

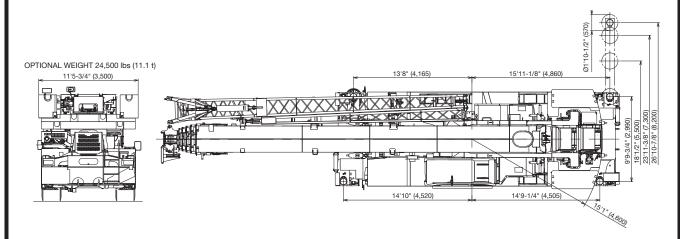
GR-1600XL

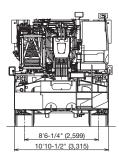
(Left-hand drive)
160 Ton (145 Metric Ton) Capacity

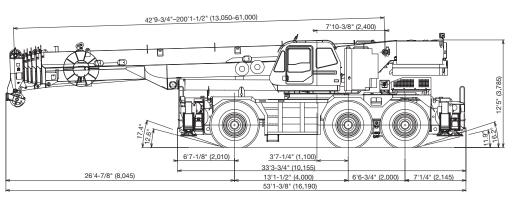
SPEC. SHEET NO. GR-1600-3-00102/US-03

HYDRAULIC ROUGH TERRAIN CRANE

DIMENSIONS







Note: Dimension is with boom angle at -1.5 degree.

GENERAL DIMENSIONS

	Feet	Meter
Turning radius (26.5R25☆☆ Tires)		
6 wheel steer	32' 6"	9.9
2 wheel steer	48'11"	14.9

	Feet	Meter
Overall length	approx. 53' 1-3/8"	16,190
Overall width	approx. 10'10-1/2"	3,315
Overall height	approx. 12' 5"	3,785
Carrier length for traveling	approx. 27' 1-1/4"	8,260

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.

Fully retracted length...... 42.8' (13.1 m)
Fully extended length..... 200.1' (61.0 m)
Extension speed........... 157.3' in 450 s Sheave root diameter 15-3/4" (0.400 m)

BOOM ELEVATION

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

Automatic speed reduction and slow stop function.

Boom angle -1.5–81.5° Boom raising speed 20° to 60° in 28 s

JIR.

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.

Offset...... 5-40°

Sheave root diameter 17-5/16" (0.440 m)

INSERT JIB (OPTION)

Insert lattice jib can be used for reaching higher place.

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)

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⁻¹ {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⁻¹ {rpm}

COUNTERWEIGHT

Standard weight	40,100	lbs (18,200 kg)
Extra weight right (option)	12,250	lbs (5,550 kg)
Extra weight left (option)	12,250	lbs (5,550 kg)

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

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 1050' (320 m)
Drum capacity
Maximum single line pull (1st layer)21,800 lbs (9,900 kg)
Maximum permissible linepull wire strength 15,900 lbs (7,200 kg)

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

Wire rope diameter x length 3/4" (19 mm) x 738" (225 m) Maximum single line pull (1st layer)......21,800 lbs (9,900 kg) Maximum permissible linepull wire strength...15,900 lbs (7,200 kg)

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

HOOK BLOCKS

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.

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 slewing
- Working 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

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.

CARRIER SPECIFICATIONS

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

FRAME

High tensile steel, all welded mono-box construction.

ENGINE

Model Cummins QSB6.7 EPA)Tier4 Final Direct injection diesel Type

No. of cylinders

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) 24 volt preheat Air inlet heater

Air cleaner Dry type, replaceable element Oil filter Full flow with replaceable element Full flow with replaceable element Fuel filter Fuel tank, gal. (liters) 79.2 (300), right side of carrier Liquid pressurized, recirculating by-pass Cooling Fin and tube core, thermostat controlled Radiator Fan, in. (mm) Suction type, 9-blade, 28 (711) dia. Starting 24 volt

24 volt system, negative ground Charging

Battery 2-120 amp. Hour

Compressor, air, CFM (I/min) 17.0 CFM (481) at 2,400 rpm 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)

2.7 (10) 4.0 (15) Cooling water Lubrication 79.2 (300) Fuel 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 **GRADEABILITY** ($\tan \theta$) - 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

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

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

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

- 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.

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

- Over-unwinding prevention
- Insert jib
- Short jib
- 50 ton (45 metric ton) 3 sheaves with hook block and safety

HOISTING PERFORMANCE

LINE SPEEDS AND PULLS

	_								
		Main or auxiliary winch - 15" (0.382 m) drum							
		Line s	peeds1		Line pulls	Available ²			
Layer	Lo	w	Hi	gh	Lo	ow .			
	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	110	505	154	14,600	6,620			
7th ³	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.

- ¹ Line speed based only on hook block, not loaded.
- ² 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.

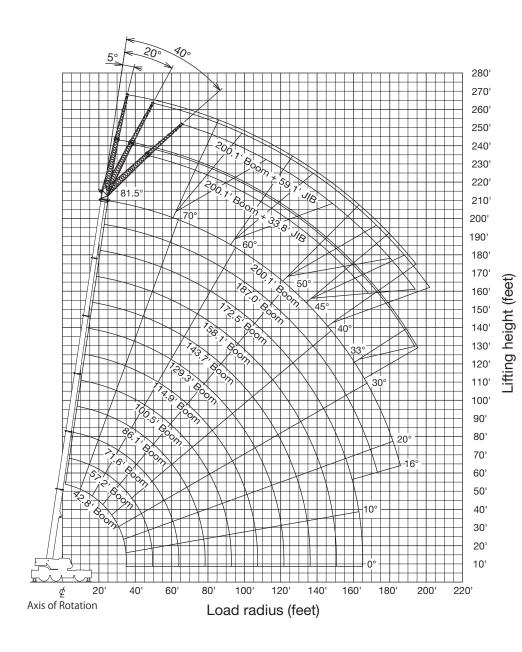
DRUM WIRE ROPE CAPACITIES

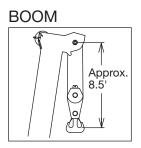
Briow Wille Hor E GAL AGITIEG									
	Main and auxiliary drum grooved lagging								
Wire		3/4" (19 mr	n) wire rope						
rope	Rope p	er layer	Total w	ire rope					
layer	Feet	Meter	Feet	Meter					
1	147.0	44.8	147.0	44.8					
2	159.4	48.6	306.4	93.4					
3	172.2	52.5	478.7	145.9					
4	184.7	56.3	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					

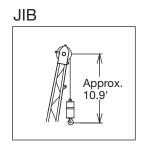
DRUM DIMENSIONS (Main and auxiliary)

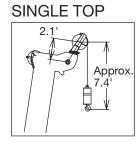
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	Inch	mm
Root diameter	15	382
Length	29-1/4	742
Flange diameter	26-5/8	677

Hydraulic offset jib
Counterweight 64,600 lbs

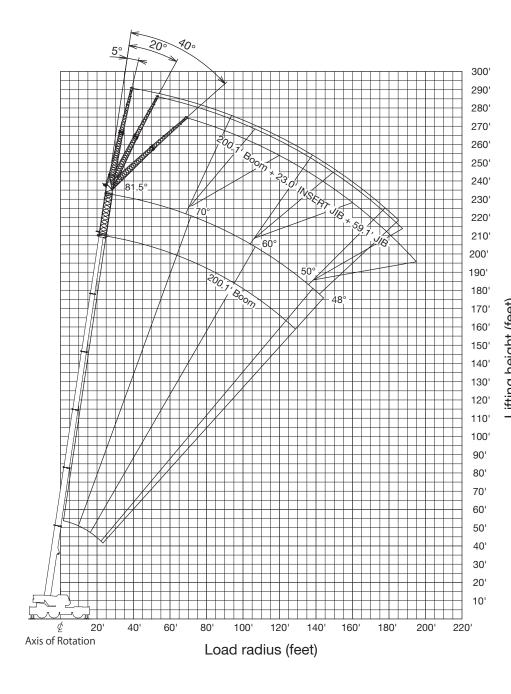


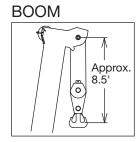


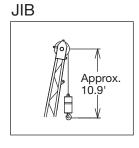




Hydraulic offset jib
23.0'Insert jib *Option
Counterweight 64,600 lbs

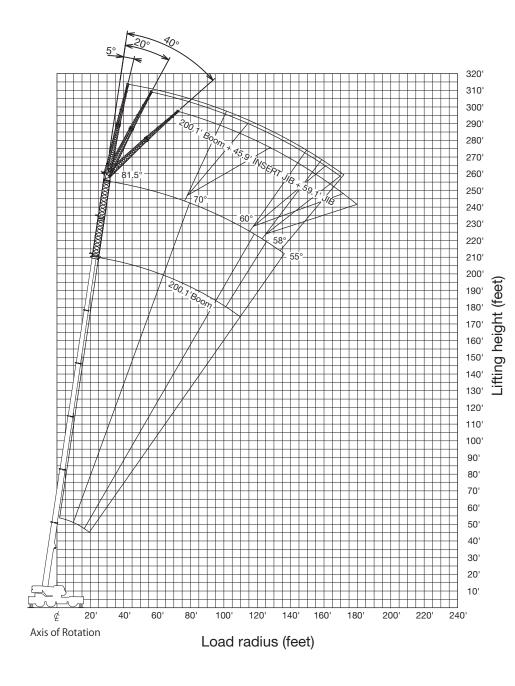


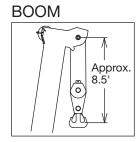


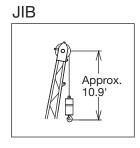


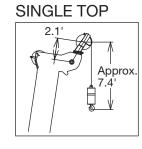


Hydraulic offset jib
45.9' Insert jib *Option
Counterweight 64,600 lbs

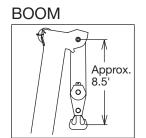


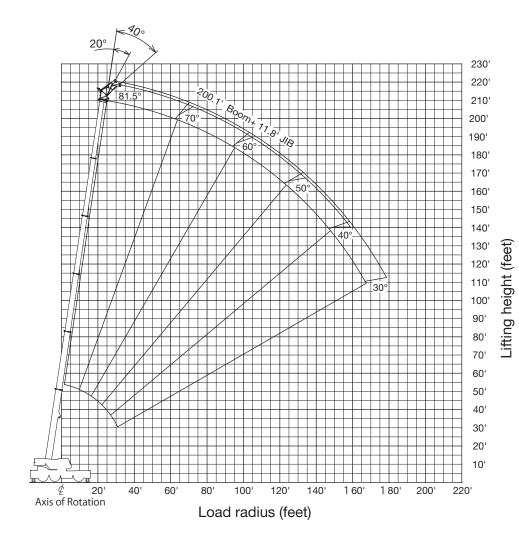


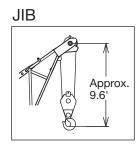




Short jib *Option
Counterweight 64,600 lbs









Boom												
				С	OUNTERW	EIGHT 64,6	600 lbs (29.	3 t)				
	ON OUTRIGGERS FULLY EXTENDED 26'10-7/8'' (8.20 m) SPREAD											
	360° ROTATION											
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 360° ROTATION

C 200.1' (61.0 m) Boom + 33.8' (10.3 m) Hydraulic offset jib 5° Tilt 20° Tilt 40° Tilt 40° Tilt R W R W R W R W R W R S1.5 48.2' 12,100 57.1' 12,100 66.9' 11,200 80 56.4' 12,100 66.3' 11,900 74.1' 10,800 79 61.7' 12,100 66.3' 11,900 74.1' 10,800 78 67.3' 12,100 74.1' 11,000 82.7' 10,400 78 67.3' 12,100 74.1' 11,000 82.7' 10,100 77 71.9' 11,900 80.1' 10,800 86.9' 9,900 76 76.4' 11,500 83.0' 10,400 91.2' 9,700 75 80.4' 11,000 87.6' 10,100 94.8' 9,300 73 89.6' 10,600 96.1' 9,700 103.0' 8,800 70 102.0' 9,500 108.0' 8,800 114.0' 8,400 68 110.0' 9,000 116.0' 8,400 121.0' 7,900 65 122.0' 8,400 127.0' 7,900 132.0' 7,500 63 129.0' 7,300 144.0' 6,800 148.0' 6,600 58 146.0' 6,800 151.0' 6,600 154.0' 6,400 55 155.0' 6,200 159.0' 6,000 163.0' 6,000 48 175.0' 4,900 48 175.0' 4,900 48 175.0' 4,900 48 175.0' 4,900 48 175.0' 4,900 48 175.0' 4,900 48 175.0' 4,900 48 175.0' 4,900 49 193.0' 3,500 195.0' 3,300 38 197.0' 3,100 199.0' 2,900 35 202.0' 2,400 204.0' 2,400 33 206.0' 2,200 207.0' 2,000 30 210.0' 1,800 28 25 23 20 G 1	-	000 11 (6	1 0 ms\ D s		1 (10 0)	مال بماسم بالم	affaat iib	
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75 80.4' 11,000 87.6' 10,100 94.8' 9,300 73 89.6' 10,600 96.1' 9,700 103.0' 8,800 70 102.0' 9,500 108.0' 8,800 114.0' 8,400 68 110.0' 9,000 116.0' 8,400 121.0' 7,900 65 122.0' 8,400 127.0' 7,900 132.0' 7,500 63 129.0' 7,900 134.0' 7,500 138.0' 7,300 60 139.0' 7,300 144.0' 6,800 148.0' 6,600 58 146.0' 6,800 151.0' 6,600 154.0' 6,400 55 155.0' 6,200 159.0' 6,000 163.0' 6,000 53 161.0' 6,000 165.0' 5,700 168.0' 5,500 50 169.0' 5,300 173.0' 5,100 175.0' 4,900 48 175.0' 4	77	71.9'	11,900	80.1'		86.9'	9,900	
73 89.6' 10,600 96.1' 9,700 103.0' 8,800 70 102.0' 9,500 108.0' 8,800 114.0' 8,400 68 110.0' 9,000 116.0' 8,400 121.0' 7,900 65 122.0' 8,400 127.0' 7,900 132.0' 7,500 63 129.0' 7,900 134.0' 7,500 138.0' 7,300 60 139.0' 7,300 144.0' 6,800 148.0' 6,600 58 146.0' 6,800 151.0' 6,600 154.0' 6,400 55 155.0' 6,200 159.0' 6,000 163.0' 6,000 53 161.0' 6,000 165.0' 5,700 168.0' 5,500 50 169.0' 5,300 173.0' 5,100 175.0' 4,900 48 175.0' 4,900 178.0' 4,600 180.0' 4,600 45 182.0'	76	76.4'	11,500	83.0'	10,400	91.2'	9,700	
70 102.0' 9,500 108.0' 8,800 114.0' 8,400 68 110.0' 9,000 116.0' 8,400 121.0' 7,900 65 122.0' 8,400 127.0' 7,900 132.0' 7,500 63 129.0' 7,900 134.0' 7,500 138.0' 7,300 60 139.0' 7,300 144.0' 6,800 148.0' 6,600 58 146.0' 6,800 151.0' 6,600 154.0' 6,400 55 155.0' 6,200 159.0' 6,000 163.0' 6,000 50 169.0' 5,300 173.0' 5,100 175.0' 4,900 48 175.0' 4,900 178.0' 4,600 180.0' 4,600 45 182.0' 4,400 185.0' 4,200 186.0' 4,200 40 193.0' 3,500 195.0' 3,300 33 206.0' 2,200 207.0' 2,000 <td>75</td> <td>80.4'</td> <td>11,000</td> <td>87.6'</td> <td>10,100</td> <td>94.8'</td> <td>9,300</td>	75	80.4'	11,000	87.6'	10,100	94.8'	9,300	
68 110.0' 9,000 116.0' 8,400 121.0' 7,900 65 122.0' 8,400 127.0' 7,900 132.0' 7,500 63 129.0' 7,900 134.0' 7,500 138.0' 7,300 60 139.0' 7,300 144.0' 6,800 148.0' 6,600 58 146.0' 6,800 151.0' 6,600 154.0' 6,400 55 155.0' 6,200 159.0' 6,000 163.0' 6,000 53 161.0' 6,000 165.0' 5,700 168.0' 5,500 50 169.0' 5,300 173.0' 5,100 175.0' 4,900 48 175.0' 4,900 178.0' 4,600 180.0' 4,600 45 182.0' 4,400 185.0' 4,200 186.0' 4,200 40 193.0' 3,500 195.0' 3,300 3300 35 202.0' 2,400 2,400 <	73	89.6'	10,600	96.1'	9,700	103.0'	8,800	
65 122.0' 8,400 127.0' 7,900 132.0' 7,500 63 129.0' 7,900 134.0' 7,500 138.0' 7,300 60 139.0' 7,300 144.0' 6,800 148.0' 6,600 58 146.0' 6,800 151.0' 6,600 154.0' 6,400 55 155.0' 6,200 159.0' 6,000 163.0' 6,000 53 161.0' 6,000 165.0' 5,700 168.0' 5,500 50 169.0' 5,300 173.0' 5,100 175.0' 4,900 48 175.0' 4,900 178.0' 4,600 180.0' 4,600 45 182.0' 4,400 185.0' 4,200 186.0' 4,200 43 187.0' 4,000 190.0' 4,000 186.0' 4,200 40 193.0' 3,500 195.0' 3,300 3300 35 202.0' 2,400 2,400 <	70	102.0'	9,500	108.0'	8,800	114.0'	8,400	
63 129.0' 7,900 134.0' 7,500 138.0' 7,300 60 139.0' 7,300 144.0' 6,800 148.0' 6,600 58 146.0' 6,800 151.0' 6,600 154.0' 6,400 55 155.0' 6,200 159.0' 6,000 163.0' 6,000 53 161.0' 6,000 165.0' 5,700 168.0' 5,500 50 169.0' 5,300 173.0' 5,100 175.0' 4,900 48 175.0' 4,900 178.0' 4,600 180.0' 4,600 45 182.0' 4,400 185.0' 4,200 186.0' 4,200 43 187.0' 4,000 190.0' 4,000 190.0' 4,000 40 193.0' 3,500 195.0' 3,300 33 202.0' 2,400 204.0' 2,400 33 206.0' 2,200 207.0' 2,000 30 210.0' <t< td=""><td>68</td><td>110.0'</td><td>9,000</td><td>116.0'</td><td>8,400</td><td>121.0'</td><td>7,900</td></t<>	68	110.0'	9,000	116.0'	8,400	121.0'	7,900	
60 139.0' 7,300 144.0' 6,800 148.0' 6,600 58 146.0' 6,800 151.0' 6,600 154.0' 6,400 55 155.0' 6,200 159.0' 6,000 163.0' 6,000 53 161.0' 6,000 165.0' 5,700 168.0' 5,500 50 169.0' 5,300 173.0' 5,100 175.0' 4,900 48 175.0' 4,900 178.0' 4,600 180.0' 4,600 45 182.0' 4,400 185.0' 4,200 186.0' 4,200 43 187.0' 4,000 190.0' 4,000 196.0' 4,000 40 193.0' 3,500 195.0' 3,300 38 197.0' 3,100 199.0' 2,900 35 202.0' 2,400 204.0' 2,400 3 206.0' 2,200 207.0' 2,000 30 210.0' 1,800 2 2 <td>65</td> <td>122.0'</td> <td>8,400</td> <td>127.0'</td> <td>7,900</td> <td>132.0'</td> <td>7,500</td>	65	122.0'	8,400	127.0'	7,900	132.0'	7,500	
58 146.0' 6,800 151.0' 6,600 154.0' 6,400 55 155.0' 6,200 159.0' 6,000 163.0' 6,000 53 161.0' 6,000 165.0' 5,700 168.0' 5,500 50 169.0' 5,300 173.0' 5,100 175.0' 4,900 48 175.0' 4,900 178.0' 4,600 180.0' 4,600 45 182.0' 4,400 185.0' 4,200 186.0' 4,200 43 187.0' 4,000 190.0' 4,000 4,000 40 193.0' 3,500 195.0' 3,300 3300 38 197.0' 3,100 199.0' 2,900 35 202.0' 2,400 204.0' 2,400 33 206.0' 2,200 207.0' 2,000 30 210.0' 1,800 28 25 23 20 20 20 20 20 20 20 <td>63</td> <td>129.0'</td> <td>7,900</td> <td>134.0'</td> <td>7,500</td> <td>138.0'</td> <td>7,300</td>	63	129.0'	7,900	134.0'	7,500	138.0'	7,300	
55 155.0' 6,200 159.0' 6,000 163.0' 6,000 53 161.0' 6,000 165.0' 5,700 168.0' 5,500 50 169.0' 5,300 173.0' 5,100 175.0' 4,900 48 175.0' 4,900 178.0' 4,600 180.0' 4,600 45 182.0' 4,400 185.0' 4,200 186.0' 4,200 43 187.0' 4,000 190.0' 4,000 4,000 4,200 40 193.0' 3,500 195.0' 3,300 3300 38 197.0' 3,100 199.0' 2,900 35 202.0' 2,400 204.0' 2,400 33 206.0' 2,200 207.0' 2,000 30 210.0' 1,800 30 210.0' 1,800 30 210.0' 1,800 30 200.0' 2,000 30 200.0' 2,000 30 200.0' 2,000 30 200.0' 2,000 <	60	139.0'	7,300	144.0'	6,800	148.0'	6,600	
53 161.0' 6,000 165.0' 5,700 168.0' 5,500 50 169.0' 5,300 173.0' 5,100 175.0' 4,900 48 175.0' 4,900 178.0' 4,600 180.0' 4,600 45 182.0' 4,400 185.0' 4,200 186.0' 4,200 43 187.0' 4,000 190.0' 4,000 190.0' 4,000 40 193.0' 3,500 195.0' 3,300 38 197.0' 3,100 199.0' 2,900 35 202.0' 2,400 204.0' 2,400 33 206.0' 2,200 207.0' 2,000 30 210.0' 1,800 30 210.0' 1,800 30 210.0' 1,800 30 200.0' 2,000 30 200.0' 2,000 30 200.0' 2,000 30 200.0' 2,000 30 200.0' 2,000 30 200.0' 2,000 30 200.0'	58	146.0'	6,800	151.0'	6,600	154.0'	6,400	
50 169.0' 5,300 173.0' 5,100 175.0' 4,900 48 175.0' 4,900 178.0' 4,600 180.0' 4,600 45 182.0' 4,400 185.0' 4,200 186.0' 4,200 43 187.0' 4,000 190.0' 4,000 190.0' 3,300 38 197.0' 3,100 199.0' 2,900 35 202.0' 2,400 204.0' 2,400 33 206.0' 2,200 207.0' 2,000 30 210.0' 1,800 28 25 23 20	55	155.0'	6,200	159.0'	6,000	163.0'	6,000	
48 175.0' 4,900 178.0' 4,600 180.0' 4,600 45 182.0' 4,400 185.0' 4,200 186.0' 4,200 43 187.0' 4,000 190.0' 4,000 4,000 4,200 40 193.0' 3,500 195.0' 3,300 3300 38 197.0' 3,100 199.0' 2,900 35 202.0' 2,400 204.0' 2,400 33 206.0' 2,200 207.0' 2,000 30 210.0' 1,800 28 30 210.0' 1,800 30 20.0' 2,200 20.0' 2,000 30 20.0' 2,000 30 20.0' 2,000 30 20.0' 2,000 30 20.0' 2,000 30 20.0' 2,00' 30 20.0' 2,00' 30 30.0' 30.0' 30.0' 30.0' 30.0' 30.0' 30.0' 30.0' 30.0' 30.0' 30.0' 30.0' 30.0' 30.0' 30	53	161.0'	6,000	165.0'	5,700	168.0'	5,500	
45 182.0' 4,400 185.0' 4,200 186.0' 4,200 43 187.0' 4,000 190.0' 4,000 190.0' 4,000 40 193.0' 3,500 195.0' 3,300 3300 38 197.0' 3,100 199.0' 2,900 35 202.0' 2,400 204.0' 2,400 33 206.0' 2,200 207.0' 2,000 30 210.0' 1,800 28 25 23 20 20	50	169.0'	5,300	173.0'	5,100	175.0'	4,900	
43 187.0' 4,000 190.0' 4,000 40 193.0' 3,500 195.0' 3,300 38 197.0' 3,100 199.0' 2,900 35 202.0' 2,400 204.0' 2,400 33 206.0' 2,200 207.0' 2,000 30 210.0' 1,800 28 25 23 20	48	175.0'	4,900	178.0'	4,600	180.0'	4,600	
40 193.0' 3,500 195.0' 3,300 38 197.0' 3,100 199.0' 2,900 35 202.0' 2,400 204.0' 2,400 33 206.0' 2,200 207.0' 2,000 30 210.0' 1,800 28 25 23 20	45	182.0'	4,400	185.0'	4,200	186.0'	4,200	
38 197.0' 3,100 199.0' 2,900 35 202.0' 2,400 204.0' 2,400 33 206.0' 2,200 207.0' 2,000 30 210.0' 1,800 28 25 23 20	43	187.0'	4,000	190.0'	4,000			
35 202.0' 2,400 204.0' 2,400 33 206.0' 2,200 207.0' 2,000 30 210.0' 1,800 28 25 23 20	40	193.0'	3,500	195.0'	3,300			
33 206.0' 2,200 207.0' 2,000 30 210.0' 1,800 28 25 23 20	38	197.0'	3,100	199.0'	2,900			
30 210.0' 1,800 28 25 23 20	35	202.0'	2,400	204.0'	2,400			
28 25 23 20	33	206.0'	2,200	207.0'	2,000			
25 23 20	30	210.0'	1,800					
23 20	28							
20	25							
20	23							
	G				1			

	187.0' (5	7.0 m) Bo	om + 33.8	' (10.3 m)	Hvdraulic	offset iih	
С	_ `	Tilt		20° Tilt		40° Tilt	
	R	W	R	W	R	W	
81.5	42.3'	13,700	51.5'	13,700	61.4'	12,800	
81	44.9'	13,700	54.1'	13,700	63.3'	12,600	
80	49.9'	13,700	58.7'	13,400	67.6'	12,100	
79	54.8'	13,700	63.3'	13,000	71.9'	11,900	
78	59.7'	13,700	67.6'	12,600	75.5'	11,500	
77	64.3'	13,700	71.9'	12,300	79.7'	11,200	
76	68.2'	13,200	76.1'	11,900	83.3'	10,800	
75	72.5'	12,800	79.7'	11,500	87.3'	10,600	
73	80.7'	11,900	87.9'	10,800	94.8'	10,100	
70	92.5'	11,000	99.4'	10,100	105.0'	9,500	
68	100.0'	10,400	106.0'	9,500	112.0'	9,000	
65	111.0'	9,500	117.0'	8,800	122.0'	8,400	
63	118.0'	9,300	124.0'	8,600	128.0'	8,200	
60	128.0'	8,600	133.0'	8,200	137.0'	7,700	
58	135.0'	8,200	139.0'	7,700	143.0'	7,500	
55	144.0'	7,700	148.0'	7,300	151.0'	7,100	
53	150.0'	7,300	154.0'	7,100	156.0'	6,800	
50	158.0'	6,800	161.0'	6,400	164.0'	6,400	
48	163.0'	6,400	166.0'	6,200	168.0'	6,000	
45	170.0'	5,700	173.0'	5,500	174.0'	5,500	
43	174.0'	5,300	177.0'	5,300			
40	180.0'	4,900	183.0'	4,600			
38	184.0'	4,400	186.0'	4,200			
35	190.0'	3,700	191.0'	3,500			
33	193.0'	3,500	194.0'	3,300			
30	198.0'	2,900	198.0'	2,900			
28	200.0'	2,600	201.0'	2,600			
25	204.0'	2,400	203.0'	2,200			
23	206.0'	2,200					
20	208.0'	2,000					
G							

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

	172.5' (5	52.6 m) Bo	om + 33.8	3' (10.3m)	Hydraulic	offset jib
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		

ION							
114.9' (35.0 m) Boom + 33.8' (10.3m) Hydraulic offset							
С	5°	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			
	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 360° ROTATION

						360		
	200.1' (61.0 m) Boom + 59.1' (18.0 m) Hydraulic offset jib							
C	5° Tilt		20° Tilt		40° Tilt			
	R	W	R	W	R	W		
81.5	56.1'	8,200	72.2'	8,200	88.9'	7,100		
81	59.1'	8,200	74.5'	8,200	91.9'	7,100		
80	65.3'	8,200	81.0'	8,200	97.1'	6,800		
79	70.9'	8,200	86.3'	8,200	102.0'	6,800		
78	76.8'	8,200	91.5'	7,900	107.0'	6,600		
77	82.0'	8,200	96.1'	7,700	112.0'	6,600		
76	87.9'	8,200	101.0'	7,500	116.0'	6,600		
75	93.5'	8,200	106.0'	7,300	119.0'	6,400		
73	103.0'	7,700	115.0'	6,800	129.0'	6,200		
70	117.0'	7,100	128.0'	6,400	140.0'	5,700		
68	126.0'	6,800	135.0'	6,000	147.0'	5,500		
65	138.0'	6,200	149.0'	5,700	158.0'	5,300		
63	147.0'	6,000	156.0'	5,500	165.0'	5,100		
60	159.0'	5,500	167.0'	5,100	175.0'	4,900		
58	166.0'	5,100	174.0'	4,900	181.0'	4,600		
55	176.0'	4,600	183.0'	4,400	189.0'	4,200		
53	182.0'	4,200	189.0'	4,000	194.0'	3,700		
50	191.0'	3,700	197.0'	3,500	200.0'	3,300		
48	197.0'	3,300	201.0'	3,100	205.0'	3,100		
45	205.0'	2,900	209.0'	2,600	211.0'	2,400		
43	210.0'	2,600	213.0'	2,400				
40	216.0'	2,000	219.0'	1,800				
38								
35								
33								
30								
28								
25								
23								
20								
G				1				

					Hydraulic offset jib	
C	5° -	Tilt	20°	Tilt	40° Tilt	
	R	W	R	W	R	W
81.5	47.9'	8,800	65.6'	8,800	81.0'	7,300
81	49.2'	8,800	68.2'	8,800	83.7'	7,300
80	56.4'	8,800	73.8'	8,800	88.6'	7,100
79	61.7'	8,800	78.1'	8,600	92.8'	7,100
78	66.6'	8,800	83.3'	8,400	97.4'	7,100
77	71.9'	8,800	87.6'	8,200	102.0'	6,800
76	77.1'	8,800	92.5'	7,900	106.0'	6,800
75	82.0'	8,800	97.1'	7,900	110.0'	6,600
73	92.2'	8,800	106.0'	7,700	118.0'	6,600
70	106.0'	8,200	119.0'	7,300	129.0'	6,400
68	114.0'	7,700	127.0'	7,100	137.0'	6,200
65	126.0'	7,300	138.0'	6,600	147.0'	6,200
63	135.0'	7,100	146.0'	6,400	154.0'	6,000
60	146.0'	6,600	156.0'	6,000	163.0'	5,700
58	153.0'	6,400	163.0'	5,700	169.0'	5,500
55	163.0'	6,000	172.0'	5,500	177.0'	5,300
53	169.0'	5,500	177.0'	5,100	182.0'	4,900
50	177.0'	4,900	186.0'	4,600	189.0'	4,400
48	183.0'	4,600	190.0'	4,200	193.0'	4,200
45	191.0'	4,000	198.0'	3,700	199.0'	3,700
43	196.0'	3,700	202.0'	3,500		
40	202.0'	3,300	207.0'	2,900		
38	207.0'	2,900	211.0'	2,600		
35	212.0'	2,200	216.0'	2,000		
33	216.0'	2,000	219.0'	1,800		
30						
28						
25						
23						
20						
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' (5	2.6 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	44.9'	10,400	61.7'	9,700	76.1'	7,500
81	47.6'	10,400	64.3'	9,700	78.4'	7,500
80	52.8'	10,400	69.2'	9,500	82.7'	7,500
79	57.7'	10,400	73.5'	9,300	86.6'	7,300
78	63.0'	10,400	78.1'	9,000	90.9'	7,300
77	67.3'	10,400	82.0'	8,800	94.8'	7,300
76	72.2'	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			-	1		

						**
					Hydraulic offset jib	
C	5°		20°		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						

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 360° ROTATION

Incert jib: Ontion

	200.1' (61.0 m) Boom + 23.0' (7.0 m) Insert jib + 59.1' (18.0 m) Hydraulic offset jib						
C	5° Tilt		20° Tilt		40° Tilt		
	R	W	R	W	R	W	
81.5	63.4'	6,800	79.6'	6,400	95.4'	5,700	
81	66.7'	6,800	82.8'	6,400	98.4'	5,700	
80	73.3'	6,800	89.8'	6,400	105.0'	5,700	
79	79.9'	6,800	95.3'	6,200	110.0'	5,700	
78	86.4'	6,800	101.0'	6,000	115.0'	5,500	
77	92.1'	6,600	107.0'	6,000	120.0'	5,300	
76	97.9'	6,400	112.0'	5,700	125.0'	5,100	
75	103.0'	6,200	117.0'	5,500	130.0'	5,100	
73	113.0'	5,700	126.0'	5,100	138.0'	4,600	
70	129.0'	5,300	141.0'	4,600	151.0'	4,400	
68	138.0'	4,900	150.0'	4,400	159.0'	4,200	
65	152.0'	4,400	163.0'	4,200	171.0'	4,000	
63	162.0'	4,200	171.0'	4,000	178.0'	3,700	
60	174.0'	4,000	184.0'	3,700	189.0'	3,500	
58	182.0'	3,700	191.0'	3,500	196.0'	3,300	
55	193.0'	3,300	201.0'	3,100	205.0'	2,900	
53	200.0'	2,900	207.0'	2,600	210.0'	2,600	
50	209.0'	2,400	216.0'	2,200	218.0'	2,000	
48	215.0'	2,000					
45							
43							
40							
38							
35							
33							
30							
28							
25							
23							
G				1			

ON					insert ji	b: Option
					(18.0 m) Hydrai	
С	5°	Tilt	20° Tilt 40° Tilt		Tilt	
	R	W	R	W	R	W
81.5	57.5'	7,500	73.1'	7,100	88.4'	6,000
81	60.2'	7,500	76.2'	7,100	91.4'	6,000
80	66.6'	7,500	82.4'	7,100	96.8'	6,000
79	72.9'	7,500	88.3'	7,100	102.0'	6,000
78	78.5'	7,500	94.3'	6,800	107.0'	5,700
77	84.3'	7,500	99.1'	6,600	112.0'	5,700
76	89.8'	7,300	104.0'	6,400	117.0'	5,700
75	94.8'	7,100	109.0'	6,200	121.0'	5,500
73	105.01	6,600	118.0'	6,000	130.0'	5,300
70	119.0'	6,200	132.0'	5,500	142.0'	5,100
68	129.0'	6,000	140.0'	5,300	150.0'	4,900
65	142.0'	5,500	153.0'	5,100	161.0'	4,600
63	150.0'	5,100	161.0'	4,900	169.0'	4,600
60	163.0'	4,900	173.0'	4,400	179.0'	4,200
58	171.0'	4,600	180.0'	4,200	186.0'	4,200
55	182.0'	4,400	190.0'	4,000	194.0'	4,000
53	188.0'	4,000	197.0'	3,700	199.0'	3,500
50	197.0'	3,300	204.0'	3,300	206.0'	3,100
48	203.01	3,100	209.0'	2,600	211.0'	2,600
45	210.0'	2,400	216.0'	2,200	217.0'	2,000
43	216.0'	2,200	221.0'	1,800		
40						
38						
35						
33						
30						
28						
25						
23						
G				1		

COUNTERWEIGHT 64,600 lbs (29.3 t) ON OUTRIGGERS FULLY EXTENDED 26'10-7/8" (8.20 m) SPREAD 0° ROTATI

						360
	172.5' (52.6	m) Boom + 23	3.0' (7.0 m) Ins	ert jib + 59.1' (18.0 m) Hydra	ulic offset jib
С	5° -	Tilt	20° Tilt		40° Tilt	
	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
78	71.5'	8,600	86.2'	7,500	99.4'	6,200
77	76.9'	8,600	91.2'	7,300	104.0'	6,000
76	82.3'	8,600	95.8'	7,100	108.0'	6,000
75	87.0'	8,400	100.0'	6,800	112.0'	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
60	151.0'	6,000	161.0'	5,100	167.0'	4,600
58	159.0'	5,700	168.0'	5,100	173.0'	4,600
55	169.0'	5,300	178.0'	4,900	182.0'	4,400
53	175.0'	4,900	184.0'	4,600	187.0'	4,400
50	184.0'	4,400	192.0'	4,000	194.0'	4,000
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				1		

ION	,	,			Insert ji	ib: Option	
			ert jib + 59.1' (18.0 m) Hydra	ulic offset jib		
С	5°	Tilt	20°	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'	4,200			
25	178.0'	4,200	180.0'	4,200			
23	180.0'	4,200					
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 360° ROTATION

Insert iib: Option

						360		
		.1' (61.0 m) Boom + 45.9' (14.0 m) Insert jib + 59.1' (18.0 m) Hydraulic offset jib						
C		5° Tilt		20° Tilt		40° Tilt		
	R	W	R	W	R	W		
81.5	70.7'	4,600	86.6'	4,600	105.0'	4,600		
81	74.3'	4,600	90.2'	4,600	109.0'	4,600		
80	82.1'	4,600	97.7'	4,600	115.0'	4,400		
79	89.0'	4,600	104.0'	4,600	121.0'	4,400		
78	97.5'	4,600	111.0'	4,600	126.0'	4,200		
77	103.0'	4,600	117.0'	4,400	131.0'	4,000		
76	110.0'	4,600	123.0'	4,200	137.0'	4,000		
75	116.0'	4,400	128.0'	4,000	142.0'	3,700		
73	128.0'	4,200	139.0'	3,700	152.0'	3,500		
70	144.0'	3,700	154.0'	3,300	165.0'	3,100		
68	155.0'	3,300	165.0'	3,100	174.0'	2,900		
65	170.0'	3,100	180.0'	2,900	187.0'	2,600		
63	180.0'	2,900	188.0'	2,600	195.0'	2,400		
60	194.0'	2,600	201.0'	2,400	208.0'	2,400		
58	202.0'	2,200	209.0'	2,200	214.0'	2,000		
55	213.0'	1,800						
53								
50								
48								
45								
43								
40								
38								
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33								
30								
28								
25								
23								
G				1				

C 187.0' (57.0 m) Boom + 45.9' (14.0 m) Insert jib + 59.1' (18.0 m) Hydraulic offset jib 5° Tilt 20° Tilt 40° Tilt 40° Tilt R W R W R W R W 81.5 65.2' 6,200 80.4' 5,300 97.2' 4,900 80 75.0' 6,000 90.5' 5,300 100.0' 4,900 79 81.7' 6,000 96.9' 5,300 117.0' 4,600 78 87.7' 5,700 102.0' 5,100 117.0' 4,600 76 93.7' 5,500 108.0' 4,900 122.0' 4,400 76 99.2' 5,300 119.0' 4,600 132.0' 4,200 73 116.0' 4,900 129.0' 4,400 141.0' 4,000 73 116.0' 4,900 129.0' 4,400 141.0' 4,000 70 132.0' 4,400 144.0' 4,000 155.0' 3,700	ON Insert jib: Option								
R W R W R W 81.5 65.2' 6,200 80.4' 5,300 97.2' 4,900 81 68.7' 6,200 83.8' 5,300 100.0' 4,900 80 75.0' 6,000 90.5' 5,300 107.0' 4,900 79 81.7' 6,000 96.9' 5,300 112.0' 4,600 78 87.7' 5,700 102.0' 5,100 117.0' 4,600 77 93.7' 5,500 108.0' 4,900 122.0' 4,400 76 99.2' 5,300 113.0' 4,900 122.0' 4,400 75 106.0' 5,300 119.0' 4,600 132.0' 4,200 73 116.0' 4,900 129.0' 4,400 141.0' 4,000 70 132.0' 4,400 144.0' 4,000 155.0' 3,700 68 143.0' 4,200 154.0' 3,500 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
81.5 65.2' 6,200 80.4' 5,300 97.2' 4,900 81 68.7' 6,200 83.8' 5,300 100.0' 4,900 80 75.0' 6,000 90.5' 5,300 107.0' 4,900 79 81.7' 6,000 96.9' 5,300 112.0' 4,600 78 87.7' 5,700 102.0' 5,100 117.0' 4,600 77 93.7' 5,500 108.0' 4,900 122.0' 4,400 76 99.2' 5,300 113.0' 4,900 127.0' 4,400 75 106.0' 5,300 119.0' 4,600 132.0' 4,200 73 116.0' 4,900 129.0' 4,400 141.0' 4,000 70 132.0' 4,400 144.0' 4,000 155.0' 3,700 68 143.0' 4,200 154.0' 3,700 164.0' 3,500 65 157.0' 3,700 <td>C</td> <td>5°</td> <td colspan="2">5° Tilt 20° Tilt</td> <td>Tilt</td> <td colspan="2"></td>	C	5°	5° Tilt 20° Tilt		Tilt				
81 68.7' 6,200 83.8' 5,300 100.0' 4,900 80 75.0' 6,000 90.5' 5,300 107.0' 4,900 79 81.7' 6,000 96.9' 5,300 112.0' 4,600 78 87.7' 5,700 102.0' 5,100 117.0' 4,600 77 93.7' 5,500 108.0' 4,900 122.0' 4,400 76 99.2' 5,300 113.0' 4,900 127.0' 4,400 75 106.0' 5,300 119.0' 4,600 132.0' 4,200 73 116.0' 4,900 129.0' 4,400 141.0' 4,000 70 132.0' 4,400 144.0' 4,000 155.0' 3,700 68 143.0' 4,200 154.0' 3,700 164.0' 3,500 65 157.0' 3,700 168.0' 3,500 177.0' 3,300 63 166.0' 3,500 <td></td> <td>R</td> <td>W</td> <td>R</td> <td>W</td> <td>R</td> <td>W</td>		R	W	R	W	R	W		
80 75.0' 6,000 90.5' 5,300 107.0' 4,900 79 81.7' 6,000 96.9' 5,300 112.0' 4,600 78 87.7' 5,700 102.0' 5,100 117.0' 4,600 77 93.7' 5,500 108.0' 4,900 122.0' 4,400 76 99.2' 5,300 113.0' 4,900 127.0' 4,400 75 106.0' 5,300 119.0' 4,600 132.0' 4,200 73 116.0' 4,900 129.0' 4,400 141.0' 4,000 70 132.0' 4,400 144.0' 4,000 155.0' 3,700 68 143.0' 4,200 154.0' 3,700 164.0' 3,500 65 157.0' 3,700 168.0' 3,500 177.0' 3,300 63 166.0' 3,500 176.0' 3,300 184.0' 3,100 58 188.0' 3,100<	81.5	65.2'	6,200	80.4'	5,300	97.2'	4,900		
79 81.7' 6,000 96.9' 5,300 112.0' 4,600 78 87.7' 5,700 102.0' 5,100 117.0' 4,600 77 93.7' 5,500 108.0' 4,900 122.0' 4,400 76 99.2' 5,300 113.0' 4,900 127.0' 4,400 75 106.0' 5,300 119.0' 4,600 132.0' 4,200 73 116.0' 4,900 129.0' 4,400 141.0' 4,000 70 132.0' 4,400 144.0' 4,000 155.0' 3,700 68 143.0' 4,200 154.0' 3,700 164.0' 3,500 65 157.0' 3,700 168.0' 3,500 177.0' 3,300 63 166.0' 3,500 176.0' 3,300 184.0' 3,100 58 188.0' 3,100 196.0' 2,900 203.0' 2,900 55 199.0' 2,60	81	68.7'	6,200	83.8'	5,300	100.0'	4,900		
78 87.7' 5,700 102.0' 5,100 117.0' 4,600 77 93.7' 5,500 108.0' 4,900 122.0' 4,400 76 99.2' 5,300 113.0' 4,900 127.0' 4,400 75 106.0' 5,300 119.0' 4,600 132.0' 4,200 73 116.0' 4,900 129.0' 4,400 141.0' 4,000 70 132.0' 4,400 144.0' 4,000 155.0' 3,700 68 143.0' 4,200 154.0' 3,700 164.0' 3,500 65 157.0' 3,700 168.0' 3,500 177.0' 3,300 63 166.0' 3,500 176.0' 3,300 184.0' 3,100 58 188.0' 3,100 196.0' 2,900 203.0' 2,900 55 199.0' 2,600 207.0' 2,600 212.0' 2,400 53 207.0' 2,	80	75.0'	6,000	90.5'	5,300	107.0'	4,900		
77 93.7' 5,500 108.0' 4,900 122.0' 4,400 76 99.2' 5,300 113.0' 4,900 127.0' 4,400 75 106.0' 5,300 119.0' 4,600 132.0' 4,200 73 116.0' 4,900 129.0' 4,400 141.0' 4,000 70 132.0' 4,400 144.0' 4,000 155.0' 3,700 68 143.0' 4,200 154.0' 3,700 164.0' 3,500 65 157.0' 3,700 168.0' 3,500 177.0' 3,300 63 166.0' 3,500 176.0' 3,300 184.0' 3,100 60 180.0' 3,300 189.0' 3,100 196.0' 3,100 58 188.0' 3,100 196.0' 2,900 203.0' 2,900 55 199.0' 2,600 207.0' 2,600 212.0' 2,400 53 207.0' 2	79	81.7'	6,000	96.9'	5,300	112.0'	4,600		
76 99.2' 5,300 113.0' 4,900 127.0' 4,400 75 106.0' 5,300 119.0' 4,600 132.0' 4,200 73 116.0' 4,900 129.0' 4,400 141.0' 4,000 70 132.0' 4,400 144.0' 4,000 155.0' 3,700 68 143.0' 4,200 154.0' 3,700 164.0' 3,500 65 157.0' 3,700 168.0' 3,500 177.0' 3,300 63 166.0' 3,500 176.0' 3,300 184.0' 3,100 60 180.0' 3,300 189.0' 3,100 196.0' 3,100 58 188.0' 3,100 196.0' 2,900 203.0' 2,900 55 199.0' 2,600 207.0' 2,600 212.0' 2,400 53 207.0' 2,400 213.0' 2,200 217.0' 2,200 50 216.0'	78	87.7'	5,700	102.0'	5,100	117.0'	4,600		
75 106.0' 5,300 119.0' 4,600 132.0' 4,200 73 116.0' 4,900 129.0' 4,400 141.0' 4,000 70 132.0' 4,400 144.0' 4,000 155.0' 3,700 68 143.0' 4,200 154.0' 3,700 164.0' 3,500 65 157.0' 3,700 168.0' 3,500 177.0' 3,300 63 166.0' 3,500 176.0' 3,300 184.0' 3,100 60 180.0' 3,300 189.0' 3,100 196.0' 2,900 58 188.0' 3,100 196.0' 2,900 203.0' 2,900 55 199.0' 2,600 207.0' 2,600 212.0' 2,400 53 207.0' 2,400 213.0' 2,200 217.0' 2,200 50 216.0' 1,800 223.0' 1,800 226.0' 1,800 48 43 40<	77	93.7'	5,500	108.0'	4,900	122.0'	4,400		
73 116.0' 4,900 129.0' 4,400 141.0' 4,000 70 132.0' 4,400 144.0' 4,000 155.0' 3,700 68 143.0' 4,200 154.0' 3,700 164.0' 3,500 65 157.0' 3,700 168.0' 3,500 177.0' 3,300 63 166.0' 3,500 176.0' 3,300 184.0' 3,100 60 180.0' 3,300 189.0' 3,100 196.0' 2,900 58 188.0' 3,100 196.0' 2,900 203.0' 2,900 55 199.0' 2,600 207.0' 2,600 212.0' 2,400 53 207.0' 2,400 213.0' 2,200 217.0' 2,200 50 216.0' 1,800 223.0' 1,800 226.0' 1,800 48 43 40 40 40 40 40 40 40 40 40 40<	76	99.2'	5,300	113.0'	4,900	127.0'	4,400		
70 132.0' 4,400 144.0' 4,000 155.0' 3,700 68 143.0' 4,200 154.0' 3,700 164.0' 3,500 65 157.0' 3,700 168.0' 3,500 177.0' 3,300 63 166.0' 3,500 176.0' 3,300 184.0' 3,100 58 188.0' 3,100 196.0' 2,900 203.0' 2,900 55 199.0' 2,600 207.0' 2,600 212.0' 2,400 53 207.0' 2,400 213.0' 2,200 217.0' 2,200 50 216.0' 1,800 223.0' 1,800 226.0' 1,800 48 45 43 40<	75	106.0'	5,300	119.0'	4,600	132.0'	4,200		
68 143.0' 4,200 154.0' 3,700 164.0' 3,500 65 157.0' 3,700 168.0' 3,500 177.0' 3,300 63 166.0' 3,500 176.0' 3,300 184.0' 3,100 60 180.0' 3,300 189.0' 3,100 196.0' 2,900 203.0' 2,900 58 188.0' 3,100 196.0' 2,900 203.0' 2,900 520.0' 2,400 53 207.0' 2,400 213.0' 2,200 217.0' 2,200 50 216.0' 1,800 223.0' 1,800 226.0' 1,800 48 43 40 43 40 43 40 43 40 43 40 43 40 43 40 43 40 43 40 43 40 43 40 43 40 43 40 43 40 43 43 40 43 40	73	116.0'	4,900	129.0'	4,400	141.0'	4,000		
65 157.0' 3,700 168.0' 3,500 177.0' 3,300 63 166.0' 3,500 176.0' 3,300 184.0' 3,100 60 180.0' 3,300 189.0' 3,100 196.0' 3,100 58 188.0' 3,100 196.0' 2,900 203.0' 2,900 55 199.0' 2,600 207.0' 2,600 212.0' 2,400 53 207.0' 2,400 213.0' 2,200 217.0' 2,200 50 216.0' 1,800 223.0' 1,800 226.0' 1,800 48 45 43 40 48 45 43 40 48 45 43 40 48 45 43 40 48 45 43 40 48 45 43 40 48 45 43 40 40 40 40 40 40 40 40 40 40 40 40<	70	132.0'	4,400	144.0'	4,000	155.0'	3,700		
63 166.0' 3,500 176.0' 3,300 184.0' 3,100 60 180.0' 3,300 189.0' 3,100 196.0' 3,100 58 188.0' 3,100 196.0' 2,900 203.0' 2,900 55 199.0' 2,600 207.0' 2,600 212.0' 2,400 53 207.0' 2,400 213.0' 2,200 217.0' 2,200 50 216.0' 1,800 223.0' 1,800 226.0' 1,800 48 45 43 40 48 44 44 44 44 44 44 45 43 40 43 40 43 40 43 40 43 40 43 40 43 40 43 40 43 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40<	68	143.0'	4,200	154.0'	3,700	164.0'	3,500		
60 180.0' 3,300 189.0' 3,100 196.0' 3,100 58 188.0' 3,100 196.0' 2,900 203.0' 2,900 55 199.0' 2,600 207.0' 2,600 212.0' 2,400 53 207.0' 2,400 213.0' 2,200 217.0' 2,200 50 216.0' 1,800 223.0' 1,800 226.0' 1,800 48 45 43 40<	65	157.0'	3,700	168.0'	3,500	177.0'	3,300		
58 188.0' 3,100 196.0' 2,900 203.0' 2,900 55 199.0' 2,600 207.0' 2,600 212.0' 2,400 53 207.0' 2,400 213.0' 2,200 217.0' 2,200 50 216.0' 1,800 223.0' 1,800 226.0' 1,800 48 43 40 38 35 33 30 30 28 25 23	63	166.0'	3,500	176.0'	3,300	184.0'	3,100		
55 199.0' 2,600 207.0' 2,600 212.0' 2,400 53 207.0' 2,400 213.0' 2,200 217.0' 2,200 50 216.0' 1,800 223.0' 1,800 226.0' 1,800 48 45 43 44<	60	180.0'	3,300	189.0'	3,100	196.0'	3,100		
53 207.0' 2,400 213.0' 2,200 217.0' 2,200 50 216.0' 1,800 223.0' 1,800 226.0' 1,800 48 45 43 40 43 40 43 40 43 40 43 40<	58	188.0'	3,100	196.0'	2,900	203.0'	2,900		
50 216.0' 1,800 223.0' 1,800 226.0' 1,800 48 45 43 44<	55	199.0'	2,600	207.0'	2,600	212.0'	2,400		
48	53	207.0'	2,400	213.0'	2,200	217.0'	2,200		
45 43 43 40 40 40 40 40 40 40 40 40 40 40 40 40	50	216.0'	1,800	223.0'	1,800	226.0'	1,800		
43	48								
40 38 35 33 30 28 25 23 28 25 23	45								
38 35 33 30 30 28 25 23 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	43								
35 33 30 28 25 23	40								
33 30 28 25 23 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	38								
30 28 25 23									
28 25 23	33								
25 23	30								
23	28								
	25								
G 1	23								
	G								

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

Insert jib: Option

С	•	n) Boom + 45.	9' (14.0 m) Ins			
	5° -		- ()	ert Jib + 59.1"	(18.0 m) Hydra	ulic offset jib
	5° Tilt		20°	Tilt	40° Tilt	
	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	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	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	218.0'	2,200
45	217.0'	2,000	223.0'	2,000	225.0'	2,000
43	223.0'	1,800				
40						
38						
35						
33						
30						
28						
25						
23						
G	'					

81.5 81 80 79 78 77 76 75	5° T R 39.4' 42.0' 46.1'		20° R	ert jib + 59.1' Tilt W	40°	Tilt
81.5 81 80 79 78 77 76	R 39.4' 42.0' 46.1'	W 9,700	R			
81 80 79 78 77 76	39.4' 42.0' 46.1'	9,700		\//		
81 80 79 78 77 76	42.0' 46.1'		EO 0'	v V	R	W
80 79 78 77 76	46.1'	9 700	53.8'	7,900	69.6'	6,400
79 78 77 76		3,100	56.0'	7,900	71.7'	6,400
78 77 76	EO 41	9,700	60.4'	7,900	75.4'	6,400
77 76	50.4'	9,500	64.2'	7,700	79.2'	6,200
76	54.4'	9,300	68.3'	7,500	82.7'	6,000
	58.3'	8,800	72.1'	7,300	85.7'	5,700
75	62.5'	8,600	75.4'	6,800	89.1'	5,500
	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						

C: Loaded boom angle (°)

R: Load radius in feet

W: Rated lifting capacity in pounds

G: Number of parts of line

Jib

JID							
						600 lbs (2	
	(JN OUTR	IGGERS		O ROTAT	26'10-7/8 ION	8 (8.2
	200.1' (61	.0 m) Boom -	+ 11.8' (3.6 n	n) Short jib			1
С	20°	Tilt	40°	Tilt		С	
	R	W	R	W			R
81.5	46.3'	20,700	51.2'	20,300	1	81.5	41
81	48.6'	20,300	53.1'	20,100		81	43
80	52.8'	19,800	57.4'	19,400		80	47
79	57.1'	19,200	61.4'	18,700]	79	50
78	60.7'	18,500	65.0'	18,100	1	78	54
77	64.6'	17,900	68.6'	17,400		77	58
76	68.6'	17,200	72.5'	17,000		76	61
75	72.2'	16,500	76.1'	16,300	1	75	65
73	79.7'	15,400	83.0'	15,200		73	72
70	89.9'	13,900	93.5'	13,700		70	82
68	96.8'	13,000	99.7'	12,800	1	68	88
65	107.0'	11,700	110.0'	11,700	1	65	97
63	113.0'	11,000	115.0'	10,800		63	104
60	122.0'	9,900	124.0'	9,900		60	112
58	128.0'	9,500	130.0'	9,300	1	58	118
55	136.0'	8,600	138.0'	8,600		55	126
53	142.0'	8,200	143.0'	7,700	1	53	131
50	149.0'	6,800	149.0'	6,400]	50	138
48	153.0'	6,000	154.0'	5,700	1	48	142
45	160.0'	5,100	160.0'	4,900		45	148
43	164.0'	4,400	164.0'	4,200		43	152
40	170.0'	3,700	170.0'	3,500	1	40	158
38	173.0'	3,300				38	161
35	178.0'	2,600				35	166
33	181.0'	2,200]	33	169
30	186.0'	1,800			1	30	173
28					1	28	176
25					1	25	179
20					1	20	184
G		- 2	2		1	G	

TENDED 26'10-7/8'' (8.20 m) SPREAD						
° ROTATION Short jib: Option						
	nort jib					
	С	20°	Tilt	40°	Tilt	
		R	W	R	W	
	81.5	41.7'	23,800	44.6'	23,100	
	81	43.6'	23,600	46.6'	22,700	
	80	47.6'	22,700	50.5'	22,000	
	79	50.9'	22,000	53.8'	21,200	
	78	54.5'	21,200	57.7'	20,500	
	77	58.4'	20,500	61.0'	19,800	
	76	61.7'	19,800	64.3'	19,200	
	75	65.3'	19,200	67.9'	18,500	
	73	72.2'	17,900	74.5'	17,400	
	70	82.0'	16,300	84.3'	16,100	
	68	88.3'	15,200	90.6'	15,000	
	65	97.8'	13,900	99.4'	13,700	
	63	104.0'	13,200	106.0'	13,000	
	60	112.0'	11,900	114.0'	11,900	
	58	118.0'	11,200	119.0'	11,200	
	55	126.0'	10,400	127.0'	10,400	
	53	131.0'	9,900	132.0'	9,900	
	50	138.0'	8,800	138.0'	8,600	
	48	142.0'	7,900	142.0'	7,700	
	45	148.0'	6,800	148.0'	6,600	
	43	152.0'	6,200	152.0'	6,000	
	40	158.0'	5,300	158.0'	5,100	
	38	161.0'	4,900			
	35	166.0'	4,200			
	33	169.0'	3,700			
	30	173.0'	3,300			
	28	176.0'	3,100			
	25	179.0'	2,600			
	20	184.0'	2,200			
	G 2					
<u> </u>						

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

				360
		.6 m) Boom -		
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	00 145.0' 6	
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	2	-

	114.9' (35.0 m) Boom + 11.8' (3.6 m) Sho					
С	20°	Tilt	40°	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	30.21	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			

C: Loaded boom angle (°)

R: Load radius in feet

W: Rated lifting capacity in pounds

G: Number of parts of line

	WITHOUT COUNTERWEIGHT ON-RUBBER STATIONARY												
А			Over from	nt and rear						360° F	Rotation		
	42	2.8'	5	7.2'	7	1.6'		4	2.8'	5	7.2'	7	1.6'
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		45		57			54		59	(62
					Т	elescoping	conditions (9	%)					
2nd boom		0		0		0		0 0 0			0		
3rd boom		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

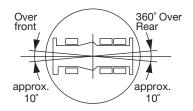
- A: Boom length in feet
- B: Load radius in feet
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated length (no load)
- E: Number of parts of line

WARNING AND OPERATING INSTRUCTIONS FOR ON RUBBER LIFTING CAPACITIES

- 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)

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



- 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.
- 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.
- 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

SET UP

part 1926.

- 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.
- 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.
- 4. 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.
- 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.
- 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.
- 13. 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.
- 18. 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

- 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.
- Loaded Boom Angle: The angle between the boom base section and the horizontal, after lifting the rated lifting capacity at the load radius.
- 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.
- 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)

- 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.
- 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 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

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