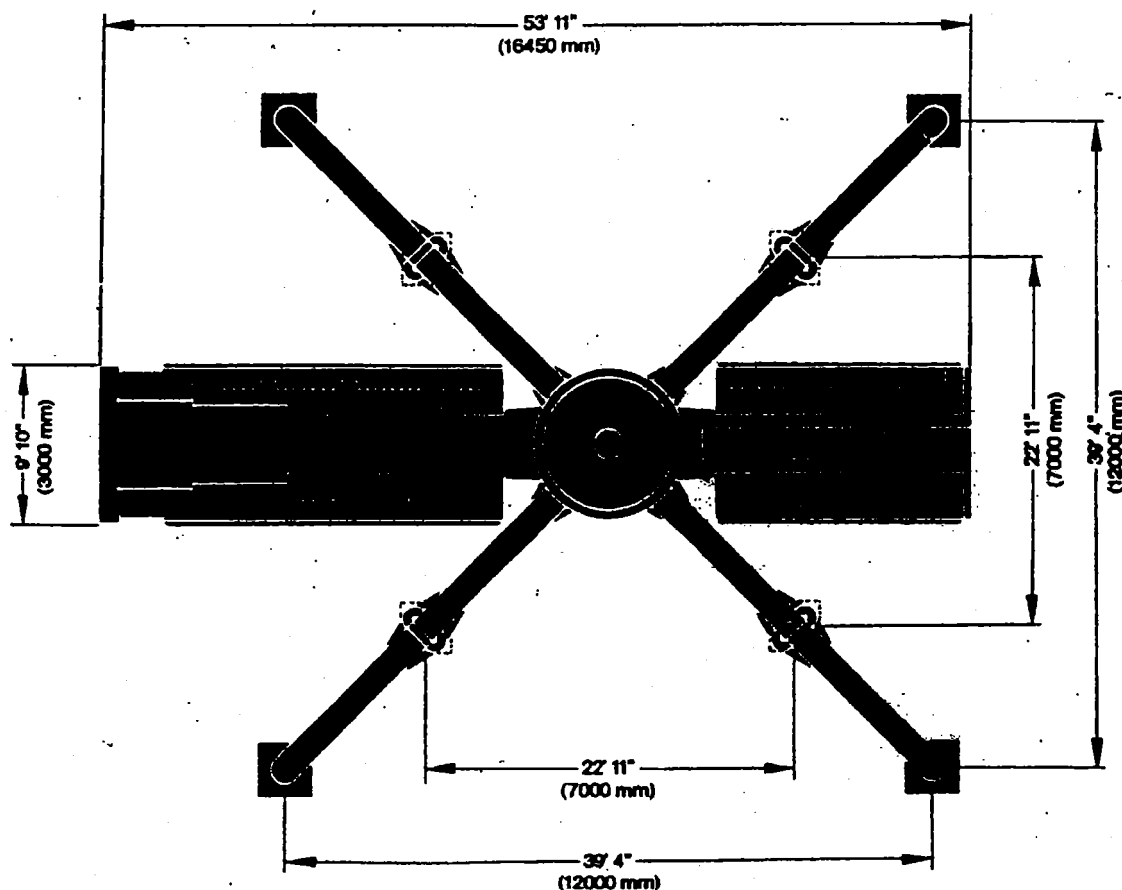


Portland: 503-283-3111
Seattle: 206-784-1054

DEMAG Baumaschinen 308 Ton Cap.

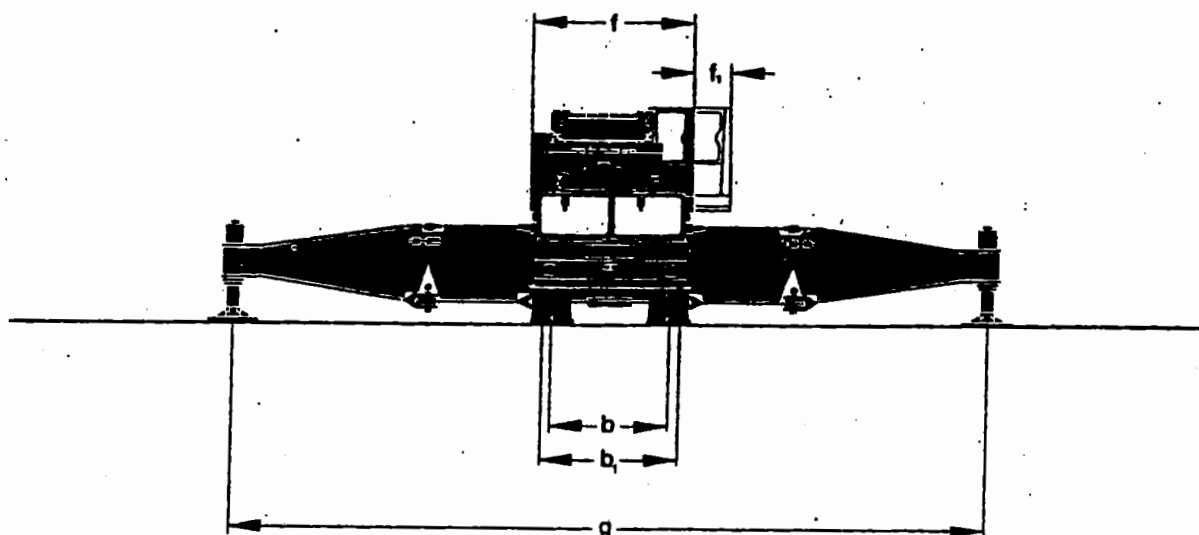
Technical drawing of a truck-mounted crane (Demag) showing dimensions. The crane is mounted on a truck chassis. Dimensions are labeled as follows:

- k : Total length of the crane.
- l : Length of the crane boom.
- m : Length of the truck chassis.
- n : Height of the crane boom.
- h : Height of the truck chassis.
- a : Wheelbase of the truck.
- $a_1, a_2, a_3, a_4, a_5, a_6, a_7, a_8, a_9$: Distances between axles.
- c : Distance from the front axle to the center of gravity.
- c_1 : Distance from the front axle to the center of gravity of the crane.
- d : Distance from the front axle to the rear axle.
- d_1 : Distance from the front axle to the rear axle of the crane.



This information is for reference use only. Operators manual should be consulted and adhered to. Please contact NESS & CAMPBELL CRANE at **info@nessandcampbell.com** for further information.



**DEMAG Baumaschinen 308 Ton Cap.**

a	14.00 - 24, PR 22	d	54' 9" (16 710 mm)	e ₄	3' (1 150 mm)	k	61' 4" (18 700 mm)
a ₁	12.00 - 24, PR 20	d ₁	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)	f ₁	2' 4" (700 mm)	m	22' (6 710 mm)
b ₁	8' 5" (2 503 mm)	e ₁	5' 3" (1 600 mm)	g	39' 4" (12 000 mm)	n	10" (250 mm)
c	13' 9" (4 200 mm)	e ₂	4' 11" (1 500 mm)	h	12' 11" (3 950 mm)	o	6" (150 mm)
c ₁	30' (9 150 mm)	e ₃	17' 8" (5 400 mm)	i	11' 2" (3 600 mm)		

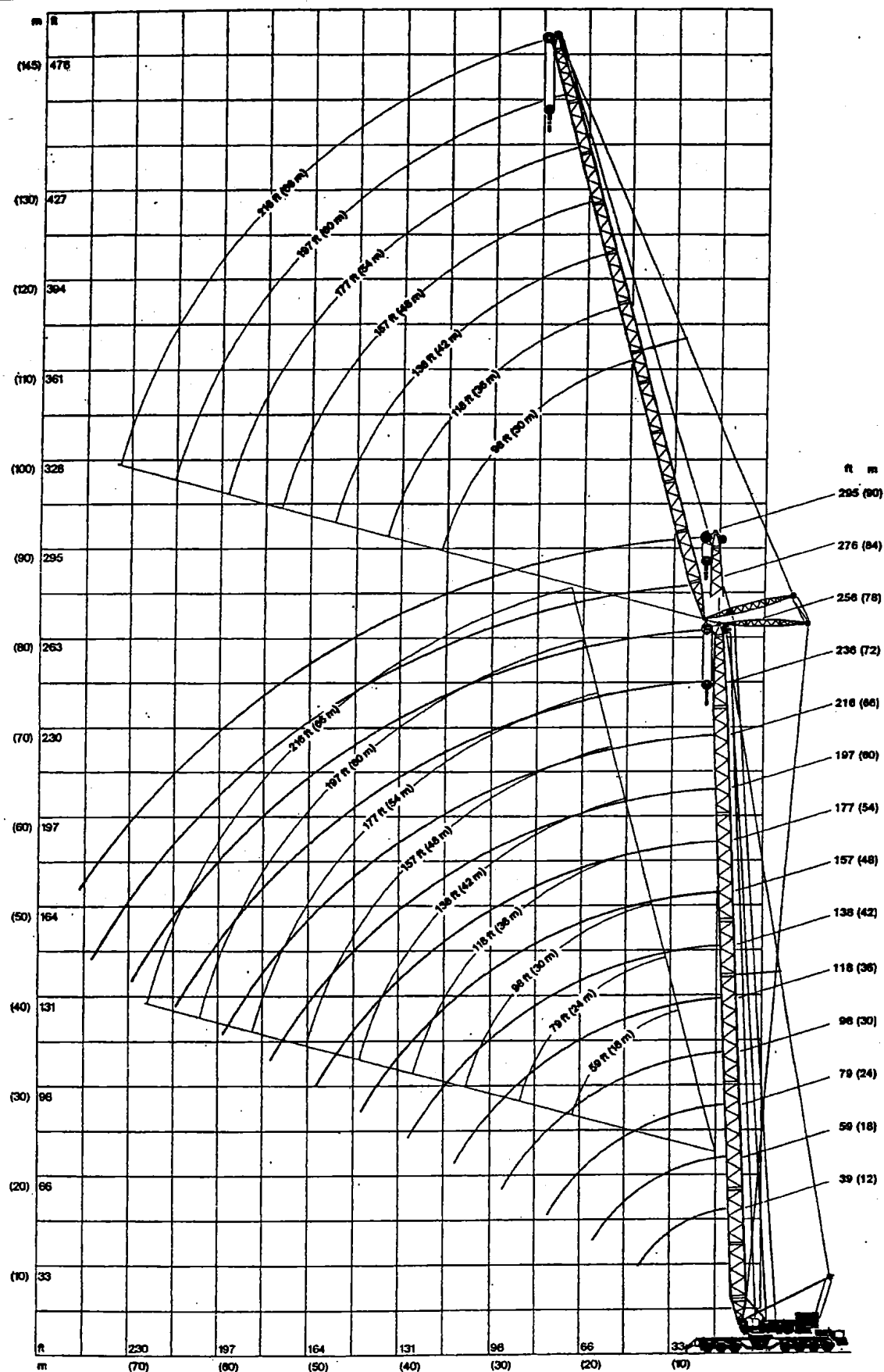
* 4th Front Axle**Truck Carrier**

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 4 th = Hydraulic suspension
Rear	1st and 2nd Axles = Walking Beams, 3rd = Hydraulic suspension
Outriggers	4 articulated dismountable outrigger beams with hydraulic jack legs





DEMAG Baumaschinen 308 Ton Cap.





TC 1200				O/R SPREAD 39'-4.4" SQ. (12 x 12 m)			
85 %				360°			
CAPACITIES (POUNDS) = LOAD + HOOK BLOCK							
MAIN BOOM ONLY (FT.)				99 TON CWT			
		RADIUS	85 %			RADIUS	85 %
		(FT.)	RATED			(FT.)	RATED
BOOM LENGTH (FT.) 39	20	616,000	BOOM LENGTH (FT.) 79	23	550,000		
	23	550,000		26	503,000		
	26	506,000		30	425,000		
	30	430,000		33	382,000		
	33	386,000		36	344,000		
	36	353,000		40	306,000		
	40	312,000		46	260,000		
	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.			53	220,000		
59				196,000			
66				177,000			
72				156,000			
BOOM LENGTH (FT.) 59	20	616,000	BOOM LENGTH (FT.) 98	23	550,000		
	23	550,000		26	498,000		
	26	504,000		30	422,000		
	30	427,000		33	378,000		
	33	384,000		36	342,000		
	36	348,400		40	304,000		
	40	307,000		46	258,000		
	46	262,000		53	217,000		
	53	224,000		59	193,000		
	59	198,000	8-28-01 1/6 A179	66	169,000		
		72		153,000			
		79		137,000			
		85		127,000			
			92	116,000			





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TC 1200				O/R SPREAD 39'-4.4" SQ. (12 x 12 m)			
85 %				360°			
CAPACITIES (POUNDS) = LOAD + HOOK BLOCK							
MAIN BOOM ONLY (FT.)				99 TON CWT			
		RADIUS	85 %			RADIUS	85 %
		(FT.)	RATED			(FT.)	RATED
BOOM LENGTH (FT.)				BOOM LENGTH (FT.)			
197				216			
		33	291,000			33	238,000
		36	278,000			36	225,000
		40	264,000			40	214,000
		46	240,000			46	201,000
		53	209,000			53	190,000
		59	184,000			59	182,000
		66	161,000			66	160,000
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.		72	144,600			72	143,000
		79	129,600			79	128,000
		85	118,000			85	116,400
		92	107,000			92	105,600
		98	99,000			98	97,000
		110	84,000			110	82,400
		125	69,600			125	68,000
		140	58,000			140	58,000
		150	52,800			150	52,000
		165	45,000			165	43,600
		180	40,000			180	38,000
				8-29-01		190	35,000
				4/6			
				A179			





TC 1200				O/R SPREAD 39'-4.4" SQ. (12 x 12 m)			
85 %				360°			
CAPACITIES (POUNDS) = LOAD + HOOK BLOCK							
MAIN BOOM ONLY (FT.)				99 TON CWT.			
		RADIUS	85 %			RADIUS	85 %
		(FT.)	RATED			(FT.)	RATED
BOOM LENGTH (FT.) 236				BOOM LENGTH (FT.) 256			
	33	194,000			33	163,000	
	36	187,200			36	156,600	
	40	182,600			40	151,000	
	46	171,800			46	141,600	
	53	162,000			53	111,400	
	59	154,000			59	124,600	
	66	143,000			66	116,000	
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.	72	138,400			72	110,200	
	79	127,000			79	103,400	
	85	115,000			85	98,400	
	92	104,000			92	92,600	
	98	95,000			98	88,000	
	110	82,000			110	79,000	
	125	67,000			125	66,000	
	140	56,000			140	55,000	
	150	50,000			150	49,000	
	165	42,600			165	41,000	
	180	36,000			180	35,000	
	190	33,000			190	32,000	
	205	29,000			205	27,600	
			8-29-01 5/6 A179		220	24,000	
					230	22,000	





		TC 1200				O/R SPREAD 39'-4.4" SQ. (12 x 12 m)	
		85 %		360°			
CAPACITIES (POUNDS) = LOAD + HOOK BLOCK							
MAIN BOOM ONLY (FT.)				99 TON CWT			
		RADIUS	85 %			RADIUS	85 %
		(FT.)	RATED			(FT.)	RATED
BOOM LENGTH (FT.) 276				BOOM LENGTH (FT.) 295			
	36	132,400	36		116,800		
	40	125,000	40		108,400		
	46	116,000	46	101,400			
	53	107,600			53	92,000	
	59	100,200			59	84,800	
	66	93,600			66	78,000	
	72	88,000			72	73,400	
	79	82,000			79	68,000	
	85	77,600			85	64,000	
	92	73,200			92	59,000	
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.	98	69,600			98	56,000	
	110	62,000			110	49,600	
	125	55,600			125	43,000	
	140	49,000			140	36,400	
	150	45,400			150	34,000	
	165	40,600			165	31,200	
	180	34,000			180	26,000	
	190	30,600			190	23,400	
	205	26,000			205	20,200	
	220	23,000			220	17,000	
	230	20,400	2-29-01		230	15,600	
			6/6				
			A140				





75 %	TC 1200							360°	
	LUFFING FLY JIB ANGLE OF MAIN BOOM 88°							39'-4.4" (12 x 12 m)	
RADIUS (FT.)	CAPACITIES (POUNDS) = LOAD + HOOK BLOCK								
	MAIN BOOM (FT.)							99 TON CWT.	
	98'-5.1" (30m)								
	JIB (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"									
								7-8-01	
								3/11	
								A150	
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75 %	TC 1200							360°	
	LUFFING FLY JIB ANGLE OF MAIN BOOM 88°							39'-4.4" (12 x 12 m)	
RADIUS (FT.)	CAPACITIES (POUNDS) = LOAD + HOOK BLOCK								
	MAIN BOOM (FT.)							99 TON CWT	
	118'-1.3" (36m)								
	JIB (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"									
								7-8-01	
								4/11	
								A150	
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75 %	TC 1200							360°		
	LUFFING FLY JIB ANGLE OF MAIN BOOM 88°							39'-4.4" (12 x 12 m)		
RADIUS (FT.)	CAPACITIES (POUNDS) = LOAD + HOOK BLOCK									
	MAIN BOOM (FT.) 99 TON CWT.									
	137'-9.5" (42m)									
	JIB (FT.)									
	59'-1"	78'-9"	98'-5"	118'-1"	137'-9"	157'-6"	177'-2"	196'-10"	216'-6"	
32'-10"										
39'-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"										
								7-8-01		
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75 %	TC 1200							360°		
	LUFFING FLY JIB ANGLE OF MAIN BOOM 88°							39'-4.4" (12 x 12 m)		
RADIUS (FT.)	CAPACITIES (POUNDS) = LOAD + HOOK BLOCK									
	MAIN BOOM (FT.)							99 TON CWT.		
	157'-5.7" (48m)									
	JIB (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	
	85'-0"		101,400	91,000	78,400	66,400	54,400	44,200	34,200	
	91'-10"		92,000	88,200	76,600	65,400	53,800	43,600	33,600	
	98'-5"			83,000	75,000	64,600	53,200	42,800	33,000	
	111'-7"			71,000	69,800	62,400	51,600	41,800	31,600	
	124'-8"				60,600	59,600	50,000	40,200	30,200	
	137'-9"					52,400	48,000	38,400	29,000	
150'-11"						46,200	36,600	27,400		
164'-0"						41,200	34,800	26,000		
177'-2"							33,000	24,600		
190'-3"								23,000		
203'-5"								21,400		
216'-6"										
229'-8"										
242'-9"										
255'-11"										
								7-8-01		
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75 %	TC 1200							360°	
	LUFFING FLY JIB ANGLE OF MAIN BOOM 88°							39'-4.4" (12 x 12 m)	
RADIUS (FT.)	CAPACITIES (POUNDS) = LOAD + HOOK BLOCK								
	MAIN BOOM (FT.)							99 TON CWT	
	177'-2" (54m)								
	JIB (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				
	58'-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
	85'-0"		99,200	87,200	74,400	61,600	50,800	40,800	33,200
	91'-10"		91,800	84,800	73,200	60,800	50,200	40,600	32,600
	98'-5"			82,400	71,800	60,200	49,600	40,000	32,200
	111'-7"			70,800	69,800	58,400	48,600	39,600	31,400
	124'-8"				60,600	56,600	47,400	38,600	30,400
	137'-9"					52,400	46,200	38,000	29,400
	150'-11"						43,600	36,600	28,200
164'-0"						41,200	35,600	27,200	
177'-2"							34,000	25,800	
190'-3"								24,400	
203'-5"								22,800	
216'-6"								14,400	
229'-8"									
242'-9"									
255'-11"									
								7-8-01	
								7/11	
								A150	
						195652 40 4			





75 %	TC 1200							360°		
	LUFFING FLY JIB ANGLE OF MAIN BOOM 88°							39'-4.4" (12 x 12 m)		
RADIUS (FT.)	CAPACITIES (POUNDS) = LOAD + HOOK BLOCK									
	MAIN BOOM (FT.) 99 TON CWT.									
	255'-10.9" (78m)									
	JIB (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"										
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