

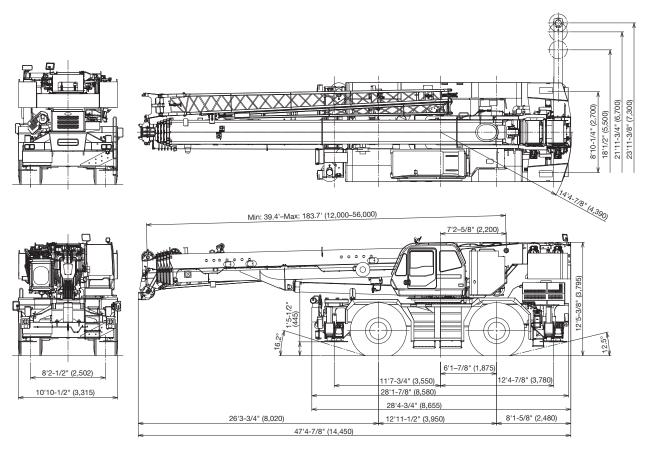
GR-1200XL

(Left-hand drive)
120 Ton (110 Metric Ton) Capacity

SPEC. SHEET NO. GR-1200-3-00103/US-01

HYDRAULIC ROUGH TERRAIN CRANE

DIMENSIONS



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

() Reference dimensions in mm.

GENERAL DIMENSIONS

	Feet	Meter
Turning radius (29.5–25 34PR (OR))		
4 wheel steer	22' 4"	6.8
2 wheel steer	39' 1"	11.9

	Feet	Meter
Overall length	approx. 47' 4-7/8"	14,450
Overall width	approx. 10'10-1/2"	3,315
Overall height	approx. 12' 5"-3/8"	3,795
Carrier length for traveling	approx. 28' 1-7/8"	8,580

CRANE SPECIFICATIONS

BOOM

6 sections boom of round box construction with 5 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.

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° Boom raising speed 20° to 60° in 40 s

JIB

2 stage bi-fold lattice type, 3.5°, 25° or 45° offset. 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.

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 1.5 min⁻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 1.5 min⁻¹ {rpm}

COUNTERWEIGHT

Standard weight 22,000 lbs (10,000 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 984' (300 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

Root diameter x wide 1	5" (0.382 m) x 29-1/4" (0.742 m)
Wire rope diameter x length	3/4" (19 mm) x 518 (158 m)
Drum capacity	1293' (394 m), 7 layers
Maximum single line pull (1st lay	ver)21,800 lbs (9,900 kg)
Maximum permissible linepull wire	e 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

120 ton (110 metric ton, option)... 8 sheaves with hook block and safety latch.
77 ton (70 metric ton, option)..... 5 sheaves with hook block and safety latch.
50 ton (45 metric ton, option).... 3 sheaves with hook block and safety latch.

HYDRAULIC SYSTEM

PLIMPS

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 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

TYPE

Rear engine, left hand steering, driving axle 2-way selected type by manual switch, 4x2 front drive, 4x4 front and rear drive.

FRAME

High tensile steel, all welded mono-box construction.

ENGINE

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

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)

Displacement, cu. in (liters)
Air inlet heater

Air inlet heater
Air cleaner
Oil filter
Fuel filter
Fuel tank, gal. (liters)
Cooling
Radiator
Fan, in. (mm)

24 volt preheat
Dry type, replaceable element
Full flow with replaceable element
F

Starting 24 volt

Charging 24 volt system, negative ground

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 (Nm) 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

12 mph (19 km/h)

GRADE ABILITY ($tan\theta$) - 84%, 57%*

 * Machine should be operated within the limit of engine crankcase design (30°: Cummins QSB6.7 EPA)Tier4 Final)

AXLE

Front: Full floating type, steering and driving axle with planetary reduction.

Rear: Full floating type, steering and driving axle with planetary reduction and non-spin rear differential.

STEERING

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

SUSPENSION

Front: Rigid mounted to frame.

Rear: Pivot mounted with hydraulic lockout device.

BRAKE SYSTEMS

Service: Air over hydraulic disc brakes on all 4 wheels.

Parking/Emergency: Spring applied-air released brake acting on

input shaft of front axle.

Auxiliary: Electro- pneumatic operated exhaust brake.

TIRES - 29.5-25 34PR (OR) Air pressure: 57 psi (400 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 23' 11-3/8" (7.3 m) center-line and retract to within 10' 10-1/2" (3.315 m) overall width with floats. 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.

 $\begin{array}{lll} \mbox{Min. Extension} & \mbox{8' 10-1/4" (2.7 m) center to center} \\ \mbox{Mid. Extension} & \mbox{18' 1/2" (5.5 m) center to center} \\ \mbox{Mid. Extension} & \mbox{21' 11-3/4" (6.7 m) center to center} \\ \mbox{Max. Extension} & \mbox{23' 11-3/8" (7.3 m) center to center} \\ \end{array}$

Float size (Diameter) 1' 11- 5 / 8" (0.6 m)

STANDARD EQUIPMENT

- Six section extended boom by single telescoping cylinder 39.4'-183.7' (12.0 m-56.0 m) 33.2' (10.1 m) or 58.1' (17.7 m) bi-fold lattice jib
- with 3.5°, 25° or 45° pinned offsets and self stowing pins.
- 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 771' of 3/4" (235 m of 19 mm) cable.
- Variable speed auxiliary winch with grooved drum, cable follower and 518' of 3/4" (158 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)
- Rear 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
- Independently controlled outriggers
- Four outrigger extension positions
- Self-storing outrigger pads
- Electronic controlled automatic transmission driven by torque converter
- 4 x 4 x 4 drive/steer
- Non-spin rear defferential
- Automatic rear axle oscillation lockout system
- 29.5-25 34PR 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
- 7.9 ton (7.2 metric ton) Weighted hook with swivel and safety latch
- Rediator cover

OPTIONAL EQUIPMENT

- Working lamp with remort controller
- Boom and jib mounted aircraft warning light
- Wind speed indicator
- Emergency steering system
- Over-unwinding prevention
- Engine oil pan heater Engine coolant heater

- 50 ton (45 metric ton) 3 sheaves with hook block and safety latch
- 77 ton (70 metric ton) 5 sheaves with hook block and safety latch
- 120 ton (110 metric ton) 8 sheaves with hook block and safety latch

HOISTING PERFORMANCE

LINE SPEEDS AND PULLS

	Main or auxiliary winch - 15" (0.382 m) drum											
		Line s	peeds1		Line pulls Available ²							
Layer	Lo	ow .	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						
7th³	384	117	535	163	13,700	6,210						

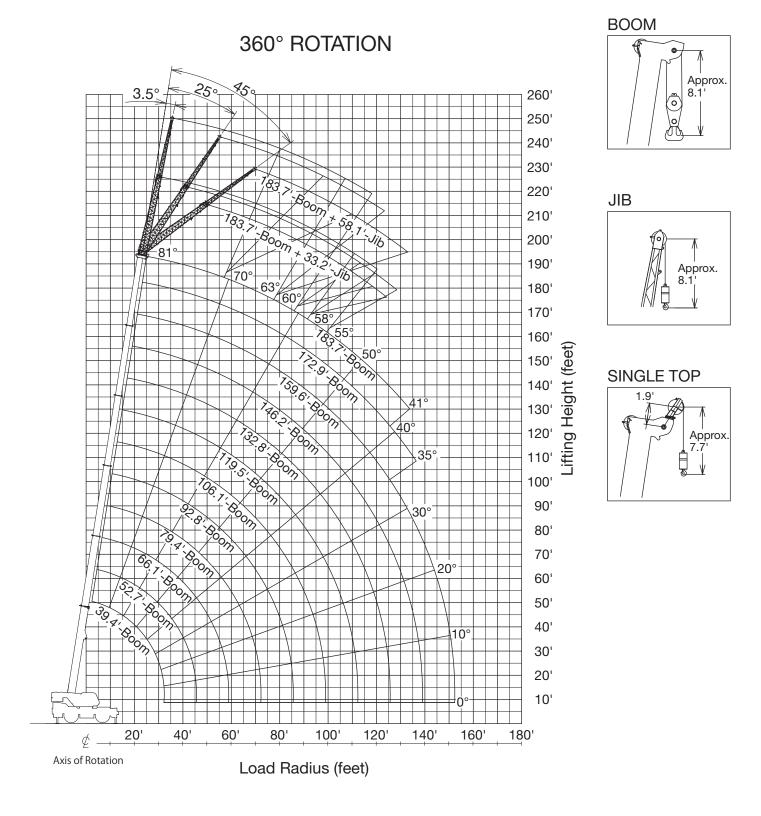
- Maximum permissible line pull wire strength. 15,900 lbs (7,200 kg) with 7 x 35 class rope.
- Line speed based only on hook block, not loaded.
- Developed by machinery with each layer of wire rope, but not based on rope strength or other limitations in machinery or equipment.
- Seventh layer of wire rope are not recommended for hoisting operations

DRUM \	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

GR-1200XL WORKING RANGE CHART

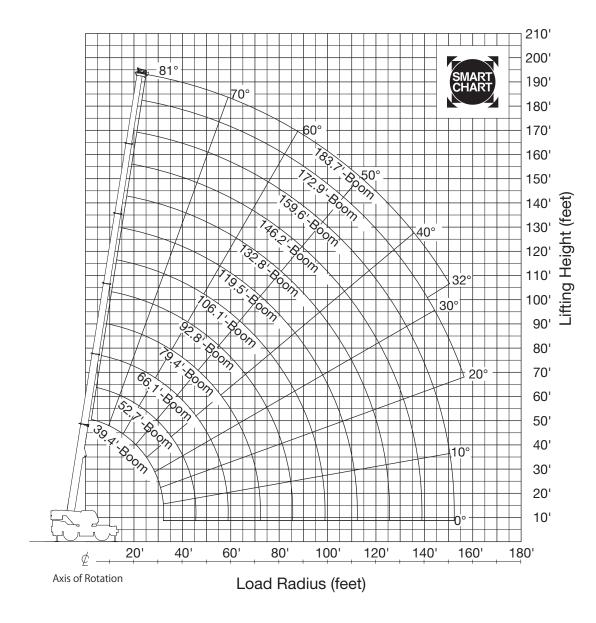


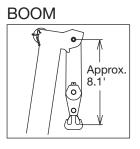
NOTE: Boom and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface.

Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.

GR-1200XL WORKING RANGE CHART

SMART CHART







NOTE: Boom and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface.

Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.

					ON OUT			22,000 lbs		ODDEAD				
					ON OUT	HIGGERS FU	360° RC	IDED 23'11-3 TATION	3/8" (7.3 m) i	SPREAD				
A	1	10	1	10	11	2	1	11	12	2	1	12	2	1
В	1	24	2	25	26	12	3	27	28	13	4	29	14	5
0	39.4' (12.0m)	52 (16.			66 (20.				79 (24.:				92.8' (28.3m)	
8'	*242,500	143,300	77,200							· ·				
10'	180,300	143,300	77,200	136,900	110,200	77,200	63,100							
12'	159,000	143,300	77,200	127,400	110,200	77,200	57,800	106,300	106,300	77,200	61,100			
15'	133,200	132,700	72,100	115,300	110,200	77,200	51,400	97,000	106,300	77,200	55,100	80,700	69,900	48,100
20'	101,400	100,500	62,200	97,200	101,400	68,100	43,400	81,800	102,300	71,400	47,400	71,700	69,900	42,500
25'	78,000	77,200	54,900	76,700	77,800	60,800	37,500	70,500	78,700	64,600	41,700	62,400	65,700	37,900
30'	60,800	59,700	49,400	58,900	60,600	55,300	33,100	60,000	61,900	59,100	37,300	54,700	60,400	34,000
35'		45,600	45,000	44,800	46,500	50,700	29,500	45,600	47,800	52,900	33,500	47,000	52,500	30,400
40'		35,100	39,900	34,200	35,900	41,400	26,700	35,100	37,300	41,900	30,600	36,400	41,400	27,600
45'		27,800	32,200	26,900	28,700	33,700	24,500	27,800	29,800	34,200	28,200	28,900	33,700	25,400
50'				21,600	23,100	28,200	22,500	22,300	24,300	28,400	26,000	23,400	28,000	23,400
55'				17,400	19,000	23,800	20,900	18,100	20,100	24,000	24,300	19,200	23,800	21,600
60'								15,000	16,800	20,700	21,800	15,900	20,300	20,100
65'								12,300	14,100	17,900	19,000	13,200	17,400	18,700
70'								10,100	11,900	15,700	16,800	11,000	15,200	16,800
75'												9,300	13,200	15,000
80'												7,700	11,700	13,200
85'												6,400	10,400	11,900
90'														
95'														
100'														
105'														
110'														
115'														
120'														
125'														
130'														
135'														
140'														
145'														
Е	42,100	41,900	44,100	34,000	39,700	44,100	35,100	35,100	39,200	41,000	35,900	35,300	38,100	35,900
F	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		· · · · · · · · · · · · · · · · · · ·				Telesc	oping condi	tions (%)						
Tele.1	0	46	0	92	46	0	0	92	46	0	0	92	0	0
Tele.2	0	0	0	0	46	0	0	46	46	0	0	46	46	0
Tele.3	0	0	0	0	0	0	0	0	46	46	0	46	46	0
Tele.4	0	0	0	0	0	46	0	0	0	46	46	0	46	92
Tele.5	0	0	46	0	0	46	92	0	0	46	92	0	46	92
G	16	10	6	9	8	6	6	7	7	6	5	6	5	4

						ON OUT		TERWEIGHT		(10.0 t) 3/8'' (7.3 m)	SPREAD					
						000.			TATION	0,0 (1.011)	01 112 12					
Α	13	2	1	2	3	1	5	4	1	6	7	1	8	1	1	9
В	30	15	6	16	17	7	19	18	8	20	21	9	22	10	11	23
C		106.1'			119.5'			132.8'			146.2'		159	9.6'	172.9'	183.7'
D		(32.4m)			(36.4m)			(40.5m)			(44.6m)		(48.	6m)	(52.7m)	(56.0m)
8'																
10'																
12'																
15'																
20'	60,400	56,200	41,200		41,000											
25'	55,100	56,200	37,700	45,600	41,000	33,100	37,300	31,700	31,100							
30'	49,800	56,200	34,400	43,900	41,000	30,200	37,300	31,700	29,100	31,700	27,300	26,500	05.000	00.100	00.700	
35' 40'	44,500	51,600 40,600	31,100	40,100	39,200	27,300	35,700	30,900 28,900	27,100	30,900	26,500	26,000	25,600	23,100	20,700	10.100
	38,100		28,200	36,600	36,800	25,100	32,800		25,100	28,900	24,900	24,500	25,600	23,100		18,100
45' 50'	30,400 24,900	32,800 27,300	26,000 24,000	32,000 26,500	34,200 28,400	22,900 21,200	30,000 26,200	27,100 25,400	23,100 21,600	26,900 24,900	23,400 21,800	23,100 21,600	24,300 22,700	22,500 21,400	20,700 20,500	18,100 18,100
55'	20,700	22,900	22,300	20,500	24,000	19.600	26,200	23,800	20,100	22,300	20,500	20,300	21,400	20,300	19,600	17,900
60'	17,400	19.400	20,700	18.500	20,500	18,300	18.500	20,900	19.000	18,700	19,400	19.200	19.400	19,400	18,500	17,900
65'	14,600	16,800	19.400	15,900	17.600	17.000	15,900	18.100	17,600	16,700	18,300	18,100	16,500	17,900	17,200	16,300
70'	12,300	14,300	17,200	13,400	15,400	15,900	13,400	15,100	16.800	13,700	15,900	16,100	14.300	15,700	14.800	14,800
75'	10,400	12,600	15,200	11,700	13,400	15,900	11,500	13,900	14.800	11.900	13,900	14,100	12,300	13,700	12,800	12,800
80'	8.800	10.800	13,400	9.900	11,700	13,200	9.900	12,100	13.000	10.100	12,300	12,300	10,600	11.900	11,200	11,200
85'	7,500	9,500	12,100	8,600	10,400	11,700	8,400	10,800	11,500	8,800	10,800	11,000	9,300	10,600	9,700	9,700
90'	6,200	8,200	10.800	7.300	9.000	10,600	7.300	9.500	10,400	7.500	9.500	9.700	7.900	9,300	8,600	8,600
95'	5,100	7.100	9.700	6.200	7.900	9,500	6.200	8,400	9.300	6.400	8,400	8,600	6.800	8,200	7.500	7,500
100'	0,100	7,100	5,700	5.300	7,100	8,400	5.300	7.500	8.200	5.500	7.500	7.700	6.000	7,300	6,400	6,400
105'				4.600	6.200	7.500	4,400	6,600	7.300	4.600	6,600	6.800	5.100	6,400	5,500	5,500
110'				3,700	5,500	6.800	3,700	5,700	6,600	3,700	6.000	6.000	4,200	5,500	4,900	4,900
115'				-,	-,	-,	3,100	5,100	6,000	3,100	5,100	5,300	3,500	4,900	4,200	4,200
120'							2,400	4,600	5,300	2,600	4,600	4,600	3,100	4,200	3,500	3,500
125'							2,000	4,200	4,900	2,000	4,000	4,200	2,400	3,700	2,900	2,900
130'											3,500	3,700	2,000	3,100	2,400	2,400
135'											3,100	3,300		2,600	2,000	
140'														2,200		
145'														2,000		
Е	35,300	38,100	36,800	34,000	34,000	33,100	31,700	30,400	30,600	27,300	27,300	26,500	25,600	23,100	20,700	18,100
F	0	0	0	0	0	0	0	0	0	21	0	0	30	0	35	41
								oping condi								
Tele.1	92	46	0	92	46	0	92	46	0	92	46	0	92	46	92	100
Tele.2	46	46	0	46	46	0	92	46	46	92	46	92	92	92	92	100
Tele.3	46	46	46	46	46	92	46	46	92	92	92	92	92	92	92	100
Tele.4	46	46	92	46	46	92	46	92	92	46	92	92	92	92	92	100
Tele.5	0	46	92	46	92	92	46	92	92	46	92	92	46	92	92	100
G	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

*Over front with special equipment

A: Boom block B: Boom number C :Boom length (feet) D :Load radius (feet)

E :Maximum capacity without boom pin F :Minimum boom angle (°) for indicated length (no load) G :Number of parts of line

Note: The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-C) is based on the standard number of parts of line listed in the chart.

SMART					ON OUT		TERWEIGHT JLLY EXTEN Smart	DED 23'11-3		SPREAD				
Α	1	10	1	10	11	2	1	11	12	2	1	12	2	1
В	1	24	2	25	26	12	3	27	28	13	4	29	14	5
C	39.4' (12.0m)	52. (16.			66 (20.				79 (24.:				92.8' (28.3m)	
8'	*242,500	143,300	77,200											
10'	180,300	143,300	77,200	136,900	110,200	77,200	63,100							
12'	159,000	143,300	77,200	127,400	110,200	77,200	57,800	106,300	106,300	77,200	61,100			
15'	133,200	132,700	72,100	115,300	110,200	77,200	51,400	97,000	106,300	77,200	55,100	80,700	69,900	48,100
20'	101,400	100,500	62,200	97,200	101,400	68,100	43,400	81,800	102,300	71,400	47,400	71,700	69,900	42,500
25'	78,000	77,200	54,900	76,700	77,800	60,800	37,500	70,500	78,700	64,600	41,700	62,400	65,700	37,900
30'	60,800	59,700	49,400	58,900	60,600	55,300	33,100	60,000	61,900	59,100	37,300	54,700	60,400	34,000
35'		47,200	45,000	46,300	48,100	50,700	29,500	47,200	49,200	53,100	33,500	48,500	53,400	30,400
40'		38,100	41,700	37,300	39,000	44,100	26,700	38,100	40,100	44,500	30,600	39,500	44,100	27,600
45'		31,500	35,700	30,600	32,200	37,300	24,500	31,300	33,300	37,500	28,200	32,600	37,300	25,400
50'				25,400	26,900	32,000	22,500	26,200	28,000	32,200	26,000	27,300	31,700	23,400
55'				21,400	22,900	27,600	20,900	22,000	23,800	28,000	24,300	23,100	27,600	21,600
60'								18,500	20,500	24,500	22,900	19,600	24,000	20,100
65'								15,400	17,400	21,400	21,600	16,500	20,900	18,700
70'								13,000	14,800	18,700	19,800	13,900	18,300	17,600
75'												11,900	16,100	16,500
80'												9,900	14,100	15,900
85'												8,600	12,600	14,100
90'														
95'														
100'														
105'														
110'														
115'														
120'														
125'														
130'														
135'														
140'														
145'														
150'														
E	42,100	41,900	44,100	34,000	39,700	44,100	35,100	35,100	39,200	41,000	35,900	35,300	38,100	35,900
F	0	0	0	0	0	0	0	0	0	0	0	0	0	0
						Telesc	oping condi	tions (%)					-	
Tele.1	0	46	0	92	46	0	0	92	46	0	0	92	0	0
Tele.2	0	0	0	0	46	0	0	46	46	0	0	46	46	0
Tele.3	0	0	0	0	0	0	0	0	46	46	0	46	46	0
Tele.4	0	0	0	0	0	46	0	0	0	46	46	0	46	92
Tele.5	0	0	46	0	0	46	92	0	0	46	92	0	46	92
G	16	10	6	9	8	6	6	7	7	6	5	6	5	4

SMART						ON OUT	COUNT RIGGERS FL				SPREAD					
А	13	2	1	2	3	1	5	4	1	6	7	1	8	1	1	9
В	30	15	6	16	17	7	19	18	8	20	21	9	22	10	11	23
_\ c		106.1'			119.5'			132.8'			146.2'		159		172.9'	183.7'
D		(32.4m)			(36.4m)			(40.5m)			(44.6m)		(48.	6m)	(52.7m)	(56.0m)
8' 10'																
12'																
15'																
20'	60,400	56,200	41,200		41,000											
25'	55,100	56,200	37,700	45.600	41,000	33,100	37.300	31.700	31,100							
30'	49,800	56,200	34,400	43,900	41,000	30,200	37,300	31,700	29,100	31,700	27,300	26,500				
35'	44,500	52,500	31,100	40,100	39,200	27,300	35,700	30,900	27,100	30,900	26,500	26,000	25,600	23,100	20,700	
40'	40,100	43,400	28,200	36,600	36,800	25,100	32,800	28,900	25,100	28,900	24,900	24,500	25,600	23,100	20,700	18,100
45'	34,200	36,400	26,000	33,500	34,400	22,900	30,000	27,100	23,100	26,900	23,400	23,100	24,300	22,500	20,700	18,100
50'	28,900	31,100	24,000	30,200	32,200	21,200	27,800	25,400	21,600	24,900	21,800	21,600	22,700	21,400	20,500	18,100
55'	24,500	26,700	22,300	25,800	27,800	19,600	25,800	23,800	20,100	23,100	20,500	20,300	21,400	20,300	19,600	17,900
60'	20,900	23,400	20,700	22,300	24,300	18,300	22,300	22,500	19,000	21,400	19,400	19,200	19,800	19,400	18,500	17,000
65'	17,900	20,100	19,400	19,200	21,200	17,000	19,200	21,200	17,600	19,400	18,300	18,100	18,700	18,300	17,400	16,300
70'	15,200	17,400	18,100	16,500	18,500	15,900	16,500	19,000	16,800	16,800	17,200	17,200	17,200	17,400	16,500	15,400
75' 80'	13,000	15,200	17,200	14,300	16,300	15,000	14,300	16,800	15,700 15,000	14,600	16,300	16,100	15,000	16,300	15,700	14,600
85'	11,200 9,700	13,200 11,700	16,100 14,300	12,300 10,800	14,300 12,600	14,100 13,200	12,300 10,800	14,800 13,000	13,900	12,600 11,000	14,800 13,000	15,000 13,200	13,000 11,500	14,600 12,800	13,700 12,100	13,700 12,100
90'	8,400	10,400	13,000	9,500	11,200	12,600	9,300	11,700	12,300	9,500	11,700	11,900	10,100	11,500	10,600	10,600
95'	7,100	9,000	11,700	8,200	9,900	11,500	8,200	10,400	11,200	8,400	10,400	10,600	8,800	10,100	9.500	9,300
100'	7,100	5,000	11,700	7,100	8,800	10,400	7,100	9,300	10,100	7,300	9,300	9.500	7,700	9,000	8,400	8,200
105'	<u> </u>)o/	/200)	6,200	7,900	9,300	6,200	8,400	9,000	6,400	8,400	8,600	6,800	7,900	7,300	7,300
110'	\neg \times	, A	$\langle \Theta \rangle$	5,300	7,100	8,600	5,300	7,500	8,200	5,500	7,500	7,700	6,000	7,300	6,400	6,400
115'		\mathbb{R}^{1}	5/1 I				4,400	6,600	7,500	4,600	6,600	6,800	5,100	6,400	5,700	5,700
120'							3,700	6,000	6,800	4,000	6,000	6,200	4,400	5,700	5,100	4,900
125'	_ ��:						3,300	5,500	6,200	3,300	5,300	5,500	3,700	5,100	4,400	4,200
130'	_	π∠ /i∀	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							2,900	4,900	5,100	3,300	4,400	3,700	3,700
135'	_ /	KY ' '	X [N							2,400	4,400	4,400	2,600	4,000	3,300	3,100
140'	$- $ \wedge	<u> </u>	2001										2,200	3,500	2,600	2,600
145' 150'		<u>'</u>												3,100	2,200	2,200
150°	35.300	38.100	36.800	34.000	24.000	33.100	31,700	30.400	30.600	27.300	07 200	26,500	25.600	2,600 23,100	2,000 20,700	10.100
F	0	0	0 36,800	0	34,000 0	0	0	0	0 30,600	0	27,300 0	26,500	25,600	0	20,700	18,100 32
	U	U	U	U	U	U		oping condi		U	U	U	U	U	20	32
Tele.1	92	46	0	92	46	0	92	46	0	92	46	0	92	46	92	100
Tele.2	46	46	0	46	46	0	92	46	46	92	46	92	92	92	92	100
Tele.3	46	46	46	46	46	92	46	46	92	92	92	92	92	92	92	100
Tele.4	46	46	92	46	46	92	46	92	92	46	92	92	92	92	92	100
Tele.5	0	46	92	46	92	92	46	92	92	46	92	92	46	92	92	100
G	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

*Over front with special equipment

A: Boom block C :Boom length (feet) B: Boom number D :Load radius (feet)

E :Maximum capacity without boom pin F :Minimum boom angle (°) for indicated length (no load)

G:Number of parts of line

Note: The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-C) is based on the standard number of parts of line listed in the chart.

COUNTERWEIGHT 22,000 lbs (10.0 t) ON OUTRIGGERS FULLY EXTENDED 23'11-3/8" (7.3 m) SPREAD 360° ROTATION

						360	
		183.7' (56.0	m) + 33.2' (10.1 m) Mar	ual offset jib)	
С	3.5°	Tilt	25°	Tilt	45° Tilt		
	R	W	R	W	R	W	
81	45.7'	9,900	57.0'	8,600	67.2'	7,900	
80	50.2'	9,900	60.8'	8,400	70.8'	7,700	
79	54.6'	9,700	64.8'	8,200	74.5'	7,500	
78	59.0'	9,500	68.5'	7,900	78.0'	7,300	
77	62.6'	9,000	72.5'	7,700	82.0'	7,100	
76	66.8'	8,800	76.6'	7,700	85.0'	7,100	
75	71.2'	8,600	80.4'	7,500	89.0'	6,800	
73	79.0'	8,200	88.0'	7,100	96.0'	6,600	
70	91.0'	7,500	99.0'	6,600	106.0'	6,400	
68	99.0'	7,100	106.0'	6,400	113.0'	6,200	
65	108.0'	5,500	115.0'	5,100	122.0'	5,100	
63	113.0'	4,400	121.0'	4,200	127.0'	4,200	
60	122.0'	3,300	129.0'	3,300	135.0'	3,300	
58	127.0'	2,600	134.0'	2,600	140.0'	2,600	
55	135.0'	1,800	142.0'	1,800			
53							
50							

	172	.9' (52.7 m)	Boom + 33.	2' (10.1 m) N	Manual offse	et jib
С						
	R	W	R	W	R	W
81	43.7'	11,000	55.0'	9,500	63.5'	8,400
80	47.4'	11,000	58.2'	9,300	66.8'	8,400
79	51.2'	10,800	61.8'	9,000	70.1'	8,200
78	55.3'	10,600	65.4'	8,800	73.4'	7,900
77	57.7'	10,100	68.9'	8,600	77.0'	7,700
76	62.6'	9,900	72.4'	8,400	80.0'	7,500
75	66.2'	9,700	75.9'	8,200	83.0'	7,500
73	73.3'	9,000	83.0'	7,700	90.0'	7,300
70	84.1'	8,400	93.0'	7,300	100.0'	6,800
68	91.0'	7,900	100.0'	7,100	106.0'	6,600
65	101.0'	7,100	110.0'	6,400	115.0'	6,200
63	107.0'	6,000	116.0'	5,300	120.0'	5,300
60	116.0'	4,600	123.0'	4,200	127.0'	4,200
58	121.0'	3,700	130.0'	3,500	132.0'	3,500
55	129.0'	2,900	135.0'	2,600	139.0'	2,600
53	134.0'	2,200	140.0'	2,200	143.0'	2,200
50	141.0'	1,500	147.0'	1,500		

COUNTERWEIGHT 22,000 lbs (10.0 t) ON OUTRIGGERS FULLY EXTENDED 23'11-3/8" (7.3 m) SPREAD 360° ROTATION

C 159.6' (48.6 m) Boom + 33.2' (10.1 m) Manual offset jib R W R				3							
R	_										
81 39.9' 13,200 51.3' 11,500 59.7' 9,900 80 43.3' 13,200 54.3' 11,000 62.6' 9,700 79 47.4' 13,200 57.6' 10,800 65.9' 9,700 78 51.0' 13,000 60.9' 10,600 69.0' 9,500 76 57.6' 12,100 67.5' 10,100 72.0' 9,300 75 61.0' 11,900 70.7' 9,900 79.0' 9,000 75 61.0' 11,900 70.7' 9,900 79.0' 9,000 75 61.0' 11,900 70.7' 9,900 79.0' 9,000 73 67.5' 10,100 87.0' 9,000 94.0' 8,400 70 77.6' 10,100 87.0' 9,000 94.0' 8,400 68 84.2' 9,700 93.0' 8,600 10.0' 8,200 65 93.0' 8,200	С	3.5	? Tilt	25°	' Tilt	45°	' Tilt				
80 43.3' 13,200 54.3' 11,000 62.6' 9,700 79 47.4' 13,200 57.6' 10,800 65.9' 9,700 78 51.0' 13,000 60.9' 10,600 69.0' 9,500 77 54.3' 12,600 64.2' 10,400 72.0' 9,300 76 57.6' 12,100 67.5' 10,100 75.0' 9,000 75 61.0' 11,900 70.7' 9,900 79.0' 9,000 73 67.5' 11,000 77.5' 9,500 84.0' 8,600 70 77.6' 10,100 87.0' 9,000 94.0' 8,400 68 84.2' 9,700 93.0' 8,600 10.0' 8,200 65 93.0' 8,200 102.0' 7,300 107.0' 7,100 63 99.0' 7,100 107.0' 6,400 112.0' 6,200 60 107.0' 5,500		R	W	R	W	R	W				
79 47.4' 13,200 57.6' 10,800 65.9' 9,700 78 51.0' 13,000 60.9' 10,600 69.0' 9,500 77 54.3' 12,600 64.2' 10,400 72.0' 9,300 76 57.6' 12,100 67.5' 10,100 75.0' 9,000 75 61.0' 11,900 70.7' 9,900 79.0' 9,000 73 67.5' 11,000 77.5' 9,500 84.0' 8,600 70 77.6' 10,100 87.0' 9,000 94.0' 8,400 68 84.2' 9,700 93.0' 8,600 100.0' 8,200 65 93.0' 8,200 102.0' 7,300 107.0' 7,100 63 99.0' 7,100 107.0' 6,400 112.0' 6,200 60 107.0' 5,500 115.0' 5,100 118.0' 4,900 58 113.0' 4,600	81	39.9'	13,200	51.3'	11,500	59.7'	9,900				
78 51.0' 13,000 60.9' 10,600 69.0' 9,500 77 54.3' 12,600 64.2' 10,400 72.0' 9,300 76 57.6' 12,100 67.5' 10,100 75.0' 9,000 75 61.0' 11,900 70.7' 9,900 79.0' 9,000 70 77.6' 10,100 87.0' 9,000 94.0' 8,400 68 84.2' 9,700 93.0' 8,600 100.0' 8,200 65 93.0' 8,200 102.0' 7,300 107.0' 7,100 63 99.0' 7,100 107.0' 6,400 112.0' 6,200 60 107.0' 5,500 115.0' 5,100 118.0' 4,900 58 113.0' 4,600 119.0' 4,400 123.0' 4,200 53 124.0' 3,100 131.0' 2,900 134.0' 2,900 50 131.0' 2,200	80	43.3'	13,200	54.3'	11,000	62.6'	9,700				
77 54.3' 12,600 64.2' 10,400 72.0' 9,300 76 57.6' 12,100 67.5' 10,100 75.0' 9,000 75 61.0' 11,900 70.7' 9,900 79.0' 9,000 73 67.5' 11,000 77.5' 9,500 84.0' 8,600 70 77.6' 10,100 87.0' 9,000 94.0' 8,400 68 84.2' 9,700 93.0' 8,600 100.0' 8,200 65 93.0' 8,200 102.0' 7,300 107.0' 7,100 63 99.0' 7,100 107.0' 5,100 118.0' 4,900 60 107.0' 5,500 115.0' 5,100 118.0' 4,900 58 113.0' 4,600 119.0' 4,400 123.0' 4,200 55 120.0' 3,500 126.0' 3,300 129.0' 3,300 50 131.0' 2,200	79	47.4'	13,200	57.6'	10,800	65.9'	9,700				
76 57.6' 12,100 67.5' 10,100 75.0' 9,000 75 61.0' 11,900 70.7' 9,900 79.0' 9,000 73 67.5' 11,000 77.5' 9,500 84.0' 8,600 70 77.6' 10,100 87.0' 9,000 94.0' 8,400 68 84.2' 9,700 93.0' 8,600 100.0' 8,200 65 93.0' 8,200 102.0' 7,300 107.0' 7,100 63 99.0' 7,100 107.0' 6,400 112.0' 6,200 60 107.0' 5,500 115.0' 5,100 118.0' 4,900 58 113.0' 4,600 119.0' 4,400 123.0' 4,200 55 120.0' 3,500 126.0' 3,300 129.0' 3,300 53 124.0' 3,100 131.0' 2,900 134.0' 2,900 48 136.0' 1,800	78	51.0'	13,000	60.9'	10,600	69.0'	9,500				
75 61.0' 11,900 70.7' 9,900 79.0' 9,000 73 67.5' 11,000 77.5' 9,500 84.0' 8,600 70 77.6' 10,100 87.0' 9,000 94.0' 8,400 68 84.2' 9,700 93.0' 8,600 100.0' 7,100 65 93.0' 8,200 102.0' 7,300 107.0' 7,100 63 99.0' 7,100 107.0' 6,400 112.0' 6,200 60 107.0' 5,500 115.0' 5,100 118.0' 4,900 58 113.0' 4,600 119.0' 4,400 123.0' 4,200 55 120.0' 3,500 126.0' 3,300 129.0' 3,300 53 124.0' 3,100 131.0' 2,900 134.0' 2,900 48 136.0' 1,800 141.0' 1,800 144.0' 1,800 43 40 43	77	54.3'	12,600	64.2'	10,400	72.0'	9,300				
73 67.5' 11,000 77.5' 9,500 84.0' 8,600 70 77.6' 10,100 87.0' 9,000 94.0' 8,400 68 84.2' 9,700 93.0' 8,600 100.0' 8,200 65 93.0' 8,200 102.0' 7,300 107.0' 7,100 63 99.0' 7,100 107.0' 6,400 112.0' 6,200 60 107.0' 5,500 115.0' 5,100 118.0' 4,900 58 113.0' 4,600 119.0' 4,400 123.0' 4,200 55 120.0' 3,500 126.0' 3,300 129.0' 3,300 53 124.0' 3,100 131.0' 2,200 134.0' 2,900 50 131.0' 2,200 137.0' 2,200 140.0' 2,200 48 136.0' 1,800 141.0' 1,800 144.0' 1,800 43 40 40	76	57.6'	12,100	67.5'	10,100	75.0'	9,000				
70 77.6' 10,100 87.0' 9,000 94.0' 8,400 68 84.2' 9,700 93.0' 8,600 100.0' 8,200 65 93.0' 8,200 102.0' 7,300 107.0' 7,100 63 99.0' 7,100 107.0' 6,400 112.0' 6,200 60 107.0' 5,500 115.0' 5,100 118.0' 4,900 58 113.0' 4,600 119.0' 4,400 123.0' 4,200 55 120.0' 3,500 126.0' 3,300 129.0' 3,300 53 124.0' 3,100 131.0' 2,200 134.0' 2,900 50 131.0' 2,200 137.0' 2,200 140.0' 2,200 48 136.0' 1,800 141.0' 1,800 144.0' 1,800 43 40 38 35 33 33 33 33 30 25 20	75	61.0'	11,900	70.7'	9,900	79.0'	9,000				
68 84.2' 9,700 93.0' 8,600 100.0' 8,200 65 93.0' 8,200 102.0' 7,300 107.0' 7,100 63 99.0' 7,100 107.0' 6,400 112.0' 6,200 60 107.0' 5,500 115.0' 5,100 118.0' 4,900 58 113.0' 4,600 119.0' 4,400 123.0' 4,200 55 120.0' 3,500 126.0' 3,300 129.0' 3,300 50 131.0' 2,200 137.0' 2,900 134.0' 2,900 48 136.0' 1,800 141.0' 1,800 144.0' 1,800 45 142.0' 1,300 43 40 43 40 43 38 35 33 33 33 33 33 25 20 20 40 40 40 40 40 40 40 40 40 40	73	67.5'	11,000	77.5'	9,500	84.0'	8,600				
65 93.0' 8,200 102.0' 7,300 107.0' 7,100 63 99.0' 7,100 107.0' 6,400 112.0' 6,200 60 107.0' 5,500 115.0' 5,100 118.0' 4,900 58 113.0' 4,600 119.0' 4,400 123.0' 4,200 55 120.0' 3,500 126.0' 3,300 129.0' 3,300 53 124.0' 3,100 131.0' 2,900 134.0' 2,900 50 131.0' 2,200 137.0' 2,200 140.0' 2,200 48 136.0' 1,800 141.0' 1,800 144.0' 1,800 45 142.0' 1,300 43 40 38 35 36 37 38 38 39 25 20	70	77.6'	10,100	87.0'	9,000	94.0'	8,400				
63 99.0' 7,100 107.0' 6,400 112.0' 6,200 60 107.0' 5,500 115.0' 5,100 118.0' 4,900 58 113.0' 4,600 119.0' 4,400 123.0' 4,200 55 120.0' 3,500 126.0' 3,300 129.0' 3,300 53 124.0' 3,100 131.0' 2,900 134.0' 2,900 50 131.0' 2,200 137.0' 2,200 140.0' 2,200 48 136.0' 1,800 141.0' 1,800 144.0' 1,800 45 142.0' 1,300 4 4 40 4 4 38 35 33 33 33 33 30 25 20 4 </td <td>68</td> <td>84.2'</td> <td>9,700</td> <td>93.0'</td> <td>8,600</td> <td>100.0'</td> <td>8,200</td>	68	84.2'	9,700	93.0'	8,600	100.0'	8,200				
60 107.0' 5,500 115.0' 5,100 118.0' 4,900 58 113.0' 4,600 119.0' 4,400 123.0' 4,200 55 120.0' 3,500 126.0' 3,300 129.0' 3,300 53 124.0' 3,100 131.0' 2,900 134.0' 2,900 50 131.0' 2,200 137.0' 2,200 140.0' 2,200 48 136.0' 1,800 141.0' 1,800 144.0' 1,800 45 142.0' 1,300 43 43 40 43 40 43 40 43 40 43 43 40 43 40	65	93.0'	8,200	102.0'	7,300	107.0'	7,100				
58 113.0' 4,600 119.0' 4,400 123.0' 4,200 55 120.0' 3,500 126.0' 3,300 129.0' 3,300 53 124.0' 3,100 131.0' 2,900 134.0' 2,900 50 131.0' 2,200 137.0' 2,200 140.0' 2,200 48 136.0' 1,800 141.0' 1,800 144.0' 1,800 45 142.0' 1,300 43 40 43 40 43 40 43 40 43 40 43 40 43 40	63	99.0'	7,100	107.0'	6,400	112.0'	6,200				
55 120.0' 3,500 126.0' 3,300 129.0' 3,300 53 124.0' 3,100 131.0' 2,900 134.0' 2,900 50 131.0' 2,200 137.0' 2,200 140.0' 2,200 48 136.0' 1,800 141.0' 1,800 144.0' 1,800 45 142.0' 1,300 43 40 43 40 43 40 43 40 43 40 43 40	60	107.0'	5,500	115.0'	5,100	118.0'	4,900				
53 124.0' 3,100 131.0' 2,900 134.0' 2,900 50 131.0' 2,200 137.0' 2,200 140.0' 2,200 48 136.0' 1,800 141.0' 1,800 144.0' 1,800 45 142.0' 1,300 43 40 43 40 43 40 43 40 43 40 43 40 43 40 43 40	58	113.0'	113.0' 4,600		4,400	123.0'	4,200				
50 131.0' 2,200 137.0' 2,200 140.0' 2,200 48 136.0' 1,800 141.0' 1,800 144.0' 1,800 45 142.0' 1,300 43 44 40 43 43 40 43 43 40 43 43 40 43 40 43 40 43 40	55	120.0'	3,500	126.0'	3,300	129.0'	3,300				
48 136.0' 1,800 141.0' 1,800 144.0' 1,800 45 142.0' 1,300 144.0' 1,800 43 40 38 35 33 33 30 25 20	53	124.0'	3,100	131.0'	2,900	134.0'	2,900				
45 142.0' 1,300 43 40 38 35 33 30 25 20	50	131.0'	2,200	137.0'	2,200	140.0'	2,200				
43 40 38 35 33 30 25 20	48	136.0'	1,800	141.0'	1,800	144.0'	1,800				
40	45	142.0'	1,300								
38 35 33 30 25 20 20 20 20 20 20 20 20 20 20 20 20 20	43										
35 33 30 25 20	40										
33 30 25 20 20 20 20 20 20 20 20 20 20 20 20 20	38										
30 25 20	35										
25 20	33										
20	30										
	25										
15	20										
	15										
10	10										

81 22.7' 14,600 36.6' 14,600 43.0' 10 80 25.4' 14,600 39.0' 14,100 45.5' 10 79 27.9' 14,600 41.6' 13,900 47.9' 10 78 30.6' 14,600 44.2' 13,400 50.1' 10 77 33.3' 14,600 46.7' 13,200 52.2' 10 76 35.8' 14,600 49.2' 12,800 54.4' 10 75 38.4' 14,600 51.5' 12,600 56.5' 9, 73 43.5' 14,600 56.0' 12,100 60.6' 9,	W ,800 ,600 ,600 ,400
R W R W R 81 22.7' 14,600 36.6' 14,600 43.0' 10 80 25.4' 14,600 39.0' 14,100 45.5' 10 79 27.9' 14,600 41.6' 13,900 47.9' 10 78 30.6' 14,600 44.2' 13,400 50.1' 10 77 33.3' 14,600 46.7' 13,200 52.2' 10 76 35.8' 14,600 49.2' 12,800 54.4' 10 75 38.4' 14,600 51.5' 12,600 56.5' 9, 73 43.5' 14,600 56.0' 12,100 60.6' 9,	,800 ,600 ,600 ,400
81 22.7' 14,600 36.6' 14,600 43.0' 10 80 25.4' 14,600 39.0' 14,100 45.5' 10 79 27.9' 14,600 41.6' 13,900 47.9' 10 78 30.6' 14,600 44.2' 13,400 50.1' 10 77 33.3' 14,600 46.7' 13,200 52.2' 10 76 35.8' 14,600 49.2' 12,800 54.4' 10 75 38.4' 14,600 51.5' 12,600 56.5' 9, 73 43.5' 14,600 56.0' 12,100 60.6' 9,	,800 ,600 ,600 ,400
80 25.4' 14,600 39.0' 14,100 45.5' 10 79 27.9' 14,600 41.6' 13,900 47.9' 10 78 30.6' 14,600 44.2' 13,400 50.1' 10 77 33.3' 14,600 46.7' 13,200 52.2' 10 76 35.8' 14,600 49.2' 12,800 54.4' 10 75 38.4' 14,600 51.5' 12,600 56.5' 9, 73 43.5' 14,600 56.0' 12,100 60.6' 9,	,600 ,600 ,400
79 27.9' 14,600 41.6' 13,900 47.9' 10 78 30.6' 14,600 44.2' 13,400 50.1' 10 77 33.3' 14,600 46.7' 13,200 52.2' 10 76 35.8' 14,600 49.2' 12,800 54.4' 10 75 38.4' 14,600 51.5' 12,600 56.5' 9, 73 43.5' 14,600 56.0' 12,100 60.6' 9,	,600 ,400
78 30.6' 14,600 44.2' 13,400 50.1' 10 77 33.3' 14,600 46.7' 13,200 52.2' 10 76 35.8' 14,600 49.2' 12,800 54.4' 10 75 38.4' 14,600 51.5' 12,600 56.5' 9, 73 43.5' 14,600 56.0' 12,100 60.6' 9,	,400
77 33.3' 14,600 46.7' 13,200 52.2' 10 76 35.8' 14,600 49.2' 12,800 54.4' 10 75 38.4' 14,600 51.5' 12,600 56.5' 9, 73 43.5' 14,600 56.0' 12,100 60.6' 9,	
76 35.8' 14,600 49.2' 12,800 54.4' 10 75 38.4' 14,600 51.5' 12,600 56.5' 9, 73 43.5' 14,600 56.0' 12,100 60.6' 9,	100
75 38.4' 14,600 51.5' 12,600 56.5' 9, 73 43.5' 14,600 56.0' 12,100 60.6' 9,	,100
73 43.5' 14,600 56.0' 12,100 60.6' 9,	,100
	900
70 51.0' 14,600 62.9' 11,700 66.7' 9.	900
	700
	500
	300
63 67.0' 14,600 77.5' 10,600 80.2' 9,	300
	300
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	000
	000
	800
	200
	300
43 104.0' 7,500 110.0' 7,100	
40 108.0' 6,600 114.0' 6,400	
38 111.0' 6,200 116.0' 6,000	
35 115.0' 5,700 120.0' 5,500	
33 117.0' 5,300 122.0' 5,100	
30 121.0' 4,900 124.0' 4,600	
25 125.0' 4,200 128.0' 4,200	
20 129.0' 3,700	
15 132.0' 3,500	
10 134.0' 3,300	

C: Loaded boom angle (°)

R: Load radius in feet

W: Rated lifting capacity in pounds

NOTE: The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-C) is based on the standard number of parts of line listed in the chart.

COUNTERWEIGHT 22,000 lbs (10.0 t) ON OUTRIGGERS FULLY EXTENDED 23'11-3/8" (7.3 m) SPREAD 360° ROTATION

						360
	1	83.7' (56.0 n	n) Boom + 58	3.1' (17.7 m)	Manual offs	et jib
С	3.59	° Tilt	25°	' Tilt	45°	' Tilt
	R	R W		W	R	W
81	53.1'	6,400	75.3'	6,000	89.8'	5,100
80	58.1'	6,400	79.8'	5,700	93.7'	4,900
79	63.4'	6,400	84.0'	5,500	98.0'	4,900
78	68.2'	6,400	88.8'	5,500	102.0'	4,900
77	73.6'	6,400	93.0'	5,300	106.0'	4,600
76	78.8'	6,400	97.3'	5,300	110.0'	4,600
75	83.3'	6,200	101.4'	5,100	114.0'	4,600
73	93.0'	6,000	110.0'	4,900	121.0'	4,400
70	106.4'	5,500	122.0'	4,600	131.0'	4,200
68	114.0'	4,900	129.0'	4,200	138.0'	4,000
65	123.0'	3,500	138.0'	3,100	146.0'	2,900
63	129.0'	2,600	144.0'	2,400	152.0'	2,400
60	138.0'	1,800				
58						
55						

	4.	72 0' (52 7 ~	n) Boom + 58	2 1! (17 7 m)	Manual offer	at iib	
_			· ·			-	
С	3.5°	Tilt	25°	Tilt	45° Tilt		
	R	W	R	W	R	W	
81	50.0'	6,800	69.8'	6,200	86.1'	5,100	
80	54.0'	6,800	75.0'	6,200	89.7'	5,100	
79	59.0'	6,800	78.9'	6,000	93.3'	5,100	
78	63.5'	6,800	82.6'	5,700	96.9'	4,900	
77	68.1'	6,800	86.8'	5,700	101.0'	4,900	
76	72.6'	6,800	90.9'	5,500	104.0'	4,900	
75	77.2'	6,800	94.9'	5,500	107.0'	4,600	
73	85.9'	6,600	103.0'	5,300	114.0'	4,600	
70	98.9' 6,200		114.0'	5,100	124.0'	4,400	
68	107.0'	5,700	122.0'	4,900	131.0'	4,400	
65	118.0'	4,900	132.0'	4,200	140.0'	3,700	
63	124.0'	4,000	137.0'	3,300	145.0'	3,300	
60	132.0'	2,900	145.0'	2,400	152.0'	2,400	
58	138.0'	2,200	150.0'	2,000	157.0'	2,000	
55	146.0'	1,500					

COUNTERWEIGHT 22,000 lbs (10.0 t) ON OUTRIGGERS FULLY EXTENDED 23'11-3/8" (7.3 m) SPREAD 360° ROTATION

	15	9.6' (48.6 m)	Boom + 58	.1' (17.7 m) N	/lanual offse	t jib	
С	3.5	^o Tilt	25	' Tilt	45° Tilt		
	R	W	R	W	R	W	
81	46.3'	7,700	66.3'	6,600	80.7'	5,300	
80	50.1'	7,700	70.2'	6,600	83.8'	5,100	
79	54.7'	7,700	73.9'	6,400	87.6'	5,100	
78	58.9'	7,700	77.5'	6,200	90.9'	5,100	
77	63.1'	7,700	81.3'	6,200	94.0'	4,900	
76	67.2'	7,700	84.8'	6,000	97.3'	4,900	
75	71.8'	7,700	88.9'	6,000	101.0'	4,900	
73	80.0'	7,700	96.1'	5,700	107.0'	4,900	
70	91.7'	7,300	106.0'	5,300	117.0'	4,600	
68	99.8'	7,100	114.0'	5,100	123.0'	4,600	
65	110.0'	6,000	124.0'	5,100	132.0'	4,400	
63	116.0'	5,100	130.0'	4,400	137.0'	4,000	
60	124.0'	3,700	137.0'	3,300	143.0'	3,100	
58	129.0'	3,100	142.0'	2,900	148.0'	2,600	
55	137.0'	2,200	149.0'	2,000	154.0'	2,000	
53	142.0'	1,800	154.0'	1,500			
50							
48							
45							
43							
40							
38							
35							
33							
30							
25							
20							
15							
10							

N						
				,	Manual offset	
С	3.5	' Tilt	25°	Tilt	45°	Tilt
	R	W	R	W	R	W
81	30.1'	9,900	51.8'	7,300	64.7'	5,300
80	33.3'	9,900	54.7'	7,100	67.2'	5,100
79	36.5'	9,900	57.4'	6,800	69.6'	5,100
78	39.7'	9,900	60.0'	6,600	72.0'	5,100
77	42.8'	9,900	62.8'	6,600	74.4'	4,900
76	46.0'	9,900	65.5'	6,400	76.6'	4,900
75	48.8'	9,900	68.2'	6,400	79.0'	4,900
73	54.7'	9,900	73.6'	6,200	83.6'	4,900
70	63.0'	9,000	80.8'	5,700	89.9'	4,600
68	68.1'	8,400	85.9'	5,500	94.3'	4,600
65	76.1'	7,900	92.8'	5,300	100.0'	4,400
63	80.9'	7,500	97.6'	5,300	104.0'	4,400
60	88.5'	7,100	104.0'	5,100	110.0'	4,400
58	93.4'	7,100	108.0'	5,100	113.0'	4,400
55	100.0'	6,600	114.0'	4,900	118.0'	4,400
53	105.0'	6,400	118.0'	4,900	121.0'	4,200
50	111.0'	6,200	124.0'	4,600	126.0'	4,200
48	115.0'	6,000	127.0'	4,600	128.0'	4,200
45	121.0'	5,700	132.0'	4,600	132.0'	4,200
43	125.0'	5,300	135.0'	4,600		
40	130.0'	4,900	139.0'	4,400		
38	133.0'	4,400	141.0'	4,000		
35	137.0'	4,000	144.0'	3,700		
33	140.0'	3,700	146.0'	3,500		
30	144.0'	3,300	149.0'	3,100		
25	149.0'	2,900	152.0'	2,600		
20	154.0'	2,600				
15	157.0'	2,200				
10	159.0'	2,200				

C: Loaded boom angle (°)

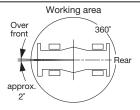
R: Load radius in feet

W: Rated lifting capacity in pounds

NOTE: The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-C) is based on the standard number of parts of line listed in the chart.

	COUNTERWEI(ON-RUBBE) t)							
									ON-	KUBBE	R SI	AHON	IARY								
\ A		0.41		2.7'		er front		0.41		20.01			360° Rotation 39.4' 52.7' 66.1' 79.4' 9				20.01				
В		9.4'		_		6.1'		92.8'				_		_	_					92.8'	
	С	(12.0 m)	С	(16.1 m)	С	(20.1 m)	С	(24.2 m)	С	(28.3 m)		С	(12.0m)	С	(16.1m)	С	(20.1m)	С	(24.2m)	С	(28.3m)
15'	62	50,400										63	30,400								
20'	53	38,000	64	40,300								53	20,500	64	23,400						
25'	42	29,400	58	31,900	65	33,000]	42	10,200	58	13,200	65	14,700				
30'	28	23,300	50	25,800	60	26,900	66	28,000	71	28,100		28	6,000	50	8,800	60	10,200	66	11,400	71	11,700
35'			42	21,100	55	22,300	62	23,400	67	23,500]			42	5,700	55	7,100	62	8,300	67	8,500
40'			32	14,900	49	16,400	58	19,800	64	19,900]			32	3,500	49	4,900	58	6,100	64	6,300
45'			17	11,600	42	13,000	53	14,200	60	14,400]			17	1,900	43	3,200	53	4,400	60	4,600
50'					35	10,500	48	11,700	56	11,800	1					35	1,900	48	3,000	56	3,200
55'					25	8,500	43	9,600	52	9,800	1							43	2,000	52	2,200
60'							37	8,000	48	8,100	1										
65'							30	6,600	43	6,800	1										
70'							19	5,500	38	5,600	1										
75'									32	4,700	1										
80'									25	3,800	1										
85'									13	3,200	1										
D						0				'	1		0		0	2	27		37		48
'	Telescopin							conditio	ns (%)	'				'		,					
Tele.1	1 0 0 0 0 0							0		0		0		0		0					
Tele.2		0		0		0		0 0					0		0		0		0		0
Tele.3		0		0		0	0 0]		0		0		0		0		0		
Tele.4		0		0		0	46 92			1		0		0		0		46		92	
Tele.5		0		46		92	,	92		92	1		0		46		92		92		92
Е	4							1		'				4							

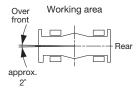
- A: Boom length in feet
- B: Load radius in feet
- C: Loaded boom angle (°)
 D: Minimum boom angle (°)
- for indicated length (no load)
- E: Number of parts of line



NOTE: 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 chart.

					EIGHT 22,0 RUBBER C	00 lbs (10.0 t)						
	Over front Over front											
A -	3	9.4'	5	2.7'	6	66.1'		9.4'	92.8'			
В	С	(12.0m)	С	(16.1m)	С	(20.1m)	С	(24.2m)	С	(28.3m)		
15'	62	37,600										
20'	53	27,400	64	29,500								
25'	42	20,600	57	22,700	65	24,000						
30'	27	15,700	50	17,900	60	19,200	66	20,300	70	20,300		
35'			42	14,200	54	15,500	62	16,600	67	16,700		
40'			32	11,300	49	12,600	57	13,700	63	13,900		
45'			16	9,000	42	10,300	53	11,400	60	11,600		
50'					34	8,400	48	9,500	56	9,700		
55'					25	6,900	42	8,000	52	8,100		
60'							36	6,700	48	6,800		
65'							29	5,500	43	5,700		
70'							19	4,600	38	4,700		
75'									32	3,900		
80'									25	3,100		
85'									13	2,500		
D						0		•				
	Telescoping conditions (%)											
Tele.1		0		0		0		0		0		
Tele.2	0			0		0		0		0		
Tele.3				0		0		0		0		
Tele.4		0		0		0		46	•	92		
Tele.5		0		46	92			92 92				
E						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



NOTE: 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 chart.

WARNING AND OPERATING INSTRUCTIONS FOR ON RUBBER LIFTING CAPACITIES

NOTES FOR ON-RUBBER LIFTING CAPACITIES

- Rated lifting capacities on-rubber are in pounds and do not exceed 75% of tipping loads as determined by SAE J765-Crane Stability Test Code.
- Rated lifting capacities shown in The chart are based on 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
29.5-25 34PR	57 psi. (400 kPa)

- 6. Over front operation shall be performed within 2 degrees in front of chassis.
- 7. On-rubber lifting with "jib" is not permitted. Maximum permissible boom length is 92.8' (28.3 m).
- 8. When making lift on-rubber stationary, set parking brake.

- For creep operation, boom must be centered over front of machine, slewing lock engaged, and load restrained from slewing. Travel slowly and keep the lifted load as close to the ground as possible, and especially avoid any abrupt steering, accelerating or braking.
- 10. Do not operate the crane while carrying the load.
- 11. Creep is motion for crane not to travel more than 200 ft. (60 m) in any 30 minute period and to travel at the speed of less than 1 mph (1.6 km/h).
- 12. For creep operation, choose the drive mode and proper gear according to the road or working condition.
- 13. The mass of the hook (2380 lbs (1080 kg) for 120 ton(110 metric ton)capacity, 660 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.
- 15. 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.
- 16. 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.

WARNING AND OPERATING INSTRUCTIONS

NOTES 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 American National Standards Institute (ANSI) safety standards for cranes.

SET UP

- Rated lifting capacities on the chart are the maximum allowable crane capacities and 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 bearing 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×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 swing mechanism, and lead to overturning of the crane.
- 6. Rated lifting capacities do not account for wind on lifted load or boom. We recommend against working under the condition 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 31mph (14 m/s) or over, stop operation. However, in the following cinditions, stop operation at wind speed of 27mph (12 m/s): Boom length is 183.7' (56.0 m) (all 100%), and boom angle is 55° or less.Boom length is 172.9' (52.7 m) (all 92%), and boom angle is 45° or less. 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.
- 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.
- 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. Maximum capacity without boom pin is shown in the chart.
- 15. Do not operate extension or retraction of the boom with loads.
- 16. 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.
- 17. When the base jib or top jib or both jibs are removed, set the jib status switch to the DISMOUNTED position.
- 18. When erecting and stowing jib, be sure to retain it by hand or by other means to prevent its free movement.
- 19. Use "ANTI-TWO-BLOCK" disable switch when erecting and stowing jib and when stowing hook block. While the switch is pushed, the hoist 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".
- 21. Crane operation is prohibited without full counterweight 22,000 lbs. (10 ton) installed. Outriggers shall be extended 23'11 3/8" (7.3 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 hoist 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.
- 3. Working Area: Area measured in a circular arc about the centerline of rotation.
- Freely suspended Load: Load hanging free with no direct external force applied except by the hoist line.
- Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.

NOTES FOR 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 actual 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 creep operation, the on-rubber state indicator symbol flickers.
 - Press the lift state select key to register the lift state. However,pay attention to the following.

(1)For stationary operation.

- 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 position and then slewed to the side area,make sure the value of the LOAD MOMENT INDICATOR (AML-C) is below the 360° lifting capacity.

(2)For creep operation.

- The creep capacities are attainable only when boom is in the straight forward position of chassis and the over front position symbol is on. If boom is not in the straight forward position of chassis, never lift load.
- 4. This machine is equipped with an automatic swing stopping device. (For the details,see Operation and Maintenance Manual.) But,operate very carefully because the automatic swing stop does not work in the following cases.
 - 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 lowering boom or swipping, lifting loads shall be appropriate.
- lowering boom or swinging, 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.
- 8. The lifting capacity differs depending on the outrigger extension width and slewing position. Work with the capacity corresponding to the outrigger extension width and slewing position. For the relationship among the outrigger extension width, slewing position and lifting capacities, refer to the working area charts.

GR-1200XL Axle weight distribution chart

		Pounds		Kilograms			
	GVW	Front	Rear	GVW	Front	Rear	
Basic machine	122,554	61,156	61,398	55,590	27,740	27,850	
Remove: 1. 7.9 ton (7.2 metric ton) hook block	-661	-1,007	346	-300	-457	157	
2. 120 ton (110 metric ton) hook block	-2,381	-4,596	2,215	-1,080	-2,085	1,005	
3. Top jib	-736	-989	252	-334	-448	114	
4. Base jib	-1,889	-3,741	1,852	-857	-1,697	840	
5. Auxiliary lifting sheave	-129	-385	256	-59	-175	116	
6. Counterweight	-22,046	9,628	-31,674	-10,000	4,367	-14,367	
7. Auxiliary winch & wire rope	-2,272	1,022	-3,295	-1,031	464	-1,494	
Add: 1. 77 ton (70 metric ton) hook block	1,500	2,896	-1,396	680	1,313	-633	
2. 50 ton (45 metric ton) hook block	1,336	2,579	-1,243	610	1,178	-568	

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