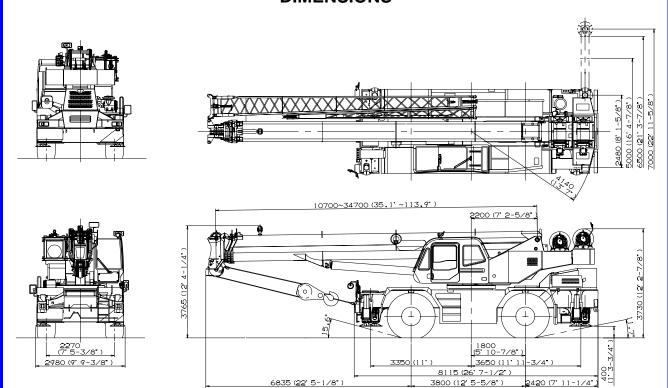


## **GR-550XL-2**

50.0 Metric Tons(55 Ton) Capacity

## **HYDRAULIC ROUGH TERRAIN CRANE**

### **DIMENSIONS**



13055 (42' 10")

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

()Reference dimensions in feet

### GENERAL DIMENSIONS (23.5 - 25 Tires)

Turning radius
4 wheel steer
2 wheel steer
11.7

Meters Feet
6.7
22'
11.7
38'5"

Specifications are subject to change without notice.

## CRANE SPECIFICATIONS

#### **BOOM**

Four section full power synchronized telescoping boom, 10.7m~34.7m (35.1'~113.9'), of round box construction with four sheaves, 0.44m (17-5/16") 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 24.0m 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. Elevating speed 20°~60° in 27 seconds.

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

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

Single sheave, 0.396m(15-5/8") 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 2.7min<sup>-1</sup>{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 0.40m(15-3/4") root diameter x 0.599m (23-9/16") wide. Wire rope: 193m of 19mm diameter rope (633' of 3/4"). Drum capacity: 327.5m (1,074') 7 layers. Maximum single line pull: 1st layer 6,880kg (15,200 lbs). Maximum permissible line pull wire strength:7,085kg (15,600 lbs).

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 0.40m(15-3/4") root diameter x 0.599m (23-9/16") wide. Wire rope: 110m of 19mm diameter rope (361' of 3/4"). Drum capacity: 327.5m (1,074') 7 layers. Maximum single line pull: 1st layer 6,880kg (15,200 lbs). Maximum permissible line pull wire strength:7,085kg (15,600 lbs).

WIRE ROPE - Warrington seal wire, extra improved plow steel, preformed, independent wire rope core, right regular lay. 19 mm(3/4") 6X31 class

#### **HOOK BLOCKS**

50.0 metric ton (55 ton) - 5 sheaves with swivel hook and safety latch, for 19mm(3/4") wire rope.(OPTIONAL) 5.6 metric ton (6.2 ton) - Weighted hook with swivel and safety latch, for 19mm(3/4") wire rope.

#### **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 - 560 lit. (148 gallon) 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 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 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

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

and air conditioning control switch. Swing lock lever.

## **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 - 50 km/h (31 mph)

**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) Air pressure: 450 kPa (65 psi )

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 7.0 m (22'11-5/8") center-line and retract to within 2.98 m (9' 9-3/8") 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 2.48m (8' 1-5/8") center to center
Mid. Extension 5.0 m (16' 4-7/8") center to center
Mid. Extension 6.5 m (21' 3-7/8") center to center
Max. Extension 7.0 m (22' 11-5/8") center to center

Float size(Diameter) 0.5m (1' 7-11/16")

### **ENGINE**

Model Mitsubishi 6M60-TLA3B (Tier2) Type Direct injection diesel No. of cylinders Combustion 4 cycle, turbo charged and after cooled BoreXStroke, mm(in.) 118X115 (4.646 X 4.528) Displacement, liters (cu. in) 7.54 (460) Air inlet heater 24 volt preheat Dry type, replaceable element Air cleaner Oil filter Full flow with replaceable element Fuel filter Full flow with replaceable element Fuel tank, liters(gal.) 300 (79.2), right side of carrier Cooling Liquid pressurized, recirculating by-pass Radiator Fin and tube core, thermostat controlled Fan, mm(in.) Suction type, 6-blade, 600 (23.6) dia. Starting 24 volt Charging 24 volt system, negative ground Battery 2-120 amp. Hour Compressor, air, I /min(CFM) 830 (29) at 2,600rpm Horsepower. kW(HP) Gross 200 (267) at 2,600rpm Torque, Max. kgm (ft-lb) 80 (579) at 1,400rpm Capacity, liters (gal.) Cooling water 13 (3.4) Lubrication 13-15 (3.4-4.0) Fuel 300 (79.2)

## STANDARD EQUIPMENT

- Four section full power partially synchronized boom 10.7 m~34.7 m(35.1'~113.9')
- 8.8 m or 15.2 m(28.9' or 50') bi-fold lattice jib (tilt type) with 5°. 25° or 45° pinned offsets and self storing pins.
- Quick reeving type bi-fold jib
- Anti-Two block device (overwind cutout)
- Mirror for main and auxiliary hoists
- Work lights
- Variable speed main hoist with grooved drum, cable follower and 193m of 19mm(633' of 3/4") cable.
- Variable speed auxiliary hoist with grooved drum, cable follower and 110m of 19mm(361' of 3/4") cable.
- Drum rotation indicator (audible, visible and thumper type) main and auxiliary hoist
- Auxiliary lifting sheave (single top) stowable
- 5.6 metric ton(6.2 ton) hook with swivel
- Tadano twin swing system and 360° positive swing lock
- Positive control
- Hydraulic oil cooler
- 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
- Hot water cab heater and air conditioner
- 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)
- 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 differential
- Semi-elliptic leaf springs suspension with hydraulic lockout device (front and rear)
- 23.5-25 (OR) tires
- Disc brakes
- Water separator with filter(high filtration)
- Back-up alarm
- 24 volt electric system
- Tool storage compartment
- Tire inflation kit
- Mitsubishi 6M60-TLA3B turbo charged after cooled engine (267HP) with exhaust brake
- Engine over-run alarm
- Lifting eves
- Telecommunications terminal (HELLO-NET Owner's Site)
- Fuel consumption monitor
- Eco mode system

## **OPTIONAL EQUIPMENT**

 50.0 metric ton (55 ton) - 5 sheave with swivel hook and safety latch for 19mm(3/4") wire rope

## HOISTING PERFORMANCE

### **LINE SPEEDS AND PULLS**

	Main or a	uxiliary hoist	- 0.4m (15-3	3/4") drum
Layer	Line s <sub>l</sub>	peeds <sup>1</sup>		pulls able <sup>2</sup>
	m/min	F.P.M	kgf	Lbs.
1st	109	358	6,880	15,200
2nd	118	387	6,310	13,900
3rd	127	417	5,820	12,800
4th	136	446	5,410	11,900
5th	144	475	5,050	11,100
6th	153	504	4,730	10,400
7th <sup>3</sup>	162	533	4,460	9.800

- Maximum permissible line pull wire strength 7,085kg(15,600lbs) with 6X31 class rope.

<sup>1</sup> 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.

<sup>3</sup> Seventh layer of wire rope are not recommended for hoisting operations.

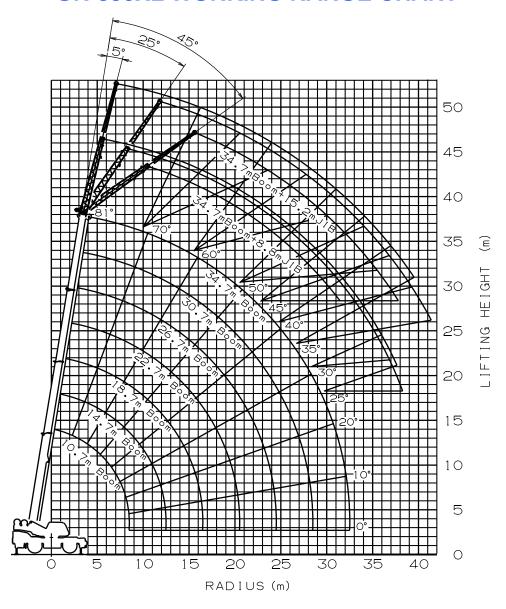
### **DRUM WIRE ROPE CAPACITIES**

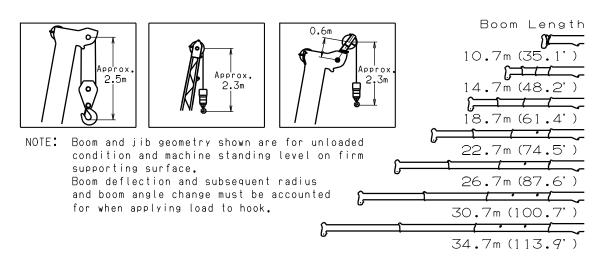
Wire	Main a	and auxiliary di	rum grooved la	agging						
_		19mm (3/4	") wire rope							
rope	Rope p	er layer	Total w	ire rope						
layer	Meters	Feet	Meters	Feet						
1	37.6	37.6 123.3 37.6 123								
2	40.7	133.5	78.3	256.8						
3	43.7	143.3	122.0 400.2							
4	46.8	153.5	168.8	553.8						
5	49.8	163.3	218.6	717.1						
6	53.0	173.8	271.6	891.0						
7	55.9	183.3	327.5	1074.4						

### **DRUM DIMENSIONS**

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

## **GR-550XL WORKING RANGE CHART**





		Ol	N OUT	RIGGE	RS FU	LLY EX	TENDE	D 7.0m	(22' 1	1-5/8") \$	SPREA	\D		
						360°	ROTA	TION						
A	10	).7	14	1.7	18	3.7	22	2.7	26	6.7	30	0.7	34	1.7
В	С	(35.1')	С	(48.2')	С	(61.4')	С	(74.5')	С	(87.6')	С	(100.7')	С	(113.9')
2.4	70	50.0												
3.0	66	46.0	73	21.2	77	21.2	80	20.1						
3.5	63	41.4	71	21.2	75	21.2	79	20.1	81	18.7				
4.0	60	37.4	69	21.2	74	21.2	77	20.1	80	18.5				
4.5	57	33.8	67	21.2	72	21.2	76	20.1	79	18.3	81	15.0		
5.0	53	30.9	65	21.2	71	21.2	75	19.8	78	17.7	80	14.6		
5.5	49	28.1	63	21.2	69	21.2	74	19.5	77	17.0	79	14.3		
6.0	45	25.2	60	21.2	67	21.2	72	19.2	76	16.4	78	13.9	80	11.4
6.5	40	22.8	58	20.7	66	20.7	71	18.8	75	15.7	77	13.5	79	11.2
7.0	34	20.4	56	20.2	64	20.2	70	18.4	73	15.1	76	13.0	79	11.1
7.5	28	18.0	53	19.6	62	19.6	68	18.0	72	14.5	75	12.5	78	10.9
8.0	23	16.0	50	18.5	61	18.6	67	17.5	71	14.0	74	12.1	77	10.6
9.0			45	15.7	57	16.2	64	16.3	69	13.1	72	11.4	75	9.9
10.0			38	13.2	53	13.7	61	13.9	66	12.2	70	10.8	73	9.4
11.0			29	11.1	49	11.5	58	11.7	64	11.1	68	10.2	72	8.9
12.0			18	9.5	44	9.9	55	10.1	62	9.8	66	9.4	70	8.7
14.0					34	7.5	48	7.6	56	7.7	62	7.6	66	7.5
16.0					17	5.9	40	6.0	51	6.1	57	6.0	62	6.1
18.0							30	4.8	44	4.8	52	4.8	58	4.9
20.0							15	3.9	37	3.9	47	3.9	54	3.9
22.0									28	3.2	41	3.3	49	3.3
24.0									17	2.7	35	2.7	44	2.7
26.0											27	2.2	39	2.3
28.0											14	1.9	33	1.9
30.0													25	1.5
32.0													13	1.1
D							(	)						

LIF	LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS FULLY EXTENDED													
	7.0m (22' 11-5/8") SPREAD 360° ROTATION													
_ A	41 407 447 407 407 407 407													
C	B (35.1') B (48.2') B (61.4') B (74.5') B (87.6') B (100.7') B (113.9')													
0	8.5	7.5	12.5	4.8	16.5	3.2	20.5	2.2	24.4	1.5	28.3	1.0	32.1	0.6

			ON O	JTRIGO	ERS N	/IID EX	ΓENDE	D 6.5m	(21'3-	7/8") SP	READ			
							ROTA		`	,				
_ A	10	0.7	14	1.7	18	3.7	22	7	26	6.7	30	0.7	34	4.7
В	С	(35.1')	С	(48.2')	С	(61.4')	С	(74.5')	С	(87.6')	С	(100.7')	С	(113.9')
2.4	70	50.0												
3.0	66	46.0	73	21.2	77	21.2	80	20.1						
3.5	63	41.4	71	21.2	75	21.2	79	20.1	81	18.7				
4.0	60	37.4	69	21.2	74	21.2	77	20.1	80	18.6				
4.5	57	33.8	67	21.2	72	21.2	76	20.1	79	18.3	81	15.0		
5.0	53	30.9	65	21.2	71	21.2	75	19.8	78	17.7	80	14.7		
5.5	49	28.1	63	21.2	69	21.2	74	19.5	77	17.1	79	14.3		
6.0	45	25.2	60	21.2	67	21.2	72	19.2	76	16.4	78	13.9	80	11.4
6.5	40	22.8	58	20.5	66	20.6	71	18.8	75	15.8	77	13.5	79	11.2
7.0	34	20.4	55	19.6	64	19.7	70	18.4	73	15.1	76	13.0	79	11.1
7.5	28	18.0	53	18.6	62	18.9	68	18.0	72	14.5	75	12.5	78	10.9
8.0	23	15.9	50	17.0	60	17.3	67	16.8	71	14.0	74	12.1	77	10.6
9.0			45	13.4	57	13.7	64	13.8	69	13.2	72	11.4	75	9.9
10.0			38	11.0	53	11.3	61	11.5	66	11.4	70	10.7	73	9.4
11.0			29	9.1	49	9.4	58	9.5	64	9.7	68	9.7	72	8.8
12.0			18	7.7	44	8.0	55	8.1	62	8.2	66	8.3	70	8.2
14.0					34	6.0	48	6.1	56	6.2	62	6.3	66	6.2
16.0					17	4.6	40	4.8	51	4.9	57	4.9	62	4.9
18.0							30	3.8	44	3.8	52	3.9	58	3.9
20.0							15	3.0	37	3.1	47	3.1	54	3.1
22.0									28	2.5	41	2.5	49	2.5
24.0									13	1.9	35	2.0	44	2.1
26.0											27	1.7	39	1.7
28.0											14	1.3	33	1.3
30.0													25	1.1
32.0													12	0.8
D								)			,			

	LI	LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MID EXTENDED													
	6.5m (21'3-7/8") SPREAD 360° ROTATION														
	Α	10	.7	14	.7	18	3.7	22	2.7	26	5.7	30	1.7	34	.7
C \	C B (35.1') B (48.2') B (61.4') B (74.5') B (87.6') B (100.7') B (113.9')														
0		8.5	7.5	12.5	4.8	16.5	3.2	20.5	2.2	24.4	1.5	28.3	1.0	32.1	0.6

- $\boldsymbol{\mathsf{A}}$  :Boom length in meters
- B :Load radius in meters
- **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 meters	10.7	10.7 to 18.7	18.7 to 34.7	Single top
	(35.1')	(35.1' to 61.4')	(61.4' to 113.9')	Jib
Number of parts of line	10	6	4	1

		(	ON OL	JTRIGG	ERS N	IID EX	ΓENDE	D 5.0m	(16'4-	7/8") SF	PREAD	)		
							ROTA		`	,				
_ A	10	).7	14	1.7	18	3.7	22	2.7	26	6.7	30	).7	34	1.7
В	С	(35.1')	С	(48.2')	С	(61.4')	С	(74.5')	С	(87.6')	С	(100.7')	С	(113.9')
2.4	70	50.0												
3.0	66	46.0	73	21.2	77	21.2	80	20.1						
3.5	63	41.4	71	21.2	75	21.2	79	20.1	81	18.7				
4.0	60	37.2	69	21.2	74	21.2	77	20.1	80	18.6				
4.5	57	33.4	67	21.2	72	21.2	76	20.1	79	18.3	81	15.0		
5.0	53	28.5	65	20.3	71	20.4	75	19.7	78	17.7	80	14.7		
5.5	49	23.5	62	19.3	69	19.5	74	19.3	77	17.1	79	14.3		
6.0	45	18.5	60	18.3	67	18.6	72	18.9	76	16.4	78	13.9	80	11.4
6.5	39	15.8	58	16.4	66	16.8	71	17.1	75	15.3	77	13.5	79	11.3
7.0	33	13.7	55	14.4	64	14.7	69	15.0	73	14.0	76	13.0	79	11.1
7.5	27	11.7	53	12.3	62	12.6	68	12.8	72	12.8	75	12.5	78	10.9
8.0	23	10.2	50	11.0	60	11.2	67	11.5	71	11.6	74	11.5	77	10.4
9.0			44	8.7	57	8.9	64	9.2	69	9.3	72	9.3	75	9.1
10.0			38	7.2	53	7.4	61	7.6	66	7.8	70	7.8	73	7.7
11.0			29	5.9	49	6.2	58	6.4	64	6.5	68	6.5	71	6.5
12.0			18	4.9	44	5.3	55	5.5	61	5.6	66	5.6	69	5.6
14.0					34	3.8	48	4.1	56	4.2	61	4.2	65	4.2
16.0					17	2.8	40	3.1	50	3.1	57	3.1	62	3.2
18.0							30	2.3	44	2.4	52	2.4	57	2.4
20.0							15	1.7	37	1.8	47	1.8	53	1.8
22.0									28	1.4	41	1.4	49	1.4
24.0									14	1.0	34	1.0	44	1.1
26.0											26	0.7	38	0.8
28.0											13	0.5	33	0.6
D		-				(	)						1	19

LIF	TING (	CAPAC	ITIES A	AT ZEF	O DEC	REE E	BOOM A	ANGLE	ON OL	JTRIGO	GERS I	MID EX	TENDED
	5.0m (16'4-7/8") SPREAD 360° ROTATION												
A	A 10.7 14.7 18.7 22.7 26.7 30.7												
c \	В	(35.1')	В	(48.2')	В	(61.4')	В	(74.5')	В	(87.6')	В	(100.7')	
0	8.5	7.5	12.5	4.5	16.5	2.6	20.5	1.6	24.4	0.9	28.3	0.4	

			ON OL	JTRIGG	ERS N	IIN EX	ΓENDE	D 2.48	m (8'1-	5/8") SF	PREAD	)		
						360°	ROTA	TION						
A	10	).7	14	1.7	18	3.7	22	2.7	26	6.7	30	).7	34	4.7
В	С	(35.1')	С	(48.2')	С	(61.4')	C	(74.5')	C	(87.6')	С	(100.7')	С	(113.9')
2.4	70	34.4												
3.0	66	23.0	73	21.2	77	21.2	80	20.1						
3.5	63	17.2	71	17.6	75	17.5	79	17.0	81	15.2				
4.0	60	13.5	69	14.3	74	14.3	77	14.1	80	13.6				
4.5	57	10.7	67	11.3	72	11.6	76	11.6	78	11.2	81	10.4		
5.0	53	9.0	65	9.7	71	10.0	75	10.0	77	9.7	79	9.4		
5.5	49	7.6	62	8.2	69	8.5	73	8.6	76	8.4	78	8.1		
6.0	45	6.2	60	6.8	67	7.1	72	7.3	75	7.1	77	6.9	80	6.3
6.5	40	5.3	58	5.9	66	6.1	70	6.4	74	6.3	76	6.1	78	5.8
7.0	35	4.6	55	5.1	64	5.4	69	5.6	73	5.6	75	5.4	77	5.1
7.5	30	3.8	53	4.4	62	4.6	68	4.8	72	4.9	74	4.7	76	4.5
8.0	23	3.3	50	3.8	60	4.0	66	4.3	70	4.4	73	4.2	76	4.0
9.0			44	2.9	57	3.1	63	3.3	68	3.4	71	3.3	74	3.2
10.0			38	2.2	53	2.4	60	2.6	66	2.7	69	2.7	72	2.5
11.0	-		30	1.6	49	1.9	57	2.0	63	2.1	67	2.1	70	2.0
12.0			19	1.2	44	1.4	54	1.6	61	1.7	65	1.7	68	1.6
14.0	-				33	0.7	47	0.9	56	1.0	61	1.0	65	0.9
16.0	•		•		•						56	0.5	61	0.5
D				0			3	36	4	14	5	51		57

	LIF	TING (	CAPAC	ITIES A	AT ZER	O DEGREE BOOM	ANGLE ON OUTRIGGERS MIN EXTENDED	
					2.48m	(8'1-5/8") SPREAD	360° ROTATION	
	Α	10.	.7	14	.7			
С		В	(35.1')	В	(48.2')			
(	0 8.5 2.7 12.5 1.0							

- A:Boom length in meters
- B:Load radius in meters
- $\boldsymbol{C}$  :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 meters	10.7	10.7 to 18.7	18.7 to 34.7	Single top
	(35.1')	(35.1' to 61.4')	(61.4' to 113.9')	Jib
Number of parts of line	10	6	4	1

## ON OUTRIGGERS FULLY EXTENDED 7.0m (22'11-5/8") SPREAD 360° ROTATION

		34.7m (1	13.9') Boo	m + 8.8m	(28.9') Jib	)	
С	5°	Tilt	25°	Tilt	45°	45° Tilt	
	R	W	R	W	R	W	
80	7.9	5.6	10.6	3.8	12.7	2.7	
77.5	10.0	5.4	12.5	3.6	14.4	2.7	
75	12.1	5.2	14.5	3.5	16.2	2.6	
72.5	14.0	4.8	16.3	3.3	17.8	2.5	
70	16.0	4.4	18.1	3.2	19.5	2.5	
67.5	17.7	4.1	19.8	3.1	21.0	2.4	
65	19.5	3.9	21.5	3.0	22.6	2.4	
62.5	21.2	3.6	23.0	2.9	24.0	2.3	
60	22.8	3.4	24.5	2.8	25.5	2.3	
57.5	24.2	3.0	26.0	2.6	26.9	2.3	
55	25.6	2.6	27.4	2.4	28.2	2.2	
52.5	27.0	2.3	28.7	2.1	29.3	2.0	
50	28.4	2.0	29.9	1.9	30.4	1.8	
47.5	29.6	1.8	31.1	1.7	31.4	1.6	
45	30.9	1.6	32.2	1.5	32.5	1.4	
42.5	32.1	1.4	33.2	1.3			
40	33.2	1.3	34.2	1.2			
37.5	34.2	1.1	35.1	1.1			
35	35.3	1.0	36.0	1.0			
32.5	36.2	0.9	36.8	0.9			

37.6

38.2

38.7

8.0

8.0

0.7

		34.7m (1	13.9') Boo	m + 15.2r	n (50') Jib			
С	5°	Tilt	25°	Tilt	45° Tilt			
	R	W	R	W	R	W		
80	9.9	2.9	14.5	1.8	18.0	1.2		
77.5	12.4	2.8	16.7	1.8	19.9	1.2		
75	14.8	2.7	18.9	1.7	21.8	1.2		
72.5	17.0	2.6	20.9	1.6	23.6	1.2		
70	19.2	2.4	22.9	1.5	25.4	1.1		
67.5	21.2	2.2	24.7	1.5	27.0	1.1		
65	23.2	2.1	26.5	1.4	28.6	1.1		
62.5	25.1	2.0	28.2	1.4	30.1	1.1		
60	26.9	1.9	29.9	1.3	31.6	1.1		
57.5	28.7	1.8	31.5	1.3	33.0	1.1		
55	30.5	1.7	33.1	1.2	34.3	1.0		
52.5	32.0	1.6	34.5	1.2	35.5	1.0		
50	33.6	1.4	35.9	1.2	36.7	1.0		
47.5	35.0	1.3	37.1	1.1	37.7	1.0		
45	36.4	1.1	38.3	1.0	38.7	1.0		
42.5	37.5	1.0	39.4	0.9		•		
40	38.7	8.0	40.4	0.8				
37.5	39.8	0.7	41.3	0.7				
35	41.0	0.6	42.2	0.6				

 $\boldsymbol{C}$  :Loaded boom angle (°)

R :Load radius in meters

37.0

37.8

38.5

30

25

27.5

W :Rated lifting capacity in metric ton

8.0

8.0

0.7

## ON OUTRIGGERS MID EXTENDED 6.5m (21'3-7/8") SPREAD 360° ROTATION

		34.7m (113.9') Boom + 8.8m (28.9') Jib							
С	5°	Tilt	25°	Tilt	45°	Tilt			
	R	W	R	W	R	W			
80	7.9	5.6	10.6	3.8	12.7	2.7			
77.5	10.0	5.4	12.5	3.6	14.4	2.7			
75	12.1	5.2	14.5	3.5	16.2	2.6			
72.5	14.0	4.8	16.3	3.3	17.8	2.5			
70	16.0	4.4	18.1	3.2	19.5	2.5			
67.5	17.7	4.0	19.8	3.1	21.0	2.4			
65	19.4	3.6	21.5	3.0	22.6	2.4			
62.5	20.9	3.1	22.9	2.6	24.0	2.2			
60	22.4	2.6	24.4	2.3	25.5	2.1			
57.5	23.9	2.3	25.7	2.0	26.7	1.9			
55	25.4	2.0	27.1	1.7	28.0	1.7			
52.5	26.8	1.8	28.4	1.5	29.1	1.5			
50	28.2	1.5	29.7	1.3	30.3	1.3			
47.5	29.4	1.3	30.8	1.1	31.3	1.1			
45	30.7	1.1	32.0	1.0	32.4	0.9			
42.5	31.9	0.9	33.0	0.8		•			
40	33.0	0.7	34.1	0.7					
37.5	34.1	0.6	35.0	0.6					
					1				

35.9

0.5

		34.7m (1	13.9') Boo	m + 15.2r	n (50') Jib	
С	5°	Tilt	25°	Tilt	45°	Tilt
	R	W	R	W	R	W
80	9.9	2.9	14.5	1.8	18.0	1.2
77.5	12.4	2.8	16.7	1.8	19.9	1.2
75	14.8	2.7	18.9	1.7	21.8	1.2
72.5	17.0	2.6	20.9	1.6	23.6	1.2
70	19.2	2.4	22.9	1.5	25.4	1.1
67.5	21.2	2.2	24.7	1.5	27.0	1.1
65	23.2	2.1	26.5	1.4	28.6	1.1
62.5	25.1	2.0	28.2	1.4	30.1	1.1
60	26.9	1.9	29.9	1.3	31.6	1.1
57.5	28.5	1.6	31.5	1.2	33.0	1.1
55	30.2	1.4	33.0	1.1	34.3	1.0
52.5	31.6	1.1	34.4	1.0	35.4	0.9
50	33.1	0.9	35.7	0.8	36.5	0.8
47.5	34.5	0.8	36.9	0.7	37.5	0.7
45	35.9	0.6	38.1	0.5	38.5	0.5

## ON OUTRIGGERS MID EXTENDED 5.0m (16'4-7/8") SPREAD 360° ROTATION

		34.7m (11	13.9') Boo	m + 8.8m	(28.9') Jib	
С	5°	Tilt	25°	Tilt	45° Tilt	
	R	W	R	W	R	W
80	7.9	5.6	10.6	3.8	12.7	2.7
77.5	10.0	5.4	12.5	3.6	14.4	2.7
75	12.1	5.2	14.5	3.5	16.2	2.6
72.5	13.9	4.4	16.2	3.2	17.8	2.5
70	15.6	3.6	18.0	2.9	19.5	2.4
67.5	17.3	3.0	19.5	2.5	20.9	2.2
65	19.0	2.4	21.1	2.1	22.4	2.0
62.5	20.5	2.0	22.6	1.8	23.8	1.7
60	22.0	1.5	24.0	1.4	25.2	1.4
57.5	23.5	1.3	25.4	1.2	26.4	1.1
55	24.9	1.0	26.8	0.9	27.7	0.9
52.5	26.3	0.8	28.1	0.7	28.8	0.7
50	27.7	0.6	29.4	0.5	30.0	0.5

	34.7m (113.9') Boom + 15.2m (50') Jib								
С	5°	Tilt	25°	Tilt	45°	45° Tilt			
	R	W	R	W	R	W			
80	9.9	2.9	14.5	1.8	17.9	1.2			
77.5	12.4	2.8	16.7	1.8	19.9	1.2			
75	14.8	2.7	18.9	1.7	21.8	1.2			
72.5	17.0	2.6	20.9	1.6	23.6	1.2			
70	19.2	2.4	22.9	1.5	25.4	1.1			
67.5	21.0	2.0	24.6	1.4	27.0	1.1			
65	22.9	1.7	26.4	1.3	28.6	1.1			
62.5	24.6	1.4	28.0	1.1	30.0	1.0			
60	26.2	1.1	29.6	0.9	31.5	0.9			
57.5	27.9	0.8	31.1	0.7	32.8	0.7			
55	29.5	0.6	32.5	0.5	34.0	0.5			

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

35.1

0.5

W :Rated lifting capacity in metric ton

## 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.

#### SFT 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.
- 2. For outrigger operation, outriggers shall be properly extended with tires free of supporting surface before operating crane.

#### **OPERATION**

- Rated lifting capacities have been tested to and meet minimum requirements of SAE J1063-Cantilevered Boom Crane Structures Method of Test.
- Rated lifting capacities do not exceed 85 % of the tipping load on outriggers fully extended as determined by SAE J765-Crane Stability Test Code.
   Rated lifting capacities for partially extended outriggers are
  - determined from the formula, Rated Lifting Capacities =(Tipping Load 0.1 x Tip Reaction)/1.25.
- Rated lifting capacities above thick lines in the chart are based on crane strength and those below, on its stability. They are based on actual load radius increased by boom deflection.
- The weight of handling device such as hook blocks, slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.
- 5. Rated lifting capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tires, operating speeds, side loads, etc. Side pull on the boom or jib is extremely dangerous. Such action can damage the boom, jib or swing mechanism,
  - Such action can damage the boom, jib or swing mechanism, and lead to overturning the crane.
- 6. Rated lifting capacities do not account for wind on lifted load or boom. We recommend against working under the 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 9m/s(20mph) to 12m/s(27mph); reduced by 70% when the wind speed is 12m/s(27mph) to 14m/s(31mph). If the wind speed is 14m/s(31mph) or over, stop operation. During jib lift, stop operation if the wind speed is 9m/s(20mph) or over.
- 7. 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.
- Load per line should not exceed 5,600kg (12,300 lbs.) 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 5.600kg (12.300 lbs.) 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 10.7m (35.1') boom length capacities are based on boom fully retracted. If not fully retracted [less than 14.7m(48.2') boom length], use the rated lifting capacities for the 14.7m (48.2') 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, 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 excer 5,600kg (12,300 lbs.) including main boom hook mass attached.
- 17. When the base jib or top jib or both jibs are removed, set the jib st switch to the REMOVED position.
- 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 8.8m (28.9') jib, rated lifting capacities are determined by loaded boom angle only in the column headed "34.7m (113.9') boom + 8.8m (28.9') jib". For boom length with 15.2 m (50') jib, rated lifting capacities are determined by loaded boom angle only in the column headed "34.7m (113.9') boom + 15.2m (50') 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. winch) and boom (main winch) simultaneously, do the following:
  - Enter the operation status as jib operation, not as boom operation.
  - Before starting operation, make sure that mass of load is within rated lifting capacity for jib.

### **DEFINITIONS**

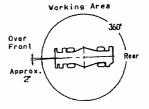
- Load Radius: Horizontal distance from a projection of the axis
  of rotation to supporting surface before loading to the center of
  the vertical hoist line or tackle with load applied.
- Loaded Boom Angle: The angle between the boom base section and the horizontal, after lifting the rated lifting 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 STATIONARY											
			Ove	r Front			360 ° Rotation					
\ A		10.7	,	18.7	2	26.7		10.7		18.7		26.7
в	С	(35.1')	С	(61.4')	С	(87.6')	С	(35.1')	С	(61.4')	С	(87.6')
3.0	66	21.9					66	12.3				
3.5	63	19.7					63	10.8				
4.0	60	17.7	74	13.8			60	9.2				
4.5	57	15.8	72	13.8			56	7.6	72	7.4		
5.0	53	14.5	71	12.9			53	6.5	71	6.7		
5.5	49	13.3	69	11.8			49	5.4	69	5.8		
6.0	45	12.0	67	10.8			45	4.4	67	5.0		
6.5	40	10.8	66	10.0	74	6.1	41	3.7	66	4.4	74	3.4
7.0	35	9.7	64	9.2	73	6.1	36	3.2	64	3.8	73	3.4
7.5	30	8.5	62	8.5	72	6.1	31	2.6	62	3.2	72	3.4
8.0	23	7.7	60	7.8	70	5.8	23	2.3	60	2.8	70	3.1
9.0			57	6.5	68	5.1			57	2.2	68	2.4
10.0			53	5.5	66	4.5			53	1.7	66	1.9
11.0			49	4.6	63	4.0			49	1.2	63	1.5
12.0			44	3.9	61	3.7			44	0.9	61	1.1
14.0			34	2.8	56	3.0					56	0.6
16.0			17	2.1	50	2.2						
18.0					44	1.7						
20.0					37	1.2						
22.0					28	0.9						
24.0					14	0.6						
D				0				0		28		53

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON RUBBER STATIONARY										
	Over Front 360° Rotation									
A	1	0.7	1	8.7	2	26.7		0.7		
c /	В	(35.1')	В	(61.4')	В	(87.6')	С	(35.1')		
0	8.5	7.0	16.5	1.9	24.4	0.5	8.5	1.8		

		ON R	UBBER	CREEP		
			Ove	r Front		
A	10.7			18.7	2	26.7
в	C	(35.1')	C	(61.4')	C	(87.6')
3.0	66	16.1				
3.5	63	14.4				
4.0	60	12.8				
4.5	57	11.4	72	11.8		
5.0	53	10.4	71	11.0		
5.5	49	9.4	69	10.0		
6.0	45	8.5	67	9.0		
6.5	41	7.8	66	8.3		
7.0	36	7.1	64	7.7	73	6.1
7.5	31	6.5	62	7.0	72	6.1
8.0	23	5.9	60	6.5	70	5.8
9.0			57	5.6	68	5.1
10.0			53	4.8	66	4.5
11.0			49	4.2	63	4.0
12.0			44	3.6	61	3.7
14.0			33	2.7	56	3.0
16.0			17	2.1	50	2.2
18.0					44	1.7
20.0					37	1.2
22.0					28	0.9
24.0					14	0.6
D				0		

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



LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE									
ON RUBBER CREEP									
		Over Front							
\ A	1	0.7	1	8.7	26.7				
C /	<b>B</b> (35.1') <b>B</b> (61.4') <b>B</b> (87.6')								
0	8.5	85 54 165 19 244 05							

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 on rubber operation should be according to the following table.

Boom length in meters	10.7 (35.1')	10.7 to 26.7 (35.7' to 87.6')	Single top
Number of parts of line	6	4	1

## WARNING AND OPERATING INSTRUCTIONS FOR ON RUBBER LIFTING CAPACITIES

- Rated lifting capacities on rubber are in metric ton 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-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	450 kPa (65 psi)			

- 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 26.7m (87.6').
- 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 60 m (200 ft.) in any 30 minute period and to travel at the speed of less than 1.6km/h (1 mph).
- 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.
- 4. 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
  - For sate operation, it is recommended when extending and lowering boom or swinging, lifting loads shall be appropriately reduced.
- 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		74,770	38,360	36,410	33,920	17,400	16,520
Remove:	1. 5.6metric ton(6.2ton) hook ball	-330	-460	130	-150	-209	59
	2. 50.0metric ton(55ton) hook block	-1,100	-2,020	920	-499	-916	417
	3. Top jib	-500	-630	130	-227	-286	59
	4. Base jib	-1,380	-2,510	1,130	-626	-1,139	513
	5. Auxiliary lifting sheave	-110	-300	190	-50	-136	86

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