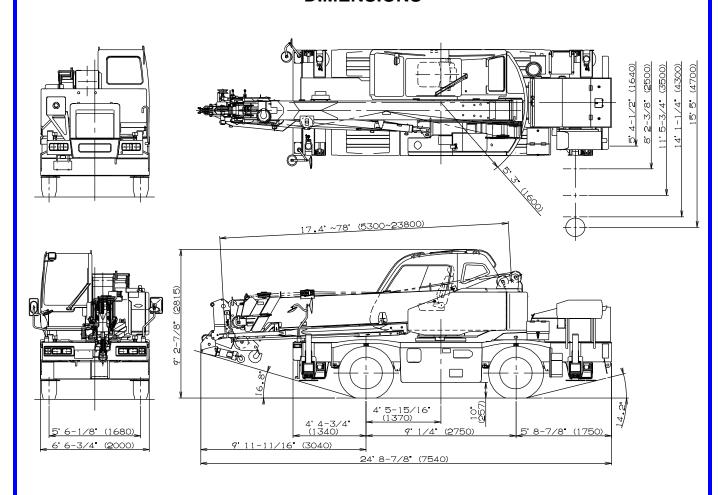


GR-150XL

15 Ton Capacity (13.6 Metric Tons)

HYDRAULIC ROUGH TERRAIN CRANE

DIMENSIONS



GENERAL DIMENSIONS (275/80R22.5 Tires)

,	,	
	Feet	Meters
Turning radius		
4 wheel steer	12' 5-5 / 8"	3.8
2 wheel steer	21' 3-7 / 8"	6.5

Specifications are subject to change without notice.

CRANE SPECIFICATIONS

BOOM

Six section full power synchronized telescoping boom, $17.4'\sim78'$ ($5.3~m\sim23.8~m$), of box construction with 4 sheaves, 9-5 / 16'' (0.236~m) root diameter, at boom head. The synchronization system consists of two double acting telescope cylinders, extension cables and retraction cables. Hydraulic cylinder fitted with holding valve. Boom telescope sections are supported by wear pads both vertically and horizontally.

Extension speed 60.6' (18.5 m) in 52 seconds.

BOOM ELEVATION - By a double acting hydraulic cylinder with holding valve. Elevation -3°~82°, combination controls for hand or foot operation. Boom angle indicator. Automatic speed reduction and soft stop function. Elevation speed -3°~82° in 29 seconds.

JIB - Two stage extension type with 5°, 25°,45° or 60° offset (tilt type). Single sheave, 8"(0.203 m) root diameter, at jib head. Box type top section telescopes from box type base section which stores under base boom section. Jib length is 11.8' (3.6 m) or 18' (5.5 m).

AUXILIARY LIFTING SHEAVE (SINGLE TOP)

Single sheave, 8"(0.203 m) root diameter. Mounted to main boom head for single line work.

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

SWING

Hydraulic axial piston motor driven through planetary swing speed reducer. Continuous 360° full circle swing on ball bearing turntable at 2.4 rpm. Equipped with manually locked / released swing brake. A 360° positive swing lock for pick and carry and travel modes.

HOIST

MAIN HOIST - Grooved drum driven by hydraulic axial piston motor through winch 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.

 \mbox{DRUM} - Grooved 10-7 / 16"(0.265 m) root diameter x 9-7 / 16"(0.239 m) wide. Wire rope: 450' of 7 / 16"diameter rope (137 m of 11.2 mm). Drum capacity: 486.8' (148.4 m) 7 layers. Maximum line pull (available): 6,700 lbs. (3,050 kg). Maximum line speed: 410 FPM (125 m / min) at the 5th layer.

AUXILIARY HOIST - Grooved drum driven by hydraulic axial piston motor through winch 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 10-7 / 16"(0.265 m) root diameter x 9-7 / 16"(0.239 m) wide. Wire rope: 217' of 7 / 16"diameter rope (66 m of 11.2 mm). Drum capacity: 486.8' (148.4 m) 7 layers. Maximum line pull (available): 6,700 lbs. (3,050 kg). Maximum line speed: 361 FPM (110 m / min) at the 3rd layer.

WIRE ROPE - Warrington seal wire, extra improved plow steel, preformed, independent wire rope core, right regular lay. 7 / 16"(11.2 mm) 6 X 37 class

Maximum Permissible Line Pull (Main): 5,450 lbs (2,470 kg) Maximum Permissible Line Pull (Auxiliary): 5,730 lbs (2,600 kg)

HOOK BLOCKS

15.0 ton (13.6 metric ton) - Weighted hook with swivel and safety latch, for 7 / 16"(11.2 mm) wire rope.
2.0 ton (1.8 metric ton) - Weighted hook with swivel and safety latch, for 7 / 16"(11.2 mm) wire rope.

HYDRAULIC SYSTEM

PUMPS - Two variable piston pumps for crane functions. Tandem gear pump for steering, swing and accumulator. 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 - 45 gallon (172 lit.) capacity. External sight level gauge.

FILTRATION - $\beta_{10} \ge 10$ 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.

Right side, 1 man type, steel construction with sliding door access and tinted 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 for swing, boom hoist, boom telescoping, auxiliary hoist and main hoist. Control lever can change neutral positions and tilt for easy access into cab. 3 way adjustable operator's seat with high back, headrest and armrest. Engine throttle knob. Foot operated controls: boom hoist, 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 and outrigger controls.

Instruments - Torque converter oil temperature, engine water temperature, air pressure, fuel, speedometer, tachometer and hour meter. 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 indicataor
- · Outrigger state indicator
- Boom angle / boom length / jib offset angle / 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

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

Operator's left hand console includes transmission gear selector and sight level bubble. Upper console includes roof washer and wiper switch, emergency outrigger set up key switch, jib equipped / removed select switch and air conditioning control switch. Lower console includes working light switch and boom emergency telescoping switch (2nd-3rd and 4th-top).

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

CARRIER SPECIFICATIONS

TYPE - Rear engine, right hand steering, driving axle 2-way selected type by manual switch, 4 x 2 front drive, 4 x 4 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.

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

TRAVEL SPEED - 30.4 mph (49 km/h)

AXLE - Front: Full floating type, steering and driving axle with. Rear: Full floating type, steering and driving axle.

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 - 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 - 275 / 80R22.5

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 15' 5" (4.7 m) center-line and retract to within 5' 4-1 / 2" (1.64 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. Both symmetrical and Non-symmetrical outrigger extension (deployment) is permitted.

Min. Extension

Mid. Extension

Mid. Extension

Mid. Extension

Mid. Extension

Mid. Extension

Max. Extension

5' 4-1 / 2" center to ce

Float size(Diameter) 1' 1-3 / 4" (0.35 m)

ENGINE

Model	WILSUDISTII 4WOU-TLASD EFA) HEIS
Туре	Direct injection diesel
No. of cylinders	4
Combustion	4 cycle, turbo charged and after cooled
Bore x Stroke, in.(mm)	4.488 x 4.724 (114 x 120)
Displacement, cu. in (liters)	299 (4.9)
Air inlet heater	24 volt preheat
Air cleaner	Dry type, replaceable element
Oil filter	Full flow with replaceable element
Fuel filter	Full flow with replaceable element
Fuel tank, gal.(liters)	50 (189), right side of carrier
Cooling	Liquid pressurized, recirculating by-pass

Mitaubiahi AMEO TI AOD EDA\Tioro

Radiator Fin and tube core, thermostat controlled Fan, in.(mm) Suction type, 10-blade, 18 (457) dia. Starting 24 volt Charging 24 volt system, negative ground Battery 2-80 amp. Hour Compressor, air, CFM(I / min) 21.6 CFM (612) at 2,700 rpm Horsepower (kW) Gross 172 (129) at 2,700 rpm Torque, Max. ft-lb (kgm) 390 (54) at 1,600rpm Capacity, gal.(liters) Cooling water 2.9 (11) Lubrication 2.1 ~ 2.9 (8 ~ 11) Fuel 50 (189)

STANDARD EQUIPMENT

- Six section full power partially synchronized boom 17.4' ~ 78' (5.3 m~23.8 m)
- 11.8' or 18' (3.6 m or 5.5 m) box jib (tilt type) with 5°, 25°, 45° or 60° pinned offsets and self storing pins.
- Auxiliary lifting sheave (single top) stowable
- Main hoist with grooved drum and 450' of 7 / 16" cable.
- Auxiliary hoist with grooved drum and 217' of 7 / 16" cable.
- Drum rotation indicator (visual type) main and auxiliary hoist
- Anti-Two block device (overwind cutout)
- Tadano electronic load moment indicator system (AML-C)
- Outrigger extension length detector
- Electronic crane monitoring system
- Self centering finger control levers with pilot control
- Control pedals for boom elevating and boom telescoping
- 3 way adjustable cloth suspension 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)
- Cigarette lighter
- Cab floor mat
- Pump disconnect in operator's cab
- Hydraulic oil cooler
- Independently controlled outriggers
- Four outrigger extension positions
- Self-storing outrigger pads

- Mitsubishi 4M50-TL turbo charged after
- cooled engine(172HP) with exhaust brake Electronic controlled automatic transmission
- driven by torque converter
 4 X 4 X 4 drive/steer
- Hydraulic lockout suspension system
- 275 / 80R22.5 tires
- Disc brakes
- Fenders
- Air dryer
- Water separator with filter
- Engine over-run alarm
- Back-up alarm
- Low oil pressure / high water temp. warning
- device(visual)
 Rear steer centering light
 - Rear steer centering light
- Air cleaner dust indicator
- Full instrumentation package
- Complete highway light package
- Work lights
- Tool storage compartment
- Tire inflation kit
- 24 volt electric system
- 15 ton (13.6 metric ton) hook with swivel
- 2.0 ton (1.8 metric ton) hook with swivel
- Towing hooks-Front and rear
- Hot water cab heater and air conditioner
- Fuel consumption monitor(#FD2021 ~)
- Eco mode system(#FD2021 ~)

HOISTING PERFORMANCE

	Main	or auxiliary	auxiliary hoist - 10-7 / 8" (0.28 m) drum, 7 / 16" (11.2 mm) wire rope								
Lover	1:000	n a a da ²		Line	Drum grooved lagging						
Layer	Lines	peeds ²	Avail	able ¹	Permi	ssible ³	Total w	ire rope			
	F.P.M	m / min	Lbs.	kgf	Lbs.	kgf	Feet	Meters			
1st	308	94	6,700	3,050	6,200	2,830	57.0	17.4			
2nd	330	101	6,200	2,810	5,700	2,610	118.3	36.0			
3rd	361	110	5,700	2,610	5,300	2,420	183.6	56.0			
4th	375	114	5,400	2,430	5,000	2,260	253.2	77.2			
5th	410	125	5,000	2,280	4,700	2,110	326.9	99.6			
6th	420	128	4,700	2,140	4,400	1,990	404.8	123.4			
7th	443	135	4,500	2,020	4,100	1,870	486.8	148.4			

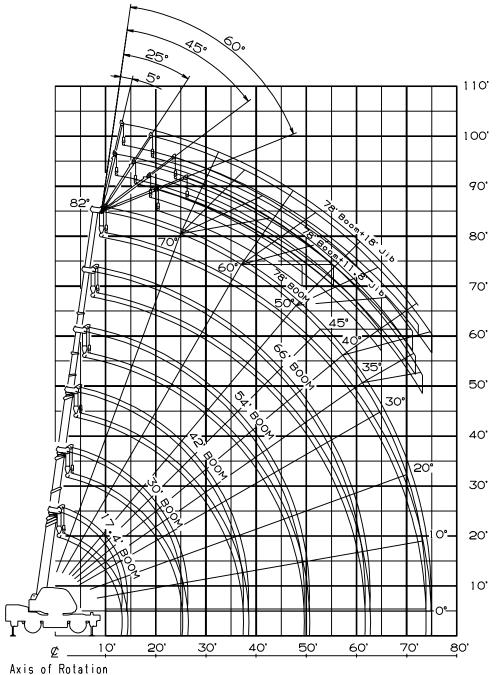
Developed by machinery with each layer of wire rope, but not based on rope strength or other limitation in machinery or equipment.

- ² Line speeds based only on hook block, not loaded.
- Permissible line pull may be affected by wire rope strength.

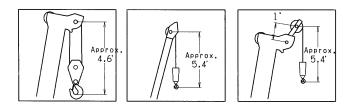
DRUM DIMENSIONS

		Inch	mm									
Root o	liameter	10-7 / 16"	265									
Longth	Main	9-7 / 16"	239									
Length	Auxiliary	9-7 / 16"	239									
Flange	diameter	1' 5-11 / 16"	450									

GR-150XL WORKING RANGE CHART

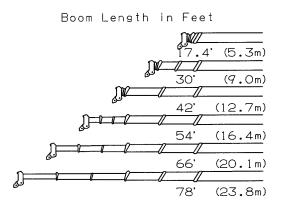


cotation Load Radius from Axis of Rotation in Feet



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.



Lifting Height in

		O	N OUTI	RIGGERS		ZEXTENI O° ROTA		5' 5" (4.7 n	n) SPRI	EAD		
A	1	7.4'	3	30'		12'	54'		66'		78'	
В	С	(5.3 m)	С	(9.0 m)	С	(12.7 m)	С	(16.4 m)	С	(20.1 m)	С	(23.8 m)
4	70.4	30,000	78.9	13,200								
5	66.7	30,000	77.3	13,200	80.9	13,200						
6	62.8	28,800	75.1	13,200	79.5	13,200						
8	54.2	23,800	70.8	13,200	76.7	13,200	79.9	11,000				
10	44.1	17,800	66.7	13,200	73.8	13,200	78.0	11,000	80.4	9,900		
12	30.8	14,800	62.4	13,200	71.0	13,200	75.8	11,000	78.7	9,900	80.5	6,600
15			55.4	11,500	66.6	11,100	72.4	10,850	76.0	8,950	78.5	6,600
20			42.1	8,300	58.5	8,000	66.6	7,750	71.5	7,050	74.8	6,050
25			19.5	6,200	49.8	5,850	60.6	5,700	66.8	5,500	70.9	4,950
30					39.4	4,050	54.3	4,400	61.8	4,400	66.9	4,100
35					25.2	2,950	47.1	3,350	56.5	3,550	62.6	3,350
40							38.9	2,650	51.0	3,150	58.3	2,800
45							28.3	1,950	44.8	2,400	53.7	2,350
50									37.9	1,850	48.6	2,000
55									29.3	1,400	43.2	1,550
60									16.2	1,050	37.2	1,250
65											29.9	1,000
70											20.2	770
D				•		0	0					

						DEGREE (4.7 m) S			ON OUT		RS	
A	1	7.4'	30'		42'		54'		66'		78'	
c \	В	(5.3 m)	В	(9.0 m)				(16.4 m)	В	(20.1 m)	В	(23.8 m)
0°	13.1	13,500	25.3	3 5,900 37.4 2,600 49.5 1,600 61.7 1,000 73							73.8	600

		٨O	OUTR	IGGERS				/ 4" (4.3	m) SPF	READ		
					360	O° ROTA	TION					
A	17	7.4'	3	30'	42'		54'		66'		78'	
B \	С	(5.3 m)	C	(9.0 m)	C	(12.7 m)	С	(16.4 m)	С	(20.1 m)	C	(23.8 m)
4	70.4	30,000	78.9	13,200								
5	66.7	30,000	77.3	13,200	80.9	13,200						
6	62.8	28,800	75.1	13,200	79.5	13,200						
8	54.2	23,800	70.8	13,200	76.7	13,200	79.9	11,000				
10	44.1	17,800	66.7	13,200	73.8	13,200	78.0	11,000	80.4	9,900		
12	30.8	14,800	62.4	13,200	71.0	13,200	75.8	11,000	78.7	9,900	80.5	6,600
15			55.3	11,300	66.6	11,100	72.4	10,850	76.0	8,950	78.5	6,600
20			42.1	8,050	58.5	7,450	66.6	7,750	71.5	7,050	74.8	6,050
25			19.5	5,500	49.8	5,300	60.6	5,400	66.7	5,100	70.9	4,950
30					39.4	3,500	54.2	4,050	61.7	4,100	66.8	3,900
35					25.2	2,500	47.0	2,850	56.5	3,200	62.6	3,200
40							38.7	2,100	50.9	2,300	58.3	2,550
45							28.1	1,450	44.6	1,750	53.6	1,950
50									37.7	1,250	48.5	1,500
55									29.3	900	43.1	1,150
60									16.2	600	37.0	900
65											29.8	600
D)°					2	23

	LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MID EXTENDED 14' 1-1 / 4" (4.3 m) SPREAD 360° ROTATION											
A	1	7.4'	3	30'	4	42'		54'		66'		
c 🖊	В	(5.3 m)	В	(9.0 m)	В	(12.7 m)	В	(16.4 m)	В	(20.1 m)		
0°	13.1	13,200	25.3	5,200	37.4	2,000	49.5	1,100	61.7	500		

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

		ON C	UTRI	GGERS N		TENDED		3 / 4" (3.5	5 m) S	PREAD		
A	1	7.4'		30'	42'		54'		66'			78'
В	С	(5.3 m)	С	(9.0 m)	С	(12.7 m)	С	(16.4 m)	С	(20.1 m)	С	(23.8 m)
4	70.4	30,000	78.9	13,200								
5	66.7	30,000	77.3	13,200	80.9	13,200						
6	62.8	28,800	75.1	13,200	79.5	13,200						
8	54.2	23,800	70.8	13,200	76.7	13,200	79.9	11,000				
10	44.1	17,800	66.7	13,200	73.8	13,200	78.0	11,000	80.4	9,900		
12	30.8	14,800	62.4	13,200	71.0	13,200	75.8	11,000	78.7	9,900	80.5	6,600
15			55.2	10,150	66.6	10,000	72.4	9,450	76.0	8,950	78.5	6,600
20			42.0	5,800	58.5	5,550	66.5	6,300	71.4	6,550	74.8	5,950
25			19.5	3,600	49.7	3,400	60.4	4,050	66.6	4,400	70.8	4,500
30					39.3	2,100	53.9	2,650	61.4	3,000	66.7	3,100
35					24.9	1,250	46.5	1,800	56.3	2,050	62.4	2,250
40							38.3	1,150	50.6	1,350	58.0	1,550
45							27.6	700	44.5	950	53.2	1,050
50									37.4	650	48.2	700
55											42.9	450
D						26°		39°				

	LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MID EXTENDED 11' 5-3 / 4" (3.5 m) SPREAD 360° ROTATION											
A	1	7.4'		30'	42'		54'					
c	В	(5.3 m)	В	(9.0 m)	В	(12.7 m)	В	(16.4 m)				
0°	13.1	13,200	25.3	5.3 3,300 37.4 1,000 49.5 400								

		ON (OUTRI	GGERS I		XTENDEI 0° ROTA		3 / 8" (2.5	m) SF	PREAD			
A	1	7.4'		30'	42'		54'		66'			78'	
В	С	(5.3 m)	С	(9.0 m)	С	(12.7 m)	С	(16.4 m)	С	(20.1 m)	С	(23.8 m)	
4	70.4	30,000	78.9	13,200									
5	66.7	30,000	77.3	13,200	80.9	13,200							
6	62.8	28,800	75.1	13,200	79.5	13,200							
8	54.1	18,700	70.8	13,200	76.7	13,200	79.9	11,000					
10	43.6	12,200	66.7	11,800	73.7	11,800	78.0	11,000	80.4	9,900			
12	30.5	8,800	62.3	8,600	70.8	8,550	75.6	9,250	78.7	9,900	80.5	6,600	
15			55.2	5,450	66.3	5,350	72.2	6,000	75.8	6,300	78.5	6,600	
20			42.0	2,850	58.3	2,750	66.4	3,300	71.1	3,600	74.5	3,850	
25			19.5	19.5 1,500		1,350	60.3	1,900	66.3	2,200	70.4	2,350	
30					39.0	500	53.8	1,000	61.3	1,350	66.3	1,450	
35			·		•		46.5	500	56.0	750	62.0	850	
40											57.7	450	
D		00				30°	41°		•	49°	55°		

	LIF				ZERO DEGREE BOOM ANGLE ON OUTRIGGERS 2-3 / 8" (2.5 m) SPREAD 360° ROTATION						
A	1	7.4'		30'							
c/	В	(5.3 m)	В	(9.0 m)							
0°	13.1	7,400	25.3	3 1,300							

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

		ON O	UTRIC	GERS M				1 / 2" (1.6	4 m) S	SPREAD		
					36	0° ROTA	MOIT					
A	1	7.4'		30'		42'		54'		66'		78'
В	С	(5.3 m)	С	(9.0 m)	C	(12.7 m)	C	(16.4 m)	C	(20.1 m)	C	(23.8 m)
4	70.3	17,500	78.9	13,200								
5	66.6	15,300	77.4	12,800	80.9	12,500						
6	62.5	13,250	75.0	12,300	79.5	12,500						
8	54.1	8,650	70.8	8,800	76.6	8,300	79.9	7,500				
10	44.0	5,800	66.6	6,100	73.8	5,600	77.6	5,600	80.1	5,600		
12	30.1	4,250	62.2	4,100	70.9	4,050	75.3	4,200	78.3	4,300	80.4	4,350
15			55.2	2,450	66.4	2,300	72.0	2,700	75.5	3,000	77.9	3,100
20			41.8	900	58.5	750	66.2	1,250	71.0	1,550	74.1	1,800
25							·				70.2	950
D												

	LIF		PACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS XTENDED 5' 4-1 / 2" (1.64 m) SPREAD 360° ROTATION
		IVIIIN E	XTENDED 5' 4-1 / 2" (1.64 m) SPREAD 360° ROTATION
A	1	7.4'	
c	В	(5.3 m)	
0°	13.1	3,500	

A :Boom length in feet

B:Load radius in feet

C:Loaded boom angle (deg.)

D: Minimum boom angle (deg.) for indicated length (no load)

NOTE:

Standard number of parts of line for each boom length is as shown below. Load per line should not surpass 1,800 kg for main winch and auxiliary winch.

Boom Length in Feet	17.4'	17.4' to 78'	Single top
(meters)	(5.3 m)	(5.3 m to 23.8 m)	Jib
Number of parts of line	8	4	1

The lifting capacity data stored in the AUTOMATIC LIMITER(AML-C) is based on the standard number of parts of line listed in the chart.

				ON	OUTR	IGGER		LY EXT 360° RO			(4.7 m) SPR	EAD				
		78' (2	3 8 m) Boom	± 11 8	8' (3.6 m			TATIO!	N	78' (23 8 m	n) Boom	n + 18'	(5.5 m) .lih	
c									С	•			·		•		
	5°	Tilt	25°	[°] Tilt	45°	'Tilt		' Tilt	C	5°	Tilt	25°	[°] Tilt	45°	' Tilt	60°	Tilt
	R	W	R	W	R	W	R	W		R	W	R	W	R	W	R	W
82°	12.6	3,300	16.7	2,650	19.6	2,000	21.5	1,400	82°	13.9	1,850	20.0	1,550	24.7	1,300	27.2	850
80°	16.1	3,300	20.0	2,650	22.7	2,000	24.6	1,400	80°	17.5	1,850	23.5	1,550	28.0	1,300	30.1	850
77.5°	20.4	3,300	24.2	2,650	26.5	2,000	28.1	1,400	77.5°	21.9	1,850	27.9	1,550	31.9	1,200	33.9	850
75°	24.4	3,300	28.1	2,650	30.3	2,000	31.9	1,400	75°	26.3	1,850	32.1	1,550	35.8	1,200	37.4	850
72.5°	28.3	3,000	31.8	2,400	33.9	1,900	35.3	1,400	72.5°	30.6	1,850	36.0	1,500	39.6	1,200	41.2	850
70°	32.1	2,750	35.4	2,200	37.4	1,850	38.9	1,400	70°	34.7	1,850	39.7	1,400	43.1	1,150	44.5	850
67.5°	35.7	2,500	38.9	2,100	40.8	1,800	41.9	1,400	67.5°	38.6	1,800	43.3	1,350	46.5	1,100	47.9	850
65°	39.2	2,300	42.3	1,950	44.2	1,700	45.3	1,400	65°	42.5	1,750	47.1	1,300	49.8	1,100	50.9	850
62.5°	42.8	2,100	45.7	1,850	47.3	1,600	48.1	1,400	62.5°	46.1	1,600	50.5	1,250	53.0	1,100	54.0	850
60°	46.1	1,950	49.0	1,750	50.3	1,550	51.1	1,400	60°	49.6	1,450	53.8	1,200	56.1	1,050	56.8	850
57.5°	49.1	1,750	51.9	1,600	53.3	1,500		<u> </u>	57.5°	53.1	1,350	57.2	1,150	59.1	1,000		
55°	52.1	1,550	54.9	1,400	56.0	1,400			55°	56.4	1,250	60.3	1,100	61.9	1,000		
52.5°	55.1	1,300	57.7	1,200	58.6	1,200			52.5°	59.5	1,100	63.3	1,000	64.7	950		
50°	57.9	1,100	60.3	1,000	61.2	1,050			50°	62.7	1,000	66.0	900	67.4	900		
47.5°	60.7	950	62.8	900	63.6	900			47.5°	65.4	850	68.7	800	69.8	800		
45°	63.2	800	65.3	750	65.8	750			45°	68.1	700	71.2	650	72.0	650		
42.5°	65.7	700	67.6	600					42.5°	70.8	600	73.7	550	<u>u</u>	'		
40°	68.1	550	69.9	500					40°	73.4	500	76.0	450				
37.5°	70.4	450	72.0	400									l l				
35°	72.5	350	73.9														

	ON OUTRIGGERS MID EXTENDED 14' 1-1 / 4" (4.3 m) SPREAD 360° ROTATION																
											(,					
		78' (2	3.8 m)	Boom	+ 11.8	3' (3.6 n	n) Jib				78' (23.8 m	n) Boon	า + 18'	(5.5 m) Jib	
С	5°	Tilt	25°	' Tilt	45°	' Tilt	60°	' Tilt	С	5°	Tilt	25°	' Tilt	45°	' Tilt	60°	Tilt
	R	W	R	W	R	W	R	W		R	W	R	W	R	W	R	W
82°	12.6	3,300	16.7	2,650	19.6	2,000	21.5	1,400	82°	13.9	1,850	20.0	1,550	24.7	1,300	27.2	850
80°	16.1	3,300	20.0	2,650	22.7	2,000	24.6	1,400	80°	17.5	1,850	23.5	1,550	28.0	1,300	30.1	850
77.5°	20.4	3,300	24.2	2,650	26.5	2,000	28.1	1,400	77.5°	21.9	1,850	27.9	1,550	31.9	1,200	33.9	850
75°	24.4	3,300	28.1	2,650	30.3	2,000	31.9	1,400	75°	26.3	1,850	32.1	1,550	35.8	1,200	37.4	850
72.5°	28.3	3,000	31.8	2,400	33.9	1,900	35.3	1,400	72.5°	30.6	1,850	36.0	1,500	39.6	1,200	41.2	850
70°	32.1	2,750	35.4	2,200	37.4	1,850	38.9	1,400	70°	34.7	1,850	39.7	1,400	43.1	1,150	44.5	850
67.5°	35.7	2,500	38.9	2,100	40.8	1,800	41.9	1,400	67.5°	38.6	1,800	43.3	1,350	46.5	1,150	47.9	850
65°	39.2	2,300	42.3	1,950	44.2	1,700	45.3	1,400	65°	42.5	1,750	47.1	1,300	49.8	1,100	50.9	850
62.5°	42.6	2,000	45.7	1,800	47.3	1,550	48.1	1,400	62.5°	46.1	1,600	50.5	1,250	53.0	1,100	54.0	850
60°	45.8	1,750	48.9	1,600	50.3	1,400	51.1	1,400	60°	49.6	1,450	53.8	1,200	56.1	1,050	56.8	850
57.5°	48.9	1,500	51.8	1,400	53.1	1,250		·	57.5°	52.9	1,300	57.2	1,100	59.1	950	•	
55°	51.9	1,200	54.7	1,150	55.8	1,100			55°	56.1	1,100	60.2	1,000	61.9	850		
52.5°	54.8	1,000	57.3	950	58.4	900			52.5°	59.3	900	63.0	850	64.6	800		
50°	57.7	800	60.1	750	61.0	750			50°	62.3	750	65.9	700	67.2	700		
47.5°	60.4	650	62.6	600	63.4	600			47.5°	65.2	600	68.6	600	69.7	600		
45°	63.0	500	65.1	500	65.7	500			45°	68.0	500	71.1	450	71.9	450		

C :Loaded boom angle (deg.)

R :Load radius in feet

 $\boldsymbol{W}\:\textsc{:Rated}$ lifting capacity in pounds

				ONO	LITDI	CEDS	MIDI	EXTEN)ED 11	152/	1" (2 E	m) CD	DEAD
				ONO	UIKI	JUERO					4 (3.5)	III) SP	KEAD
							3	860° RC	PIATIC	N			
		78' (2	3.8 m)	Boom	+ 11.8	3' (3.6 n	n) Jib				78' (23.8 m	n) Boon
С	5°	Tilt	25°	Tilt	45°	Tilt	60°	'Tilt	С	5°	Tilt	25°	Tilt
	R	W	R	W	R	W	R	W		R	W	R	W
82°	12.6	3,300	16.7	2,650	19.6	2,000	21.5	1,400	82°	13.9	1,850	20.0	1,550
80°	16.1	3,300	20.0	2,650	22.7	2,000	24.6	1,400	80.5°	17.5	1,850	23.5	1,550
77.5°	20.4	3,300	24.2	2,650	26.5	2,000	28.1	1,400	77.5°	21.9	1,850	27.9	1,550
75°	24.4	3,300	28.1	2,650	30.3	2,000	31.9	1,400	75°	26.3	1,850	32.1	1,550
72.5°	28.3	2,850	31.8	2,400	33.9	1,900	35.3	1,400	72.5°	30.6	1,850	36.0	1,500
70°	31.8	2,400	35.4	2,200	37.4	1,850	38.9	1,400	70°	34.7	1,850	39.7	1,400
67.5°	35.3	2,000	38.7	1,850	40.8	1,600	41.9	1,400	67.5°	38.6	1,650	43.3	1,300
65°	38.7	1,550	41.9	1,500	43.8	1,400	45.3	1,400	65°	42.2	1,450	46.9	1,150
62.5°	42.0	1,200	45.7	1,200	46.9	1,150	47.9	1,150	62.5°	45.7	1,200	50.2	1,000
60°	45.2	900	48.9	950	49.8	900	50.7	900	60°	48.9	900	53.4	800
57.5°	48.3	700	51.8	750	52.6	700			57.5°	52.2	700	56.7	600
55°	51.4	550	54.2	550	55.4	500			55°	55.6	500	59.7	450

רכ	ATIO		. (0.0 .	,					
			78' (2	23.8 m) Boom	า + 18'	(5.5 m) Jib	
	С	5°	Tilt	25°	Tilt	45°	'Tilt	60°	Tilt
		R	W	R	W	R	W	R	W
	82°	13.9	1,850	20.0	1,550	24.7	1,300	27.2	850
	80.5°	17.5	1,850	23.5	1,550	28.0	1,300	30.1	850
	77.5°	21.9	1,850	27.9	1,550	31.9	1,200	33.9	850
	75°	26.3	1,850	32.1	1,550	35.8	1,200	37.4	850
	72.5°	30.6	1,850	36.0	1,500	39.6	1,200	41.2	850
	70°	34.7	1,850	39.7	1,400	43.1	1,150	44.5	850
	67.5°	38.6	1,650	43.3	1,300	46.5	1,100	47.9	850
	65°	42.2	1,450	46.9	1,150	49.8	1,000	50.9	850
	62.5°	45.7	1,200	50.2	1,000	52.9	850	53.8	750
	60°	48.9	900	53.4	800	55.8	700	56.6	650
	57.5°	52.2	700	56.7	600	58.7	600		
	55°	55.6	500	59.7	450	61.6	450		

				ON C	DUTRI	GGER		EXTEN 860° RO				" (2.5 r	n) SPF	READ
		78' (2	3.8 m)	Boom	+ 11.8	3' (3.6 n	n) Jib					78' (2	23.8 m) Boor
С	5°	Tilt	25°	Tilt	45°	' Tilt	60°	' Tilt		С	5°	Tilt	25°	Tilt
	R	W	R	W	R	W	R	W			R	W	R	W
82°	12.6	3,300	16.7	2,650	19.6	2,000	21.5	1,400	[82°	13.9	1,850	20.0	1,550
80°	16.1	3,200	20.0	2,650	22.7	2,000	24.6	1,400	8	80°	17.5	1,850	23.5	1,550
77.5°	20.1	2,850	23.9	2,300	26.3	1,900	28.1	1,400	L	77.5°	21.9	1,850	27.7	1,500
75°	23.9	2,400	27.7	2,000	30.0	1,750	31.9	1,400	-	75°	26.3	1,850	31.9	1,400
72.5°	27.5	1,800	31.1	1,550	33.5	1,400	35.1	1,150		72.5°	30.2	1,500	35.5	1,100
70°	31.0	1,250	34.5	1,100	36.7	1,000	38.3	850	L	70°	33.9	1,100	39.3	850
67.5°	34.5	900	37.9	800	39.9	700	41.4	570	(67.5°	37.6	800		
65°	37.8	550	41.1	500	43.0	450	44.3	300		65°	41.0	450		

0	TATIO	N	, -	, -					
			78' (2	23.8 m) Boom	า + 18'	(5.5 m) Jib	
	С	5°	Tilt	25°	Tilt	45°	Tilt	60°	Tilt
		R	W	R	W	R	W	R	W
	82°	13.9	1,850	20.0	1,550	24.7	1,300	27.2	850
	80°	17.5	1,850	23.5	1,550	28.0	1,300	30.1	850
	77.5°	21.9	1,850	27.7	1,500	31.9	1,200	33.9	850
	75°	26.3	1,850	31.9	1,400	35.7	1,100	37.4	850
	72.5°	30.2	1,500	35.5	1,100	39.1	900	41.1	750
	70°	33.9	1,100	39.3	850	42.8	750	44.4	650
	67.5°	37.6	800						
	65°	41.0	450						

C:Loaded boom angle (deg.)

R :Load radius in feet

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.
- Construction equipment can be hazardous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with information in the operation, safety and maintenance manual supplied with machine. If these manuals are missing, order replacements 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 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 (195 lbs for 15 t capacity, 53 lbs for 2 t capacity), 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 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 20 mph (9 m/s) to 27 mph (12 m/s); reduced by 70 % when the wind speed is 27 mph (12m/s) to 31 mph (14 m/s). If the wind speed is 31 mph (14m/s) or over, stop operation. During jib lift, stop operation if the wind speed is 20 mph (9 m/s).
- Rated lifting capacities at load radius shall not be exceeded. Do not tip the crane to determine allowable loads.
- 8. Do not operate at boom lengths, radii, or boom angle, where no capacities are shown. Crane may overturn without any

- 10. When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.
- 11. Load per line should not exceed 4,000 lbs. (1,800 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 (4,000 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 17.4' (5.3 m) boom length capacities are based on boom fully retracted. If not fully retracted [less than 30'(9.0 m) boom length], use the rated lifting capacities for the 30' (9.0 m) 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 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 4000 lbs (1,800 kg) including main hook.
- 17. When 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 11.8' (3.6 m) jib, rated lifting capacities are determined by loaded boom angle only in the column headed "78' (23.8 m) boom + 11.8' (3.6 m) jib".
 For boom length with 18' (5.5 m) jib, rated lifting capacities
 - are determined by loaded boom angle only in the column headed "78' (23.8 m) boom + 18' (5.5 m) 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
- 21. When lifting a load by using jib (aux. winch) and boom (mair 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.
- 22. Be very careful not to come in contact with the mirror, engine cover, etc, with following warning messages. When operating crane in the following case.
 - When lowering the boom angles less than 12°
 - When swinging with the boom angles less than 12°

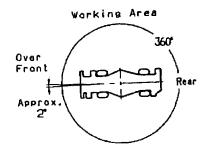
DEFINITIONS

- 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.
- 4. Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.

				0	N RUI	BBER ST	ATION	IARY					
			Ove	r Front					360°	Rotation			
\ A	1	7.4'		30'		42'	1	7.4'		30'		42'	
$ B \setminus$	С	(5.3 m)	С	(9.0 m)	С	(12.7 m)	С	(5.3 m)	С	(9.0 m)	С	(12.7 m)	
4	70.3	7,900	79.0	7,900			70.3	6,200	79.0	6,200			
6	62.7	7,650	74.9	7,650	79.4	7,900	62.7	6,200	74.9	6,200	79.4	6,150	
8	54.4	6,900	70.8	6,900	76.6	6,900	54.4	4,900	70.8	4,800	76.6	4,700	
10	44.4	5,750	66.5	5,650	73.6	5,500	44.4	3,450	66.5	3,350	73.6	3,200	
12	30.7	4,850	62.2	4,600	70.7	4,350	30.7	2,500	62.2	2,350	70.7	2,100	
15			55.2	3,450	66.2	3,000			55.2	1,000	66.2	750	
20			41.7	1,900	58.3	1,700							
25			19.2	550	49.4	650							
D		0	0	·		42°		0°		44°		60°	

L	IFTING	G CAPAC	CITIES	AT ZER	O DEGREE BC	OM AI	NGLE O	N RUBBER STATIONARY
			Ove	r Front				360° Rotation
\ A	1	7.4'	;	30'		1	7.4'	
c /	B (5.3 m) B (9.0 m)					В	(5.3 m)	
0°	13.1	4,200	25.3	500		13.1	1,600	

		ON RI	UBBEF	R CREEF)							
			Ove	r Front								
\ A	1	7.4'		30'		42'						
$B\setminus$	С	(5.3 m)	С	(9.0 m)	С	(12.7 m)						
4	70.3											
6	62.7											
8	54.4	6,200	70.8	6,100	76.6	5,900						
10	44.4	5,200	66.5	4,950	73.6	4,750						
12	30.7	4,150	62.2	4,000	70.7	3,750						
15			55.2	3,000	66.2	2,700						
20	41.7 1,700 58.3 1,500											
25			19.2	500	49.4	650						
D	0° 42°											



LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON RUBBER CREEP					
	Over Front				
\ A	1	7.4'	30'		
c /	В	(5.3 m)	В	(9.0 m)	
0°	13.1	3,600	25.3	400	

- A :Boom length in feet
- B:Load radius in feet
- C:Loaded boom angle (deg.)
- **D**:Minimum boom angle (deg.) 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 on rubber operation should be according to the following table.

Boom Length in Feet (meters)	17.4' to 42' (5.3 m to 12.7 m)	Single top		
Number of parts of line	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 suspension-lock 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.
- Rated lifting capacities are based on proper tire inflation, capacity and condition. Damaged tires are hazardous to safe operation of crane.
- 4. Tires shall be inflated to correct air pressure.

Tires	Air Pressure		
275 / 80R22.5	130 psi (9.0 kgf/cm ²)		

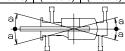
- Over-front operation shall be performed within two degrees in front of chassis.
- 6. On rubber lifting with "jib" is not permitted. Maximum permissible boom length is 42' (12.7 m).
- 7. When making lift on rubber stationary, set parking brake.
- 8. For creep operation, boom must be centered over-front 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.
- 9. Do not operate the crane while carrying the load.
- Creep is motion for crane not to travel more than 200' (60m) in any 30 minute period and to travel at the speed of less than 1 mph (1.6 km/h).
- 11. For creep operation, set Drive select switch to "4-WHEEL (Lo)" and set gear shift lever to "1".

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

- 1. When operating crane on outriggers:
 - Before outrigger operation, suspension-lock in the over-front area of the boom. (Locking and releasing cannot be performed in other state.)
 - Keep pressing the switch to the "LOCK" side until the suspension-lock confirmation lamp changes from flashing to lighting, and lower the body to the full. (Outrigger operation and crane operation cannot be performed without suspension-locking.)
 - · Set "P.T.O." switch to "ON".
 - Press the outrigger state select key to register the outrigger operation. If the display agree 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 lift state select key is pressed, the display changes. If the display agree with the actual state,press the set key to register. After the completion of the registration ,the pop-up window closes.
- 2. When operating crane on rubber:
 - Suspension-lock in the over-front area of the boom. (Locking and releasing cannot be performed in other state.)
 - Keep pressing the switch to the "LOCK" side until the suspension-lock confirmation lamp changes from flashing to lighting, and lower the body to the full. (Crane operation cannot be performed without suspension-locking.)
 - Set "P.T.O." switch to "ON".
 - Press the outrigger mode select key. On rubber state symbol comes on. Each time the outrigger mode select key is pressed the mode changes. Select the creep operation, the on-tire mode indicative symbol flicker.
 - Press the boom mode select key to register the boom mode. 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.
- This machine is equipped with an automatic swing stopping device. (For the details, see Operation 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.
- 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.
- 7. The lifting capacity for over-side area differs depending on the outrigger extension width. Work with the capacity corresponding to the extension width. The lifting capacities for over-front and over-rear areas are for "outriggers fully extended". However,the areas(angle a) differ depending on the outrigger extension width.

Extended	14' 1-1 / 4"	11' 5-3 / 4"	8' 2-3 / 8"	5' 4-1 / 2"
Width	(4.3 m)	(3.5 m)	(2.5 m)	(1.64 m)
Angle ao	70	60	55	50
	(middle)	(middle)	(middle)	(minimum)



GR-150XL Axle weight distribution chart

_	Pounds		Kilograms			
	GVW	Front	Rear	GVW	Front	Rear
Base machine	30,780	15,190	15,590	13,960	6,890	7,070
Remove: 1. 2-stage jib (3.6 m, 5.5 m)	-410	-490	80	-185	-221	36
2.0 ton (1.8 metric ton) hook ball and auxiliary lifting sheave (single top)	-120	-340	220	-53	-155	102

MEMO	
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