

### **REQUEST FOR QUOTATIONS** SUPPLY & DELIVERY OF TADANO GR-1600 XL ROUGH TERRAIN CRANE

Guyana Shore Base Inc. hereby invites interested companies to submit quotations for the Supply &

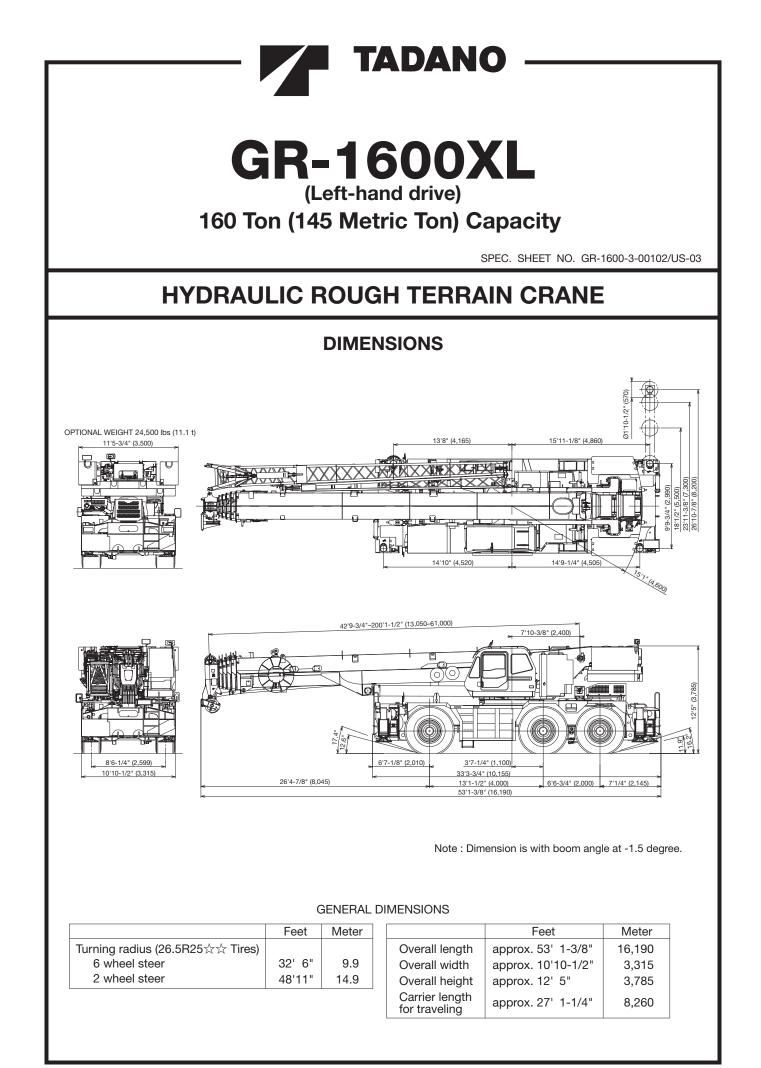
Delivery of Tadano GR-1600 XL Rough Terrain Crane.

### Instructions to Bidders

- 1. Quotations are to be submitted along with Valid Business Registration or equivalent, Valid GRA & NIS Compliance, Local Content Certificate.
- Quotation and documents must be submitted to the e-mail address below on or before 8<sup>th</sup> February 2024.

Email: tenders@gysbi.com

www.gysbi.com



Specifications are subject to change without notice.

### **CRANE SPECIFICATIONS**

### BOOM

6 sections boom of round box construction with 7 sheaves at boom head, extended by single telescoping cylinder.2 easily removable wire rope guards, rope dead end provided on both sides of boom head. Boom telescope sections are supported by wear pads both vertically and horizontally.

3.1 m)
61.0 m)
n 450 s
(0.400 m)
1 450 s

#### BOOM ELEVATION

By a double acting hydraulic cylinder with holding valve. Boom angle indicator.

#### JIB

2 stage bi-fold lattice type, offset angle (5–40°) by tilt cylinder. Single sheave at the head of both jib sections. Stowed alongside base boom section. Assistant cylinders for mounting and stowing, controlled at right side of superstructure. Self stowing jib mounting pins.

#### **INSERT JIB (OPTION)**

Insert lattice jib can be used for reaching higher place. Length ...... 23.0' (1 pce.), 45.9' (2 pcs.), (7.0 m, 14.0 m)

#### SHORT JIB (OPTION)

2 sheaves, heavy lifting jib can be used for lifting lifting heavy load in tight spaces.

Length	. 11.8' (3.6 m)	
Offset	. 20°, 40°	
Sheave root diameter	. 16-1/2" (0.419 m)	

#### **AUXILIARY LIFTING SHEAVE (SINGLE TOP)**

Single sheave, mounted to main boom head for single line work (stowable).

Root diameter..... 17-5/16" (0.440 m)

### ANTI-TWO BLOCK DEVICE

Pendant type over-winding cut out device with audio-visual (FAILURE lamp/BUZZER) warning system.

### SLEWING

Hydraulic axial piston motor driven through planetary slewing speed reducer. Continuous 360° full circle slewing on ball bearing turn table at 1.3min<sup>-1</sup> {rpm}. Equipped with manually locked/released slewing brake. A 360° positive swing lock manually engaged in cab. Twin slewing system: Free slewing or lock slewing controlled by selector switch on front console.

Slewing speed ..... 1.3 min<sup>-1</sup> {rpm}

### COUNTERWEIGHT

### WINCH

MAIN WINCH

Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. Power load lowering and raising. Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of auxiliary winch. Equipped with cable follower and drum rotation indicator.

### MAIN DRUM

#### AUXILIARY WINCH

Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. Power load lowering and raising. Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of main winch. Equipped with cable follower and drum rotation indicator.

### AUXILIARY DRUM

 Root diameter x wide
 15" (0.382 m) x 29-1/4" (0.742 m)

 Wire rope diameter x length
 3/4" (19 mm) x 738' (225 m)

 Drum capacity
 1293' (394 m), 7 layers

 Maximum single line pull (1st layer)
 21,800 lbs (9,900 kg)

 Maximum permissible linepull wire strength
 15,900 lbs (7,200 kg)

#### WIRE ROPE

Non-rotating 3/4" (19 mm) 7x35 class. Breaking Strength 79,400 lbs (36,000 kg)

#### HOOK BLOCKS

110 ton (100 metric ton)	.7 sheaves with hook block and safety latch.
50 ton (45 metric ton, option)	.3 sheaves with hook block and safety latch.
7.9 ton (7.2 metric ton)	Weighted hook with swivel and safety latch.

#### HYDRAULIC SYSTEM PUMPS

2 variable piston pumps for crane functions. Tandem gear pump for steering, swing and optional equipment. Powered by carrier engine. Pump disconnect for crane is engaged/ disengaged by rotary switch from operator's cab.

### CONTROL VALVES

Multiple valves actuated by pilot pressure with integral pressure relief valves.

#### RESERVOIR

202 gallon (763 lit.) capacity. External sight level gauge.

### FILTRATION

BETA10=10 return filter, full flow with bypass protection, located inside of hydraulic reservoir. Accessible for easy replacement.

OIL COOLER Air cooled fan type.

#### **CAB AND CONTROLS**

Both crane and drive operations can be performed from one cab mounted on rotating superstructure.

15° tilt, Left side, 1 man type, steel construction with sliding door access and safety glass windows opening at side. Door window is powered control. Windshield glass window and roof glass window are shatter-resistant. Tilt-telescoping steering wheel. Adjustable control lever stands for swing, boom elevating, boom telescoping, auxiliary winch and main winch. Control lever stands can change neutral positions and tilt for easy access to cab. 3 way adjustable operator's seat with high back, headrest and armrest. Engine throttle knob. Foot operated controls: boom elevating boom telescoping, service brake and engine throttle. Hot water cab heater and air conditioning.

Dash-mounted engine start/stop, monitor lamps, cigarette lighter, drive selector switch, parking brake switch, steering mode select switch, power window switch, pump engaged/ disengaged switch, swing brake switch, telescoping/auxiliary winch select switch, outrigger controls, free swing / lock swing selector switch, eco mode switch, high speed winch (main/aux) switch and ashtray.

Instruments - Torque converter oil temperature, engine water temperature, air pressure, fuel, speedometer, tachometer, hour meter and odometer / tripmeter. Hydraulic oil pressure is monitored and displayed on the AML-C display panel.

### **CRANE SPECIFICATIONS**

Tadano electronic LOAD MOMENT INDICATOR system (AML-C) including:

- Control lever lockout function with audible and visual pre-warning
- Boom position indicator
- Outrigger state indicator
- Boom angle / boom length / jib offset angle / jib length / load radius / rated lifting capacities / actual loads read out
- Ratio of actual load moment to rated load moment indication
  Automatic speed reduction and slow stop function on boom
- elevation and slewingWorking condition register switch
- Load radius / boom angle / tip height / slewing range preset function
- External warning lamp
- Tare function
- Fuel consumption monitor
- Main winch / auxiliarly winch select
- Drum rotation indicator (audible and visible type) main and auxiliary winch

### **CARRIER SPECIFICATIONS**

### TYPE

Rear engine, left hand steering, driving axle 2-way selected type by manual switch, 6x2 1st drive, 6x4 1st and 3rd drive.

### FRAME

High tensile steel, all welded mono-box construction.

### ENGINE

NGINE	
Model	Cummins QSB6.7 EPA)Tier4 Final
Туре	Direct injection diesel
No. of cylinders	6
Combustion	4 cycle, turbo charged and after cooled
Bore x Stroke, in. (mm)	4.212 x 4.882 (107 x 124)
Displacement, cu. in (liters)	409 (6.700)
Air inlet heater	24 volt preheat
Air cleaner	Dry type, replaceable element
Oil filter	Full flow with replaceable element
Fuel filter	Full flow with replaceable element
Fuel tank, gal. (liters)	79.2 (300), right side of carrier
Cooling	Liquid pressurized, recirculating by-pass
Radiator	Fin and tube core, thermostat controlled
Fan, in. (mm)	Suction type, 9-blade, 28 (711) dia.
Starting	24 volt
Charging	24 volt system, negative ground
Battery	2-120 amp. Hour
Compressor, air, CFM (I /min)	
Output, Max. HP (kW)	Gross 270 (201) at 2,000 rpm
Torque, Max. ft-lb (N•m)	730 (990) at 1,500 rpm
Capacity, gal. (liters)	/
Cooling water	2.7 (10)
Lubrication	4.0 (15)
Fuel	79.2 (300)
DEF / AdBlue	10.0 (38)

#### TRANSMISSION

Electronically controlled full automatic transmission. Torque converter driving full powershift with driving axle selector. 5 forward and 2 reverse speeds, constant mesh.

2 speeds - high range - 2 wheel drive; 4 wheel drive 3 speeds - low range - 4 wheel drive

### **TRAVEL SPEED**

9.3 mph (15 km/h) with counterweight

2.5 mph (4 km/h) without counterweight

TADANO AML-C monitors outrigger extended length and automatically programs the corresponding "RATED LIFTING CAPACITIES" table.

Operator's right hand console includes transmission gear selector and sight level bubble. Upper console includes working light switch, roof washer and wiper switch emergency outrigger set up key switch, jib equipped/removed select switch, eco mode switch, high speed winch (main / aux) switch, Cab tilt switch. Slewing lock lever.

NOTE: Each crane motion speed is based on unladen conditions.

**GRADEABILITY (tan***θ***)** - 44% (with counterweight 64,600 lbs (29.3 t)), 52% (with counterweight 40,100 lbs (18.2 t)), 57%\* \* Machine should be operated within the limit of engine crankcase design (30°: Cummins QSB6.7 EPA)Tier4 Final)

#### AXLE

1st: Full floating type, steering and driving axle with planetary reduction and open differential.

2nd: Steering and not driving axle.

3rd: Full floating type, steering and driving axle with planetary reduction and open differential.

### STEERING

Hydraulic power steering controlled by steering wheel. Four steering modes available: 2 wheel front, 4 wheel rear, 6 wheel coordinated and 6 wheel crab.

### SUSPENSION

1st: Rigid mounted to frame. 2nd and 3rd: "Hydro-Pneumatic suspension cylinders" with levering adjustment and oscillation.

#### **BRAKE SYSTEMS**

Service: Air over hydraulic disc brakes on all 6 wheels. Parking/Emergency: Spring applied-air released brake acting on input shaft of 1st and 3rd axle. Auxiliary: Electro- pneumatic operated exhaust brake.

TIRES - 26.5R25☆☆ Air pressure: 94 psi(650 kPa)

### OUTRIGGERS

Max. Extension

Float size (Diameter) 1'10-1/2" (0.57 m)

Four hydraulic, beam and jack outriggers. Vertical jack cylinders equipped with integral holding valve. Each outrigger beam and jack is controlled independently from cab. Beams extend to 26'10-7/8" (8.2 m) center-line and retract to within 10' 10-1/2" (3.315 m) overall width with floats. Outrigger boxes are self-removable for ease of transportation. Outrigger jack floats are attached thus eliminating the need of manually attaching and detaching them. Controls and sight bubble located in superstructure cab. Four outrigger extension lengths are provided with corresponding "RATED LIFTING CAPACITIES" for crane duty in confined areas. Min. Extension 9'9-3/4"(2.99 m) center to center 18'1/2"(5.50 m) center to center Mid. Extension Mid. Extension 23'11-3/8"(7.30 m) center to center

26'10-7/8" (8.20 m) center to center

## STANDARD EQUIPMENT

- Six section extended boom by single telescoping cylinder 42.8'–200.1' (13.1 m–61.0 m) 33.8' (10.3 m) or 59.1' (18.0 m) bi-fold lattice jib, offset angle
- (5-40°) by tilt cylinder.
- Quick reeving type bi-fold jib
- Anti-Two block device (overwind cutout)
- Mirror for main and auxiliary winch
- Work lights
- Variable speed main winch with grooved drum, cable follower and 1050' of 3/4" (320 m of 19 mm) cable.
- Variable speed auxiliary winch with grooved drum, cable
- follower and 738' of 3/4" (225 m of 19 mm) cable.
- Drum rotation indicator (audible, visible and thumper type) main and auxiliary winch
- Auxiliary lifting sheave (single top) stowable
- 2-speed winch
- Tadano twin swing system and 360° positive swing lock
- Positive control
- Hydraulic oil cooler
- 15° tilt cab
- 3 way adjustable cloth seat with armrests, high back and seat belt
- Tilt-telescoping steering wheel
- Tinted safety glass and sun visor
- Front windshield wiper and washer
- Roof window wiper and washer
- Power window (cab door)
- Cigarette lighter and ashtray
- Cab floor mat
- Pump disconnect in operator's cab
- Air conditioner (hot water heater and cooler)
  Full instrumentation package
- Self centering finger control levers with pilot control
- Control pedals for boom elevating and boom telescoping
- Low oil pressure/high water temp. warning device (visual)
- 2nd and 3rd steer centering light
- Air cleaner dust indicator
- Tadano electronic load moment indicator system (AML-C)
- Tare function
- Boom angle indicator
- Outrigger extension length detector

### **OPTIONAL EQUIPMENT**

- Additional weight 24,500 lbs (11.1 t)
- Removable boom system
- Working lamp with remort controller
- Boom and jib mounted aircraft warning light
- Wind speed indicator
- Emergency steering system

### HOISTING PERFORMANCE

### LINE SPEEDS AND PULLS

	Main or auxiliary winch - 15" (0.382 m) drum										
1		Line s	Line pulls	Available <sup>2</sup>							
Layer	Lo	w.	Hi	gh	Lo	w					
	F.P.M	m/min	F.P.M	m/min	Lbs.	kgf					
1st	253 77		354	108	21,800	9,900					
2nd	276	84	384	117	19,900	9,010					
3rd	299	91	413	126	18,200	8,270					
4th	318	97	446	136	16,800	7,640					
5th	341 104		476	145	15,600	7,090					
6th	361	361 110		154	14,600	6,620					
7th <sup>3</sup>	384 117		535	163	13,700	6,210					

- Maximum permissible line pull wire strength. 15,900 lbs (7,200 kg) with 7 x 35 class rope.

- <sup>1</sup> Line speed based only on hook block, not loaded.
- <sup>2</sup> Developed by machinery with each layer of wire rope, but not based on rope strength or other limitations in machinery or equipment.
- Seventh layer of wire rope are not recommended for hoisting operations.

- Electronic crane monitoring system
- Rear view mirrors (right and left side)
- Fenders - Air dryer
- Complete highway light package
- Towing hooks-Front and rear
- Hook block tie down (front bumper)
- Weighted hook storage compartment
- Halogen head lamp
- Self-removable outrigger boxes
- Independently controlled outriggers
- Four outrigger extension positions
- Self-storing outrigger pads
- Electronic controlled automatic transmission driven by torque converter
- 6 x 4 x 6 drive/steer
- 1st axle: open differential
- 3rd axle: open differential
- Automatic rear axle oscillation lockout system
- 26.5R25☆☆ tires
- Disc brakes
  - Water separator with filter (high filtration)
  - Back-up alarm
- 24 volt electric system
- Tool storage compartment
- Tire inflation kit
- Cummins QS 6.7 turbo charged after cooled engine (270 HP) with exhaust brake
- Engine over-run alarm
- Lifting eyes
- Telematics(machine data logging and monitoring system) with HELLO-NET via internet (availability depends on countries)
- Fuel consumption monitor
- Eco mode system
- Self-removable counterweight
- 110 ton (100 metric ton) 7 sheaves with hook block and safety latch
- 7.9 ton (7.2 metric ton) Weighted hook with swivel and safety latch.
- Over-unwinding prevention
- Insert jib
- Short jib
- 50 ton (45 metric ton) 3 sheaves with hook block and safety latch

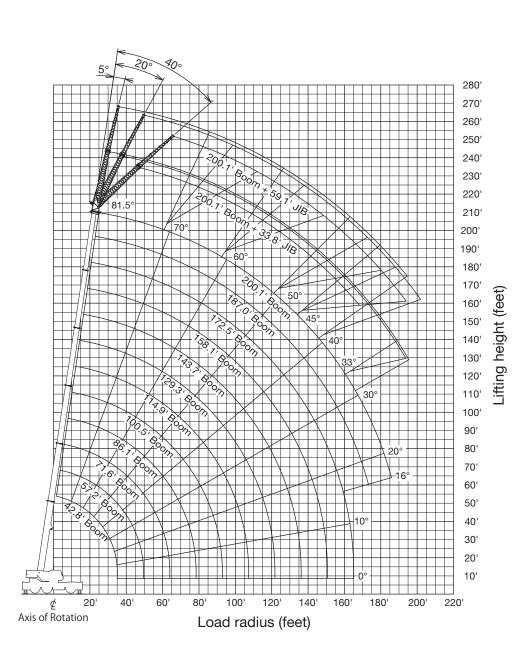
### **DRUM WIRE ROPE CAPACITIES**

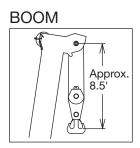
	Main and auxiliary drum grooved lagging									
Wire	3/4" (19 mm) wire rope									
rope	Rope p	er layer	Total w	ire rope						
layer	Feet	Meter	Feet	Meter						
1	147.0	44.8	147.0	44.8						
2	159.4	48.6	306.4	93.4						
3	172.2	52.5	478.7	145.9						
4	184.7	56.3	663.4	202.2						
5	197.2	60.1	860.6	262.3						
6	209.6	63.9	1070.2	326.2						
7	222.1	67.7	1292.3	393.9						

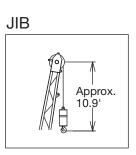
### **DRUM DIMENSIONS (Main and auxiliary)**

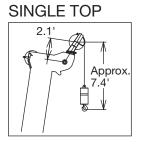
	Inch	mm
Root diameter	15	382
Length	29-1/4	742
Flange diameter	26-5/8	677

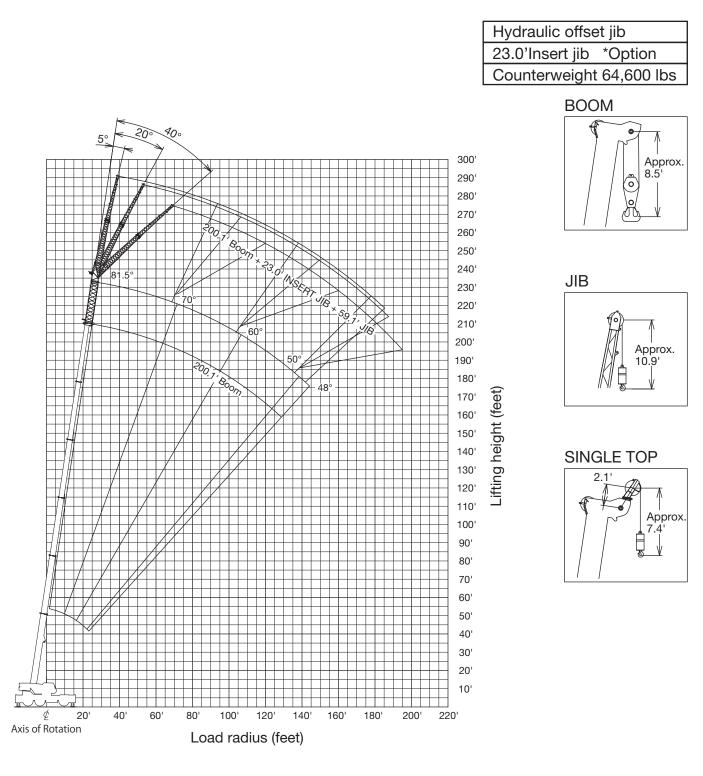
Hydraulic offset jib Counterweight 64,600 lbs

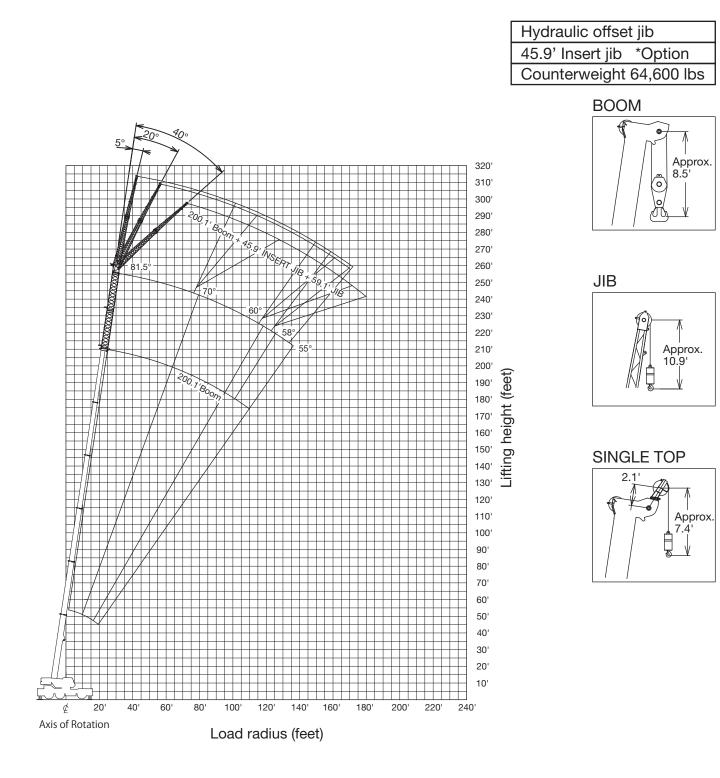




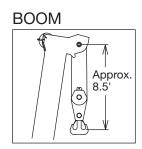


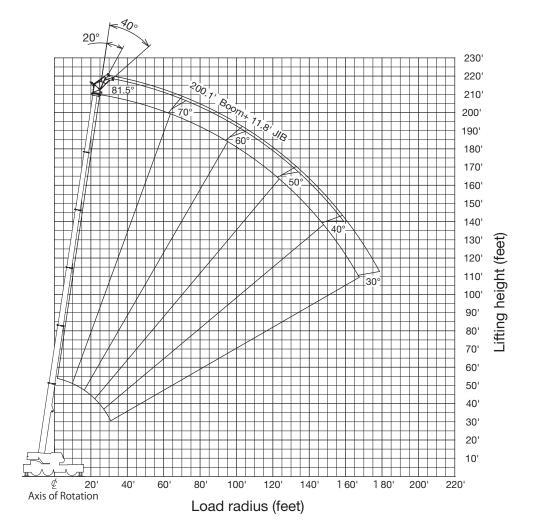


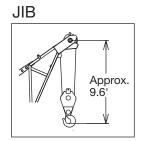




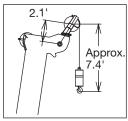
Short jib \*Option Counterweight 64,600 lbs











Boom

<u>B000111</u>												
	COUNTERWEIGHT 64,600 lbs (29.3 t)											
			ON O	UTRIGGEF					PREAD			
						50° ROTATI		,				
A	42.8'	57.2'	71.6'	86.1'	100.5'	114.9'	129.3'	143.7'	158.1'	172.5'	187.0'	200.1'
в	(13.1 m)	(17.4 m)	(21.8 m)	(26.2 m)	(30.6 m)	(35.0 m)	(39.4 m)	(43.8 m)	(48.2 m)	(52.6 m)	(57.0 m)	(61.0 m)
8'	*320,000	200,000	174,200									
10'	241,800	200,000	174,200	127,000								
12'	218,000	200,000	174,200	145,500								
15'	187,200	182,800	174,200	145,500	111,800							
20'	148,400	148,800	145,500	138,700	106,300	84,700	57,300					
25'	121,500	122,400	122,800	120,800	106,300	77,600	66,400	48,700				
30'	101,000	102,500	102,700	102,100	97,700	77,600	61,100	52,700	37,900			
35'	48,700	85,100	85,300	84,700	86,200	74,700	54,900	48,900	41,700	33,100		
45'		64,200	62,400	64,200	63,300	63,500	46,700	43,000	37,700	33,100	26,500	22,900
50'			54,700	56,200	55,600	57,100	43,900	39,200	35,500	32,000	26,500	22,900
60'			45,400	44,300	46,100	45,200	38,800	33,500	31,100	28,400	26,000	22,900
65'				41,000	41,400	40,300	36,600	31,100	28,900	26,900	24,700	22,700
75'				32,600	33,500	32,600	33,100	27,100	24,900	24,000	22,300	20,500
80'					30,200	29,500	30,400	25,400	23,600	22,500	21,200	19,600
90'					23,600	26,000	24,700	22,500	21,200	19,800	19,200	17,600
95'						23,800	22,500	21,400	20,100	18,700	18,100	16,500
105'						18,500	18,700	19,000	18,100	17,000	16,300	14,800
110'							17,200	17,900	16,800	16,300	15,700	14,100
120'							12,800	15,200	14,100	15,000	13,900	12,600
125'								14,100	13,400	13,700	12,800	11,900
130'								13,000	12,800	12,600	11,700	11,200
140'									11,500	10,800	9,700	9,700
145'									10,600	9,900	9,000	9,000
155'										8,400	7,500	7,500
160'										7,900	6,800	6,600
170'											5,500	5,500
175'											4,900	4,900
180'												4,400
185'												3,700

\*Over front with special Equipment

A: Boom length in feet B: Load radius in feet

NOTE: In this table, the thick line which divides strength area and stability area is not shown because the figure of this table is indicated the best performance at the same boom length among the plural telescopic boom patterns.

Jib

	COUNTERWEIGHT 64,600 lbs (29.3 t) ON OUTRIGGERS FULLY EXTENDED 26'10-7/8" (8.20 m) SPREAD													
							0° ROTATI		(0.20	, e				
	200.1' (6	51.0 m) Bo	om + 33.8	' (10.3 m)	Hydraulic	offset jib			187.0' (5	7.0 m) Bo	om + 33.8	5' (10.3 m)	Hydraulic	offset jib
С	5°	Tilt	20°	Tilt	40°	Tilt		С	5°	Tilt	20°	Tilt	40°	Tilt
	R	W	R	W	R	W			R	W	R	W	R	W
81.5	48.2'	12,100	57.1'	12,100	66.9'	11,200		81.5	42.3'	13,700	51.5'	13,700	61.4'	12,800
81	51.2'	12,100	61.0'	12,100	69.2'	11,000		81	44.9'	13,700	54.1'	13,700	63.3'	12,600
80	56.4'	12,100	65.3'	11,900	74.1'	10,800		80	49.9'	13,700	58.7'	13,400	67.6'	12,100
79	61.7'	12,100	69.6'	11,500	78.7'	10,400		79	54.8'	13,700	63.3'	13,000	71.9'	11,900
78	67.3'	12,100	74.1'	11,000	82.7'	10,100		78	59.7'	13,700	67.6'	12,600	75.5'	11,500
77	71.9'	11,900	80.1'	10,800	86.9'	9,900		77	64.3'	13,700	71.9'	12,300	79.7'	11,200
76	76.4'	11,500	83.0'	10,400	91.2'	9,700		76	68.2'	13,200	76.1'	11,900	83.3'	10,800
75	80.4'	11,000	87.6'	10,100	94.8'	9,300		75	72.5'	12,800	79.7'	11,500	87.3'	10,600
73	89.6'	10,600	96.1'	9,700	103.0'	8,800		73	80.7'	11,900	87.9'	10,800	94.8'	10,100
70	102.0'	9,500	108.0'	8,800	114.0'	8,400		70	92.5'	11,000	99.4'	10,100	105.0'	9,500
68	110.0'	9,000	116.0'	8,400	121.0'	7,900		68	100.0'	10,400	106.0'	9,500	112.0'	9,000
65	122.0'	8,400	127.0'	7,900	132.0'	7,500	1	65	111.0'	9,500	117.0'	8,800	122.0'	8,400
63	129.0'	7,900	134.0'	7,500	138.0'	7,300	1	63	118.0'	9,300	124.0'	8,600	128.0'	8,200
60	139.0'	7,300	144.0'	6,800	148.0'	6,600		60	128.0'	8,600	133.0'	8,200	137.0'	7,700
58	146.0'	6,800	151.0'	6,600	154.0'	6,400	1	58	135.0'	8,200	139.0'	7,700	143.0'	7,500
55	155.0'	6,200	159.0'	6,000	163.0'	6,000	1	55	144.0'	7,700	148.0'	7,300	151.0'	7,100
53	161.0'	6,000	165.0'	5,700	168.0'	5,500	1	53	150.0'	7,300	154.0'	7,100	156.0'	6,800
50	169.0'	5,300	173.0'	5,100	175.0'	4,900	1	50	158.0'	6,800	161.0'	6,400	164.0'	6,400
48	175.0'	4,900	178.0'	4,600	180.0'	4,600	1	48	163.0'	6,400	166.0'	6,200	168.0'	6,000
45	182.0'	4,400	185.0'	4,200	186.0'	4,200	1	45	170.0'	5,700	173.0'	5,500	174.0'	5,500
43	187.0'	4,000	190.0'	4,000				43	174.0'	5,300	177.0'	5,300		
40	193.0'	3,500	195.0'	3,300			1	40	180.0'	4,900	183.0'	4,600		
38	197.0'	3,100	199.0'	2,900			1	38	184.0'	4,400	186.0'	4,200		
35	202.0'	2,400	204.0'	2,400				35	190.0'	3,700	191.0'	3,500		
33	206.0'	2,200	207.0'	2,000				33	193.0'	3,500	194.0'	3,300		
30	210.0'	1,800						30	198.0'	2,900	198.0'	2,900		
28							1	28	200.0'	2,600	201.0'	2,600		
25								25	204.0'	2,400	203.0'	2,200		
23							1	23	206.0'	2,200				
20							1	20	208.0'	2,000				
G								G				1		

### COUNTERWEIGHT 64,600 lbs (29.3 t) ON OUTRIGGERS FULLY EXTENDED 26'10-7/8" (8.20 m) SPREAD 360° ROTATION

360										
	· · · ·	,		3' (10.3m)						
С	5°	Tilt	20°	Tilt	40° Tilt					
	R	W	R	W	R	W				
81.5	37.1'	15,900	46.9'	15,900	57.1'	15,000				
81	39.4'	15,900	49.2'	15,900	59.1'	14,800				
80	44.0'	15,900	53.5'	15,900	63.0'	14,300				
79	48.6'	15,900	57.7'	15,400	66.6'	13,900				
78	52.8'	15,900	61.7'	15,000	70.2'	13,400				
77	57.4'	15,900	65.3'	14,600	73.8'	13,000				
76	61.7'	15,900	69.2'	14,100	77.4'	12,800				
75	64.3'	15,200	73.2'	13,700	80.7'	12,300				
73	72.2'	14,300	80.1'	12,800	87.6'	11,900				
70	84.3'	13,000	90.6'	11,900	97.1'	11,000				
68	91.5'	12,300	97.8'	11,500	104.0'	10,600				
65	102.0'	11,500	107.0'	10,600	113.0'	9,900				
63	109.0'	11,000	114.0'	10,100	118.0'	9,700				
60	118.0'	10,100	123.0'	9,700	127.0'	9,300				
58	124.0'	9,700	129.0'	9,300	133.0'	8,800				
55	133.0'	9,000	137.0'	8,600	140.0'	8,400				
53	138.0'	8,600	142.0'	8,400	145.0'	7,900				
50	146.0'	8,200	149.0'	7,700	151.0'	7,500				
48	151.0'	7,700	154.0'	7,300	156.0'	7,100				
45	157.0'	7,100	160.0'	6,600	162.0'	6,600				
43	162.0'	6,600	164.0'	6,400						
40	168.0'	6,000	170.0'	5,700						
38	171.0'	5,500	173.0'	5,300						
35	176.0'	4,900	178.0'	4,600						
33	179.0'	4,400	181.0'	4,200						
30	183.0'	3,700	185.0'	3,700						
28	186.0'	3,500	187.0'	3,300						
G			-	1						

		35.0 m) Bo								
C	-	Tilt	20°	Tilt	40° Tilt					
	R	W	R	W	R	W				
81.5			29.2'	23,400	37.1'	16,100				
81			30.5'	23,100	38.4'	15,900				
80			33.1'	22,500	41.0'	15,700				
79			35.8'	22,000	43.3'	15,400				
78			39.0'	21,400	45.9'	15,200				
77			41.3'	20,900	48.6'	15,200				
76			43.6'	20,500	50.9'	15,000				
75	38.7'	28,200	46.3'	20,100	53.1'	14,800				
73	44.0'	26,900	51.2'	19,200	57.7'	14,300				
70	51.2'	24,900	58.7'	18,100	64.6'	13,900				
68	56.4'	23,800	63.3'	17,400	68.9'	13,700				
65	63.3'	22,300	70.2'	16,800	75.1'	13,400				
63	67.9'	21,200	74.8'	16,300	79.4'	13,200				
60	74.8'	19,800	81.4'	15,700	85.3'	13,000				
58	79.1'	19,200	85.3'	15,200	89.2'	12,800				
55	85.3'	18,100	91.5'	14,800	94.8'	12,600				
53	89.2'	17,400	95.1'	14,300	98.1'	12,600				
50	95.1'	16,800	101.0'	14,100	103.0'	12,600				
48	99.0'	16,300	104.0'	13,900	106.0'	12,300				
45	104.0'	15,700	109.0'	13,400	111.0'	12,300				
43	107.0'	15,400	112.0'	13,400						
40	112.0'	15,000	116.0'	13,200						
38	115.0'	14,600	119.0'	13,000						
35	120.0'	14,300	123.0'	13,000						
33	122.0'	14,100	125.0'	12,800						
30	126.0'	13,900	129.0'	12,800						
28	128.0'	13,200	131.0'	12,800						
			1	2						

C: Loaded boom angle (°)

R: Load radius in feet W: Rated lifting capacity in pounds G: Number of parts of line

Jib

	COUNTERWEIGHT 64,600 lbs (29.3 t) ON OUTRIGGERS FULLY EXTENDED 26'10-7/8" (8.20 m) SPREAD													
							0° ROTATI		( <u>)</u>					
	200.1' (6	61.0 m) Bo	om + 59.1	' (18.0 m)	Hydraulic	offset jib			187.0' (5	7.0 m) Bo	om + 59.1	' (18.0 m)	Hydraulic	offset jib
С	5°	Tilt	20°	Tilt	40° Tilt			С	5°	Tilt	20°	Tilt	40°	Tilt
	R	W	R	W	R	W			R	W	R	W	R	W
81.5	56.1'	8,200	72.2'	8,200	88.9'	7,100		81.5	47.9'	8,800	65.6'	8,800	81.0'	7,300
81	59.1'	8,200	74.5'	8,200	91.9'	7,100		81	49.2'	8,800	68.2'	8,800	83.7'	7,300
80	65.3'	8,200	81.0'	8,200	97.1'	6,800		80	56.4'	8,800	73.8'	8,800	88.6'	7,100
79	70.9'	8,200	86.3'	8,200	102.0'	6,800		79	61.7'	8,800	78.1'	8,600	92.8'	7,100
78	76.8'	8,200	91.5'	7,900	107.0'	6,600		78	66.6'	8,800	83.3'	8,400	97.4'	7,100
77	82.0'	8,200	96.1'	7,700	112.0'	6,600		77	71.9'	8,800	87.6'	8,200	102.0'	6,800
76	87.9'	8,200	101.0'	7,500	116.0'	6,600		76	77.1'	8,800	92.5'	7,900	106.0'	6,800
75	93.5'	8,200	106.0'	7,300	119.0'	6,400		75	82.0'	8,800	97.1'	7,900	110.0'	6,600
73	103.0'	7,700	115.0'	6,800	129.0'	6,200		73	92.2'	8,800	106.0'	7,700	118.0'	6,600
70	117.0'	7,100	128.0'	6,400	140.0'	5,700		70	106.0'	8,200	119.0'	7,300	129.0'	6,400
68	126.0'	6,800	135.0'	6,000	147.0'	5,500		68	114.0'	7,700	127.0'	7,100	137.0'	6,200
65	138.0'	6,200	149.0'	5,700	158.0'	5,300		65	126.0'	7,300	138.0'	6,600	147.0'	6,200
63	147.0'	6,000	156.0'	5,500	165.0'	5,100		63	135.0'	7,100	146.0'	6,400	154.0'	6,000
60	159.0'	5,500	167.0'	5,100	175.0'	4,900		60	146.0'	6,600	156.0'	6,000	163.0'	5,700
58	166.0'	5,100	174.0'	4,900	181.0'	4,600		58	153.0'	6,400	163.0'	5,700	169.0'	5,500
55	176.0'	4,600	183.0'	4,400	189.0'	4,200		55	163.0'	6,000	172.0'	5,500	177.0'	5,300
53	182.0'	4,200	189.0'	4,000	194.0'	3,700		53	169.0'	5,500	177.0'	5,100	182.0'	4,900
50	191.0'	3,700	197.0'	3,500	200.0'	3,300		50	177.0'	4,900	186.0'	4,600	189.0'	4,400
48	197.0'	3,300	201.0'	3,100	205.0'	3,100		48	183.0'	4,600	190.0'	4,200	193.0'	4,200
45	205.0'	2,900	209.0'	2,600	211.0'	2,400		45	191.0'	4,000	198.0'	3,700	199.0'	3,700
43	210.0'	2,600	213.0'	2,400				43	196.0'	3,700	202.0'	3,500		
40	216.0'	2,000	219.0'	1,800				40	202.0'	3,300	207.0'	2,900		
38								38	207.0'	2,900	211.0'	2,600		
35								35	212.0'	2,200	216.0'	2,000		
33								33	216.0'	2,000	219.0'	1,800		
30								30						
28								28						
25								25						
23								23						
20								20						
G			-	1				G			-	1		

### COUNTERWEIGHT 64,600 lbs (29.3 t) ON OUTRIGGERS FULLY EXTENDED 26'10-7/8" (8.20 m) SPREAD 360° ROTATION

C 81.5 81 80 79	5° R 44.9' 47.6' 52.8' 57.7' 63.0' 67.3' 72.2'	Tilt W 10,400 10,400 10,400 10,400 10,400 10,400	om + 59.1 20° R 61.7' 64.3' 69.2' 73.5' 78.1' 82.0'	W 9,700 9,500 9,300 9,000	Hydraulic 40° R 76.1' 78.4' 82.7' 86.6' 90.9'	
81.5 81 80	R 44.9' 52.8' 57.7' 63.0' 67.3' 72.2'	W 10,400 10,400 10,400 10,400 10,400	R 61.7' 64.3' 69.2' 73.5' 78.1'	W 9,700 9,500 9,300 9,000	R 76.1' 78.4' 82.7' 86.6'	W 7,500 7,500 7,500 7,300
81 80	44.9' 47.6' 52.8' 57.7' 63.0' 67.3' 72.2'	10,400 10,400 10,400 10,400 10,400 10,400	61.7' 64.3' 69.2' 73.5' 78.1'	9,700 9,700 9,500 9,300 9,000	76.1' 78.4' 82.7' 86.6'	7,500 7,500 7,500 7,300
81 80	47.6' 52.8' 57.7' 63.0' 67.3' 72.2'	10,400 10,400 10,400 10,400 10,400	64.3' 69.2' 73.5' 78.1'	9,700 9,500 9,300 9,000	78.4' 82.7' 86.6'	7,500 7,500 7,300
80	52.8' 57.7' 63.0' 67.3' 72.2'	10,400 10,400 10,400 10,400	69.2' 73.5' 78.1'	9,500 9,300 9,000	82.7' 86.6'	7,500 7,300
	57.7' 63.0' 67.3' 72.2'	10,400 10,400 10,400	73.5' 78.1'	9,300 9,000	86.6'	7,300
70	63.0' 67.3' 72.2'	10,400 10,400	78.1'	9,000		,
13	67.3' 72.2'	10,400			90.9'	7 300
78	72.2'	,	92.01			1,000
77		40.400	02.0	8,800	94.8'	7,300
76		10,400	86.3'	8,600	98.1'	7,100
75	76.8'	10,400	90.9'	8,600	102.0'	7,100
73	86.6'	10,100	98.8'	8,200	110.0'	6,800
70	98.0'	9,500	111.0'	7,700	120.0'	6,600
68	114.0'	9,300	118.0'	7,500	127.0'	6,600
65	119.0'	8,800	129.0'	7,300	136.0'	6,400
63	126.0'	8,400	135.0'	7,100	143.0'	6,400
60	136.0'	7,900	146.0'	6,800	152.0'	6,200
58	143.0'	7,500	153.0'	6,800	157.0'	6,200
55	153.0'	7,100	162.0'	6,600	165.0'	6,200
53	159.0'	6,600	167.0'	6,200	170.0'	6,000
50	167.0'	6,000	174.0'	5,500	176.0'	5,300
48	173.0'	5,500	179.0'	5,300	180.0'	5,100
45	180.0'	5,100	186.0'	4,900	186.0'	4,600
43	185.0'	4,900	190.0'	4,400		
40	191.0'	4,200	195.0'	3,700		
38	196.0'	3,700	199.0'	3,300		
35	201.0'	3,100	204.0'	2,900		
33	205.0'	2,900	207.0'	2,600		
30	210.0'	2,400	211.0'	2,200		
28	213.0'	2,200	213.0'	2,000		
G						

	114.9' (3	5.0 m) Bo	om + 59.1	' (18.0 m)	Hydraulic	offset jib		
С	5°	Tilt	20°	Tilt	40°	Tilt		
	R	W	R	W	R	W		
81.5	30.2'	14,100	44.6'	11,900	58.7'	8,200		
81	31.5'	14,100	45.9'	11,700	60.4'	8,200		
80	35.1'	14,100	49.2'	11,500	63.3'	7,900		
79	38.4'	14,100	52.5'	11,200	65.9'	7,900		
78	41.7'	14,100	55.4'	11,000	68.6'	7,900		
77	44.6'	14,100	58.4'	10,600	71.2'	7,700		
76	47.9'	14,100	61.0'	10,400	73.8'	7,700		
75	51.2'	14,100	64.0'	10,100	76.4'	7,700		
73	57.1'	13,200	70.2'	9,900	81.7'	7,500		
70	65.9'	12,300	74.8'	9,300	88.9'	7,300		
68	71.5'	11,700	83.7'	9,000	93.5'	7,100		
65	80.1'	11,000	91.5'	8,600	100.0'	7,100		
63	85.3'	10,600	96.5'	8,400	105.0'	7,100		
60	93.2'	10,100	104.0'	7,900	112.0'	6,800		
58	98.1'	9,700	109.0'	7,900	116.0'	6,800		
55	105.0'	9,300	115.0'	7,500	122.0'	6,800		
53	110.0'	9,000	120.0'	7,500	125.0'	6,600		
50	117.0'	8,600	126.0'	7,300	130.0'	6,600		
48	121.0'	8,400	130.0'	7,300	134.0'	6,600		
45	127.0'	8,200	135.0'	7,100	138.0'	6,600		
43	131.0'	7,900	138.0'	7,100				
40	136.0'	7,700	143.0'	6,800				
38	143.0'	7,500	146.0'	6,800				
35	145.0'	7,300	150.0'	6,800				
33	148.0'	7,300	153.0'	6,800				
30	152.0'	7,100	156.0'	6,800				
28	155.0'	7,100	158.0'	6,800				
G	1							

C: Loaded boom angle (°) R: Load radius in feet

W: Rated lifting capacity in pounds

G: Number of parts of line

Jib

	COUNTERWEIGHT 64,600 lbs (29.3 t) ON OUTRIGGERS FULLY EXTENDED 26'10-7/8'' (8.20 m) SPREAD													
			(	JN UUTR	IGGERS		° ROTATI		6.2011	I) SPREAL	)		Incort ii	ib: Option
	000 11/01 0		0 (7.0)	+ ::	10.0				107.01/57.0		0 (7.0)		· · · ·	· ·
l c		т) воот + 23 Tilt	. ,	ert jib + 59.1' ( ' Tilt	, , ,	Tilt		с		m) Boom + 23 Tilt	8.0' (7.0 m) Ins	Tilt	, , ,	Tilt
	R	W	R	W	R	W			R	W	R	W	R	W
81.5	63.4'	6.800	79.6'	6.400	95.4'	5.700		81.5	57.5'	7.500	73.1'	7.100	88.4'	6.000
81	66.7'	6,800	82.8'	6,400	98.4'	5,700		81	60.2'	7,500	76.2'	7,100	91.4'	6.000
80	73.3'	6.800	89.8'	6.400	105.0'	5,700		80	66.6'	7,500	82.4'	7,100	96.8'	6.000
79	79.9'	6,800	95.3'	6,200	110.0'	5,700		79	72.9'	7,500	88.3'	7,100	102.0'	6,000
78	86.4'	6,800	101.0'	6,000	115.0'	5,500		78	78.5'	7,500	94.3'	6,800	107.0'	5,700
77	92.1'	6,600	107.0'	6,000	120.0'	5,300		77	84.3'	7,500	99.1'	6,600	112.0'	5,700
76	97.9'	6,400	112.0'	5,700	125.0'	5,100	1	76	89.8'	7,300	104.0'	6,400	117.0'	5,700
75	103.0'	6,200	117.0'	5,500	130.0'	5,100	1	75	94.8'	7,100	109.0'	6,200	121.0'	5,500
73	113.0'	5,700	126.0'	5,100	138.0'	4,600	1	73	105.0'	6,600	118.0'	6,000	130.0'	5,300
70	129.0'	5,300	141.0'	4,600	151.0'	4,400	1	70	119.0'	6,200	132.0'	5,500	142.0'	5,100
68	138.0'	4,900	150.0'	4,400	159.0'	4,200	1	68	129.0'	6,000	140.0'	5,300	150.0'	4,900
65	152.0'	4,400	163.0'	4,200	171.0'	4,000	1	65	142.0'	5,500	153.0'	5,100	161.0'	4,600
63	162.0'	4,200	171.0'	4,000	178.0'	3,700		63	150.0'	5,100	161.0'	4,900	169.0'	4,600
60	174.0'	4,000	184.0'	3,700	189.0'	3,500		60	163.0'	4,900	173.0'	4,400	179.0'	4,200
58	182.0'	3,700	191.0'	3,500	196.0'	3,300		58	171.0'	4,600	180.0'	4,200	186.0'	4,200
55	193.0'	3,300	201.0'	3,100	205.0'	2,900		55	182.0'	4,400	190.0'	4,000	194.0'	4,000
53	200.0'	2,900	207.0'	2,600	210.0'	2,600		53	188.0'	4,000	197.0'	3,700	199.0'	3,500
50	209.0'	2,400	216.0'	2,200	218.0'	2,000		50	197.0'	3,300	204.0'	3,300	206.0'	3,100
48	215.0'	2,000						48	203.0'	3,100	209.0'	2,600	211.0'	2,600
45								45	210.0'	2,400	216.0'	2,200	217.0'	2,000
43								43	216.0'	2,200	221.0'	1,800		
40								40						
38								38						
35								35						
33								33						
30								30						
28								28						
25								25						
23								23						
G			-	1				G			-	1		

#### COUNTERWEIGHT 64,600 lbs (29.3 t) ON OUTRIGGERS FULLY EXTENDED 26'10-7/8'' (8.20 m) SPREAD 360° ROTATION

172.5' (52.6 m) Boom + 23.0' (7.0 m) Insert jib + 59.1' (18.0 m) Hydraulic offset jib 20° Tilt 5° Tilt 40° Tilt С R W R W R W 81.5 51.9 8.600 68.4 7,900 82.4 6,200 81 54.9' 8,600 70.9' 7,900 84.8' 6,200 80 60.5 8,600 76.8 7,900 89.9' 6,200 79 66.0' 8,600 81.5' 7,700 94.7' 6,200 71.5' 8,600 86.2 7,500 99.4 6,200 78 77 76.9' 8,600 91.2 7,300 104.0' 6,000 82.3' 95.8' 6,000 76 8,600 7.100 108.0 87.0 100.0' 6,800 112.0 75 8,400 5,700 73 96.5 7,900 109.0' 6,600 120.0' 5,500 70 110.0' 7,300 122.0' 6,200 132.0 5,300 68 119.0' 7,100 131.0' 6,000 139.0' 5,100 65 132.0' 6,600 143.0' 5,500 150.0' 4,900 63 139.0' 6,200 150.0' 5,300 157.0' 4,900 151.0' 161.0' 4,600 60 6,000 5,100 167.0 159.0' 5,700 168.0' 5,100 173.0' 4,600 58 5,300 4,400 169.0 178.0 4.900 55 182.0 53 175.0 4,900 184.0 4.600 187.0 4,400 4,400 4,000 50 184.0' 192.0' 4.000 194.0' 48 190.0' 4,000 197.0' 3,700 199.0' 3,500 45 198.0' 3,500 203.0' 3,100 205.0' 2,900 43 202.0' 3,100 207.0' 2,600 40 209.0' 2,400 213.0' 2,000 38 213.0' 2,000 217.0' 1,800 35 33 30 28 25 23 G

	114.9' (35.0	m) Boom + 23	.0' (7.0 m) Inse	ert jib + 59.1' (	18.0 m) Hydrau	ulic offset jib			
С	5°	Tilt	20°	Tilt	40°	Tilt			
	R	W	R	W	R	W			
81.5	33.2'	11,900	48.4'	9,900	63.5'	7,300			
81	35.3'	11,900	50.3'	9,900	65.4'	7,300			
80	39.3'	11,900	54.2'	9,900	69.0'	7,300			
79	42.9'	11,900	57.6'	9,700	72.0'	7,100			
78	46.8'	11,900	61.0'	9,300	75.1'	7,100			
77	50.4'	11,900	64.4'	9,000	78.2'	6,800			
76	53.9'	11,700	67.7'	8,800	81.2'	6,600			
75	57.3'	11,200	71.0'	8,400	84.2'	6,600			
73	64.3'	10,600	77.6'	7,900	90.0'	6,200			
70	74.1'	9,500	86.8'	7,300	98.5'	6,000			
68	80.4'	8,800	93.1'	7,100	104.0'	5,700			
65	89.9'	8,200	102.0'	6,600	112.0'	5,500			
63	95.9'	7,700	108.0'	6,200	117.0'	5,300			
60	105.0'	7,100	116.0'	6,000	124.0'	5,100			
58	110.0'	6,600	121.0'	5,700	129.0'	4,900			
55	119.0'	6,200	129.0'	5,300	136.0'	4,900			
53	124.0'	6,000	134.0'	5,300	140.0'	4,600			
50	132.0'	5,700	141.0'	5,100	146.0'	4,600			
48	137.0'	5,500	145.0'	4,900	149.0'	4,400			
45	144.0'	5,300	151.0'	4,600	154.0'	4,400			
43	148.0'	5,100	155.0'	4,600					
40	154.0'	4,900	161.0'	4,400					
38	158.0'	4,600	164.0'	4,400					
35	164.0'	4,600	169.0'	4,200					
33	167.0'	4,400	171.0'	4,200					
30	171.0'	4,400	175.0'	4,200					
28	174.0'	4,400	177.0' 180.0'	4,200					
25	178.0'	178.0' 4,200		4,200					
23	180.0'	4,200							
G									

Insert jib: Option

C: Loaded boom angle (°)

R: Load radius in feet

W: Rated lifting capacity in pounds

G: Number of parts of line

Jib

	COUNTERWEIGHT 64,600 lbs (29.3 t) ON OUTRIGGERS FULLY EXTENDED 26'10-7/8'' (8.20 m) SPREAD													
			· · · · ·	0000			° ROTATI		0.2011	, 01 112, 12			Insert j	ib: Option
	200.1' (61.0 r	m) Boom + 45.	.9' (14.0 m) Ins	ert jib + 59.1'	(18.0 m) Hydra	aulic offset jib			187.0' (57.0)	m) Boom + 45.	.9' (14.0 m) Ins	ert jib + 59.1'	(18.0 m) Hydra	ulic offset jib
С	5°	Tilt	20°	Tilt	40°	Tilt		С	5°	Tilt	20°	Tilt	40°	Tilt
	R	W	R	W	R	W			R	W	R	W	R	W
81.5	70.7'	4,600	86.6'	4,600	105.0'	4,600		81.5	65.2'	6,200	80.4'	5,300	97.2'	4,900
81	74.3'	4,600	90.2'	4,600	109.0'	4,600		81	68.7'	6,200	83.8'	5,300	100.0'	4,900
80	82.1'	4,600	97.7'	4,600	115.0'	4,400		80	75.0'	6,000	90.5'	5,300	107.0'	4,900
79	89.0'	4,600	104.0'	4,600	121.0'	4,400		79	81.7'	6,000	96.9'	5,300	112.0'	4,600
78	97.5'	4,600	111.0'	4,600	126.0'	4,200		78	87.7'	5,700	102.0'	5,100	117.0'	4,600
77	103.0'	4,600	117.0'	4,400	131.0'	4,000		77	93.7'	5,500	108.0'	4,900	122.0'	4,400
76	110.0'	4,600	123.0'	4,200	137.0'	4,000		76	99.2'	5,300	113.0'	4,900	127.0'	4,400
75	116.0'	4,400	128.0'	4,000	142.0'	3,700		75	106.0'	5,300	119.0'	4,600	132.0'	4,200
73	128.0'	4,200	139.0'	3,700	152.0'	3,500		73	116.0'	4,900	129.0'	4,400	141.0'	4,000
70	144.0'	3,700	154.0'	3,300	165.0'	3,100		70	132.0'	4,400	144.0'	4,000	155.0'	3,700
68	155.0'	3,300	165.0'	3,100	174.0'	2,900		68	143.0'	4,200	154.0'	3,700	164.0'	3,500
65	170.0'	3,100	180.0'	2,900	187.0'	2,600		65	157.0'	3,700	168.0'	3,500	177.0'	3,300
63	180.0'	2,900	188.0'	2,600	195.0'	2,400		63	166.0'	3,500	176.0'	3,300	184.0'	3,100
60	194.0'	2,600	201.0'	2,400	208.0'	2,400		60	180.0'	3,300	189.0'	3,100	196.0'	3,100
58	202.0'	2,200	209.0'	2,200	214.0'	2,000		58	188.0'	3,100	196.0'	2,900	203.0'	2,900
55	213.0'	1,800						55	199.0'	2,600	207.0'	2,600	212.0'	2,400
53								53	207.0'	2,400	213.0'	2,200	217.0'	2,200
50								50	216.0'	1,800	223.0'	1,800	226.0'	1,800
48								48						
45								45						
43								43						
40								40						
38								38						
35								35						
33								33						
30								30						
28								28						
25								25						
23								23						
G				1				G			1			

#### COUNTERWEIGHT 64,600 lbs (29.3 t) ON OUTRIGGERS FULLY EXTENDED 26'10-7/8'' (8.20 m) SPREAD 360° ROTATION

Т

114.9' (35.0 m) Boom + 45.9' (14.0 m) Insert jib + 59.1' (18.0 m) Hydr

Insert jib: Option aulic offe

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$							300	
R         W         R         W         R         W           81.5         59.0'         7,100         73.5'         6,000         90.1'         5,300           81         62.3'         7,100         76.7'         6,000         92.7'         5,300           80         68.3'         6,800         83.1'         6,000         98.8'         5,300           79         74.1'         6,600         88.2'         5,700         103.0'         5,100           78         79.4'         6,400         93.3'         5,500         113.0'         4,900           76         91.0'         6,200         104.0'         5,300         118.0'         4,600           73         107.0'         5,500         113.0'         4,900         132.0'         4,400           70         122.0'         5,100         132.0'         4,400         144.0'         4,000           68         132.0'         4,400         155.0'         4,000         165.0'         3,700           60         167.0'         4,000         175.0'         3,500         183.0'         3,300           63         154.0'         4,200         163.0'         3,700								
81.5         59.0'         7,100         73.5'         6,000         90.1'         5,300           81         62.3'         7,100         76.7'         6,000         92.7'         5,300           80         68.3'         6,800         83.1'         6,000         98.8'         5,300           79         74.1'         6,600         88.2'         5,700         103.0'         5,100           78         79.4'         6,400         93.3'         5,500         109.0'         5,100           76         91.0'         6,200         104.0'         5,300         118.0'         4,600           75         96.3'         6,000         109.0'         5,100         122.0'         4,600           73         107.0'         5,500         119.0'         4,900         132.0'         4,400           70         122.0'         5,100         132.0'         4,400         144.0'         4,000           65         145.0'         4,400         155.0'         4,000         165.0'         3,700           63         154.0'         4,200         163.0'         3,500         183.0'         3,300           58         175.0'         3,700	C	L		-		-		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		R	W		W		W	
80         68.3'         6,800         83.1'         6,000         98.8'         5,300           79         74.1'         6,600         88.2'         5,700         103.0'         5,100           78         79.4'         6,400         93.3'         5,500         109.0'         5,100           77         85.8'         6,400         98.9'         5,500         113.0'         4,900           76         91.0'         6,200         104.0'         5,300         118.0'         4,600           73         107.0'         5,500         119.0'         4,900         132.0'         4,400           70         122.0'         5,100         132.0'         4,400         144.0'         4,000           68         132.0'         4,900         142.0'         4,200         165.0'         3,700           63         154.0'         4,200         163.0'         3,300         190.0'         3,100           58         175.0'         3,700         183.0'         3,300         190.0'         3,100           55         187.0'         3,500         194.0'         3,300         190.0'         3,100           55         187.0'         3,500 <td>81.5</td> <td>59.0'</td> <td>7,100</td> <td>73.5'</td> <td>6,000</td> <td>90.1'</td> <td>5,300</td>	81.5	59.0'	7,100	73.5'	6,000	90.1'	5,300	
79         74.1'         6,600         88.2'         5,700         103.0'         5,100           78         79.4'         6,400         93.3'         5,500         109.0'         5,100           77         85.8'         6,400         98.9'         5,500         113.0'         4,900           76         91.0'         6,200         104.0'         5,300         118.0'         4,600           75         96.3'         6,000         109.0'         5,100         122.0'         4,600           73         107.0'         5,500         119.0'         4,900         132.0'         4,400           70         122.0'         5,100         132.0'         4,400         144.0'         4,000           68         132.0'         4,900         142.0'         4,200         165.0'         3,700           63         154.0'         4,200         163.0'         3,700         172.0'         3,500           60         167.0'         4,000         175.0'         3,500         183.0'         3,300           58         175.0'         3,700         183.0'         3,300         200.0'         3,100           53         193.0'         3,100 </td <td>81</td> <td>62.3'</td> <td>7,100</td> <td>76.7'</td> <td>6,000</td> <td>92.7'</td> <td>5,300</td>	81	62.3'	7,100	76.7'	6,000	92.7'	5,300	
78         79.4'         6,400         93.3'         5,500         109.0'         5,100           77         85.8'         6,400         98.9'         5,500         113.0'         4,900           76         91.0'         6,200         104.0'         5,300         118.0'         4,600           75         96.3'         6,000         109.0'         5,100         122.0'         4,600           73         107.0'         5,500         119.0'         4,900         132.0'         4,400           70         122.0'         5,100         132.0'         4,400         144.0'         4,000           68         132.0'         4,400         155.0'         4,000         165.0'         3,700           63         154.0'         4,200         163.0'         3,700         172.0'         3,500           60         167.0'         4,000         175.0'         3,500         183.0'         3,300           55         187.0'         3,700         183.0'         3,300         190.0'         3,100           53         193.0'         3,100         201.0'         2,600         213.0'         2,400           50         202.0'         2,600	80	68.3'	6,800	83.1'	6,000	98.8'	5,300	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	79	74.1'	6,600	88.2'	5,700	103.0'	5,100	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	78	79.4'	6,400	93.3'	5,500	109.0'	5,100	
75         96.3'         6,000         109.0'         5,100         122.0'         4,600           73         107.0'         5,500         119.0'         4,900         132.0'         4,400           70         122.0'         5,100         132.0'         4,400         144.0'         4,000           68         132.0'         4,400         142.0'         4,200         153.0'         4,000           65         145.0'         4,400         155.0'         4,000         165.0'         3,700           63         154.0'         4,200         163.0'         3,700         172.0'         3,500           60         167.0'         4,000         175.0'         3,500         183.0'         3,300           58         175.0'         3,700         183.0'         3,300         200.0'         3,100           53         193.0'         3,100         201.0'         3,100         205.0'         2,900           50         202.0'         2,600         210.0'         2,600         213.0'         2,400           48         209.0'         2,400         215.0'         2,200         24.0'         2,000           43         223.0'         1	77	85.8'	6,400	98.9'	5,500	113.0'	4,900	
73         107.0'         5,500         119.0'         4,900         132.0'         4,400           70         122.0'         5,100         132.0'         4,400         144.0'         4,000           68         132.0'         4,900         142.0'         4,200         153.0'         4,000           65         145.0'         4,400         155.0'         4,000         165.0'         3,700           63         154.0'         4,200         163.0'         3,700         172.0'         3,500           60         167.0'         4,000         175.0'         3,500         183.0'         3,300           58         175.0'         3,700         183.0'         3,300         190.0'         3,100           55         187.0'         3,500         194.0'         3,300         200.0'         3,100           53         193.0'         3,100         201.0'         3,100         205.0'         2,900           50         202.0'         2,600         210.0'         2,600         213.0'         2,400           48         209.0'         2,400         215.0'         2,200         24.0'         2,000           43         223.0'	76	91.0'	6,200	104.0'	5,300	118.0'	4,600	
70         122.0'         5,100         132.0'         4,400         144.0'         4,000           68         132.0'         4,900         142.0'         4,200         153.0'         4,000           65         145.0'         4,400         155.0'         4,000         165.0'         3,700           63         154.0'         4,200         163.0'         3,700         172.0'         3,500           60         167.0'         4,000         175.0'         3,500         183.0'         3,300           58         175.0'         3,700         183.0'         3,300         190.0'         3,100           53         193.0'         3,100         201.0'         3,100         205.0'         2,900           50         202.0'         2,600         210.0'         2,600         213.0'         2,400           48         209.0'         2,400         215.0'         2,200         218.0'         2,200           43         223.0'         1,800         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4	75	96.3'	6,000	109.0'	5,100	122.0'	4,600	
68         132.0'         4,900         142.0'         4,200         153.0'         4,000           65         145.0'         4,400         155.0'         4,000         165.0'         3,700           63         154.0'         4,200         163.0'         3,700         172.0'         3,500           60         167.0'         4,000         175.0'         3,500         183.0'         3,300           58         175.0'         3,700         183.0'         3,300         190.0'         3,100           55         187.0'         3,500         194.0'         3,300         200.0'         3,100           53         193.0'         3,100         201.0'         3,100         205.0'         2,900           50         202.0'         2,600         213.0'         2,400         245.0'         2,200           45         217.0'         2,000         223.0'         2,000         225.0'         2,000           40	73	107.0'	5,500	119.0'	4,900	132.0'	4,400	
65         145.0'         4,400         155.0'         4,000         165.0'         3,700           63         154.0'         4,200         163.0'         3,700         172.0'         3,500           60         167.0'         4,000         175.0'         3,500         183.0'         3,300           58         175.0'         3,700         183.0'         3,300         190.0'         3,100           55         187.0'         3,500         194.0'         3,300         200.0'         3,100           53         193.0'         3,100         201.0'         3,100         205.0'         2,900           50         202.0'         2,600         211.0'         2,600         213.0'         2,400           48         209.0'         2,400         215.0'         2,200         218.0'         2,200           43         223.0'         1,800	70	122.0'	5,100	132.0'	4,400	144.0'	4,000	
63         154.0'         4,200         163.0'         3,700         172.0'         3,500           60         167.0'         4,000         175.0'         3,500         183.0'         3,300           58         175.0'         3,700         183.0'         3,300         190.0'         3,100           55         187.0'         3,500         194.0'         3,300         200.0'         3,100           53         193.0'         3,100         201.0'         3,100         205.0'         2,900           50         202.0'         2,600         210.0'         2,600         213.0'         2,400           48         209.0'         2,400         215.0'         2,200         218.0'         2,200           43         223.0'         1,800         40	68	132.0'	4,900	142.0'	4,200	153.0'	4,000	
60         167.0'         4,000         175.0'         3,500         183.0'         3,300           58         175.0'         3,700         183.0'         3,300         190.0'         3,100           55         187.0'         3,500         194.0'         3,300         200.0'         3,100           53         193.0'         3,100         201.0'         3,100         205.0'         2,900           50         202.0'         2,600         210.0'         2,600         213.0'         2,400           48         209.0'         2,400         215.0'         2,200         218.0'         2,200           43         223.0'         1,800	65	145.0'	4,400	155.0'	4,000	165.0'	3,700	
58         175.0'         3,700         183.0'         3,300         190.0'         3,100           55         187.0'         3,500         194.0'         3,300         200.0'         3,100           53         193.0'         3,100         201.0'         3,100         205.0'         2,900           50         202.0'         2,600         210.0'         2,600         213.0'         2,400           48         209.0'         2,400         215.0'         2,200         218.0'         2,200           45         217.0'         2,000         223.0'         2,000         225.0'         2,000           40	63	154.0'	4,200	163.0'	3,700	172.0'	3,500	
55         187.0'         3,500         194.0'         3,300         200.0'         3,100           53         193.0'         3,100         201.0'         3,100         205.0'         2,900           50         202.0'         2,600         210.0'         2,600         213.0'         2,400           48         209.0'         2,400         215.0'         2,200         218.0'         2,200           45         217.0'         2,000         223.0'         2,000         225.0'         2,000           40	60	167.0'	4,000	175.0'	3,500	183.0'	3,300	
53         193.0'         3,100         201.0'         3,100         205.0'         2,900           50         202.0'         2,600         210.0'         2,600         213.0'         2,400           48         209.0'         2,400         215.0'         2,200         218.0'         2,200           45         217.0'         2,000         223.0'         2,000         225.0'         2,000           43         223.0'         1,800	58	175.0'	3,700	183.0'	3,300	190.0'	3,100	
50         202.0'         2,600         210.0'         2,600         213.0'         2,400           48         209.0'         2,400         215.0'         2,200         218.0'         2,200           45         217.0'         2,000         223.0'         2,000         225.0'         2,000           43         223.0'         1,800	55	187.0'	3,500	194.0'	3,300	200.0'	3,100	
48         209.0'         2,400         215.0'         2,200         218.0'         2,200           45         217.0'         2,000         223.0'         2,000         225.0'         2,000           43         223.0'         1,800	53	193.0'	3,100	201.0'	3,100	205.0'	2,900	
45     217.0'     2,000     223.0'     2,000     225.0'     2,000       43     223.0'     1,800	50	202.0'	2,600	210.0'	2,600	213.0'	2,400	
43     223.0'     1,800       40	48	209.0'	2,400	215.0'	2,200	218.0'	2,200	
40	45	217.0'	2,000	223.0'	2,000	225.0'	2,000	
38	43	223.0'	1,800					
35	40							
33	38							
30	35							
28	33							
25 23	30							
23	28							
	25							
G 1	23							
	G				1			

			.9' (14.0 m) Ins	ulic offset jib			
С	5°	Tilt	20°	Tilt	40° Tilt		
	R	W	R	W	R	W	
81.5	39.4'	9,700	53.8'	7,900	69.6'	6,400	
81	42.0'	9,700	56.0'	7,900	71.7'	6,400	
80	46.1'	9,700	60.4'	7,900	75.4'	6,400	
79	50.4'	9,500	64.2'	7,700	79.2'	6,200	
78	54.4'	9,300	68.3'	7,500	82.7'	6,000	
77	58.3'	8,800	72.1'	7,300	85.7'	5,700	
76	62.5'	8,600	75.4'	6,800	89.1'	5,500	
75	66.0'	8,200	79.4'	6,600	92.8'	5,500	
73	74.0'	7,700	86.7'	6,400	99.0'	5,100	
70	84.9'	6,800	97.0'	5,700	109.0'	4,600	
68	92.3'	6,400	104.0'	5,300	115.0'	4,400	
65	103.0'	6,000	114.0'	4,900	124.0'	4,200	
63	109.0'	5,500	120.0'	4,600	129.0'	4,000	
60	119.0'	5,100	129.0'	4,200	138.0'	3,700	
58	126.0'	4,600	135.0'	4,000	143.0'	3,500	
55	135.0'	4,200	144.0'	3,700	151.0'	3,300	
53	141.0'	4,000	149.0'	3,500	155.0'	3,100	
50	149.0'	3,700	157.0'	3,300	162.0'	3,100	
48	155.0'	3,500	162.0'	3,100	166.0'	2,900	
45	162.0'	3,300	169.0'	2,900	172.0'	2,900	
43	167.0'	3,100	174.0'	2,900			
40	174.0'	3,100	180.0'	2,600			
38	178.0'	2,900	184.0'	2,600			
35	184.0'	2,600	189.0'	2,600			
33	188.0'	2,600	192.0'	2,400			
30	193.0'	2,400	196.0'	2,400			
28	196.0'	2,400	199.0'	2,400			
25	200.0'	2,400	202.0'	2,200			
23	202.0'	2,200					
G				1			

C: Loaded boom angle (°)

R: Load radius in feet

W: Rated lifting capacity in pounds

G: Number of parts of line

Jib

COUNTERWEIGHT 64,600 lbs (29.3 t) ON OUTRIGGERS FULLY EXTENDED 26'10-7/8'' (8.20 m) SPREAD           Short jib: Option           Short jib: 20'' Til: 40° Tilit           C         200.1' (61.0 m) Boom + 11.8' (3.6 m) Short jib         20'' Til: 40° Tilit         410° Tilit <t< th=""><th></th><th colspan="11"></th></t<>												
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$												
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		(	ON OUTR	IGGERS I				3'' (8.20 m	I) SPREAL			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					360	P ROTATI	ON			Short j	ib: Option	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				⊦ 11.8' (3.6 n	n) Short jib							
81.5 $46.3'$ $20,700$ $51.2'$ $20,300$ $81$ $48.6'$ $20,300$ $53.1'$ $20,100$ $80$ $52.8'$ $19,800$ $57.4'$ $19,400$ $79$ $57.1'$ $19,200$ $61.4'$ $18,700$ $78$ $60.7'$ $18,500$ $65.0'$ $18,100$ $77$ $64.6'$ $17,900$ $68.6'$ $17,400$ $76$ $68.6'$ $17,200$ $72.5'$ $17,000$ $75$ $72.2'$ $16,500$ $76.1'$ $16,300$ $75$ $72.2'$ $16,500$ $76.1'$ $16,300$ $70$ $89.9'$ $13,900$ $93.5'$ $13,700$ $76$ $68.6'$ $13,000$ $99.7'$ $12,800$ $70$ $89.9'$ $13,900$ $93.5'$ $13,700$ $66$ $112.0'$ $11,000$ $115.0'$ $10,800$ $66$ $122.0'$ $9,900$ $124.0'$ $9,900$ $55$ $136.0'$ $8,600$ $143.0'$ $7,700$ $55$ $128.0'$ $9,500$ $130.0'$ $9,300$ $55$ $126.0'$ $10,400$ $127.0'$ $11,200$ $119.0'$ $112.0'$ $119.0'$ $112.0'$ $119.0'$ $112.0'$ $8,200$ $143.0'$ $7,700$ $55$ $126.0'$ $10,400$ $127.0'$ $10,400$ $55$ $126.0'$ $10,400$ $132.0'$ $9,900$ $55$ $126.0'$ $10,400$ $132.0'$ $9,900$ $55$ $126.0'$ $10,400$ $132.0'$ $9,900$	C	20°	Tilt	40°	Tilt		С	20°	Tilt	40°	Tilt	
81 $48.6'$ $20,300$ $53.1'$ $20,100$ $80$ $52.8'$ $19,800$ $57.4'$ $19,400$ $79$ $57.1'$ $19,200$ $61.4'$ $18,700$ $78$ $60.7'$ $18,500$ $65.0'$ $18,100$ $77$ $64.6'$ $17,900$ $68.6'$ $17,400$ $76$ $68.6'$ $17,200$ $72.5'$ $17,000$ $75$ $72.2'$ $16,500$ $76.1'$ $16,300$ $73$ $79.7'$ $15,400$ $83.0'$ $15,200$ $70$ $89.9'$ $13,900$ $93.5'$ $13,700$ $76$ $68.8'$ $13,000$ $99.7'$ $12,800$ $70$ $89.9'$ $13,900$ $93.5'$ $13,700$ $70$ $89.9'$ $13,000$ $99.7'$ $12,800$ $66$ $17.2'$ $17,900$ $74.5'$ $17,400$ $76$ $68.8'$ $13,000$ $99.7'$ $12,800$ $66$ $17.2'$ $17,900$ $74.5'$ $17,400$ $70$ $82.0'$ $18,600$ $130.0'$ $9,900$ $63$ $104.0'$ $13,200$ $160.0'$ $13,000$ $66$ $97.8'$ $13,900$ $94.4'$ $13,700$ $68$ $88.3'$ $15,200$ $90.6'$ $15,000$ $55$ $136.0'$ $8,600$ $143.0'$ $7,700$ $55$ $126.0'$ $10,400$ $152.0'$ $10,400$ $55$ $126.0'$ $10,400$ $132.0'$ $9,900$ $55$ $126.0'$ $4,400$ $148.0'$ $6,800$		R	W	R	W			R	W	R	W	
80 $52.8'$ $19,800$ $57.4'$ $19,400$ $79$ $57.1'$ $19,200$ $61.4'$ $18,700$ $78$ $60.7'$ $18,500$ $65.0'$ $18,100$ $77$ $64.6'$ $17,900$ $68.6'$ $17,400$ $76$ $68.6'$ $17,200$ $72.5'$ $17,000$ $75$ $72.2'$ $16,500$ $76.1'$ $16,300$ $73$ $79.7'$ $15,400$ $83.0'$ $15,200$ $70$ $89.9'$ $13,900$ $93.5'$ $13,700$ $76$ $61.7'$ $19,800$ $64.3'$ $19,200$ $73$ $79.7'$ $15,400$ $83.0'$ $15,200$ $70$ $89.9'$ $13,900$ $93.5'$ $13,700$ $66$ $107.0'$ $11,700$ $110.0'$ $11,700$ $66$ $122.0'$ $9,900$ $124.0'$ $9,900$ $66$ $122.0'$ $9,900$ $138.0'$ $8,600$ $55$ $136.0'$ $8,600$ $138.0'$ $8,600$ $55$ $142.0'$ $8,200$ $143.0'$ $7,700$ $54$ $160.0'$ $5,100$ $164.0'$ $4,200$ $43$ $164.0'$ $4,400$ $164.0'$ $4,200$ $43$ $164.0'$ $4,400$ $164.0'$ $4,200$ $43$ $164.0'$ $4,200$ $33$ $181.0'$ $2,200$ $33$ $181.0'$ $2,200$ $33$ $161.0'$ $4,900$ $33$ $184.0'$ $2,200$ $33$ $166.0'$ $4,200$ $43$ $152.0'$ $6,000$ $35$ </td <td>81.5</td> <td>46.3'</td> <td>20,700</td> <td>51.2'</td> <td>20,300</td> <td></td> <td>81.5</td> <td>41.7'</td> <td>23,800</td> <td>44.6'</td> <td>23,100</td>	81.5	46.3'	20,700	51.2'	20,300		81.5	41.7'	23,800	44.6'	23,100	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	81	48.6'	20,300	53.1'	20,100		81	43.6'	23,600	46.6'	22,700	
78 $60.7'$ $18,500$ $65.0'$ $19,100$ $77$ $64.6'$ $17,900$ $68.6'$ $17,400$ $76$ $68.6'$ $17,200$ $72.5'$ $17,000$ $75$ $72.2'$ $16,500$ $76.1'$ $16,300$ $70$ $89.9'$ $13,900$ $93.5'$ $13,700$ $70$ $89.9'$ $13,900$ $93.5'$ $13,700$ $68$ $96.8'$ $13,000$ $99.7'$ $12,800$ $665$ $107.0'$ $11,700$ $115.0'$ $10,800$ $665$ $107.0'$ $11,700$ $115.0'$ $10,800$ $665$ $102.0'$ $9,900$ $124.0'$ $9,900$ $663$ $122.0'$ $9,900$ $124.0'$ $9,900$ $58$ $128.0'$ $9,500$ $130.0'$ $9,300$ $55$ $136.0'$ $8,600$ $138.0'$ $8,600$ $55$ $136.0'$ $8,600$ $138.0'$ $8,600$ $55$ $126.0'$ $10,400$ $127.0'$ $10,400$ $55$ $136.0'$ $8,600$ $148.0'$ $6,400$ $48$ $153.0'$ $6,000$ $144.0'$ $4,200$ $43$ $164.0'$ $4,400$ $164.0'$ $4,200$ $43$ $164.0'$ $4,400$ $164.0'$ $4,200$ $43$ $166.0'$ $1,800$ $43.0'$ $5,300$ $33$ $181.0'$ $2,200$ $26.00$ $122.0'$ $33$ $181.0'$ $2,200$ $28.0'$ $3,700$ $33$ $166.0'$ $1,800$ $2,200$ $2,200$ <t< td=""><td></td><td></td><td>19,800</td><td></td><td>19,400</td><td></td><td></td><td>-</td><td>22,700</td><td></td><td>22,000</td></t<>			19,800		19,400			-	22,700		22,000	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	79	57.1'	19,200	61.4'	18,700		79	50.9'	22,000		21,200	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	78	60.7'	18,500	65.0'	18,100		78	54.5'	21,200	57.7'	20,500	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	77	64.6'	17,900	68.6'	17,400		77	58.4'	20,500	61.0'	19,800	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	76	68.6'	17,200	72.5'	17,000		76	61.7'	19,800	64.3'	19,200	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	75	72.2'	16,500	76.1'	16,300		75	65.3'	19,200	67.9'	18,500	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	73	79.7'	15,400	83.0'	15,200		73	72.2'	17,900	74.5'	17,400	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	70	89.9'	13,900	93.5'	13,700		70	82.0'	16,300	84.3'	16,100	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	68	96.8'	13,000	99.7'	12,800		68	88.3'	15,200	90.6'	15,000	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	65	107.0'	11,700	110.0'	11,700		65	97.8'	13,900	99.4'	13,700	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	63	113.0'	11,000	115.0'	10,800		63	104.0'	13,200	106.0'	13,000	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	60	122.0'	9,900	124.0'	9,900		60	112.0'	11,900	114.0'	11,900	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	58	128.0'	9,500	130.0'	9,300		58	118.0'	11,200	119.0'	11,200	
50         149.0'         6,800         149.0'         6,400           48         153.0'         6,000         154.0'         5,700           45         160.0'         5,100         160.0'         4,900           43         164.0'         4,400         164.0'         4,200           40         170.0'         3,700         170.0'         3,500           38         173.0'         3,300         38         161.0'         4,900           35         178.0'         2,600         33         181.0'         2,200           30         186.0'         1,800         30         173.0'         3,300           28	55	136.0'	8,600	138.0'	8,600		55	126.0'	10,400	127.0'	10,400	
48         153.0'         6,000         154.0'         5,700           45         160.0'         5,100         160.0'         4,900           43         164.0'         4,400         164.0'         4,200           40         170.0'         3,700         170.0'         3,500           38         173.0'         3,300	53	142.0'	8,200	143.0'	7,700		53	131.0'	9,900	132.0'	9,900	
45       160.0'       5,100       160.0'       4,900         43       164.0'       4,400       164.0'       4,200         40       170.0'       3,700       170.0'       3,500         38       173.0'       3,300       40       158.0'       5,300       158.0'       5,100         35       178.0'       2,600       33       161.0'       4,900       35       166.0'       4,200         30       186.0'       1,800       33       169.0'       3,700       3         28       25       20       25       2,600       25       2,600       20         20       20       184.0'       2,200       20       20       20       20       20	50	149.0'	6,800	149.0'	6,400	1	50	138.0'	8,800	138.0'	8,600	
43       164.0'       4,400       164.0'       4,200         40       170.0'       3,700       170.0'       3,500         38       173.0'       3,300       40       158.0'       5,300       158.0'       5,100         35       178.0'       2,600       35       166.0'       4,200       35       166.0'       4,200         30       186.0'       1,800       33       169.0'       3,700       3300         28       25       28       25       2600       25       2,600       20         20       184.0'       2,200       20       20       184.0'       2,200       20	48	153.0'	6,000	154.0'	5,700		48	142.0'	7,900	142.0'	7,700	
40         170.0'         3,700         170.0'         3,500           38         173.0'         3,300         333         181.0'         2,600         335         166.0'         4,200         355         166.0'         4,200         333         181.0'         2,200         333         169.0'         3,700         3,300         30         173.0'         3,300         30         173.0'         3,300         333         169.0'         3,700         30         30         173.0'         3,300         30         173.0'         3,300         30         173.0'         3,300         30         173.0'         3,300         30         173.0'         3,300         30         173.0'         3,300         30         173.0'         3,300         30         173.0'         3,300         30         173.0'         3,100         28         176.0'         3,100         25         179.0'         2,600         20         184.0'         2,200         30         184.0'         2,200         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30	45	160.0'	5,100	160.0'	4,900	1	45	148.0'	6,800	148.0'	6,600	
38       173.0'       3,300       38       161.0'       4,900         35       178.0'       2,600       35       166.0'       4,200         33       181.0'       2,200       33       169.0'       3,700         30       186.0'       1,800       30       173.0'       3,300         28       28       28       28       176.0'       3,100         20       20       184.0'       2,200       20       184.0'       2,200	43	164.0'	4,400	164.0'	4,200		43	152.0'	6,200	152.0'	6,000	
35       178.0'       2,600       35       166.0'       4,200         33       181.0'       2,200       33       169.0'       3,700         30       186.0'       1,800       30       173.0'       3,300         28       28       28       176.0'       3,100         25       20       25       179.0'       2,600         20       184.0'       2,200       20       184.0'       2,200	40	170.0'	3,700	170.0'	3,500		40	158.0'	5,300	158.0'	5,100	
33       181.0'       2,200         30       186.0'       1,800         28       25       25         20       20       20	38	173.0'	3,300			1	38	161.0'	4,900			
30     186.0'     1,800       28	35	178.0'	2,600			1	35	166.0'	4,200			
28         28         176.0'         3,100           25         25         25         179.0'         2,600           20         20         184.0'         2,200         20	33	181.0'	2,200			1	33	169.0'	3,700			
25         25         179.0'         2,600           20         20         184.0'         2,200	30	186.0'	1,800				30	173.0'	3,300			
20 20 184.0' 2,200	28						28	176.0'	3,100			
	25						25	179.0'	2,600			
G 2 G 2	20							184.0'	2,200			
	G		2	2			G		2	2		

### COUNTERWEIGHT 64,600 lbs (29.3 t) ON OUTRIGGERS FULLY EXTENDED 26'10-7/8'' (8.20 m) SPREAD 360° ROTATION

				360				
	172.5' (52	.6 m) Boom -	+ 11.8' (3.6 n	n) Short jib				
С	20°	' Tilt	40°	' Tilt				
	R	W	R	W				
81.5	36.7'	28,900	39.7'	27,800				
81	38.7'	28,400	41.7'	27,300				
80	42.3'	27,300	45.3'	26,200				
79	45.6'	26,500	48.6'	25,400				
78	49.2'	25,600	51.8'	24,500				
77	52.5'	24,700	55.1'	23,800				
76	55.8'	23,600	58.4'	22,900				
75	59.1'	22,700	61.4'	22,000				
73	65.3'	21,200	67.6'	20,500				
70	74.5'	19,000	76.4'	18,500				
68	80.1'	17,600	81.4'	17,400				
65	88.6'	16,100	90.6'	15,900				
63	94.2'	15,200	95.8'	15,000				
60	102.0'	13,900	104.0'	13,900				
58	107.0'	13,200	109.0'	13,000				
55	115.0'	12,300	116.0'	12,100				
53	120.0'	11,700	120.0'	11,500				
50	126.0'	10,400	127.0'	10,100				
48	130.0'	9,500	131.0'	9,300				
45	136.0'	8,400	136.0'	7,900				
43	140.0'	7,500	140.0'	7,300				
40	145.0'	6,600	145.0'	6,400				
38	148.0'	6,000						
35	153.0'	5,300						
33	156.0'	4,900						
30	160.0'	4,200						
28	162.0'	4,000						
25	165.0'	3,500						
20	170.0'	3,100						
G		2						

C: Loaded boom angle (°)

R: Load radius in feet

W: Rated lifting capacity in pounds

G: Number of parts of line

			n + 11.8' (3.6 m) Short jib			
С	20°			Tilt		
	R	W	R	W		
81.5	21.3'	48,900	22.6'	39,700		
81	22.3'	48,500	23.6'	39,500		
80	24.6'	47,800	25.9'	39,000		
79	26.9'	47,000	28.2'	38,600		
78	29.2'	46,300	30.2'	38,400		
77	31.2'	45,600	32.5'	37,900		
76	33.5'	45,000	34.4'	37,700		
75	35.4'	44,300	36.7'	37,300		
73	39.7'	43,200	41.0'	36,800		
70	45.9'	41,700	46.9'	35,900		
68	50.2'	40,800	51.2'	35,700		
65	56.1'	39,700	57.1'	35,100		
63	60.0'	39,000	61.0'	34,800		
60	65.3'	37,300	66.3'	34,400		
58	68.9'	35,900	69.9'	34,200		
55	73.8'	33,500	75.1'	32,800		
53	77.1'	31,100	78.1'	30,400		
50	81.7'	27,800	82.3'	27,600		
48	84.6'	26,000	85.3'	25,800		
45	88.9'	23,800	89.2'	23,600		
43	91.5'	22,500	91.9'	22,300		
40	95.1'	20,700	95.8'	20,500		
38	97.8'	19,600				
35	101.0'	18,300				
33	103.0'	17,600				
30	106.0'	16,800				
28	108.0'	16,100				
25	110.0'	15,400				
20	114.0'	14,300				
G		4	1			

Short jib: Option

	WITHOUT COUNTERWEIGHT ON-RUBBER STATIONARY												
A			Over fror	nt and rear				360° Rotation					
	42	2.8'	57	7.2'	7	1.6'		4	2.8'	57	7.2'	71.6'	
в	С	(13.1 m)	С	(17.4 m)	С	(21.8 m)		С	(13.1 m)	С	(17.4 m)	С	(21.8 m)
8'	73	22,000	78	22,000	81	22,000		73	22,000	78	22,000	81	22,000
10'	70	22,000	76	22,000	79	22,000		70	22,000	76	22,000	79	22,000
12'	67	22,000	73	22,000	77	22,000		67	20,500	73	22,000	77	22,000
15'	63	22,000	70	22,000	75	22,000		63	13,700	70	17,400	75	19,400
20'	54	14,800	65	18,100	71	19,600		54	6,200	65	9,900	71	12,100
25'	45	9,000	59	12,300	66	14,100				59	4,900	66	7,100
30'	33	3,500	53	7,700	62	9,700						62	3,300
35'			45	4,000	57	6,000							
D		0	4	15		57			54	Ę	59		62
					Г	elescoping	conditions (%	%)					
2nd boom		0		0		0			0		0		0
3rd boom		0		0	0		0 0		0		0		0
4th boom		0		0	0				0		0		0
5th boom		0		0	0				0		0		0
Top boom		0	45 90				0	45		90			
E		4	4 4				4		4		4		

A: Boom length in feet

B: Load radius in feet

C: Loaded boom angle (°)

D: Minimum boom angle (°)

for indicated length (no load)

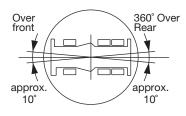
E: Number of parts of line

### WARNING AND OPERATING INSTRUCTIONS FOR ON RUBBER LIFTING CAPACITIES

- 1. Rated lifting capacities on-rubber do not exceed 75% of tipping loads as determined by SAE J765-Crane Stability Test Code.
- 2. On rubber lifting is only permitted without couterweight and stationary. Creep operation is prohibited. Rated lifting capacities shown in the chart are based on the condition that crane is set on firm level surfaces with suspension lock applied. Those above thick lines are based on tire capacity and those below, on crane stability. They are based on actual load radius increased by tire deformation and boom deflection.
- If the suspension lock cylinders contain air, the axle will not be locked completely and rated lifting capacities may not be obtainable. Bleed the cylinders according to the operation safety and maintenance manual.
- Rated lifting capacities are based on proper tire inflation, capacity and condition. Damaged tires are hazardous to safe operation of crane.
- 5. Tires shall be inflated to correct air pressure.

Tires	Air Pressure
26.5R25☆☆☆	94 psi (650 kPa)
26.5R25☆☆☆	

6. Over front operation shall be performed within 10 degrees in front of chassis.



- 7. On rubber lifting with "jib" is not permitted. Maximum permissible boom length is 71.6' (21.8 m).
- 8. When making lift on rubber stationary, set parking brake.
- 9. The mass of the hook (2,381 lbs (1,080 kg) for 110 ton (100 metric ton) capacity, 661 lbs (300 kg) for 7.9 ton (7.2 metric ton) capacity), slings and all similarly used load handling devices must be considered as part of the load and must be deducted from the lifting capacities.
- 10. For rated lifting capacity of single top, reduce the rated lifting capacities of relevant boom according to a weight reductions for auxiliary load handling equipment. Capacities of single top shall not exceed 15,900 lbs (7,200 kg) including main hook.
- 11. The lifting capacity data stowed in the LOAD MOMENT INDICATOR (AML-C) is based on the standard number of parts of line listed in the chart. Standard number of parts of line for on rubber operation should be according to the following table.

Boom length	Number of parts of line
42.8' (13.1) m to 71.6' (21.8 m)	4

### WARNING AND OPERATING INSTRUCTIONS FOR LIFTING CAPACITIES

### GENERAL

- RATED LIFTING CAPACITIES apply only to the machine as originally manufactured and normally equipped by TADANO LTD. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
- 2. Hydraulic cranes can be hazardous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with information in the Operation and Maintenance
- Manual supplied with the crane. If this manual is missing, order a replacement through the distributor.
   The operator and other personnel associated with this machine

shall fully acquaint themselves with the latest applicable ASME B30.5 safety standards for cranes as mentioned in OSHA CFR29 part 1926.

### SET UP

- Rated lifting capacities on the load chart are the maximum allowable crane capacities, are based on the machine standing level on firm supporting surface under ideal job conditions. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires to spread the loads to a larger surface.
- 2. For outrigger operation, outriggers shall be properly extended with tires free of supporting surface before operating crane.

### OPERATION

- Rated lifting capacities have been tested to and meet minimum requirements of SAE J1063-Cantilevered Boom Crane Structures Method of Test.
- Rated lifting capacities do not exceed 85% of the tipping load on outriggers fully extended as determined by SAE J765-Crane Stability Test Code.

Rated lifting capacities for partially extended outriggers are determined from the formula, Rated Lifting Capacities=(Tipping Load - 0.1 x Tip Reaction)/1.25.

- 3. Rated lifting capacities above thick lines in the chart are based on crane strength and those below, on its stability. They are based on actual load radius increased by boom deflection.
- The weight of handling device such as hook blocks, slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.
- 5. Rated lifting capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tires, operating speeds, side loads, etc. Side pull on the boom or jib is extremely dangerous.

Such action can damage the boom, jib or slewing mechanism, and lead to overturning the crane.

- 6. Rated lifting capacities do not account for wind on lifted load or boom. We recommend against working under the conditions that the load is out of control due to a strong wind.During boom lift, consider that the rated lifting capacity is reduced by 50% when the wind speed is 20 mph (9 m/s) to 27 mph(12 m/s); reduced by 70% when the wind speed is 27 mph (12 m/s) to 31 mph (14 m/s). If the wind speed is 31 mph (14 m/s) or over, stop operation. During jib lift, stop operation if the wind speed is 20 mph (9 m/s) or over.
- 7. Rated lifting capacities at load radius shall not be exceeded. Do not tip the crane to determine allowable loads.
- 8. Do not operate at boom lengths, radii, or boom angle, where no capacities are shown. Crane may overturn without any load on the hook.
- 9. When boom length is between values listed, refer to the rated lifting capacities of the next longer and next shorter booms for the same radius. The lesser of the two rated lifting capacities shall be used.

- 10. When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.
- 11. Load per line should not exceed 15,900 lbs. (7,200 kg) for main winch and auxiliary winch.
- 12. Check the actual number of parts of line with LOAD MOMENT INDICATOR (AML-C) before operation. Maximum lifting capacity is restricted by the number of parts of line of LOAD MOMENT INDICATOR (AML-C). Limited capacity is as determined from the formula, Single line pull for main winch 15,900 lbs. (7,200 kg) x number of parts of line.
- The boom angle before loading should be greater to account for deflection. For rated lifting capacities, the loaded boom angle and the load radius is for reference only.
- 14. Do not operate extension or retraction of the boom with loads.
- 15. For lifting capacity of single top, deduct the weight of the load handling equipment from the rated lifting capacity of the boom. For the lifting capacity of single top, the net capacity shall not exceed 15,900 lbs (7,200 kg) including main boom hook mass attached to the boom.
- 16. When the base jib or top jib or both jibs are removed, set the jib state switch to the REMOVED position.
- 17. When erecting and stowing jib, be sure to retain it by hand or by other means to prevent its free movement.
- Use "ANTI-TWO-BLOCK DEVICE" disable switch when erecting and stowing jib and when stowing hook block. While the switch is pushed, the winch does not stop, even when overwind condition occurs.
- For selected boom length or less with jib, rated lifting capacities are determined by loaded boom angle only in the column headed "selected boom + jib".
- 20. The boom extending operation and lowering operation are prohibited during lifting a load with multiple line lift. When lifting a load by using jib (aux.winch) and boom (main winch) simultaneously, do the following:
  - Enter the operation status as jib operation, not as boom operation.
  - Before starting operation, make sure that the mass of a load is within the rated lifting capacity for the jib. (The AML display indicates inaccurate working radius and actual load values during multiple line lift.)

When lifting a load by using single top (aux.winch) and boom (main winch) simultaneously, do the following:

- Enter the operation status as single top operation, not as boom operation.
- Before starting operation, make sure that the mass of a load is within the rated lifting capacity for the single top.
   (The AML display indicates inaccurate working radius and actual load values during multiple line lift.)
- 21. Outriggers shall be extended 26' 10-7/8" (8.2 m) spread when installing or removing removable counterweight.

### DEFINITIONS

- 1. Load Radius: Horizontal distance from a projection of the axis of rotation to supporting surface before loading to the center of the vertical winch line or tackle with load applied.
- 2. Loaded Boom Angle: The angle between the boom base section and the horizontal, after lifting the rated lifting capacity at the load radius.
- 3. Working Area: Area measured in a circular arc about the centerline of rotation.
- 4. Freely Suspended Load: Load hanging free with no direct external force applied except by the winch line.
- 5. Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.

### WARNING AND OPERATING INSTRUCTIONS FOR USING THE LOAD MOMENT INDICATOR (AML-C)

- 1. Set AML select keys in accordance with the actually operating crane conditions and don't fail to make sure, before crane operation, that the displays on front panel are correct.
- 2. When operating crane on outriggers:
  - Set P.T.O. switch to "ON".
  - Press the outrigger state select key to register for the outrigger operation. If the display agrees with the actual state, press the set key to register. After the completion of the registration, the pop-up window closes.
  - Press the lift state select key to register the lift state to be used (single top / jib / boom).
  - Each time the lift state select key is pressed, the display changes. If the display agrees with the autual state, press the set key to register. After the completion of the registration, the pop-up window closes.
  - When erecting and stowing jib, select the status of jib set (Jib lift indicator symbol flickers).
- 3. When operating crane on rubber:
- Set P.T.O. switch to "ON".
  - Press the outrigger state select key to register for the on rubber operation. Each time the outrigger state select key is pressed, the display changes. Select the stationary operation, the on rubber state indicative symbol flickers.
  - Press the lift state select key to register the lift state. However, pay attention to the following.

For stationary operation.

 The front and rear capacities are attainable only when the over front or rear position. The front capacities are attainable only when the over front position symbol comes on. When the boom is more than 2 degrees from centered over front of chassis, 360° capacities are in effect. • When a load is lifted in the front or rear position and then swung to the side area, make sure the value of the LOAD MOMENT INDICATOR (AML-C) is below the 360° lifting capacity.

- 4. This machine is equipped with an automatic slewing stop device. (For the details, see Operation and Maintenance Manual.) But, operate very carefully because the automatic slewing stop does not work in the following case.
  - During on-rubber operation.
  - When the "P.T.O" switch is set to "OVERRIDE" and the "OVERRIDE" key switch outside the cab is on.
- 5. During crane operation, make sure that the displays on front panel are in accordance with actual operating conditions.
- 6. The displayed values of LOAD MOMENT INDICATOR (AML-C) are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tire, operating speed, side loads, etc. For safe operation, it is recommended when extending and For safe operation, it is recommended when extending and the stopping and stopping at the st

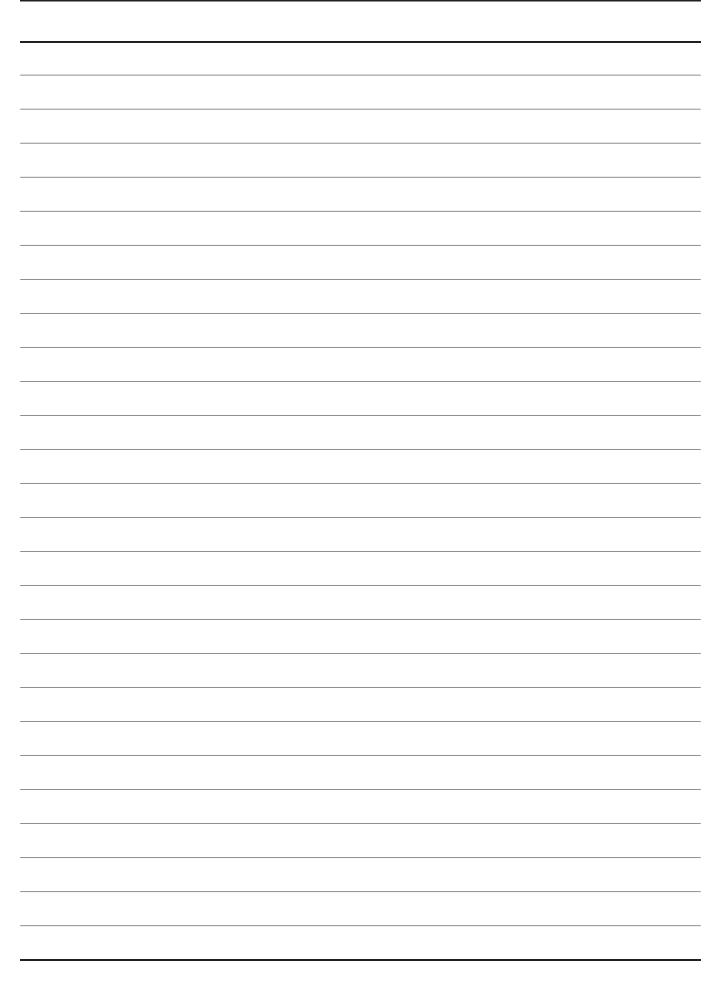
lowering boom or slewing, lifting loads shall be appropriately reduced.

7. LOAD MOMENT INDICATOR (AML-C) is intended as an aid to the operator. Under no condition should it be relied upon to replace use of capacity charts and operating instruction. Sole reliance upon LOAD MOMENT INDICATOR (AML-C) aids in place of good operating practice can cause an accident. The operator must exercise caution to assure safety.

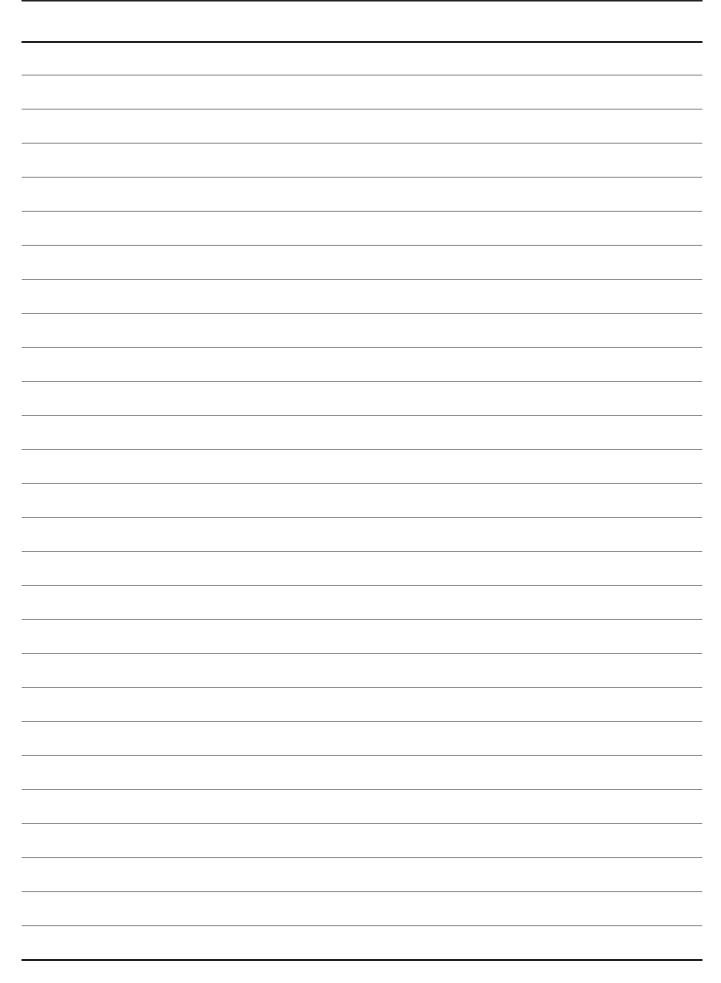
### **GR-1600XL Axle weight distribution chart**

Manual offset jib	Pounds				Kilograms			
	GVW	1st	2nd	3rd	GVW	1st	2nd	3rd
Basic machine	200,960	64,812	67,550	68,599	91,154	29,398	30,640	31,116
Remove: 1. 7.9ton (7.2 metric ton) hook block	-661	-928	134	134	-300	-421	61	61
2. 110ton (100 metric ton) hook block	-2,381	-3,904	763	763	-1,080	-1,771	346	346
3. Counterweight 24,500lbs (11,100 kg)	-24,515	7,388	-15,953	-15,953	-11,120	3,351	-7,236	-7,236
4. Counterweight 40,100lbs (18,200 kg)	-40,036	12,066	-26,050	-26,050	-18,160	5,473	-11,816	-11,816
5. Front and rear outrigger boxes and beams	-19,758	-7,635	-6,063	-6,063	-8,962	-3,463	-2,750	-2,750
6. Auxiliary Winch & wire rope	-2,650	1,080	-1,865	-1,865	-1,202	490	-846	-846
7. Boom and Jib	-38,413	-49,699	5,642	5,642	-17,424	-22,543	2,559	2,559

# MEMO



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