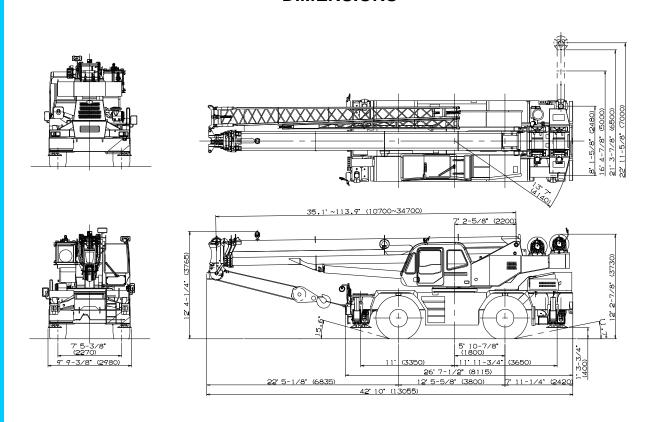


GR-550XL-2

55 Ton Capacity (50 Metric Tons)

HYDRAULIC ROUGH TERRAIN CRANE

DIMENSIONS



Note: Dimension is with boom angle at -0.8 degree.

GENERAL DIMENSIONS

(23.5 - 25 Tires)

	Feet	Meters
Turning radius		
4 wheel steer	22'	6.7
2 wheel steer	38' 5"	11.7
Tail swing of counterweight	13' 7"	4.14

Specifications are subject to change without notice.

CRANE SPECIFICATIONS

BOOM

Four section full power synchronized telescoping boom, 35.1'~113.9' (10.7m~34.7m), of round box construction with four sheaves, 17-5/16" (0.44m) root diameter, at boom head. The synchronization system consists of telescope cylinder, two extension cables and retraction cables. Hydraulic cylinder fitted with holding valve. Two 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. Extension speed 78.8' in 72 seconds.

BOOM ELEVATION - By a double acting hydraulic cylinder with holding valve. Elevation -0.8~81°, combination controls for hand or foot operation. Boom angle indicator.

Automatic speed reduction and soft stop function.

Boom raising speed 20° to 60° in 27 sec.

JIB - Two stage bi-fold lattice type with \$, 25° or 45° offset (tilt type). Single sheave, 15-5/8"(0.396m) root diameter, at the head of both jib sections. Stored alongside base boom section. Jib length is 28.9' (8.8m) or 50' (15.2m). Assistant cylinders for mounting and stowing, controlled at right side of superstructure. Self stowing jib mounting pins.

AUXILIARY LIFTING SHEAVE (SINGLE TOP)

Single sheave, 15-5/8"(0.396m) root diameter. Mounted to main boom head for single line work (stowable).

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

SWING

Hydraulic axial piston motor through planetary swing speed reducer. Continuous 360 full circle swing on ball bearing turn table at 2.7min¹{rpm}. Equipped with manually locked/released swing brake. A 360 positive swing lock for pick and carry and travel modes, manually engaged in cab. Twin swing system: Free swing or lock swing controlled by selector switch on front console.

HOIST

MAIN HOIST - 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 hoist. Equipped with cable follower and drum rotation indicator.

DRUM - Grooved 15-3/4"(0.40m) root diameter x 23-9/16"(0.599m) wide. Wire rope: 633' of 3/4"diameter rope (193m of 19mm). Drum capacity: 1,074' (327.5m) 7 layers. Maximum single line pull: 1st layer 15,200 lbs (6,880kg). Maximum permissible line pull wire strength: 15,600 lbs (7,085kg).

AUXILIARY HOIST - 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 hoist. Equipped with cable follower and drum rotation indicator.

DRUM - Grooved 15-3/4"(0.40m) root diameter x 23-9/16"(0.559m) wide. Wire rope: 361' of 3/4"diameter rope (110m of 19mm). Drum capacity: 1,074' (327.5m) 7 layers. Maximum single line pull: 1st layer 15,200 lbs (6,880kg). Maximum permissible line pull wire strength: 15,600 lbs (7,085kg).

WIRE ROPE - Warrington seal wire, extra improved plow steel, preformed, independent wire rope core, right regular lay. 3/4"(19 mm) 6x31 class

HOOK BLOCKS

55 ton (50 metric ton)-5 sheaves with swivel hook and safety latch. 6.2 ton (5.6 metric ton) - Weighted hook with swivel and safety latch.

HYDRAULIC SYSTEM

PUMPS - Two 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 - 148 gallon (560 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.

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 hoist and main hoist. 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 hoist select switch, outrigger controls, free swing / lock swing selector switch, eco mode 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.

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

- · Control lever lockout function
- · 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 Soft Stop function on boom elevation and swing
- · Working condition register switch
- Load radius / boom angle / tip height / swing range preset function
- External warning lamp
- Tare function
- · Fuel consumption monitor
- Main hoist / auxiliarly hoist select
- Drum rotation indicator (audible and visible type) main and auxiliary hoist

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, and air conditioning control switch. Swing 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.

TRANSMISSION - Electronically controlled full automatic transmission. Torque converter driving full powershift with driving axle selector. 6 forward and 2 reverse speeds, constant mesh.

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

TRAVEL SPEED - 31 mph (50 km/h)

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. Three steering modes available: 2 wheel front, 4 wheel coordinated and 4 wheel crab.

SUSPENSION - Front: Semi-elliptic leaf springs with hydraulic lockout device. Rear: Semi-elliptic leaf springs 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: Electropneumatic operated exhaust brake.

TIRES - 23.5-25(OR)

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 22' 11-5/8" (7.0 m) center-line and retract to within 9' 9-3/8" (2.98 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.

Min. Extension 8' 1-5/8"(2.48m) center to center
Mid. Extension 16' 4-7/8"(5.0m) center to center
Mid. Extension 21' 3-7/8"(6.5m) center to center
Max. Extension 22' 11-5/8"(7.0m) center to center
Float size(Diameter) 1' 7- 11/16" (0.5m)

ENGINE

Mitsubishi 6M60-TLA3B [Tier 3] Model Direct injection diesel Type No. of cylinders Combustion 4 cycle, turbo charged and after cooled BoreXStroke, in.(mm) 4.646 x 4.528 (118 x 115) Displacement, cu. in (liters) 460 (7.54) Air inlet heater 24 volt preheat Air cleaner Dry type, replaceable element Full flow with replaceable element Oil filter Fuel filter Full flow with replaceable element Fuel tank, gal.(liters) 79.2 (300), right side of carrier Liquid pressurized, recirculating by-pass Cooling

Radiator Fin and tube core, thermostat controlled Fan, in.(mm) Suction type, 6-blade, 23.6 (600) dia. Starting 24 volt 24 volt system, negative ground Charging Battery 2-120 amp. Hour Compressor, air, CFM(I /min) 29 CFM (830) at 2,600rpm Horsepower (kW) Gross 267 (200) at 2,600rpm Torque, Max. ft-lb (kgm) 579 (80) at 1,400rpm Capacity, gal.(liters) Cooling water 3.4 (13) Lubrication 3.4 - 4.0 (13 - 15) 79.2 (300) Fuel

STANDARD EQUIPMENT

- Four section full power synchronized boom 35.1'~113.9' (10.7 m~34.7 m)
- 28.9' or 50' (8.8 m or 15.2 m) bi-fold lattice jib (tilt type) with 5°, 25° or 45° pinned offsets and self storing pins.
- Auxiliary lifting sheave (single top) stowable
- Variable speed main hoist with grooved drum, cable follower and 633' of 3/4" cable.
- Variable speed auxiliary hoist with grooved drum, cable follower and 361' of 3/4" cable.
- Drum rotation indicator (audible, visible and thumper type) main and auxiliary hoist
- Anti-Two block device (overwind cutout)
- Boom angle indicator
- Tadano electronic load moment indicator system (AML-C)
- Outrigger extension length detector
- Electronic crane monitoring system
- Tadano twin swing system and 360 positive swing lock
- Self centering finger control levers with pilot control
- Control pedals for boom elevating and boom telescoping
- 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)
- Rear view mirrors (right and left side)
- Mirror for main and auxiliary hoists
- Cigarette lighter and ashtray
- Cab floor mat
- Pump disconnect in operator's cab
- Hydraulic oil cooler
- Hot water cab heater and air conditioner
- Positive control
- Quick reeving type bi-fold jib
- Work lights

- Independently controlled outriggers
- Four outrigger extension positions
- Self-storing outrigger pads
- Mitsubishi 6M60-TLA3B turbo charged after cooled engine (267HP) with exhaust brake
- Electronic controlled automatic transmission driven by torque converter
- 4 X 4 X 4 drive/steer
- Non-spin rear differential
- Semi-elliptic leaf springs suspension with hydraulic lockout device (front and rear)
- 23.5-25(OR) tires
- Disc brakes
- Fenders
- Air dryer
- Water separator with filter(high filtration)
- Engine over-run alarm
- Back-up alarm
- Low oil pressure/high water temp. warning device (visual)
- Rear steer centering light
- Air cleaner dust indicator
- Full instrumentation package
- Complete highway light package
- Tool storage compartment
- Tire inflation kit
- 24 volt electric system
- 6.2 ton (5.6 metric ton) hook with swivel
- 55 ton (50 metric ton) 5 sheave with swivel hook and safety latch for 3/4"(19mm) wire rope
- Towing hooks-Front and rear
- Lifting eyes
- Hook block tie down (front bumper)
- Weighted hook storage compartment
- Halogen head lamp
- Telecommunications terminal (HELLO-NET Owner's Site)
- Fuel consumption monitor
- Eco mode system

HOISTING PERFORMANCE

LINE SPEEDS AND PULLS

	Ma	ain or auxiliary hois	t - 15'-3/4" (0.4m) d	rum
Layer	Line s	peeds ¹		pulls lable ²
	F.P.M.	m/min	Lbs.	kgf
1st	358	109	15,200	6,880
2nd	387	118	13,900	6,310
3rd	417	127	12,800	5,820
4th	446	136	11,900	5,410
5th	475	144	11,100	5,050
6th	504	153	10,400	4,730
7th ³	533 162		9,800	4,460

Maximum permissible line pull may be affected by wire rope strength.
 Wire rope strength (6x31 class) = 15,600lbs (7,085kg)

- ¹ Line speeds based only on hook block, not loaded.
- Developed by machinery with each layer of wire rope, but not based on rope strength or other limitation in machinery or equipment.
- Seventh layer of wire rope are not recommended for hoisting operations.

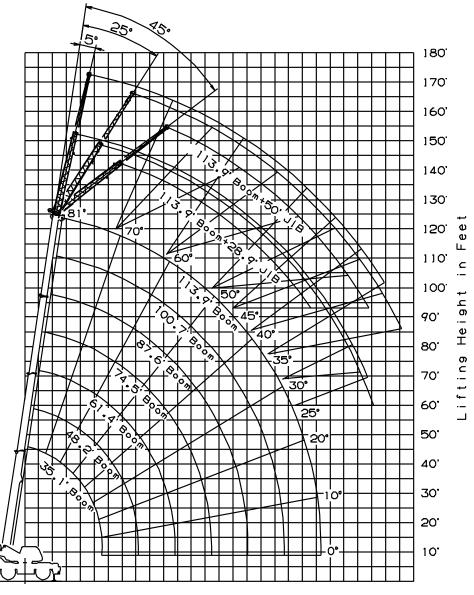
DRUM WIRE ROPE CAPACITIES

DIVOIN	WIINE INOI	L CAI AC	IIILO	
147	Main and	d auxiliary o	drum groov	ed lagging
Wire		3/4" (19mn	n) wire rope)
rope layer	Rope p	er layer	Total w	ire rope
layei	Feet	Meters	Feet	Meters
1	123.3	37.6	123.3	37.6
2	133.5	40.7	256.8	78.3
3	143.3	43.7	400.2	122.0
4	153.5	46.8	553.8	168.8
5	163.3	49.8	717.1	218.6
6	173.8	53.0	891.0	271.6
7	183.3	55.9	1074.4	327.5

DRUM DIMENSIONS

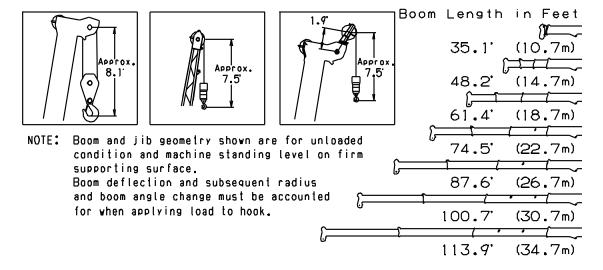
	Inch	mm
Root diameter	15-3/4"	400
Length	23-9/16"	599
Flange diameter	27-3/8"	695

GR-550XL WORKING RANGE CHART



 ϱ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 Axis of Rotation

Load Radius from Axis of Rotation in Feet



				ON OL	JTRIGG	ERS FULLY I	EXTEND	ED 22' 11-5/	8"(7.0m) SPREAD				
						36	0° ROT≀	NOITA						
A		35.1'		48.2'		61.4'		74.5'		87.6'		100.7'		113.9'
В	C	(10.7m)	С	(14.7m)	С	(18.7m)	C	(22.7m)	С	(26.7m)	С	(30.7m)	С	(34.7m)
8'	70	110,000												
10'	66	100,600	73	46,700	77	46,700	80	44,300						
12'	63	87,900	70	46,700	75	46,700	78	44,300	81	41,200				
15'	56	73,400	67	46,700	72	46,700	76	44,300	79	40,300	81	33,000		
20'	44	54,400	60	46,700	67	46,700	72	42,100	76	35,800	78	30,500	80	25,100
25'	27	38,500	52	43,000	62	43,000	68	39,500	72	31,700	75	27,300	78	23,900
30'			44	33,800	56	35,000	64	35,500	69	28,700	72	25,000	75	21,600
35'			33	25,600	50	26,600	59	27,000	65	25,300	69	23,000	72	19,900
40'			16	20,400	44	21,100	54	21,500	61	21,200	66	20,500	70	19,000
45'					36	17,100	49	17,300	57	17,500	63	17,400	67	17,100
50'					25	14,100	43	14,300	53	14,500	59	14,400	64	14,500
55'							37	12,000	48	12,200	56	12,100	61	12,200
60'							29	10,200	43	10,300	52	10,300	58	10,350
65'							18	8,700	38	8,750	48	8,850	54	8,850
70'									32	7,550	44	7,600	51	7,650
75'									24	6,550	39	6,600	47	6,650
80'									9	5,700	34	5,700	44	5,750
85'			•								27	4,950	39	5,000
90'											19	4,350	35	4,350
95'													30	3,750
100'				_								_	23	3,250
105'													13	2,350
D			•		,			0	,		,			

		L	IFTING (CAPACITIES	AT ZER	O DEGREE I	ВООМ А	NGLE ON O	UTRIGG	ERS FULLY	EXTEN	DED		
					22' 1'	1-5/8"(7.0m) \$	SPREAD	360° RO	TATION					
A 35.1' 48.2' 61.4'					61.4'		74.5' 87.6' 100.7' 11				13.9'			
C	В	(10.7m)	В	(14.7m)	В	(18.7m)	В	(22.7m)	В	(26.7m)	В	(30.7m)	В	(34.7m)
0°														

				ON (OUTRIC	GERS MID E	XTEND	ED 21' 3-7/8"((6.5m) S	SPREAD				
				OIT	JOTAL		0° ROT		(0.0111)	OI INEME				
A		35.1'		48.2'		61.4'		74.5'		87.6'		100.7'		113.9'
В	С	(10.7m)	С	(14.7m)	С	(18.7m)	С	(22.7m)	С	(26.7m)	С	(30.7m)	С	(34.7m)
8'	70	110,000												
10'	66	100,600	73	46,700	77	46,700	80	44,300						
12'	63	87,900	70	46,700	75	46,700	78	44,300	81	41,200				
15'	56	73,400	67	46,700	72	46,700	76	44,300	79	40,300	81	33,000		
20'	44	54,400	60	46,700	67	46,700	72	42,100	76	35,800	78	30,500	80	25,100
25'	27	38,500	52	40,600	62	41,300	68	39,500	72	31,700	75	27,300	78	23,900
30'			44	28,300	56	29,000	64	29,500	69	28,700	72	25,000	75	21,600
35'			33	21,000	50	21,600	59	22,100	65	22,400	69	22,500	72	19,900
40'			16	16,300	43	17,000	54	17,300	61	17,500	66	17,600	70	17,700
45'					35	13,700	49	14,000	57	14,100	62	14,300	67	14,200
50'					25	11,100	43	11,500	53	11,700	59	11,800	64	11,700
55'							37	9,500	48	9,700	55	9,900	60	9,800
60'							29	8,000	43	8,200	52	8,300	57	8,200
65'							18	6,500	38	7,000	48	7,000	54	7,000
70'									32	5,900	43	5,900	50	6,000
75'									24	5,000	39	5,000	47	5,100
80'									9	4,000	33	4,300	43	4,400
85'								•			27	3,700	39	3,700
90'											19	2,900	35	3,100
95'													29	2,700
100'													23	2,200
105'													12	1,650
D							,	0	,		,			

ı	LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MID EXTENDED												
	21' 3-7/8"(6.5m) SPREAD 360° ROTATION												
A 35.1' 48.2' 61.4' 74.5' 87.6' 100.7' 113.9'										13.9'			
	C B (10.7m) B (14.7m) B (18.7m) B (22.7m) B (26.7m) B (30.7m) B (34.7m)												
	0° 27.8' 16,500 41' 10,600 54.1' 7,000 67.3' 4,800 80.2' 3,300 92.7' 2,200 105.4' 1,400												

- A:Boom length in feet
- B:Load radius in feet
- **C**:Loaded boom angle (°)
- **D** :Minimum boom angle (°) for indicated length (no load)

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.

Standard number of parts of line for each boom length should be according to the following table.

Boom length in feet	35.1'	35.1' to 61.4'	61.4' to 113.9'	Single top
(meters)	(10.7m)	(10.7m to 18.7m)	(18.7m to 34.7m)	Jib
Number of parts of line	10	6	4	1

ON OUTRIGGERS MID EXTENDED 16' 4-7/8"(5.0m) SPREAD														
360° ROTATION														
A		35.1'		48.2'		61.4'		74.5'		87.6'		100.7'		113.9'
В	С	(10.7m)	၁	(14.7m)	С	(18.7m)	С	(22.7m)	С	(26.7m)	С	(30.7m)	С	(34.7m)
8'	70	110,000												
10'	66	100,600	73	46,700	77	46,700	80	44,300						
12'	63	87,900	70	46,700	75	46,700	78	44,300	81	41,200				
15'	56	72,400	67	46,700	72	46,700	76	44,300	79	40,300	81	33,000		
20'	44	38,500	60	39,900	67	40,700	72	41,400	76	35,800	78	30,500	80	25,100
25'	27	24,600	52	26,000	62	26,600	68	27,200	72	27,500	75	27,200	78	23,900
30'			44	18,600	56	19,000	63	19,500	68	19,800	72	19,900	75	19,600
35'			33	13,700	50	14,400	59	14,800	65	15,000	69	15,000	72	15,100
40'			16	10,400	43	11,200	54	11,700	61	11,900	65	11,900	69	11,900
45'					35	8,800	49	9,300	57	9,500	62	9,500	66	9,600
50'					25	7,000	43	7,500	53	7,700	59	7,700	63	7,800
55'							37	6,000	48	6,150	55	6,150	60	6,300
60'							29	4,850	43	5,000	51	5,000	57	5,100
65'							18	3,700	38	4,050	47	4,050	54	4,150
70'									32	3,300	43	3,300	50	3,400
75'									24	2,650	38	2,700	47	2,800
80'									9	2,000	33	2,100	43	2,200
85'											27	1,600	39	1,700
90'											18	1,050	34	1,300
D		•				0)		•		•			19

Ī	LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MID EXTENDED													
	16' 4-7/8"(5.0m) SPREAD 360° ROTATION													
ſ	A 35.1' 48.2' 61.4' 74.5' 87.6' 100.7'													
ı	C \	В	(10.7m)	В	(14.7m)	В	(18.7m)	В	(22.7m)	В	(26.7m)	В	(30.7m)	
ſ	0° 27.8' 16,500 41' 9,900 54.1' 5,670 67.3' 3,480 80.2' 1,980 92.7' 900													

	ON OUTRIGGERS MIN EXTENDED 8' 1-5/8"(2.48m) SPREAD													
	360° ROTATION													
A		35.1'		48.2'		61.4'		74.5'		87.6'		100.7'		113.9'
В	C	(10.7m)	С	(14.7m)	С	(18.7m)	C	(22.7m)	C	(26.7m)	С	(30.7m)	С	(34.7m)
8'	70	75,800												
10'	66	48,500	73	46,700	77	46,700	80	44,300						
12'	62	34,100	70	35,900	75	35,700	78	34,900	80	33,600				
15'	56	22,600	67	24,100	72	24,800	76	24,700	78	23,900	80	23,000		
20'	45	13,000	60	14,300	67	14,900	72	15,400	75	15,100	77	14,600	79	13,900
25'	29	8,050	52	9,200	62	9,700	67	10,200	71	10,400	74	10,000	76	9,500
30'			44	6,100	56	6,600	63	7,000	68	7,200	71	7,000	74	6,700
35'			33	3,900	50	4,400	59	4,800	64	5,000	68	5,000	71	4,700
40'			17	2,500	43	2,900	54	3,300	60	3,500	65	3,500	68	3,300
45'					35	1,800	49	2,100	56	2,300	61	2,400	65	2,200
50'							43 1,200 52 1,4			1,400	58	1,500	62	1,400
D				0				36		44		51		57

	LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MIN EXTENDED											
						8' 1-5/8"(2.48m) SPREAD	360° ROTATION					
	_ A		35.1'		48.2'							
C	: \	В	(10.7m)	В	(14.7m)							
	0°	27.8'	6,040	41'	2,120							

- A:Boom length in feet
- B:Load radius in feet
- **C** :Loaded boom angle (°)
- **D** :Minimum boom angle (°) for indicated length (no load)

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.

Standard number of parts of line for each boom length should be according to the following table.

Boom length in feet	35.1'	35.1' to 61.4'	61.4' to 113.9'	Single top
(meters)	(10.7m)	(10.7m to 18.7m)	(18.7m to 34.7m)	Jib
Number of parts of line	10	6	4	1

		(ON OUTRIG	GERS				11-5/8"	(7.0m) SPR	EAD		
					360°	ROTATIO	DN_					
	113.9' (34	.7m) B	oom + 28.9'	(8.8m)	Jib			113.9' (34.7m)				
5°	offset	25	° offset	45	offset		C	5°	offset	2		
R	W	R	W	R	W			R	W	R		
25.6'	12,300	34.8'	8,400	41.5'	6,050	80		32.6'	6,350	47.6		
32.9'	12,000	41.3'	8,000	47.3'	5,900	77.	5	40.8'	6,200	54.9		
39.8'	11,500	47.5'	7,650	53.1'	5,700	75		48.6'	6,050	61.9		
46.3'	10,600	53.6'	7,350	58.7'	5,550	72.	5	56.0'	5,600	68.5		
52.3'	9,750	59.5'	7,100	64.0'	5,400	70		63.0'	5,200	75.0		
58.3'	9,100	65.1'	6,850	69.2'	5,300	67.	5	69.6'	4,900	81.2		
64.0'	8,500	70.5'	6,600	74.0'	5,200	65		76.1'	4,600	87.0		
69.4'	7,900	75.6'	6,400	78.9'	5,100	62.	5	82.2'	4,350	92.6		
74.8'	7,400	80.5'	6,200	83.7'	5,050	60		88.4'	4,150	98.1		
79.5'	6,500	85.5'	5,700	88.2'	5,000	57.	5	94.4'	3,950	103.6		
84.0'	5,650	90.0'	5,200	92.5'	4,950	55		100.0'	3,800	108.7		
88.8'	5,000	94.1'	4,600	96.2'	4,450	52.	5	105.4'	3,500	113.3		
93.1'	4,400	98.2'	4,100	99.7'	3,950	50		110.2'	3,150	117.9		
97.4'	3,950	102.1'	3,700	103.3'	3,550	47.	5	114.8'	2,750	121.9		
101.4'	3,500	105.6'	3,300	106.6'	3,150	45		119.3'	2,400	125.7		
105.3'	3,150	109.1'	2,950			42.	5	123.3'	2,100	129.3		
109.0'	2,800	112.3'	2,650			40		127.0'	1,850	132.7		
112.6'	2,500	115.5'	2,400			37.	5	131.1'	1,600	135.7		
115.8'	2,250	118.2'	2,200			35		134.4'	1,400	138.5		
118.7'	2,050	120.9'	2,000			-						
121.6'	1,850	123.3'	1,800									
124.1'	1,700	125.3'	1,650									
126.3'	1,600	127.1'	1,550									
	R 25.6' 32.9' 39.8' 46.3' 52.3' 58.3' 64.0' 74.8' 79.5' 84.0' 88.8' 93.1' 101.4' 105.3' 115.8' 115.8' 115.8' 115.8'	5° offset R W 25.6' 12,300 32.9' 12,000 39.8' 11,500 46.3' 10,600 52.3' 9,750 58.3' 9,100 64.0' 8,500 69.4' 7,900 74.8' 7,400 79.5' 6,500 84.0' 5,650 88.8' 5,000 93.1' 4,400 97.4' 3,950 101.4' 3,500 105.3' 3,150 109.0' 2,800 112.6' 2,500 115.8' 2,250 118.7' 2,050 121.6' 1,850 124.1' 1,700	113.9' (34.7m) Bi 5° offset 25 R W R 25.6' 12,300 34.8' 32.9' 12,000 41.3' 39.8' 11,500 59.5' 46.3' 10,600 53.6' 52.3' 9,750 59.5' 58.3' 9,100 65.1' 64.0' 8,500 70.5' 69.4' 7,900 75.6' 74.8' 7,400 80.5' 79.5' 6,500 85.5' 84.0' 5,650 90.0' 88.8' 5,000 94.1' 93.1' 4,400 98.2' 97.4' 3,950 102.1' 101.4' 3,500 105.6' 105.3' 3,150 109.1' 109.0' 2,800 112.3' 112.6' 2,500 115.5' 115.8' 2,250 118.2' 118.7' 2,050 120.9' 121.6' 1,850 123.3' 124.1' 1,700 125.3'	113.9' (34.7m) Boom + 28.9' 5° offset 25° offset R W R W 25.6' 12,300 34.8' 8,400 32.9' 12,000 41.3' 8,000 39.8' 11,500 47.5' 7,650 46.3' 10,600 53.6' 7,350 52.3' 9,750 59.5' 7,100 58.3' 9,100 65.1' 6,850 64.0' 8,500 70.5' 6,600 69.4' 7,900 75.6' 6,400 79.5' 6,500 85.5' 5,700 84.0' 5,650 90.0' 5,200 93.1' 4,400 98.2' 4,100 97.4' 3,950 102.1' 3,700 105.3' 3,150 109.1' 2,950 105.3' 3,150 109.1' 2,950 112.6' 2,500 115.5' 2,400 115.8' 2,250 118.2' 2,200	113.9' (34.7m) Boom + 28.9' (8.8m) 5° offset R W R 25.6' 12,300 34.8' 8,400 41.5' 32.9' 12,000 41.3' 8,000 47.3' 39.8' 11,500 53.6' 7,350 58.7' 52.3' 9,750 59.5' 7,100 64.0' 58.3' 9,100 65.1' 6,850 69.2' 64.0' 8,500 70.5' 6,600 74.0' 69.4' 7,900 75.6' 6,400 78.9' 74.8' 7,400 80.5' 6,200 83.7' 79.5' 6,500 85.5' 5,700 88.2' 84.0' 5,650 90.0' 5,200 92.5' 88.8' 5,000 94.1' 4,600 96.2' 93.1' 4,400 98.2' 4,100 99.7' 97.4' 3,950 102.1' 3,700 103.3' 101.4' 3,500 105.6' 3,300 106.6' 105.3' 3,150 109.1' 2,950 112.6' 2,500 115.5' 2,400 115.8' 2,250 118.2' 2,200 118.7' 2,050 120.9' 2,000 121.6' 1,850 123.3' 1,800 124.1' 1,700 125.3' 1,650	113.9' (34.7m) Boom + 28.9' (8.8m) Jib 5° offset 25° offset 45° offset R W R W R 25.6' 12,300 34.8' 8,400 41.5' 6,050 32.9' 12,000 41.3' 8,000 47.3' 5,900 39.8' 11,500 47.5' 7,650 53.1' 5,700 46.3' 10,600 53.6' 7,350 58.7' 5,550 52.3' 9,750 59.5' 7,100 64.0' 5,400 58.3' 9,100 65.1' 6,850 69.2' 5,300 64.0' 8,500 70.5' 6,600 74.0' 5,200 69.4' 7,900 75.6' 6,400 78.9' 5,100 74.8' 7,400 80.5' 6,200 83.7' 5,050 79.5' 6,500 85.5' 5,700 88.2' 5,000 84.0' 5,650 90.0' 5,200 92.5' 4,950 88.8' 5,000 94.1' 4,600 96.2' 4,450 93.1' 4,400 98.2' 4,100 99.7' 3,950 101.4' 3,500 105.6' 3,300 106.6' 3,150 105.3' 3,150 109.1' 2,950 112.6' 2,500 115.5' 2,400 115.8' 2,250 118.2' 2,200 118.7' 2,050 120.9' 2,000 121.6' 1,850 123.3' 1,800 124.1' 1,700 125.3' 1,650	113.9' (34.7m) Boom + 28.9' (8.8m) Jib 5° offset 25° offset 45° offset	113.9' (34.7m) Boom + 28.9' (8.8m) Jib 5° offset R W R 25.6' 12,300 34.8' 8,400 41.5' 6,050 32.9' 12,000 41.3' 8,000 47.3' 5,900 39.8' 11,500 47.5' 7,650 53.1' 5,700 46.3' 10,600 53.6' 7,350 58.7' 5,550 52.3' 9,750 59.5' 7,100 64.0' 5,400 58.3' 9,100 65.1' 6,850 69.2' 5,300 64.0' 8,500 70.5' 6,600 74.0' 5,200 69.4' 7,900 75.6' 6,400 78.9' 5,100 79.5' 6,500 85.5' 5,700 88.2' 5,000 84.0' 5,650 90.0' 5,200 92.5' 4,950 88.8' 7,400 80.5' 5,200 92.5' 4,950 93.1' 4,400 98.2' 4,100 99.7' 3,950 97.4' 3,950 102.1' 3,700 103.3' 3,550 101.4' 3,500 105.6' 3,300 106.6' 3,150 115.8' 2,250 118.2' 2,200 118.7' 2,050 120.9' 2,000 121.6' 1,850 123.3' 1,800 124.1' 1,700 125.3' 1,650	113.9' (34.7m) Boom + 28.9' (8.8m) Jib 5° offset 25° offset 45° offset	113.9' (34.7m) Boom + 28.9' (8.8m) Jib 5° offset R W R See in 12,300 34.8' 8,400 41.5' 6,050 32.9' 12,000 41.3' 8,000 47.3' 5,900 39.8' 11,500 47.5' 7,650 53.1' 5,700 46.3' 10,600 53.6' 7,350 58.7' 5,550 58.3' 9,100 64.0' 8,500 77.5' 6,600 74.0' 7,900 75.6' 6,600 74.0' 79.5' 6,500 88.2' 5,000 88.8' 7,400 88.8' 7,400 88.8' 5,000 94.1' 4,600 93.1' 4,400 98.2' 4,100 99.7' 3,950 101.4' 3,500 105.6' 3,300 105.6' 3,500 105.6' 3,500 105.6' 3,500 105.6' 3,500 105.6' 3,500		

AH	ATION										
			113.9' (34	1.7m) B	oom + 50' (15.2m)	Jib				
	С	5°	offset	25	° offset	45	° offset				
		R	W	R	W	R	W				
80)	32.6'	6,350	47.6'	4,050	59.0'	2,750				
77	' .5	40.8'	6,200	54.9'	3,900	65.3'	2,700				
75	5	48.6'	6,050	61.9'	3,700	71.6'	2,600				
72	2.5	56.0'	5,600	68.5'	3,550	77.5'	2,550				
70)	63.0'	5,200	75.0'	3,350	83.2'	2,500				
67	7.5	69.6'	4,900	81.2'	3,200	88.7'	2,450				
65	5	76.1'	4,600	87.0'	3,100	93.9'	2,400				
62	2.5	82.2'	4,350	92.6'	3,000	98.9'	2,350				
60)	88.4'	4,150	98.1'	2,900	103.8'	2,350				
57	7.5	94.4'	3,950	103.6'	2,800	108.4'	2,300				
55	5	100.0'	3,800	108.7'	2,700	112.6'	2,300				
52	2.5	105.4'	3,500	113.3'	2,650	116.7'	2,250				
50)	110.2'	3,150	117.9'	2,600	120.3'	2,250				
47	7.5	114.8'	2,750	121.9'	2,400	124.0'	2,200				
45	5	119.3'	2,400	125.7'	2,150	127.1'	2,100				
42	2.5	123.3'	2,100	129.3'	1,900						
40)	127.0'	1,850	132.7'	1,700						
37	' .5	131.1'	1,600	135.7'	1,500						
35	5	134.4'	1,400	138.5'	1,300						

C :Loaded boom angle ()

R :Load radius in feet

W:Rated lifting capacity in pounds

				ON OUTR	IGGER		ENDED 21' 3	3-7/8"(6.	5m) SPRE	٩D
							ROTATION			
		113.9' (34	.7m) B	oom + 28.9'	(8.8m)	Jib			113.9' (34	1.7m
С	5°	offset	25	° offset	45	° offset	С	5°		
	R	W	R	W	R	W		R	W	R
80	25.6'	12,300	34.8'	8,400	41.5'	6,050	80	32.6'	6,350	4
77.5	32.9'	12,000	41.3'	8,000	47.3'	5,900	77.5	40.8'	6,200	5
75	39.8'	11,500	47.5'	7,650	53.1'	5,700	75	48.6'	6,050	6
72.5	46.3'	10,600	53.6'	7,350	58.7'	5,550	72.5	56.0'	5,600	6
70	52.3'	9,750	59.5'	7,100	64.0'	5,450	70	63.0'	5,200	7:
67.5	58.1'	8,800	65.1'	6,850	69.2'	5,300	67.5	69.6'	4,900	8
65	63.5'	7,900	70.5'	6,600	74.0'	5,200	65	76.1'	4,600	8
62.5	68.7'	6,800	75.3'	5,800	78.9'	4,950	62.5	82.2'	4,350	9:
60	73.6'	5,800	79.9'	5,050	83.5'	4,700	60	88.3'	4,100	9
57.5	78.5'	5,100	84.6'	4,450	87.8'	4,250	57.5	93.8'	3,550	10
55	83.3'	4,500	89.0'	3,850	91.8'	3,850	55	99.0'	3,000	10
52.5	87.9'	3,900	93.4'	3,300	95.7'	3,350	52.5	104.0'	2,450	11:
50	92.5'	3,300	97.4'	2,850	99.3'	2,900	50	108.8'	2,000	11
47.5	96.7'	2,800	101.4'	2,450	102.9'	2,450	47.5	113.6'	1,700	12
45	100.7'	2,350	105.0'	2,100	106.2'	2,050	45	118.0'	1,400	12
42.5	104.3'	2,000	108.5'	1,800		•			•	
40	108.3'	1,650	111.8'	1,550						
37.5	111.7'	1,400	115.0'	1,300						
35	115.1'	1,200	117.9'	1,100						

ATION									
		113.9' (34	1.7m) B	oom + 50' (15.2m)	Jib			
С	5°	offset	25	° offset	45° offset				
	R	W	R	W	R	W			
80	32.6'	6,350	47.6'	4,050	59.0'	2,750			
77.5	40.8'	6,200	54.9'	3,900	65.3'	2,700			
75	48.6'	6,050	61.9'	3,700	71.6'	2,600			
72.5	56.0'	5,600	68.5'	3,550	77.5'	2,550			
70	63.0'	5,200	75.0'	3,350	83.2'	2,500			
67.5	69.6'	4,900	81.2'	3,200	88.7'	2,450			
65	76.1'	4,600	87.0'	3,100	93.9'	2,400			
62.5	82.2'	4,350	92.6'	3,000	98.9'	2,350			
60	88.3'	4,100	98.1'	2,900	103.8'	2,350			
57.5	93.8'	3,550	103.5'	2,700	108.4'	2,300			
55	99.0'	3,000	108.4'	2,500	112.6'	2,300			
52.5	104.0'	2,450	112.9'	2,150	116.4'	2,000			
50	108.8'	2,000	117.1'	1,800	119.9'	1,750			
47.5	113.6'	1,700	121.2'	1,500	123.4'	1,450			
45	118.0'	1,400	124.9'	1,200	126.4'	1,150			

	ON OUTRIGGERS MID EXTENDED 16' 4-7/8"(5.0m) SPREAD												
				ON OUTR	IGGER		ENDE ROTA		-7/8"(5.	.0m) SPRE	٩D		
		113.9' (34	.7m) B	oom + 28.9'	(8.8m)	Jib			113.9' (34.7r				
С	5°	offset	25	° offset	45	° offset		С	5°				
	R	W	R	W	R	W			R	W	F		
80	25.6'	12,300	34.8'	8,400	41.5'	6,050		80	32.6'	6,350	4		
77.5	32.9'	12,000	41.3'	8,000	47.3'	5,900		77.5	40.8'	6,200	5		
75	39.8'	11,500	47.5'	7,650	53.1'	5,700		75	48.6'	6,050	6		
72.5	45.7'	9,700	53.4'	7,000	58.7'	5,550		72.5	56.0'	5,600	6		
70	51.3'	7,900	58.9'	6,300	64.0'	5,400		70	63.0'	5,200	7		
67.5	56.9'	6,550	64.4'	5,450	68.9'	4,850		67.5	69.1'	4,500	8		
65	62.2'	5,300	69.2'	4,700	73.4'	4,350		65	75.1'	3,800	8		
62.5	67.3'	4,300	74.0'	3,850	78.0'	3,650		62.5	90.9'	3,050	9		
60	72.3'	3,400	78.8'	3,150	82.6'	3,000	(60	86.1'	2,400	9		
57.5	77.0'	2,750	83.4'	2,550	86.8'	2,450		57.5	91.6'	1,800	10		
55	81.8'	2,200	87.9'	2,000	90.8'	2,000		55	96.7'	1,300	10		
52.5	86.4'	1,700	92.3'	1,550	94.8'	1,550				•			
50	91.0'	1,300	96.4'	1,150	98.5'	1,200]						

ROTA	OTATION										
			113.9' (34	4.7m) Boom + 50' (15.2m) Jib							
	С	5°	offset	25	° offset	45° offset					
		R	W	R	W	R	W				
	80	32.6'	6,350	47.6'	4,050	58.8'	2,750				
	77.5	40.8'	6,200	54.9'	3,900	65.3'	2,700				
	75	48.6'	6,050	61.9'	3,700	71.6'	2,600				
	72.5	56.0'	5,600	68.5'	3,550	77.5'	2,550				
	70	63.0'	5,200	75.0'	3,350	83.2'	2,500				
	67.5	69.1'	4,500	81.0'	3,100	88.7'	2,450				
	65	75.1'	3,800	86.6'	2,850	93.7'	2,400				
	62.5	90.9'	3,050	91.9'	2,400	98.6'	2,150				
	60	86.1'	2,400	97.1'	1,950	103.3'	1,900				
	57.5	91.6'	1,800	102.1'	1,500	107.5'	1,500				
	55	96.7'	1,300	106.7'	1,100	111.6'	1,100				

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

 \boldsymbol{W} :Rated lifting capacity in pounds

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

SET UP

- Rated lifting capacities on the load chart are the maximum allowable crane capacities. They 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.
- Rated lifting capacities above bold 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.
- 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 20mph(9m/s) to 27mph(12m/s); reduced by 70% when the wind speed is 27mph(12m/s) to 31mph(14m/s). If the wind speed is 31mph(14m/s) or over, stop operation. During jib lift, stop operation if the wind speed is 20mph(9m/s)
- 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.
- 10. When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.
- Load per line should not exceed 12,300 lbs. (5,600kg) for main hoist and auxiliary hoist.
- 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 hoist 12,300 lbs.(5,600kg) 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. The 35.1' (10.7m) boom length capacities are based on boom fully retracted. If not fully retracted [less than 48.2'(14.7m) boom length], use the rated lifting capacities for the 48.2' (14.7m) boom length.
- 15. Extension or retraction of the boom with loads may be attempted within the limits of the RATED LIFTING CAPACITIES. The ability to telescope loads is limited by hydraulic pressure, boom angle, boom length, crane maintenance, etc.
- 16. For 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 12,300 lbs. (5,600kg) including main hook.
- 17. When base jib or top jib or both jib removing, jib state switch select removed.
- 18. When erecting and stowing jib, be sure to retain it by hand or by other means to prevent its free movement.
- Use "ANTI-TWO BLOCK" 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.
- 20. For boom length with 28.9' (8.8m) jib, rated lifting capacities are determined by loaded boom angle only in the column headed "113.9' (34.7m) boom + 28.9' (8.8m) jib".
 For boom length with 50' (15.2 m) jib, rated lifting capacities are determined by loaded boom angle only in the column headed "113.9' (34.7m) boom + 50' (15.2m) jib".
 For angles not shown, use the next lower loaded boom angle to determine allowable capacity.
- 21. When lifting a load by using jib (aux. hoist) and boom (main hoist) simultaneously, do the following:
 - Enter the operation status as jib operation, not as boom operation.
 - Before starting operation, make sure that mass of load is within rated lifting capacity for jib.

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.
- 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 hoist line.
- Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.

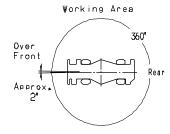
	ON RUBBER																	
\ A						Stati	onary								C	reep		
			Ove	er Front			360° Rotation				Over Front							
	- ;	35.1'	61.4'		87.6'		35.1'		61.4'		-	37.6'	35.1'		(31.4'	87.6'	
в	С	(10.7m)	U	(18.7m)	O	(26.7m)	O	(10.7m)	U	(18.7m)	O	(26.7m)	U	(10.7m)	С	(18.7m)	C	(26.7m)
10'	66	48,300					66	27,200					66	35,600				
12'	62	41,800					62	22,500					62	30,500				
15'	56	34,300	72	30,500			56	16,300	72	16,300			56	24,700	72	26,000		
20'	45	26,000	67	23,300			45	9,200	67	10,700			45	18,300	67	19,400		
25'	29	18,100	62	18,300	71	13,400	30	5,500	62	6,800	71	7,500	29	13,900	62	15,200	71	13,400
30'			56	13,900	68	11,000			56	4,600	68	5,000			56	12,100	68	11,000
35'			50	10,700	64	9,200			50	2,900	64	3,500			50	9,600	64	9,200
40'			43	8,300	60	7,900			43	1,800	60	2,200			43	7,700	60	7,900
45'			35	6,500	57	6,900			35	1,000	56	1,400			35	6,200	57	6,900
50'			25	5,100	52	5,500									25	5,100	52	5,500
55'					48	4,400											48	4,400
60'					43	3,600											43	3,600
65'					38	2,800											38	2,800
70'					31	2,200											31	2,200
75'					23	1,700											23	1,700
80'					9	1,300											9	1,300
D	0							0		28		53				0		

	LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON RUBBER OPERATION																	
	\	Α		Stationary										Creep				
		Ī		Over Front							360° Rotation	Over Front						
		Ī	3	35.1'	(51.4'	8	37.6'	3	35.1'		35.1'		(61.4'		37.6'	
1	c '	V	В	(10.7m)	В	(18.7m)	В	(26.7m)	С	(10.7m)		В	(10.7m)	В	(18.7m)	В	(26.7m)	
Γ	0		27.8'	15,500	54.1'	4,100	80.2'	1,190	27.8'	4,050		27.8	12,000	54.1'	4,100	80.2'	1,190	

- A:Boom length in feet
- B:Load radius in feet
- C:Loaded boom angle (°)
- **D**:Minimum boom angle (°) for indicated length (no load)

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. Standard number of parts of line for rubber operation should be according to the following table.

Boom length in feet	35.1'	35.1' to 87.6'	Single top
(meters)	(10.7m)	(10.7m to 26.7m)	Jib
Number of parts of line	6	4	1



WARNING AND OPERATING INSTRUCTIONS 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 axle oscillation lockout applied. Those above bold 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 axle oscillation lockout 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
23.5-25	65 psi (450 kPa)

- Over front operation shall be performed within two degrees in front of chassis.
- 7. On rubber lifting with "jib" is not permitted. Maximum permissible boom length is 87.6' (26.7m).
- 8. When making lift on rubber stationary, set parking brake.
- For creep operation, boom must be centered over front of machine, swing lock engaged, and load restrained from swinging. 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' (60 m) in any 30 minute period and to travel at the speed of less than 1 mph (1.6km/h)
- 12. For creep operation, choose the drive mode and proper gear according to the road or working condition.

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

- 1. When operating crane on outriggers:
 - · Set P.T.O. switch to "ON".
 - Press the outrigger mode select key to register for the outrigger operation. Press the register key, then the outrigger mode indicative symbol changes from flashing to a solid light.
 - Press the lift mode select key to select the lift status that corresponds to the actual boom configuration.
 Each time the lift mode select key is pressed, the status changes.
 Press the register key to register the lift status, then the lift indicative symbol changes from flashing to a solid light.
 - when mounting and stowing jib, select the jib set status. (the jib state indicative symbol will be flashing.)
- 2. When operating crane on rubber:
 - . Set P.T.O. switch to "ON".
 - Press the outrigger mode select key. The on-tire mode indicative symbol comes on. Each time the outrigger mode select key is pressed the status changes. Select the creep operation, the on-tire mode indicative symbol flicker.
 - Press the lift mode select key to register the boom or single top lift

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 swung 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.
- A swing does not automatically stop even if the crane becomes overloaded.
- During crane operation, make sure that the displays on front panel are in accordance with actual operating conditions.
- 5. 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 swinging, lifting loads shall be appropriately reduced.
- 6. 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-550XL Axle weight distribution chart

	Pounds			Kilograms		
	GVW	Front	Rear	GVW	Front	Rear
Base machine	74,850	38,500	36,350	33,950	17,460	16,490
Remove: 1. 6.2 ton (5.6 metric ton) hook ball	-330	-460	130	-150	-209	59
2. 55 ton (50 metric ton) hook block	-1,180	-2,160	980	-534	-980	446
3. Top jib	-500	-630	130	-227	-286	59
4. Base jib	-1,380	-2,510	1,130	-626	-1,139	513
Auxiliary lifting sheave	-110	-300	190	-50	-136	86

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