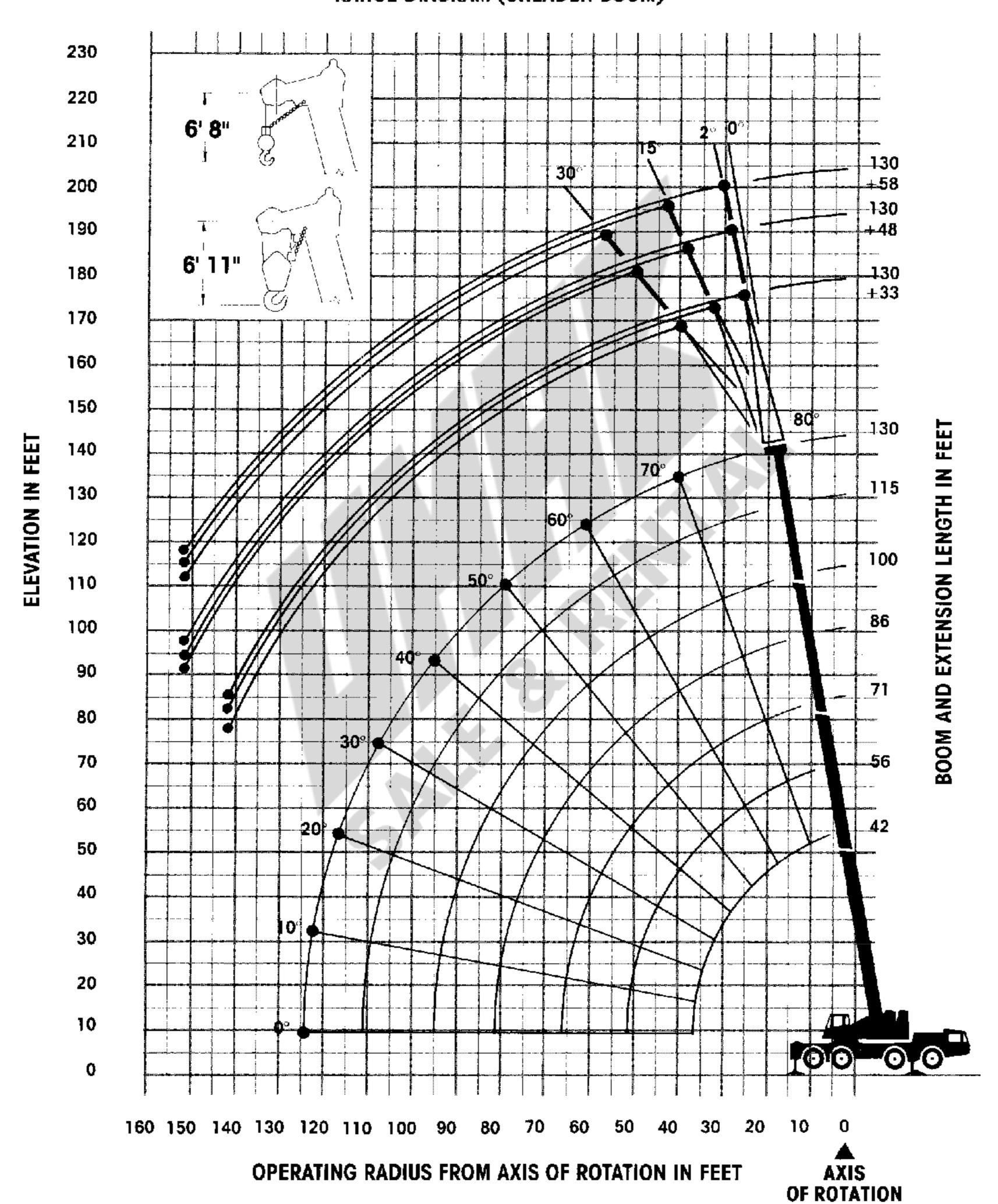


# AT1100

85% Domestic/42ft-130ft boom/Four-axle carrier

#### RANGE DIAGRAM (UNLADEN BOOM)



## RATED LIFTING CAPACITIES (POUNDS) ZERO COUNTERWEIGHT

### 42 FT - 130 FT 4-SECTION BOOM ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in	Main boom len Fourth section	-	Fourth section extended					
feet	42	56	71	86	100	115	130	
10	220000							
12	193000	123800						
15	151000	123800	123000	92400				
20	103600	103400	103200	78000	68200			
25	68700	67900	67000	63500	58600	54000	38600	
30	46600	45800	45400	45000	44600	43000	38600	
35		34900	34400	34300	34000	34400	34400	
40	<u></u>	28500	28300	28100	28100	29400	29400	
50			17000	17000	16900	19500	19500	
60			10500	10500	10400	12700	12800	
70	**************************************			6300	6200	8500	8600	
80		**************************************			3300	5400	5500	
90						3200	3300	

# 42 FT - 71 FT 4-SECTION BOOM ON-RUBBER CAPACITIES OVER REAR ONLY $16.00 \times 25$ TIRES AT 115PSI $20.5 \times 25$ TIRES AT 85PSI

Radius in feet	Up to 1 mph	Up to 3mph
10	55700	30500
12	50300	26800
15	43300	22600
20	29500	17000
25	19900	12800
30	13900	9600
35	9400	7100
40	6000	5000
45	3500	3400

## 130 FT MAIN BOOM WITH 33 FT FIXED-LENGTH BOOM EXTENSION ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in		33ft Extension							
feet	0° Offset	15° Offset	30° Offset						
32	25800	16200@							
35	24600	37'6"							
40	22800	16000	12200						
50	20000	14600	11800						
60	14100	13500	11100						
70	9700	10700	10500						
80	6600	7400	8450						
90	4400	5100	5700						
100	2600	3200	3600						

## 130 FT MAIN BOOM WITH 33 FT - 58 FT TELE BOOM EXTENSION ON OUTRIGGERS FULLY EXTENDED - 360°

Radius	33ft Length			5	48ft Length			58ft Length		
in feet	0° Offset	15° Offset	30° Offset	0° Offset	15° Offset	30° Offset	0° Offset	15° Offset	30° Offset	
32	24200	15800@		16500@						
35	22900	37'6"		35′6″	10500@			<b>L</b>		
40	21300	15600	11700	15400	46′0″	7700@	13100			
50	18700	14100	11300	13500	10100	54'6"	11400	8500	6100@	
60	13400	13000	10600	12000	9300	7500	10200	7800	62'6"	
70	9100	10500	10000	10100	8500	7000	9100	7200	5900	
80	6000	6800	7900	7000	7600	6600	7700	6700	5500	
90	3700	4400	5100	4800	5800	6200	5400	6100	5200	
100			3000	2900	3800	4800	3500	4800	5000	
110		<u> </u>				3000		3000	4000	

# RATED LIFTING CAPACITIES (POUNDS) 12,500 LBS COUNTERWEIGHT

### 42 FT - 130 FT 4-SECTION BOOM ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in	Main boom len Fourth section	_				Fourth section extended		
feet	42	56	71	86	100	115	130	
10	220000							
12	194800	123800						
15	161200	123800	123400	92400				
20	115600	113500	104000	78000	68200			
25	88400	87400	85200	66800	58600	54000	38600	
30	63500	63300	63200	58200	51000	48000	38600	
35		47700	47600	47500	45000	43000	38600	
40		37100	37000	36900	36800	38500	35200	
50			23800	23700	23600	26100	26300	
60			16200	16100	16100	18400	18500	
70				11000	10900	13300	13400	
80					7300	9600	9700	
90					4700	6900	7000	
100						4900	5000	
110							3300	
120							2000	

# 42 FT - 71 FT 4-SECTION BOOM ON-RUBBER CAPACITIES OVER REAR ONLY $16.00 \times 25$ TIRES AT 115PSI $20.5 \times 25$ TIRES AT 85PSI

Radius in feet	Up to 1 mph	Up to 3 mph
10	55700	30500
12	50300	26800
15	43300	22600
20	34700	17000
25	26700	12800
30	19500	9600
35	14600	7100
40	11000	5000
50	6200	
60	3000	

## 130 FT MAIN BOOM WITH 33 FT FIXED-LENGTH BOOM EXTENSION ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in		33ft Extension	
feet	0° Offset	15° Offset	30° Offset
32	25800	16200@	
35	24600	37′6″	
40	22800	16000	12200
50	20000	14600	11800
60	17800	13500	11100
70	14400	12500	10500
80	10800	11700	10000
90	8100	8800	9600
100	6000	6500	7100
110	4200	4800	5500
120	3000	3200	3600
130		2100	2300

### 130 FT MAIN BOOM WITH 33 FT - 58 FT TELE BOOM EXTENSION ON OUTRIGGERS FULLY EXTENDED - 360°

Radius		33ft Length			48ft Length			58ft Length		
in feet	0° Offset	15° Offset	30° Offset	0° Offset	15° Offset	30° Offset	0° Offset	15° Offset	30° Offset	
32	24200	15800@		1650C@						
35	22900	37′6″	- · · · · · · · · · · · · · · · · · · ·	35′6″	10500@					
40	21300	15600	11700	15400	46′0″	7700@	13100			
50	18700	14100	11300	13500	10100	54′6″	11400	8500	6100@	
60	16600	13000	10600	12000	9300	7500	10200	7800	62'6"	
70	13700	12000	10000	10800	8500	7000	9100	7200	5900	
80	10000	10900	9500	9800	7900	6600	8300	6700	5500	
90	7300	8000	8600	8300	7400	6300	7500	6200	5200	
100	5200	5700	6300	6100	6900	6000	6700	5800	5000	
110	3500	4000	4400	45CO	5200	5800	5000	5400	4700	
120	2200	2500	2800	3100	3700	4200	3700	4400	4600	
130				2000	2500	2900	2500	3100	3700	
140								2100	2500	

# RATED LIFTING CAPACITIES (POUNDS) 28,350 LBS COUNTERWEIGHT

### 42 FT - 130 FT 4-SECTION BOOM ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in	Main boom len Fourth section	•	Fourth section extended				
feet	42	56	71 86		100	115	130
10	220000						
12	194800	123800					
15	164200	123800	123400	92400			
20	127000	113500	104000	78000	68200		
25	97500	95600	85600	66800	58600	54000	38600
30	77800	77600	72500	58200	51000	48000	38600
35		60200	57000	51400	45000	43000	38600
40		47900	47400	45600	40200	38500	35200
50			32500	32000	30900	31600	29000
60			23000	23000	22900	26200	24200
70				16800	16800	19900	20000
80					12400	14600	15500
90					9200	11300	11500
100						8800	8900
110							6900
120				 			5300

# 42 FT - 71 FT 4-SECTION BOOM ON-RUBBER CAPACITIES OVER REAR ONLY $16.00 \times 25$ TIRES AT 115PSI $20.5 \times 25$ TIRES AT 85PSI

Radius in feet	Up to 1 mph	Up to 3 mph
10	55700	30500
12	50300	26800
15	43300	22600
20	34700	17000
25	28200	12800
30	23200	9600
35	19400	7100
40	16100	5000
50	9700	
60	6600	

150

#### 130 FT MAIN BOOM WITH 33 FT FIXED-LENGTH EXTENSION ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in		33ft Extension	
feet	0° Offset	15° Offset	30° Offset
32	25800	16200@	
35	24600	37′6″	
40	22800	16000	12200
50	20000	14600	11800
60	17800	13500	11100
70	16000	12500	10500
80	14600	11700	10000
90	12400	10900	9600
100	9900	10300	9200
110	7900	8300	8700
120	6200	6500	6800
130	5000	5100	5300
140	3700	3900	4000

3700

4000

3300

### 130 FT MAIN BOOM WITH 33 FT - 58 FT TELE BOOM EXTENSION ON OUTRIGGERS FULLY EXTENDED - 360°

Radius	· <del></del>	33ft Length		48ft Length				58ff Length	-
in feet	0° Offset	15° Offset	30° Offset	0° Offset	15° Offset	30° Offset	0° Offset	15° Offset	30° Offset
32	24200	15800@		16500@					
35	22900	37′6″		35′6″	10500@	<u> </u>	<u>lain ja en tarakan</u>	<u> </u>	<u> </u>
40	21300	15600	11700	15400	46′0″	7700@	13100		
50	18700	14100	11300	13500	10100	54'6"	11400	8500	6100@
60	16600	13000	10600	12000	9300	7500	10200	7800	62′6″
70	15000	12000	10000	10800	8500	7000	9100	7200	5900
80	13600	11200	9500	9800	7900	6600	8300	6700	5500
90	11600	10400	9100	8900	7400	6300	7500	6200	5200
100	8900	9600	8700	8200	6900	6000	7000	5800	5000
110	7000	7500	7900	7600	6500	5800	6400	5400	4700
120	5300	5750	6000	6300	6100	5500	5900	5100	4600
130	4000	4300	4500	5000	5400	5400	5500	4800	4400
140	2800	3100	3200	3800	4200	4400	4300	4600	4200

2800

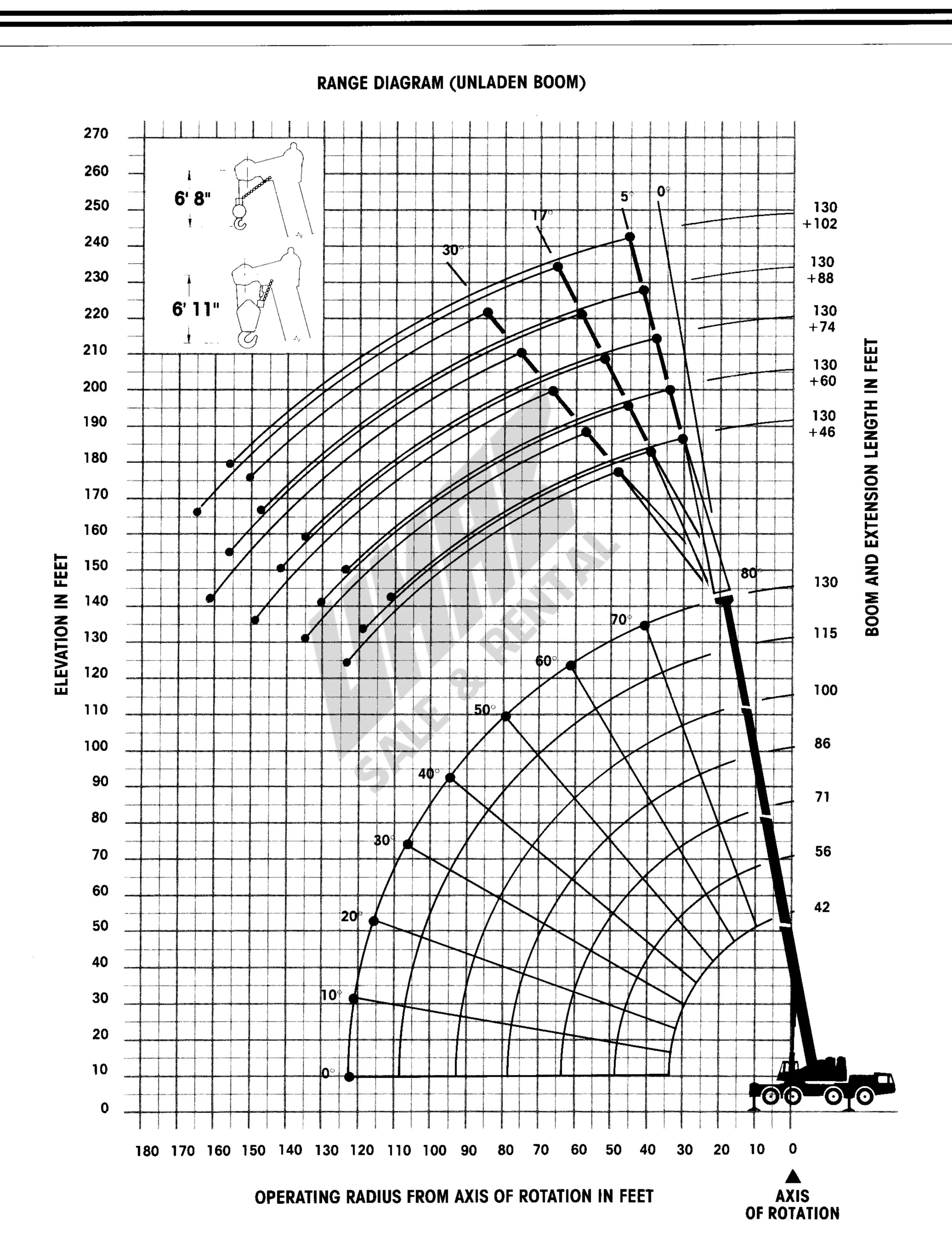
3200

3000



# AT1100

85% Domestic/102ft jib/Four-axle carrier



# RATED LIFTING CAPACITIES (POUNDS) 28,350 LBS COUNTERWEIGHT

#### 130 FT MAIN BOOM WITH 46 FT - 102 FT FIXED OFFSET JIB ON OUTRIGGERS FULLY EXTENDED - 360°

Laden Main Boom Angles		46ft Jib					60ft Jib						
	5° Offset		17° Offset		30° Offset		5° Offset		17° Offset		30° Offset		
	REF RAD	LOAD	REF RAD	LOAĐ	REFRAD	LOAD	REFRAD	LOAD	REFRAD	LOAD	REFRAD	LOAD	
80°	34'0"	16550	42'6"	12650	50'0"	8350	39'0"	12450	49'6"	8400	60′3″	5500	
77.5°	41'6"	16200	50'6"	12000	57′9″	8150	47′0″	11750	57′9″	8050	68′3″	5300	
75°	49'6"	15850	57′9″	11700	65'0"	7950	55′0″	11100	66'0"	7700	75′9″	5100	
72.5°	57′0″	15450	65′0″	11000	71′9″	7600	63'3"	10450	73′9″	7300	83'0"	4950	
70°	64'6"	14750	72′0″	10550	78′9″	7250	71′6″	9800	81'3"	6950	90'0"	4750	
67.5°	72'0"	13450	78′9″	9900	85'3"	6950	79′9″	9350	88'6"	6700	96′9″	4600	
65°	79'9"	12350	85'6"	9250	91'6"	6600	87'3"	8900	95'9"	6500	103′3″	4500	
62.5°	86'3"	11100	91′9″	8350	97'3"	6400	94'9"	8150	102'3"	6050	109'6"	4400	
60°	92'6"	10100	97'9"	8150	103'3"	6050	101'6"	7400	109'0"	5600	115'9"	4300	
55°	104'3"	8700	·····	7400	114'6"	5850	114'6"	6600	121′9″	5200	127′3″	4050	
50°	114'9"	7300	120'3"	6600	125'0"	5500	126'0"	5850	133'6"	4750	138'0"	3750	

#### 130 FT MAIN BOOM WITH 46 FT - 102 FT FIXED OFFSET JIB ON OUTRIGGERS FULLY EXTENDED - 360°

Laden Main Boom Angles		74ft Jib						881t Jib					
	5° Offset		17° Offset		30° Offset		5° Offset		17° Offset		30° Offset		
	REFRAD	LOAD	REFRAD	LOAD	REFRAD	LOAD	REFRAD	LOAD	REFRAD	LOAD	REFRAD	LOAD	
80°	50'0"	9000	55′9″	5950	68′9″	3750	46'0"	6900	63'0"	4500	78'9"	2650	
77.5°	51′9″	8500	64′6″	5700	77′0″	3650	55'6"	6600	72′6″	4400	87′6″	2650	
75°	60′9″	8050	73′6″	5500	85′3″	3500	65′0″	6200	81′9″	4200	96'0"	2500	
72.5°	69'6"	7500	81′9″	5200	93′0″	3400	74′0″	5750	90′3″	3950	104′3″	2400	
70°	78'0"	7050	89'6"	4950	100′3″	3200	83'3"	5300	98'9"	3650	112′3″	2200	
67.5°	86'3"	6750	97'6"	4750	107′6″	3150	92'6"	5050	107′0″	3500	119′9″	2150	
65°	94'6"	6400	105'0"	4600	114'6"	3100	101'0"	4850	115'0"	3300	127′0″	2100	
62.5°	102′3″	5950	113′9″	4400	121'0"	2950	109'6"	4400	122′9″	3200	133′9″	2000	
60°	110'0"	5400	119'0"	4300	127′6″	2850	117′9″	4300	130′3″	3100	140'3"	1900	
55°	124'0"	4850	132'3"	3850	139′9″	2750	133′6″	3950	144'6"	2850	153'3"	1850	
50°	137'6"	4500	144'6"	3550	151'0"	2650	148'0"	3650	158′0″	2650	164′6″	1750	

## 130 FT MAIN BOOM WITH 46 FT - 102 FT FIXED OFFSET JIB ON OUTRIGGERS FULLY EXTENDED - 360°

Laden		102ft Jib								
Main Boom	5° 01	fset	17° 0	ffset	30° Offset					
Angles	REFRAD	LOAD	REFRAD	LOAD	REF RAD	LOAD				
80°	47'6"	4650	67'3"	2350	87′0″	1850				
77.5°	58'3"	4500	77′6″	2300	96'6"	1750				
75°	68′9″	4400	87'3"	2200	105'6"	1650				
72.5°	79'0"	4200	96′6″	2150	114'0"	1600				
70°	89′0″	4050	105'6"	2100	122'9"	1500				
67.5°	98'9"	3950	114'6"	2000	130'6"	1400				
65°	108′0″	3650	123'0"	1900	138'0"	1350				
62.5°	117′0″	3350	131′3″	1800	145′6″	1300				
60°	126'0"	3300	139'3"	1750	152'6"	1200				
55°	142'3"	3000	154′6″	1650						
50°	158'0"	2750	167′3″	1550						

### WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

Hookblocks	
110 Tons, 6 sheave	3527 lbs
55 Tons, 3 sheave	1808 lbs
30 Tons, 2 sheave	1036 lbs
15 Tons, 1 sheave	838 lbs
10 Tons, Headache Ball	243 lbs
33ft Non-Telescopic Swingaway	
Stowed	772 lbs
Erected	4630 lbs
33ft – 58ft Telescopic Swingaway	
Stowed	1543 lbs
Erected (retracted)(33ft)	6504 lbs
Erected (extended)(58ft)	8377 lbs
Auxiliary boom nose	247 lbs

## NOTES FOR LIFTING CAPACITIES

WARNING: THIS CHART IS ONLY A GUIDE. The Notes below are for illustration only and should not be relied upon to operate the crane. The individual crane's load chart, operating instructions and other instruction plates must be read and understood prior to operating the crane.

- 1. All rated loads have been tested to and meet minimum requirements of SAE J1063 OCT80 Cantilevered Boom Crane Structures Method of Test, and do not exceed 85% of the tipping load on outriggers (75% on rubber) as determined by SAE J765 OCT80 Crane Stability Test Code.
- 2. Capacities given do not include the weight of hookblocks, slings, auxiliary lifting equipment and load handling devices. Their weights MUST be added to the load to be lifted. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load.
- 3. Capacities appearing above the bold line are based on structural strength, and tipping should not be relied upon as a capacity limitation.
- 4. All capacities are for crane on firm level surface. It may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.
- 5. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
- 6. For outrigger operation, ALL outriggers shall be fully extended with tires raised free of the ground before raising the boom or lifting loads.



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Constant improvement and engineering progress make it necessary that the company reserves the right to make specification, equipment and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment. Optional equipment is designated by (\*) in specifications folder.



- Capacity 100 tonnes (110 US tons)
- Maximum on-board tip height 60 metres (197 ft)
- 10 x 8 wheel drive with eight wheel steer
- Maximum speed 70 kph (43.5 mph)
   Optional \*telescopic Swingaway 10.00 14.60 17.70 metres (33 ft - 48 ft - 58 ft). Offsettable at 2°, 15° or 30°



### **Carrier specifications**

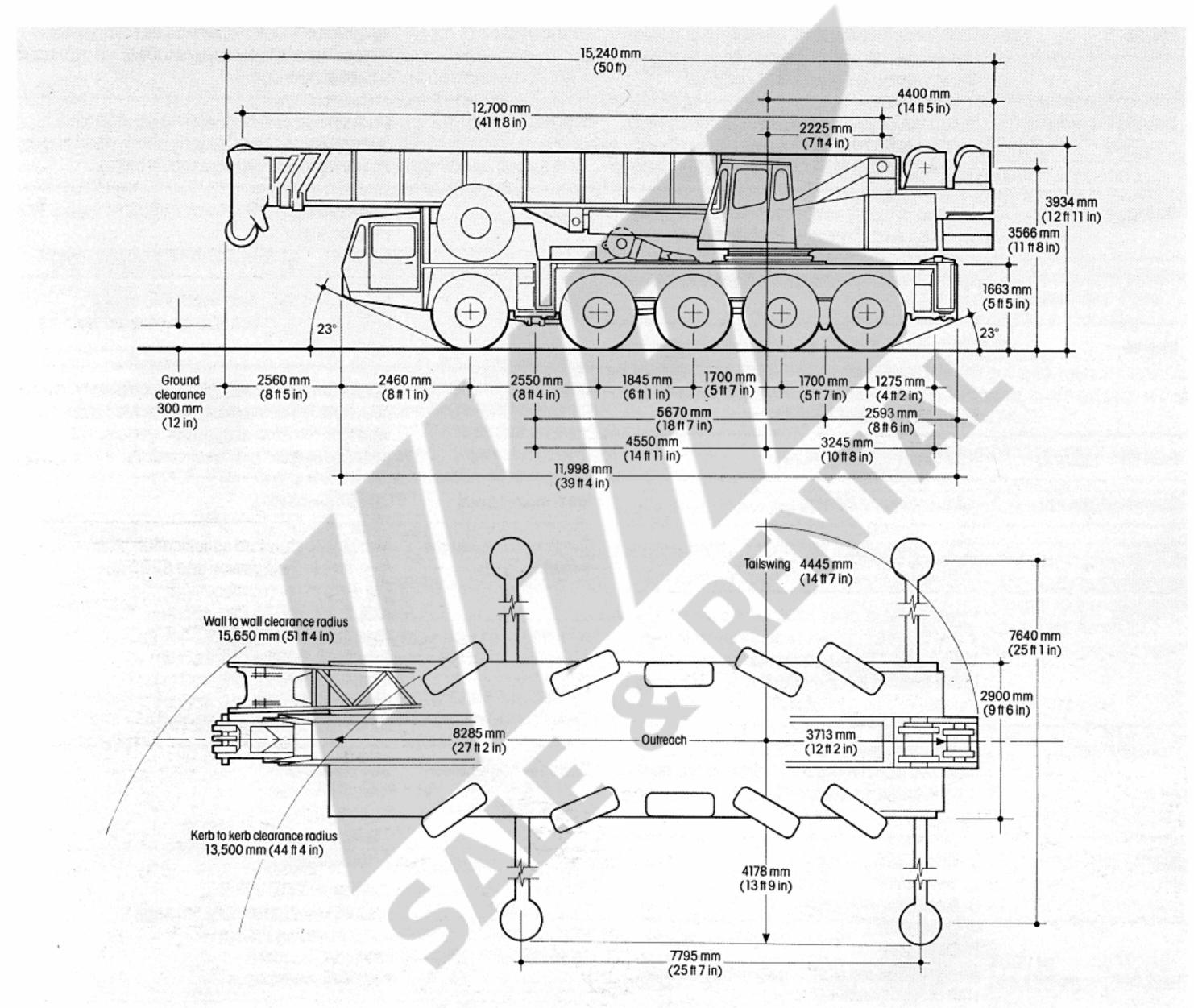
Frame	High-strength alloy steel, all-welded box section design with integral outrigger housings and incorporating towing/tie down bracket.	Suspension	Integral hydrogas suspension all round. Hydraulic lockout and automatic levelling system operated from cab.		
Outrigger system	Two stage, hydraulic telescopic beam and jack outriggers with integral holding valves. Quick-release outrigger floats 715 mm (28 in) diameter.	Brakes	Dual-line air system operating on all wheels. Spring-applied air-released park brake acting on three rear axles. Engine exhaust brake.		
Outrigger controls	Located in the superstructure cab and on both sides of the carrier frame. Push-button electric controls requiring two-handed operation for	Tyres	16.00 x 25 on-off highway radials all round. Tyre inflation kit.  Optional *20.50 x 25 on-off highway radials		
	safety. Crane level indicator adjacent to each set of controls.	Lights	Full lighting including head, tail, braking, reversing, fog, directional and hazard warning		
Engine	Deutz BF10L513, 10-cylinder, turbocharged air- cooled diesel with cold start aid. 16 litres, 294 kw (400 hp) at 2300 rpm. Maximum torque 1460 Nm (1076 lb ft) at 1500 rpm.	Cab	Aluminium with safety glass, acoustically treated two man, left-hand drive, windscreen wipers and washers, heater and demister, mirrors, full instrumentation and travel controls. Tachograph.		
Fuel tank capacity	432 litres (114 US gallons).				
Electrical system	24 v (including starting).	Maximum speed	70 kph (43 mph).		
Drive	10 x 4 on-highway, 10 x 8 off-highway, selected from cab.	Gross vehicle weight and axle loads	Machine to standard specification plus *telescopic Swingaway and 5200 kg		
Steering	Power assisted, semi-integral type on axles. 1, 2, 4 and 5. Steering linkage disconnects to give independent steering of rear axles, and axle 3 raises to allow for co-ordinated or crab steering modes.		(11,465 lb) of counterweight. Axle 1: 12,000 kg (26,455 lb) Axle 2: 12,000 kg (26,455 lb) Axle 3: 12,000 kg (26,455 lb) Axle 4: 12,000 kg (26,455 lb) Axle 5: 12,000 kg (26,455 lb)		
Transmission	Engine mounted torque converter and mid- mounted powershift gearbox with front wheel drive disconnect. Eight forward and four reverse speeds.	Optional *equipment	* Auxiliary hoist * Spotlights		
Axles	1: Drive-steer 2: Drive-steer 3: Non-drive, non-steer 4: Drive-steer 5: Drive-steer All drive axles are of planetary reduction type, with cross differential locks.		* Rotating beacon * Hookblocks  Carrier * Spare wheel assembly, stowage and handling system * Rotating beacons * Hookblock stowage		

<sup>\*</sup>Indicates optional equipment.

#### Superstructure specifications

			_					
Boom	12.70 to 39.52 m (42 ft to 130 ft) four-section,	Electric system	m	24 V (including st	arting).			
	operated switch allows synchronised two-section extension to 30.58 m (100 ft) with fly section retracted. Telescopic sections slide on adjustable and replaceable Nylatron pads. Telescopic cylinders with integral holding valves. Maximum tip height 42.5 m (139 ft).		HYDRAULIC SYSTEM Pumps		Four main gear pumps, combined capacity 518 litres/minute (153 US gallons/minute).  Maximum pressure 245 kg/cm² (3500 psi).			
				Precision, four-way, double-acting pilot- operated control valves with four individual valve banks, permitting simultaneous control of multiple crane functions.				
Non telescopic offsettable Swingaway extension	10.00 m (33 ft) lattice Swingaway extension, offsettable at 2°, 15°, or 30°. Stows alongside base boom section when not in use. Maximum tip height 52.5 m (172 ft).	Filters		Return line filter with 25 micron rated replaceable cartridge and filter service indicator. Three pressure line filters with 10 micron rated replaceable elements.				
Optional *telescopic offsettable Swingaway extension	10.00 to 14.60 m or 17.70 m (33 ft to 48 ft or 58 ft) Swingaway extension with a rectangular roller mounted section which extends/retracts from within the 10.00 m (33 ft) lattice extension.	Reservoir		baffles, particle m	864 litres (228 US gallons) capacity. Internal baffles, particle magnet, clean out access and exterior oil level gauge.			
	Offsettable 2°, 15° or 30°. Stows alongside base boom section when not in use. Maximum tip	Oil cooler		Thermostatically controlled, electric motor driven fan.				
Boom nose	height 60.00 m (197 ft).  Six sheaves, mounted on heavy duty tapered	HOIST SPECIFICATIONS		System pressure test panel with quick-release couplings.				
Optional *auxiliary boom nose	roller bearings. Removable pin-type rope guards.  Pin-mounted, removable auxiliary boom nose for single line lifting.			Variable displacement axial piston motor with two position control, driving through planetary gear reduction with integral spring-applied brake				
Boom elevation	Single hydraulic cylinder with integral holding valve provides elevation from $-3^{\circ}$ to $+80^{\circ}$ .				line pull and speed ranges. st-drum rotation indicator over tch.			
Load-moment indicator and anti-two	Standard load moment and anti-two block system with audio-visual warning and control		Main hois	st	*Auxiliary l	noist High Range		
block system	lever lockout to alert operator of impending two- block condition. Electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load and load indication is provided.	Maximum sin Bottom layer Intermediate		eed 100 m/min (328 fpm)	51 m/min (167 fpm) 57 m/min	120 m/min (394 fpm) 135 m/min		
Cab	Aluminium, acoustically treated, fully enclosed with safety glass, hinged skylight with electric wiper, windscreen wiper, horn, heater, air	layer Top layer	(216 fpm) 73 m/min (239 fpm	(367 fpm) 124 m/min	(187 fpm) 63 m/min (207 fpm)	(443 fpm) 149 m/min (489 fpm)		
	circulation fan, crane level indicator, lockable sliding door, instrumentation, pilot type crane controls and travel controls.	Maximum single line pu Bottom 12,000 k layer (26,460		g 4000 kg 7000 kg lb) (8820 lb) (15,435 lb)		, ,		
Swing	Ball-bearing swing circle with 360° continuous rotation. Planetary gearbox with Glideswing, spring-applied multi-disc foot brake and holding brake. Plunger-type house lock operated from the cab. Maximum speed 2.0 rpm.	Intermediate layer Top layer Maximum	10,700 kg (23,594 l 9640 kg (21,256 l	(b) (7872 lb) 3220 kg b) (7100 lb)	6250 kg (13,781 lb) 5700 kg (12,569 lb)	2900 kg (6395 lb) 2700 kg (5954 lb) 5500 kg		
Counterweight	5200 kg (11,465 lb) counterweight including	permissible line pull		9250 kg (20,400 lb)		(12,125 lb)		
	1100 kg (2,425 lb) in lieu of auxiliary hoist. Hydraulic removal system. *Optional 7200 kg (15,875 lb) additional counterweight to give a total of 12,400 kg (27,340 lb).	Maximum rop stowage		272 m x 25 mm (892 ft x 1 in)		259 m x 19 mm (850 ff x <sup>3</sup> / <sub>4</sub> in)		
Engine	Deutz BF6L913C six-cylinder turbocharged, air-	Standard rope supplied		250 m x 25 mm (820 ft x 1 in)		230 m x 19 mm (755 ff x ¾ in)		
	cooled diesel, 6.1 litres. 141 kw (192 hp) at 2500 rpm. Maximum torque 600 Nm (442 lb ft) at 1700 rpm. Fuel tank capacity 226 litres (60 US gallons)	*Indicates optional item.						

**Dimensions AT1100** 



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Constant improvement and engineering progress make it necessary that the company reserves the right to make specification, equipment and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment. Optional equipment is designated by (\*) in specifications folder.

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