

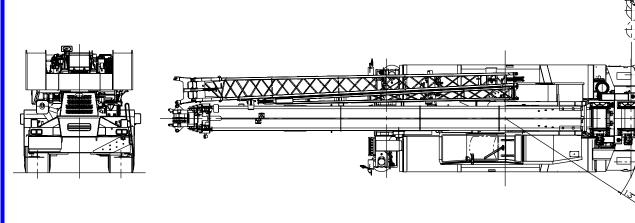


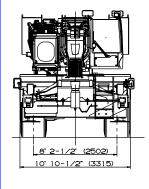
GR-900XL-2

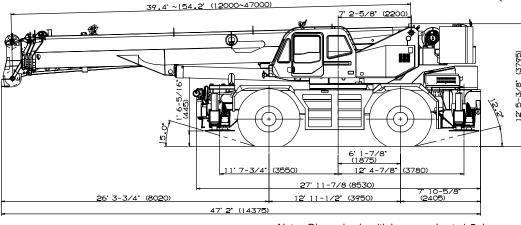
Self-removable counterweight 90 Ton Capacity (81.7 Metric Tons)

HYDRAULIC ROUGH TERRAIN CRANE

DIMENSIONS







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

() Reference dimensions in mm.

GENERAL DIMENSIONS (29.5 - 25 Tires)

	Feet	Meters
Turning radius		
4 wheel steer	22' 4"	6.8
2 wheel steer	39' 1"	11.9

Specifications are subject to change without notice.

CRANE SPECIFICATIONS

BOOM

Five section full power synchronized telescoping boom, 39.4'~154.2' (12.0 m~47.0 m), of round box construction with 7 sheaves, 17-5/16" (0.44 m) root diameter, at boom head. The synchronization system consists of two telescope cylinders, an extension cable and retraction cable. 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 114.8' in 160 seconds.

BOOM ELEVATION - By a double acting hydraulic cylinder with holding valve. Elevation -1.5°~80.5°, combination controls for hand or foot operation. Boom angle indicator. Automatic speed reduction and slow stop function. Boom raising speed 20° to 60° in 46 seconds.

JIB - Two stage bi-fold lattice type, 3.5°, 25° or 45° offset (tilt type). Single sheave, 15-5/8" (0.396 m) root diameter, at the head of both jib sections. Stored alongside base boom section. Jib length is 33.2' (10.1 m) or 58.1' (17.7 m). 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" (0.396 m) 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.

SLEWING

Hydraulic axial piston motor through planetary slewing speed reducer. Continuous 360° full circle slewing on ball bearing turn table at 1.5 min⁻¹{rpm}. Equipped with manually locked/released slewing brake. A 360° positive slewing lock for pick and carry and travel modes, manually engaged in cab. Twin slewing system: Free slewing or lock slewing 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 14-1/4" (0.362 m) root diameter x 23-5/8" (0.6 m) wide. Wire rope: 830' of 3/4"diameter rope (253 m of 19 mm). Drum capacity: 997' (304 m) 7 layers. Maximum single line pull:1st layer 20,000 lbs (9,090 kg). Maximum permissible line pull wire strength: 14,600 lbs (6,600 kg).

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 14-1/4" (0.362 m) root diameter x 23-5/8" (0.6 m) wide. Wire rope: 456' of 3/4" diameter rope (139 m of 19 mm). Drum capacity: 997' (304 m) 7 layers. Maximum single line pull: 1st layer 20,000 lbs (9,090 kg). Maximum permissible line pull wire strength: 14,600 lbs (6,600 kg).

WIRE ROPE - Non-rotating 3/4" (19 mm) 7X35 class. Breaking Strength 72,800 lbs (33,000 kg)

HOOK BLOCKS

100 ton (90.7 metric ton)-8 sheaves with swivel hook and safety latch, for 3/4" (19 mm) wire rope (OPTIONAL).
7.3 ton (6.6 metric ton) - Weighted hook with swivel and safety latch, for 3/4" (19 mm) wire rope.

HYDRAULIC SYSTEM

PUMPS - Two variable piston pumps for crane functions.

Tandem gear pump for steering, slewing 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 - 222 gallon (840 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 slewing, boom hoist, 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, slewing brake switch, telescoping/auxiliary hoist select switch, outrigger controls, free slewing / lock slewing selector switch, eco mode switch, high speed hoist (main/aux) switch and ashtray.

Instruments - Torque converter oil temperature, engine water temperature, air pressure, fuel, speedometer, tachometer, hour meter and odometer / tripmeter. Hydraulic oil pressure is monitored and displayed on the AML-C display panel.

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

- Control lever lockout function with audible and visual pre-warning
- Boom position indicator
- Outrigger state indicator
- Boom angle / boom length / jib offset angle / jib length / load radius / rated lifting capacities / actual loads read out
- Ratio of actual load moment to rated load moment indication
- Automatic Speed Reduction and Slow Stop function

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

Operator's right hand console includes transmission gear selector and sight level bubble. Upper console includes working light switch, roof washer and wiper switch emergency outrigger set up key switch, jib equipped/removed select switch, eco mode switch, high speed hoist (main / aux) switch, boom emergency telescoping switch (2nd and 3rd

STANDARD EQUIPMENT

- Five section full power partially synchronized boom 39.4'~154.2' (12.0 m~47.0 m)
- 33.2' or 58.1' (10.1 m or 17.7 m) bi-fold lattice jib (tilt type) with 3.5°, 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 820' of 3/4" cable.
- Variable speed auxiliary hoist with grooved drum, cable follower and 456' of 3/4" cable.
- Drum rotation indicator (audible, visible and thumper type) main and auxiliary hoist
- Auxiliary lifting sheave (single top) stowable
- 2-speed hoist
- 7.3 ton (6.6 metric ton) hook with swivel
- Tadano twin slewing system and 360° positive slewing 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 visorFront windshield wiper and washer
- Roof window wiper and washer
- Power window (cab door)
- Cigarette lighter and ashtray
- Cab floor mat
- Pump disconnect in operator's cab
- Air conditioner (hot water heater and cooler)
- Full instrumentation package
- Self centering finger control levers with pilot control
- Control pedals for boom elevating and boom telescoping
- Low oil pressure/high water temp. warning device (visual)
- Rear steer centering light
- Air cleaner dust indicator

- Tadano electronic load moment indicator system (AML-C)
- 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
- Automatic rear axle oscillation lockout system
- 29.5-25 34PR tires
- Disc brakes
- Water separator with filter (high filtration)
- Back-up alarm
- 24 volt electric system
- Tool storage compartment
- Tire inflation kit
- Mitsubishi 6M60-TLA3B turbo charged after cooled engine (267HP) with exhaust brake
- Engine over-run alarm
- Lifting eyes
- Telematics(machine data logging and monitoring system) with HELLO-NET via internet (availability depends on countries)
- Fuel consumption monitor
- Eco mode system
- Self-removable counterweight

OPTIONAL EQUIPMENT

- 90 ton (81.7 metric ton) 8 sheave with swivel hook and safety latch for 3/4" (19 mm) wire rope
- Working lamp with remort controller

HOISTING PERFORMANCE

LINE SPEEDS AND PULLS

		M	ain or auxil	iary hoist -	<u>14'-1/4" (0.</u>			
Layer		Line s	peeds ¹			Line pulls	Available ²	
Layer	Lo)W	Hi	gh	Lo)W	Hi	gh
	F.P.M	m/min	F.P.M	m/min	Lbs.	kgf	Lbs.	kgf
1 st	278	84	387	118	20,000	9,090	14,400	6,520
2 nd	302	92	421	128	18,100	8,230	13,000	5,900
3 rd	327	99	456	139	16,600	7,520	11,900	5,390
4 th	352	107	491	149	15,300	6,920	10,900	4,960
5 th	377	115	526	160	14,100	6,410	10,100	4,600
6 th	402	122	560	170	13,200	5,970	9,400	4,280
7 th ³	427	130	595	181	12,300	5,590	8,800	4,010

- Maximum permissible line pull wire strength 14,600 lbs (6,600 kg) with 7X35 class rope.
- Line speeds based only on hook block, not loaded.
- ² Developed by machinery with each layer of wire rope, but not based
- on rope strength or other limitation in machinery or equipment. Seventh layer of wire rope are not recommended for hoisting operations.

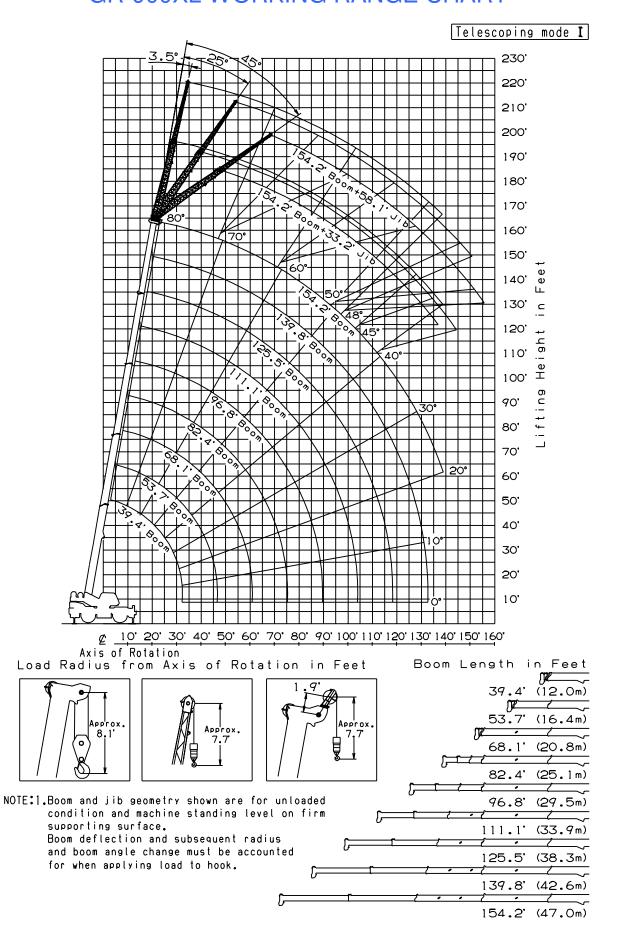
DRUM WIRE ROPE CAPACITIES

Wire	Main and	auxiliary d	rum groove	ed lagging							
rope	;	3/4" (19 mm) wire rope									
laver	Rope p	Rope per layer Total wire rope									
layei	Feet	Meters	Feet	Meters							
1	112.2	34.2	112.2	34.2							
2	122.3	37.3	234.5	71.5							
3	132.2	40.3	366.8	111.8							
4	142.3	43.4	509.1	155.2							
5	152.2	46.4	661.4	201.6							
6	162.4	49.5	823.8	251.1							
7	172.5	52.6	996.4	303.7							

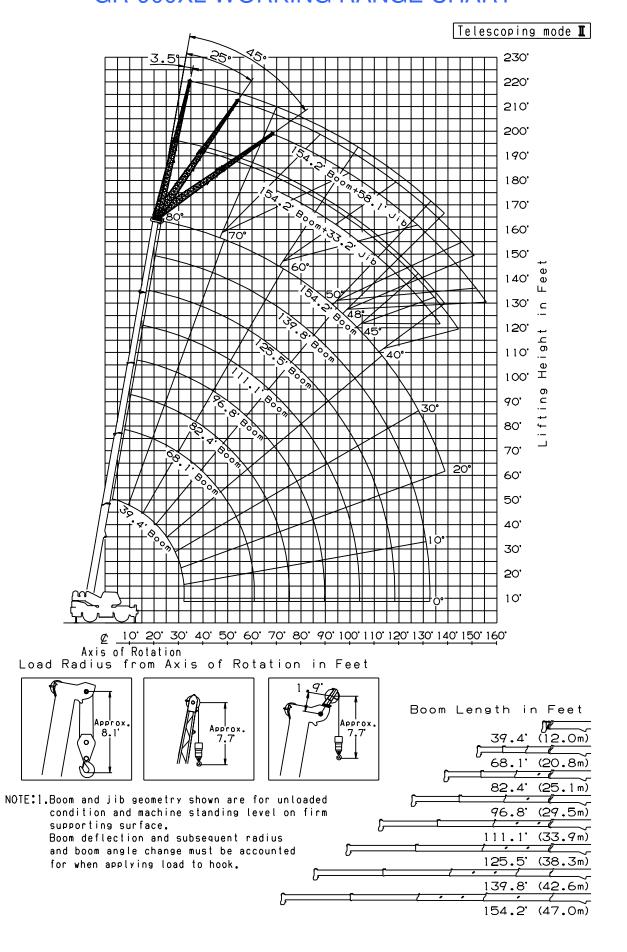
DRUM DIMENSIONS

	Inch	mm
Root diameter	14-1/4"	362
Length	23-5/8"	600
Flange diameter	25-7/8"	657

GR-900XL WORKING RANGE CHART



GR-900XL WORKING RANGE CHART



								ON	OL	ITRIG	GEI	RS FU	LLY	′ EXTE	ENE	DED 23	s' 11	-3/8" (7.3	m) SP	REA	νD								
																ATION		(, -										
A		39.4'		53.7'		68.1' (2	20.8	m)		82.4' (2	25.1 ı	m)		96.8' (2	-			111.1' (33.9 ı	m)		125.5' (38.3 r	n)		139.8' (42.6 r	n)	- 1	54.2'
В	С	(12 m)	С	(16.4 m)	С		С]	С		С]	С		С		С	1	С	1	С]	С]	С]	С		С	(47 m)
8'	73	180,000	78	102,700																										
10'	70	180,000	76	102,700	80	90,200	79	40,100																						
12'	67	157,900	74	102,700	78	90,200	77	40,100																						
15'	61	132,300	70	102,700	75	89,900	75	40,100	78	42,500	78	35,500																		
20'	52	99,700	64	99,100	71	76,100	70	40,100	74	42,500	74	35,500	77	40,100	77	33,300	79	35,500	79	32,200										
25'	41	76,900	58	76,200	66	65,600	65	40,100	71	42,500	70	35,500	74	40,100	74	33,300	77	35,500	77	32,200	79	33,300	79	28,700						
30'	25	50,700	51	57,700		56,700		40,100	67	42,500	67	35,500	71		71	33,300	74	35,500	74	30,200	77	33,300	77	26,300	79	26,700	79	24,300		
35'			43	42,800	56	41,800	55	40,100	63	42,500	63	35,500	68		68	31,600	72	35,100	72	27,300	74	30,900	74	24,000	77	26,700	77	24,100	78	20,900
40'			33		50	32,100	49	36,400	59	34,100	59	35,500	65	34,000	65	29,300	69	32,000	69	24,900	72	28,400	72	22,000	75	25,300	75	22,300	77	20,900
45'			18	26,200	44	25,400		31,100		27,300			61		61	26,500	66	28,000		22,900	69	26,100	69	20,200	72	23,500	73	20,700	75	20,700
50'					37	20,400	36	25,900	49	22,200		26,600	57	23,200		24,100	63	24,000	63	21,300	67	22,900	67	18,700	70	21,800	71	19,300	73	19,400
55'					28	16,600	27	20,900	44	18,400	44	22,600	54	19,300	54	22,200	59	20,100	60	19,600	64	20,100	64	17,400	68	19,600	68	18,000	71	18,100
60'					13	13,600	12	15,900	39	15,300	38	19,400	49	16,200	50	19,700	56	17,000	57	18,200	61	17,300	62	16,100	66	17,400	66	16,800	69	16,800
65'									32	12,700	32	16,800	45	13,700	45	17,100	53	14,400	53	16,600	58	14,800	59	15,000	63	15,300	64	15,800	67	15,200
70'									24 7	10,600		14,600	40	11,600	41	15,000	49	12,300	50	15,200	56	12,700	56	13,800	61	13,200	61	14,300	65	13,400
75' 80'									/	8,900	5	11,700	35 29	9,800	35 29	13,200	45 41	10,600 9,100	46 42	13,400	53 49	10,900	53 50	12,700 11.700	58 55	11,400 9,900	59 56	12,500	62 60	11,700
85'													21	7,100	21	-	37	7,800	38	10,500	46	8,200	46	10,800	53	8,600	53	9,700	58	8,900
90'													-1	7,100		10,300	31	6,600	33	9,400	42	7,000	43	9,600	50	7,500	50	8,600	55	7,700
95'																	25	5,600	27	8,400	38	6,000	39	8,600	47	6,500	47	7,600	53	6,700
100'																	17	4,800	19	7,500	34	5,200	35	7,700	43	5,600	44	6,700	50	5,900
105'																					29	4,400	30	6,900	40	4,800	41	5,900	47	5,100
110'																					24	3,700	24	6,200	37	4,100	37	5,200	44	4,300
115'																					15	3,100	15	5,600	33	3,500	32	4,500	41	3,700
120'																									27	2,900	28	4,000	38	3,200
125'																									22	2,400	23	3,500	34	2,600
130'																									14	2,000	14	3,100	30	2,200
135'																													26	1,800
D															0		-	()												20
												Ге	eles	coping	CO	ndition	s (%	6)												
Telescoping mode		I, II		1		1		II		I		II		1		II		1		II		1		II		1		II		I, II
2nd boom		0		50		100		0		100		0		100		0		100		0		100		0		100		50		100
3rd boom		0		0		0		33		16		50		33		66		50		83		66		100		83		100		100
4th boom		0		0		0		33		16		50		33		66		50		83		66		100		83		100		100
Top boom		0		0		0		33		16		50		33		66		50		83		66		100		83		100		100

	LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS FULLY EXTENDED																												
										23'	11-	3/8" (7	.3 r	n) SPF	REA	ND 3	860°	ROTA	4TIC	NC									
_ A	:	39.4'		53.7'		68.1'		68.1'		32.4'		82.4'		96.8'		96.8'	1	11.1'	1	11.1'	1.	25.5'	1	25.5'	1	39.8'	1	39.8'	
c	В	(12 m)	В	(16.4 m)	В	(20.8 m)	В	(20.8 m)	В	(25.1 m)	В	(25.1 m)	В	(29.5 m)	В	(29.5 m)	В	(33.9 m)	В	(33.9 m)	В	(38.3 m)	В	(38.3 m)	В	(42.6 m)	В	(42.6 m)	
0°	32.2	30,900	46.6'	19,400	60.7'	12,100	60.5'	15,600	75.0'	8,900	75.0'	11,800	89.0'	6,200	89.0'	8,200	102.0'	4,400	103.0	6,200	117.0'	3,000	116.0	5,400	131.0	2,000	130.0	3,100	
Telescoping mode		I, II		1		1		II		I		II		_		=		1		II		1		=		1		II	

- $\boldsymbol{\mathsf{A}}$: Boom length in feet
- B: Load radius in feet
- $$\label{eq:condition} \begin{split} \textbf{C}: & \text{Loaded boom angle (°)} \\ \textbf{D}: & \text{Minimum boom angle (°) for indicated length (no load)} \end{split}$$

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 (meters)	39.4' (12 m)	39.4' t	to68.1'	68.1' to 154.2' (20.8 m to 47 m)	Single top Jib
Telescoping mode	I, II	1	II	I, II	I, II
Number of parts of line	16	8	4	4	1

			ON O	UTRIGG	ERS FL		TENDE ROTA		-3/8" (7.3	m) SPR	EAD
		154.2' (47	7.0 m) Boom	+ 33.2' (10.	1 m) Jib					154.2' (47.	0 m) Bo
С	3.5°	Tilt	25°	Tilt	45°	Tilt		С	3.5°	Tilt	25
	R	W	R	W	R	W			R	W	R
80	37.8'	10,800	51.5'	10,800	58.8'	9,400		80	45.8'	6,800	71.
79	41.5'	10,800	55.3'	10,400	62.2'	9,200		79	50.0'	6,800	75.
78	45.2'	10,800	58.6'	10,200	65.7'	9,000		78	54.2'	6,800	79.
77	49.2'	10,800	62.1'	9,900	68.4'	8,800		77	58.5'	6,800	82.
76	52.6'	10,800	65.3'	9,600	71.6'	8,700		76	62.7'	6,800	86.
75	56.3'	10,800	69.0'	9,300	74.5'	8,500		75	66.8'	6,800	90.
73	63.5'	10,500	75.2'	8,900	80.5'	8,200		73	74.6'	6,800	96.
70	73.4'	9,600	84.5'	8,300	88.8'	7,700		70	87.2'	6,800	107.
68	79.7'	9,100	90.1'	7,900	94.4'	7,400		68	94.4'	6,700	113.
65	88.0'	8,200	98.3'	7,200	102.0'	6,800		65	104.0'	5,900	122.
63	93.9'	7,500	104.0'	6,700	106.0'	6,400		63	110.0'	5,400	128.
60	102.0'	6,700	111.0'	6,100	114.0'	5,800		60	119.0'	4,500	136.
58	107.0'	5,800	116.0'	5,400	118.0'	5,100		58	124.0'	3,900	141.
55	114.0'	4,700	122.0'	4,400	124.0'	4,200		55	131.0'	2,900	147.
53	118.0'	4,100	126.0'	3,700	128.0'	3,600		53	137.0'	2,300	152.
50	125.0'	3,200	133.0'	3,000	133.0'	2,800		50	144.0'	1,600	158.
48	129.0'	2,700	136.0'	2,400	137.0'	2,300		48	149.0'	1,100	162.
45	136.0'	2,000	142.0'	1,800	142.0'	1,700					
43	139.0'	1,600	146.0'	1,500	•						
40	145.0'	1,100	151.0'	1,100							

° ROTA1	ΓΙΟN						
			154.2' (47	7.0 m) Boom	+ 58.1' (17	.7 m) Jib	
	С	3.5°	Tilt	25°	Tilt	45°	Tilt
		R	W	R	W	R	W
)	80	45.8'	6,800	71.7'	6,300	83.5'	5,100
)	79	50.0'	6,800	75.5'	6,200	87.1'	5,100
D	78	54.2'	6,800	79.1'	6,000	90.3'	5,000
)	77	58.5'	6,800	82.7'	5,900	93.3'	5,000
D	76	62.7'	6,800	86.4'	5,800	96.2'	4,900
)	75	66.8'	6,800	90.0'	5,700	99.5'	4,800
D	73	74.6'	6,800	96.7'	5,500	105.0'	4,700
)	70	87.2'	6,800	107.0'	5,200	113.0'	4,600
D	68	94.4'	6,700	113.0'	5,100	119.0'	4,500
)	65	104.0'	5,900	122.0'	4,900	126.0'	4,500
D	63	110.0'	5,400	128.0'	4,500	132.0'	4,200
)	60	119.0'	4,500	136.0'	4,100	139.0'	3,800
D	58	124.0'	3,900	141.0'	3,600	143.0'	3,400
)	55	131.0'	2,900	147.0'	2,800	149.0'	2,600
)	53	137.0'	2,300	152.0'	2,200	153.0'	2,100
)	50	144.0'	1,600	158.0'	1,500	158.0'	1,400
)	48	149.0'	1,100	162.0'	1,100	162.0'	1,000
)							

						360°	ROTATION			
	139.8' (42	2.6 m) Boon	n (telescopir	ng mode II) +	+ 33.2' (10.1	m) Jib		139.8' (4	2.6 m) Boom	(telesco
С	3.5°	Tilt	25°	Tilt	45°	Tilt	С	3.5°	Tilt	25
	R	w	R	W	R	W		R	w	R
80	32.7'	11,700	45.8'	11,600	53.0'	10,000	80	40.8'	7,300	64.
79	36.4'	11,700	49.0'	11,200	55.8'	9,800	79	44.7'	7,300	67.
78	39.6'	11,700	52.1'	10,900	59.1'	9,600	78	48.7'	7,300	72.
77	43.0'	11,700	55.0'	10,600	61.6'	9,400	77	52.6'	7,300	75.
76	46.4'	11,700	57.7'	10,300	64.1'	9,200	76	56.5'	7,300	78.
75	49.4'	11,700	60.9'	10,100	67.0'	9,100	75	60.0'	7,300	81.
73	55.8'	11,500	67.0'	9,500	72.6'	8,700	73	67.0'	7,300	88.
70	65.1'	10,400	75.1'	8,900	80.1'	8,200	70	78.3'	7,300	97.
68	70.4'	9,700	80.6'	8,400	84.9'	7,800	68	85.2'	7,100	103.
65	78.4'	8,600	88.1'	7,500	91.7'	7,100	65	94.2'	6,200	112.
63	83.7'	7,900	93.0'	7,000	96.4'	6,700	63	99.8'	5,700	117.
60	91.0'	7,100	100.0'	6,400	103.0'	6,100	60	109.0'	5,100	124.
58	96.0'	6,600	104.0'	6,000	107.0'	5,800	58	114.0'	4,700	129.
55	103.0'	6,000	111.0'	5,500	113.0'	5,300	55	122.0'	4,200	137.
53	108.0'	5,600	115.0'	5,200	117.0'	5,000	53	127.0'	3,900	141.
50	114.0'	5,100	121.0'	4,700	122.0'	4,600	50	134.0'	3,500	147.
48	119.0'	4,700	125.0'	4,400	126.0'	4,200	48	139.0'	3,200	151.
45	124.0'	4,000	130.0'	3,800	130.0'	3,600	45	145.0'	2,700	156.
43	128.0'	3,600	134.0'	3,400			43	149.0'	2,400	160.
40	134.0'	3,100	138.0'	3,000			40	155.0'	2,000	165.
38	137.0'	2,800	141.0'	2,700			38	159.0'	1,700	167.
35	142.0'	2,400	145.0'	2,300			35	164.0'	1,400	171.
33	145.0'	2,200	148.0'	2,100			33	168.0'	1,200	174.
30	149.0'	1,900	151.0'	1,800			30	172.0'	1,000	177.
25	155.0'	1,500	156.0'	1,500						
20	159.0'	1.200								

ION						
	139.8' (4	12.6 m) Boo	m (telescopi	ng mode II)	+ 58.1' (17.	7 m) Jib
С	3.5°	Tilt	25°	Tilt	45°	Tilt
	R	w	R	w	R	w
80	40.8'	7,300	64.6'	6,500	77.3'	5,200
79	44.7'	7,300	67.9'	6,400	80.4'	5,100
78	48.7'	7,300	72.0'	6,200	83.5'	5,100
77	52.6'	7,300	75.2'	6,100	86.2'	5,000
76	56.5'	7,300	78.1'	6,000	89.2'	5,000
75	60.0'	7,300	81.8'	5,900	92.4'	5,000
73	67.0'	7,300	88.2'	5,700	97.7'	4,900
70	78.3'	7,300	97.5'	5,400	105.0'	4,700
68	85.2'	7,100	103.0'	5,300	110.0'	4,600
65	94.2'	6,200	112.0'	5,100	118.0'	4,600
63	99.8'	5,700	117.0'	4,700	123.0'	4,400
60	109.0'	5,100	124.0'	4,300	129.0'	4,000
58	114.0'	4,700	129.0'	4,000	133.0'	3,800
55	122.0'	4,200	137.0'	3,600	139.0'	3,500
53	127.0'	3,900	141.0'	3,400	143.0'	3,300
50	134.0'	3,500	147.0'	3,100	148.0'	3,000
48	139.0'	3,200	151.0'	2,900	152.0'	2,700
45	145.0'	2,700	156.0'	2,600	156.0'	2,300
43	149.0'	2,400	160.0'	2,300		
40	155.0'	2,000	165.0'	1,900		
38	159.0'	1,700	167.0'	1,700		
35	164.0'	1,400	171.0'	1,400		
33	168.0'	1,200	174.0'	1,200		
30	172.0'	1,000	177.0'	1,000		

			ON O	UTRIGO	GERS FL	JLLY EX
						360°
	125.5' (38.3 m) Boo	m (telescopi	ing mode I)	+ 33.2' (10.1	I m) Jib
С	3.5°	Tilt	25°	Tilt	45°	Tilt
	R	W	R	W	R	W
80	30.5'	14,600	43.5'	14,000	50.1'	10,700
79	33.3'	14,600	46.0'	13,600	52.6'	10,600
78	36.0'	14,600	49.2'	13,300	55.1'	10,500
77	39.0'	14,600	51.7'	12,900	57.6'	10,300
76	42.6'	14,600	54.1'	12,700	60.1'	10,200
75	45.5'	14,600	56.9'	12,400	62.7'	10,100
73	51.2'	14,600	62.4'	11,900	67.5'	10,000
70	59.8'	13,700	70.0'	11,200	74.6'	9,700
68	64.6'	13,000	74.9'	10,800	78.8'	9,600
65	72.3'	12,100	82.0'	10,300	85.3'	9,500
63	77.1'	11,600	86.4'	10,000	89.2'	9,300
60	84.1'	10,100	93.0'	9,100	95.3'	8,500
58	88.2'	8,900	96.6'	8,100	99.0'	7,600
55	94.2'	7,500	102.0'	6,900	104.0'	6,500
53	98.4'	6,700	106.0'	6,200	108.0'	5,900
50	104.0'	5,700	111.0'	5,300	112.0'	5,000
48	108.0'	5,100	115.0'	4,800	116.0'	4,500
45	113.0'	4,300	120.0'	4,100	120.0'	3,800
43	117.0'	3,900	123.0'	3,700		
40	122.0'	3,300	127.0'	3,200		
38	125.0'	3,000	129.0'	2,900		
35	129.0'	2,500	133.0'	2,400		
33	132.0'	2,300	135.0'	2,200		
30	136.0'	2,000	139.0'	1,900		
25	141.0'	1,500	143.0'	1,500		
20	145.0'	1,200				
15	148.0'	1,000				

	125.5' (3	38.3 m) Boon	n (telescopi	ng mode I) -	+ 58.1' (17.7	m) Jib
С	3.5°	Tilt	25°	Tilt	45°	Tilt
	R	W	R	W	R	W
80	37.2'	8,800	58.7'	7,000	71.2'	5,20
79	41.2'	8,800	61.5'	6,800	73.9'	5,10
78	44.8'	8,800	65.4'	6,700	76.8'	5,10
77	47.8'	8,800	68.4'	6,500	79.5'	5,00
76	51.3'	8,800	70.8'	6,400	82.1'	5,00
75	54.9'	8,800	74.3'	6,300	84.9'	5,00
73	61.6'	8,800	80.5'	6,100	90.0'	4,90
70	71.3'	8,300	88.9'	5,800	97.5'	4,70
68	77.2'	7,900	94.6'	5,600	102.0'	4,60
65	86.1'	7,500	102.0'	5,400	109.0'	4,60
63	92.0'	7,100	107.0'	5,300	113.0'	4,50
60	99.9'	6,800	115.0'	5,100	120.0'	4,50
58	105.0'	6,500	119.0'	5,000	124.0'	4,40
55	112.0'	5,400	126.0'	4,800	129.0'	4,40
53	117.0'	4,800	130.0'	4,300	133.0'	4,20
50	123.0'	4,000	136.0'	3,600	138.0'	3,50
48	127.0'	3,500	139.0'	3,200	140.0'	3,10
45	133.0'	2,900	144.0'	2,700	145.0'	2,50
43	137.0'	2,600	147.0'	2,400	•	
40	143.0'	2,100	151.0'	2,000		
38	146.0'	1,800	154.0'	1,700		
35	151.0'	1,500	158.0'	1,400		
33	154.0'	1,300	160.0'	1,200		
30	158.0'	1,000	163.0'	1,000		

- C : Loaded boom angle (°)
 R : Load radius in feet
 W : Rated lifting capacity in pounds

8' 73 180,000 78 102,700	
10' 70 175,700 76 102,700 80 90,200 79 40,100	
12' 67 153,600 74 102,700 78 90,200 77 40,100	
15' 61 128,200 70 102,700 75 89,900 75 40,100 78 42,500 78 35,500	
20' 52 94,800 64 98,000 71 75,000 70 40,100 74 42,500 74 35,500 77 40,100 77 33,300 79 35,500 79 32,200	
25' 41 67,800 58 65,800 66 59,500 65 40,100 71 42,500 70 35,500 74 40,100 74 33,300 77 35,500 77 32,200 79 33,300 79 28,700	
30' 25 46,900 50 45,400 61 44,000 60 40,100 67 42,500 67 35,500 71 40,100 71 33,300 74 35,500 74 30,200 77 33,300 77 26,300 79 26,700	79 24,300
35' 42 33,400 56 32,200 55 36,200 63 34,300 63 35,500 68 35,400 68 31,600 72 35,100 72 27,300 74 30,900 74 24,000 77 26,700	77 24,100 78 20,900
40' 33 25,400 50 24,400 50 30,400 58 26,400 58 31,100 65 27,500 65 29,300 69 28,300 69 24,900 72 28,400 72 22,000 75 25,300	75 22,300 77 20,900
45' 18 19,800 44 18,900 43 24,600 54 20,800 54 25,300 61 21,800 61 25,600 65 22,600 66 22,900 69 23,100 69 20,200 72 23,500	73 20,700 75 20,700
50' 37 14,800 36 20,300 49 16,700 49 21,000 57 17,700 57 21,300 62 18,400 63 20,400 67 18,900 67 18,700 70 19,300	71 19,300 73 19,400
55' 28 11,600 27 17,000 44 13,400 44 17,600 53 14,500 54 18,000 59 15,200 60 18,000 64 15,700 64 17,400 68 16,100	68 17,300 71 16,400
60' 13 9,200 12 14,300 38 10,800 38 14,900 49 11,900 49 15,400 56 12,600 56 15,600 64 13,100 61 15,700 65 13,400	66 14,700 69 13,700
65' 32 8,700 32 12,800 45 9,700 45 13,200 52 10,500 53 13,400 58 11,000 59 13,600 63 11,300	63 12,500 67 11,600
70' 23 7,000 23 11,000 40 8,000 40 11,400 49 8,700 49 11,600 55 9,200 56 11,800 60 9,600	61 10,700 64 9,900
75' 5 5,600 5 9,500 35 6,500 35 9,900 45 7,200 45 10,100 52 7,700 53 10,300 57 8,100	58 9,300 62 8,400
80' 29 5,200 29 8,600 41 5,900 41 8,800 49 6,400 49 9,000 55 6,800	55 8,000 60 7,100
85' 21 4,200 21 7,500 36 4,800 37 7,700 46 5,300 46 7,800 52 5,700	52 6,900 57 6,000
90' 31 3,900 32 6,700 42 4,400 42 6,900 49 4,700	49 5,900 55 5,000
95' 25 3,100 25 5,900 38 3,500 38 6,000 46 3,900	46 5,000 52 4,200
100' 16 2,400 16 5,200 34 2,800 34 5,200 43 3,200	43 4,300 50 3,400
105' 29 2,100 29 4,600 40 2,500	40 3,600 47 2,800
110' 24 1,600 23 4,000 36 1,900	36 3,000 44 2,200
115' 14 3,500 32 1,400	32 2,400 41 1,600
120'	27 2,000
125'	21 1,600
D	
Tabusain	
Telescoping I mode	
2nd boom	
3rd boom	
4th boom	
Top boom 16 50 33	

21' 11-3/4" (6.7 m) SPREAD 360

- 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	39.4'	39.4' to	68.1'	68.1' to 154.2'	Single top
(meters)	(12m)	(12m to	20.8m)	(20.8m to 47m)	Jib
Telescoping mode	1, 11	I	II	1, 11	I, II
Number of parts of line	16	8	4	4	1

			ON	OUTRIC	GGERS I	MID EXT	ENDED	21' 11-3	/4" (6.7 m	ı) SPRE	AD
						360°	ROTAT	ION			
		154.2' (4	17.0 m) Boom	1 + 33.2' (10.	1 m) Jib					154.2' (4	17.0 m
С	3.5°	Tilt	25°	Tilt	45°	Tilt		С	3.5°	Tilt	
	R	W	R	W	R	W			R	W	F
80	37.8'	10,800	51.5'	10,800	58.8'	9,400		80	45.8'	6,800	
79	41.5'	10,800	55.3'	10,400	62.2'	9,200		79	50.0'	6,800	
78	45.2'	10,800	58.6'	10,200	65.7'	9,000		78	54.2'	6,800	
77	49.2'	10,800	62.1'	9,900	68.4'	8,800		77	58.5'	6,800	
76	52.6'	10,800	65.3'	9,600	71.6'	8,700		76	62.7'	6,800	
75	56.3'	10,800	69.0'	9,300	74.5'	8,500		75	66.8'	6,800	
73	63.5'	10,500	75.2'	8,900	80.5'	8,200		73	74.6'	6,800	
70	73.4'	9,600	84.5'	8,300	88.8'	7,700		70	87.2'	6,800	1
68	79.0'	8,700	89.8'	7,700	94.0'	7,000		68	93.8'	6,300	1
65	86.7'	6,700	96.9'	6,000	101.0'	5,600		65	102.0'	4,700	1
63	91.8'	5,600	102.0'	5,100	105.0'	4,700		63	108.0'	3,800	1
60	99.3'	4,300	109.0'	3,900	112.0'	3,700		60	116.0'	2,800	1
58	104.0'	3,500	114.0'	3,300	116.0'	3,100		58	121.0'	2,200	1
55	112.0'	2,600	121.0'	2,400	122.0'	2,300		55	129.0'	1,400	1
53	116.0'	2,100	125.0'	1,900	126.0'	1,800		53	134.0'	1,000	
50	123.0'	1,400	131.0'	1,300	132.0'	1,200					
48	128.0'	1,000									

ΓΙΟN									
		154.2' (4	47.0 m) Boon	n + 58.1' (17.	7 m) Jib				
С	3.5°	Tilt	25°	Tilt	45° Tilt				
	R	W	R	W	R	W			
80	45.8'	6,800	71.7'	6,300	83.5'	5,100			
79	50.0'	6,800	75.5'	6,200	87.1'	5,100			
78	54.2'	6,800	79.1'	6,000	90.3'	5,000			
77	58.5'	6,800	82.7'	5,900	93.3'	5,000			
76	62.7'	6,800	86.4'	5,800	96.2'	4,900			
75	66.8'	6,800	90.0'	5,700	99.5'	4,800			
73	74.6'	6,800	96.7'	5,500	105.0'	4,700			
70	87.2'	6,800	107.0'	5,200	113.0'	4,600			
68	93.8'	6,300	113.0'	5,100	119.0'	4,500			
65	102.0'	4,700	120.0'	4,000	125.0'	3,700			
63	108.0'	3,800	125.0'	3,300	130.0'	3,100			
60	116.0'	2,800	133.0'	2,400	137.0'	2,300			
58	121.0'	2,200	138.0'	1,900	141.0'	1,800			
55	129.0'	1,400	145.0'	1,300	147.0'	1,200			
53	134.0'	1,000							

			ON	OUTRI	GGERS I	MID EXT	ENDED	21' 11-3	/4" (6.7 m	1) SPRE	٩D
						360°	ROTAT	ION			
	139.8	(42.6 m) Bo	om (telescop	ing mode II)	+ 33.2' (10.1	m) Jib			139.8'	(42.6 m) Boo	m (tel
С	3.5°	Tilt	25°	Tilt	45°	Tilt		С	3.5°	Tilt	
	R	W	R	W	R	W			R	W	R
80	32.7'	11,700	45.8'	11,600	53.0'	10,000		80	40.8'	7,300	
79	36.4'	11,700	49.0'	11,200	55.8'	9,800		79	44.7'	7,300	
78	39.6'	11,700	52.1'	10,900	59.1'	9,600		78	48.7'	7,300	
77	43.0'	11,700	55.0'	10,600	61.6'	9,400		77	52.6'	7,300	
76	46.4'	11,700	57.7'	10,300	64.1'	9,200		76	56.5'	7,300	
75	49.4'	11,700	60.9'	10,100	67.0'	9,100		75	60.0'	7,300	
73	55.8'	11,500	67.0'	9,500	72.6'	8,700		73	67.0'	7,300	
70	65.1'	10,400	75.1'	8,900	80.1'	8,200		70	78.3'	7,300	
68	70.4'	9,700	80.6'	8,400	84.9'	7,800		68	85.2'	7,100	1
65	78.4'	8,600	88.1'	7,500	91.7'	7,100		65	94.2'	6,200	1
63	83.7'	7,900	93.0'	7,000	96.4'	6,700		63	99.8'	5,700	1
60	91.1'	6,600	99.4'	6,000	102.0'	5,600		60	108.0'	4,700	1
58	95.6'	5,800	104.0'	5,200	106.0'	5,000		58	113.0'	4,000	1
55	102.0'	4,700	110.0'	4,300	112.0'	4,100		55	120.0'	3,100	1
53	107.0'	4,100	114.0'	3,700	116.0'	3,600		53	125.0'	2,600	1
50	113.0'	3,300	120.0'	3,000	121.0'	2,900		50	132.0'	2,000	1
48	117.0'	2,800	124.0'	2,600	125.0'	2,600		48	137.0'	1,600	1
45	123.0'	2,200	129.0'	2,100	129.0'	2,100		45	143.0'	1,200	1
43	127.0'	1,900	132.0'	1,800							
40	132.0'	1,500	137.0'	1,400							
38	136.0'	1,200	140.0'	1,100							

	139.8'	(42.6 m) Boo	m (telescopi	ing mode II) 4	+ 58.1' (17.7 ı	m) Jib
С	3.5°	Tilt	25°	Tilt	45°	Tilt
	R	W	R	W	R	W
80	40.8'	7,300	64.6'	6,500	77.3'	5,200
79	44.7'	7,300	67.9'	6,400	80.4'	5,10
78	48.7'	7,300	72.0'	6,200	83.5'	5,10
77	52.6'	7,300	75.2'	6,100	86.2'	5,000
76	56.5'	7,300	78.1'	6,000	89.2'	5,000
75	60.0'	7,300	81.8'	5,900	92.4'	5,000
73	67.0'	7,300	88.2'	5,700	97.7'	4,900
70	78.3'	7,300	97.5'	5,400	105.0'	4,700
68	85.2'	7,100	103.0'	5,300	110.0'	4,600
65	94.2'	6,200	112.0'	5,100	118.0'	4,60
63	99.8'	5,700	117.0'	4,700	123.0'	4,400
60	108.0'	4,700	124.0'	4,000	129.0'	3,800
58	113.0'	4,000	128.0'	3,400	133.0'	3,300
55	120.0'	3,100	135.0'	2,700	139.0'	2,600
53	125.0'	2,600	139.0'	2,300	142.0'	2,200
50	132.0'	2,000	145.0'	1,800	147.0'	1,700
48	137.0'	1,600	149.0'	1,500	151.0'	1,40
45	143.0'	1,200	155.0'	1,000	155.0'	1,000

			ON	OUTRIC	GGERS I				3/4" (6.7 m) SPRE	٩D
	125.5	' (38.3 m) Bo	om (tolonoon	ning mode IV	22 21/10 1		ROTAT	ION	125.5'	(38.3 m) Boo	om (tol
С				-	-			С		<u> </u>	mi (tei
	3.5°	ι ιπ W	25°	Tilt W	45°	Tilt W		C	3.5°	W W	F
80	30.5'	14.600	43.5'	14.000	50.1'	10.700		80	37.2'	8.800	
79	33.3'	14,600	46.0'	13,600	52.6'	10,700		79	41.2'	8,800	
78	36.0'	14,600	49.2'	13,300	55.1'	10,500		78	44.8'	8,800	
77	39.0'	14,600	51.7'	12,900	57.6'	10,300		77	44.8	8,800	
76	42.6'	14,600	54.1'	12,700	60.1'	10,200		76	51.3'	8,800	
75	45.5'	14,600	56.9'	12,700	62.7'	10,100		75	54.9'	8,800	
73	51.2'	14,600	62.4'	11,900	67.5	10,100		73	61.6'	8,800	
										-,	
70 68	59.8' 64.6'	13,700 13,000	70.0' 74.9'	11,200	74.6' 78.8'	9,700 9,600		70 68	71.3' 77.2'	8,300 7,900	
65	71.7'	10,700	74.9 81.2'	10,800		8,400		65	86.1'	7,500	_
				9,000					-		
63	76.3'	9,200	85.4'	7,800	88.8'	7,400		63	91.5'	6,500	
60	82.7'	7,400	91.5'	6,400	94.6'	6,100		60	98.5'	5,100	1
58	86.8'	6,400	95.3'	5,600	98.1'	5,400		58	104.0'	4,400	1
55	93.1'	5,200	101.0'	4,600	104.0'	4,400		55	111.0'	3,400	1
53	97.2'	4,500	105.0'	4,000	107.0'	3,900		53	115.0'	2,900	1
50	103.0'	3,600	110.0'	3,200	112.0'	3,200		50	122.0'	2,200	1
48	107.0'	3,100	114.0'	2,800	115.0'	2,700		48	126.0'	1,800	1
45	112.0'	2,400	119.0'	2,200	120.0'	2,100		45	132.0'	1,300	1
43	116.0'	2,000	122.0'	1,800							
40	121.0'	1.500	126.0'	1.400							

ROTAT	ION						
		125.5'	(38.3 m) Bo	om (telescop	ing mode I) +	- 58.1' (17.7 ı	n) Jib
	С	3.5°	Tilt	25°	Tilt	45°	Tilt
		R	W	R	W	R	W
	80	37.2'	8,800	58.7'	7,000	71.2'	5,200
	79	41.2'	8,800	61.5'	6,800	73.9'	5,100
	78	44.8'	8,800	65.4'	6,700	76.8'	5,100
	77	47.8'	8,800	68.4'	6,500	79.5'	5,000
	76	51.3'	8,800	70.8'	6,400	82.1'	5,000
	75	54.9'	8,800	74.3'	6,300	84.9'	5,000
	73	61.6'	8,800	80.5'	6,100	90.0'	4,900
	70	71.3'	8,300	88.9'	5,800	97.5'	4,700
	68	77.2'	7,900	94.6'	5,600	102.0'	4,600
	65	86.1'	7,500	102.0'	5,400	109.0'	4,600
	63	91.5'	6,500	107.0'	5,300	113.0'	4,500
	60	98.5'	5,100	114.0'	4,400	120.0'	4,100
	58	104.0'	4,400	118.0'	3,700	123.0'	3,600
	55	111.0'	3,400	124.0'	3,000	129.0'	2,900
	53	115.0'	2,900	129.0'	2,500	132.0'	2,400
	50	122.0'	2,200	134.0'	1,900	137.0'	1,900
	48	126.0'	1,800	138.0'	1,600	140.0'	1,500
1	45	132.0'	1,300	143.0'	1,100	144.0'	1,100

C : Loaded boom angle (°)

 $\boldsymbol{\mathsf{R}}$: Load radius in feet

W : Rated lifting capacity in pounds

124.0' 1,200 129.0' 1,100

Α																														
В	С	(12 m)	С	(16.4 m)	С		С		С		С		С		С		С		С		С		С		С		С		С	(47 m)
8'	73	180,000	78	102,700																										
10'	70	164,000	76	102,700	80	90,200	79	40,100																						
12'	67	142,400	74	102,700	78	90,200	77	40,100																						
15'	61	113,500	70	102,700	75	89,900	75	40,100	78	42,500	78	35,500																		
20'	52	75,400	64	73,400	71	67,200	70	40,100	74	42,500	74	35,500	77	40,100	77	33,300	79	35,500	79	32,200										
25'	41	48,200	57	46,700	66	45,400	65	40,100	71	42,500	70	35,500	74	40,100	74	33,300	77	35,500	77	32,200	79	33,300	79	28,700						
30'	25	33,900	50	32,700	61	31,500	60	35,500	67	33,600	67	35,500	71	34,800	71	33,300	74	35,500	74	30,200	77	33,300	77	26,300	79	26,700	79	24,300		
35'			42	23,900	55	23,000	55	28,900	63	24,900	62	29,500	68	26,000	68	29,900	71	26,800	72	27,300	74	27,300	74	24,000	77	26,700	77	24,100	78	20,900
40'			33	18,000	50	17,100	50	22,800	58	19,000	58	23,400	64	20,100	64	23,800	68	20,800	69	24,100	71	21,400	72	22,000	74	21,800	75	22,300	77	20,900
45'			18	13,700	44	12,900	43	18,300	54	14,800	54	19,000	61	15,800	61	19,400	65	16,500	65	19,600	69	17,000	69	19,800	72	17,400	72	18,700	75	17,700
50'					36	9,700	36	14,900	49	11,500	49	15,600	57	12,600	57	16,000	62	13,200	62	16,300	66	13,800	67	16,400	70	14,100	70	15,300	73	14,400
55'					27	7,200	27	12,300	44	8,900	44	13,000	53	10,000	53	13,400	59	10,700	59	13,700	63	11,200	64	13,800	67	11,600	68	12,700	70	11,900
60'					12	5,300	12	10,300	38	6,900	38	10,800	49	7,900	49	11,300	55	8,600	56	11,600	61	9,100	61	11,700	65	9,500	65	10,700	68	9,800
65'									32	5,200	32	9,100	45	6,200	45	9,500	52	6,900	52	9,800	58	7,500	58	10,000	62	7,800	63	9,000	66	8,100
70'									23	3,800	23	7,700	40	4,800	40	8,100	48	5,500	49	8,300	55	6,000	55	8,500	60	6,400	60	7,500	64	6,700
75'									6	2,600	5	6,500	35	3,600	35	6,800	45	4,300	45	7,100	52	4,800	52	7,300	57	5,200	57	6,300	61	5,500
80'													29	2,600	28	5,800	41	3,200	41	6,000	49	3,700	49	6,200	55	4,100	55	5,200	59	4,400
85'													21	1,700	20	4,900	36	2,300	36	5,100	45	2,800	46	5,300	52	3,200	52	4,300	57	3,500
90'																	31	1,600	31	4,300	42	2,100	42	4,500	49	2,400	49	3,500	54	2,700
95'																			25	3,700	38	1,400	38	3,800	46	1,700	46	2,800	52	2,000
100'																			16	3,100			34	3,200	43	1,100	43	2,200	49	1,400
105'																							29	2,600			40	1,700		
110'																							23	2,200			36	1,100		
115'																							14	1,700						
D																														
Telescoping mode																														
2nd boom																														
3rd boom																														
4th boom																														
Top boom																														
. 55 000111																														

18' 1/2" (5.5 m) SPREAD 360

A C B (12 m) B (16.4 m) B (20.8 m) B (20.8 m) B (20.8 m) B (20.8 m) B (25.1 m) B (25.1 m) B (25.1 m) B (25.1 m) B (25.5 m) B (29.5 m) B (33.9 m) B (33.9 m) B (38.3 m)

O 32 2 29,20 46.4 12,600 60.7 5,000 60.7 10,000 75.0 1

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	39.4'		o 68.1'	68.1' to 154.2' (20.8 m to 47 m)	Single top Jib
(meters)	(12 m)	(1211110	20.6 (11)	(20.6 111 to 47 111)	JID
Telescoping mode	I, II	I	II	1, 11	I, II
Number of parts of line	16	8	4	4	1

-												
				NO	I OUTRI	IGGERS	MID EX	(TENDE	D 18' 1/2	2" (5.5 m)) SPREA	٩D
							360°	ROTA	TION			
Ī			154.2' (4	7.0 m) Boom	1 + 33.2' (10	.1 m) Jib					154.2' (47	7.0 m
	С	3.5°	Tilt	25°	Tilt	45°	Tilt		С	3.5°		
		R	W	R	W	R	W			R	W	ı
Γ	80	37.8'	10,800	51.5'	10,800	58.8'	9,400		80	45.8'	6,800	
Γ	79	41.5'	10,800	55.3'	10,400	62.2'	9,200		79	50.0'	6,800	
	78	45.2'	10,800	58.6'	10,200	65.7'	9,000		78	54.2'	6,800	
	77	49.2'	10,800	62.1'	9,900	68.4'	8,800		77	58.5'	6,800	
	76	52.6'	10,800	65.3'	9,600	71.6'	8,700		76	62.7'	6,800	
	75	56.3'	10,800	69.0'	9,300	74.5'	8,500		75	66.8'	6,800	
	73	63.2'	10,100	74.4'	8,300	80.1'	7,600		73	74.6'	6,800	
	70	71.2'	7,400	82.4'	6,200	87.4'	5,700		70	84.5'	5,200	
	68	76.6'	6,000	87.3'	5,000	92.0'	4,700		68	90.3'	4,100	
	65	84.6'	4,300	95.2'	3,700	98.9'	3,500		65	98.8'	2,700	
	63	90.0'	3,400	100.0'	2,900	103.0'	2,800		63	105.0'	2,000	
	60	97.6'	2,300	107.0'	2,000	110.0'	1,900		60	113.0'	1,100	
	58	103.0'	1,700	112.0'	1,400	115.0'	1,400		·		<u> </u>	

ROTAT		- (0.0,	, 					
			154.2' (4	7.0 m) Boom	1 + 58.1' (17.	.7 m) Jib		
	С	3.5°	Tilt	25°	Tilt	45° Tilt		
	<u> </u>	R	W	R	W	R	W	
	80	45.8'	6,800	71.7'	6,300	83.5'	5,100	
	79	50.0'	6,800	75.5'	6,200	87.1'	5,100	
	78	54.2'	6,800	79.1'	6,000	90.3'	5,000	
	77	58.5'	6,800	82.7'	5,900	93.3'	5,000	
	76	62.7'	6,800	86.4'	5,800	96.2'	4,900	
	75	66.8'	6,800	90.0'	5,700	99.5'	4,800	
	73	74.6'	6,800	96.7'	5,500	105.0'	4,700	
	70	84.5'	5,200	105.0'	4,200	112.0'	3,800	
	68	90.3'	4,100	109.0'	3,300	117.0'	3,000	
	65	98.8'	2,700	117.0'	2,300	123.0'	2,100	
	63	105.0'	2,000	122.0'	1,700	128.0'	1,600	
	60	113.0'	1,100					

			10	OUTRI	IGGERS		TENDE		2" (5.5 m) SPREA	٩D
	139.8' (42.6 m) Boo	m (telescopi	ing mode II)	+ 33.2' (10.1	m) Jib			139.8' (4	42.6 m) Boo	m (tel
С	3.5°	Tilt	25°	Tilt	45°	Tilt		С	3.5°	Tilt	-
	R	W	R	W	R	W			R	W	ı
80	32.7'	11,700	45.8'	11,600	53.0'	10,000		80	40.8'	7,300	
79	36.4'	11,700	49.0'	11,200	55.8'	9,800		79	44.7'	7,300	
78	39.6'	11,700	52.1'	10,900	59.1'	9,600		78	48.7'	7,300	1
77	43.0'	11,700	55.0'	10,600	61.6'	9,400		77	52.6'	7,300	
76	46.4'	11,700	57.7'	10,300	64.1'	9,200		76	56.5'	7,300	
75	49.4'	11,700	60.9'	10,100	67.0'	9,100		75	60.0'	7,300	
73	55.8'	11,500	67.0'	9,500	72.6'	8,700		73	67.0'	7,300	
70	64.6'	10,200	74.9'	8,600	79.7'	7,800		70	78.3'	7,300	
68	69.3'	8,500	79.7'	7,300	84.0'	6,700		68	83.8'	6,100	
65	76.8'	6,600	86.4'	5,800	90.4'	5,400		65	91.6'	4,600	
63	81.8'	5,600	91.1'	4,900	94.7'	4,600		63	97.1'	3,800	
60	89.1'	4,300	97.6'	3,800	101.0'	3,600		60	105.0'	2,800	
58	93.6'	3,600	102.0'	3,200	105.0'	3,000		58	110.0'	2,200	
55	101.0'	2,700	108.0'	2,400	111.0'	2,300		55	118.0'	1,500	
53	105.0'	2,200	113.0'	2,000	115.0'	1,900		53	123.0'	1,100	
50	111.0'	1,500	119.0'	1,400	120.0'	1,300					
48	116.0'	1,100	122.0'	1,000	124.0'	1,000					

ROTAT	ΓΙΟΝ	- (0.0	,				
		139.8' (4	42.6 m) Boo	m (telescopi	ng mode II)	+ 58.1' (17.7	m) Jib
	С	3.5°	Tilt	25°	Tilt	45°	Tilt
		R	W	R	W	R	W
	80	40.8'	7,300	64.6'	6,500	77.3'	5,200
	79	44.7'	7,300	67.9'	6,400	80.4'	5,100
	78	48.7'	7,300	72.0'	6,200	83.5'	5,100
	77	52.6'	7,300	75.2'	6,100	86.2'	5,000
	76	56.5'	7,300	78.1'	6,000	89.2'	5,000
	75	60.0'	7,300	81.8'	5,900	92.4'	5,000
	73	67.0'	7,300	88.2'	5,700	97.7'	4,900
	70	78.3'	7,300	97.5'	5,400	105.0'	4,700
	68	83.8'	6,100	103.0'	5,000	110.0'	4,400
	65	91.6'	4,600	110.0'	3,900	116.0'	3,400
	63	97.1'	3,800	114.0'	3,200	120.0'	2,800
	60	105.0'	2,800	121.0'	2,400	127.0'	2,100
	58	110.0'	2,200	126.0'	1,900	131.0'	1,700
	55	118.0'	1,500	133.0'	1,300	137.0'	1,200
	53	123.0'	1,100		<u> </u>		

			10	N OUTRI	GGERS		(TENDE		2" (5.5 m) SPRE	ΑD
	125.5' (38.3 m) Boo	m (telescop	ing mode I)	+ 33.2' (10.1	m) Jib			125.5' (38.3 m) Boo	m (tel
С	3.5°	Tilt	25°	Tilt	45°	Tilt		С	3.5°	Tilt	
	R	W	R	W	R	W			R	W	ı
80	30.5'	14,600	43.5'	14,000	50.1'	10,700		80	37.2'	8,800	
79	33.3'	14,600	46.0'	13,600	52.6'	10,600		79	41.2'	8,800	
78	36.0'	14,600	49.2'	13,300	55.1'	10,500		78	44.8'	8,800	
77	39.0'	14,600	51.7'	12,900	57.6'	10,300		77	47.8'	8,800	
76	42.6'	14,600	54.1'	12,700	60.1'	10,200		76	51.3'	8,800	
75	45.5'	14,600	56.9'	12,400	62.7'	10,100		75	54.9'	8,800	
73	51.2'	14,600	62.4'	11,900	67.5'	10,000		73	61.6'	8,800	
70	58.2'	11,300	68.9'	9,500	73.7'	8,600		70	71.3'	8,300	
68	63.0'	9,500	73.2'	8,100	77.8'	7,400		68	76.1'	6,900	
65	69.9'	7,300	79.6'	6,300	83.5'	5,900		65	84.0'	5,200	
63	74.5'	6,100	83.7'	5,400	87.5'	5,000		63	89.2'	4,300	
60	81.0'	4,700	90.0'	4,200	93.5'	3,900		60	96.6'	3,100	
58	85.4'	3,900	93.9'	3,500	97.1'	3,300		58	102.0'	2,500	
55	91.8'	2,900	99.7'	2,600	103.0'	2,500		55	108.0'	1,700	
53	95.7'	2,300	104.0'	2,100	106.0'	2,000		53	113.0'	1,200	
50	102.0'	1,600	109.0'	1,500	111.0'	1,400					
48	105.0'	1,100	113.0'	1,100	114.0'	1,000					

)	ROTAT	ION	- (0.0	,				
Ī			125.5' (3	38.3 m) Boo	m (telescop	ing mode I)	+ 58.1' (17.7	m) Jib
1		С	3.5°	Tilt	25°	Tilt	45°	Tilt
1			R	W	R	W	R	W
		80	37.2'	8,800	58.7'	7,000	71.2'	5,200
		79	41.2'	8,800	61.5'	6,800	73.9'	5,100
		78	44.8'	8,800	65.4'	6,700	76.8'	5,100
		77	47.8'	8,800	68.4'	6,500	79.5'	5,000
		76	51.3'	8,800	70.8'	6,400	82.1'	5,000
		75	54.9'	8,800	74.3'	6,300	84.9'	5,000
		73	61.6'	8,800	80.5'	6,100	90.0'	4,900
		70	71.3'	8,300	88.9'	5,800	97.5'	4,700
		68	76.1'	6,900	94.0'	5,500	102.0'	4,600
		65	84.0'	5,200	101.0'	4,200	108.0'	3,900
		63	89.2'	4,300	105.0'	3,500	112.0'	3,300
		60	96.6'	3,100	112.0'	2,600	118.0'	2,500
		58	102.0'	2,500	116.0'	2,100	122.0'	2,000
		55	108.0'	1,700	123.0'	1,400	128.0'	1,400
		53	113.0'	1,200	127.0'	1,000	131.0'	1,000

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

 \boldsymbol{W} : Rated lifting capacity in pounds

ON OUTRIGGERS MIN EXTENDED 8' 10-5/16" (2.7 m) SPREAD

								0.1	-					0° RO			٥, . د	(=	,	O,										
	١	39.4'		F0 7!		CO 41 /	an n .			82.4' (2	n= 4 .	>	30	96.8' (-		444 417	00.0			105.51/	00.0			100.01/	40.0	\		154.2'
			_	53.7'	_	68.1' (2		11)	_	82.4 (4		m)	_	96.8 (4		n)	_	111.1' (m)	_	125.5' (m)	_	139.8' (m)		
В	С	(12 m)	С	(16.4 m)	С		С		С		С		С		С		С		С		С		С		С		С		С	(47 m)
8'	73	143,900	78	102,700																										
10'	70	94,900	76	93,000	80	90,200	79	40,100																						
12'	66	66,900	73	65,200	78	63,700	77	40,100																						
15'	61	44,700	70	43,400	75	42,000	75	40,100	78	42,500	78	35,500																		
20'	52	26,300	64	25,400	70	24,300	70	30,400	74	26,400	74	31,000	77	27,500	77	31,400	79	28,300	79	31,700										
25'	41	17,000	57	16,100	65	15,300	65	20,900	70	17,200	70	21,500	74	18,200	74	21,800	76	18,900	76	22,100	78	19,500	78	22,300						
30'	25	11,400	50	10,400	60	9,600	60	14,900	66	11,600	66	15,700	70	12,500	70	16,000	73	13,200	73	16,200	75	13,800	76	16,400	78	14,100	78	15,300		
35'			42	6,600	55	5,800	55	10,900	62	7,700	62	11,600	67	8,700	67	12,100	70	9,400	70	12,300	73	9,900	73	12,500	75	10,300	76	11,400	77	10,500
40'			33	3,900	49	3,100	49	8,100	58	4,900	58	8,700	63	5,900	64	9,200	67	6,600	68	9,500	70	7,100	71	9,600	73	7,500	73	8,600	75	7,700
45'			18	1,800	43	1,100	43	5,900	53	2,800	53	6,500	60	3,700	60	7,000	64	4,500	64	7,300	68	5,000	68	7,500	71	5,400	71	6,500	73	5,600
50'							36	4,300	49	1,100	49	4,900	56	2,100	56	5,300	61	2,800	61	5,600	65	3,300	65	5,800	68	3,700	69	4,800	71	4,000
55'							27	2,900			44	3,500			53	3,900	58	1,500	58	4,200	63	2,000	63	4,400	66	2,400	66	3,500	69	2,700
60'							13	1,900			38	2,400			49	2,800			55	3,100			60	3,300	64	1,300	64	2,300	67	1,500
65'											31	1,500			44	1,900			52	2,200			57	2,300			62	1,400		
70'															40	1,100			48	1,400			54	1,500						
D		(0			28		0		44		5																		
Telescoping mode		I, II		1		1		II		1		II		1		II														
2nd boom		0		50												0										100				
3rd boom		0		0		0		33		16						66		50				66		100				100		100
4th boom		0		0		0		33		16		50		33		66								100						100
Top boom																		50								83				100

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MIN EXTENDED 8' 10-5/16" (2.7 m)SPREAD $360\,$

 C
 B
 (12 m)
 B
 (16.4 m)
 B
 (20.8 m)

 0
 32.2
 9,200
 46.5'
 1,300
 60.8'
 1,700

 Telescoping

A : Boom length in feet

B : Load radius in feet

C : Loaded boom angle (°)

 \boldsymbol{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.

Single top Jib

1

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 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.
- 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.
- 2. 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.

- 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 14,600 lbs. (6,600 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 14,600 lbs. (6,600 kg) x number of parts of line.
- 13. The boom angle before loading should be greater to account for deflection. For rated lifting capacities, the loaded boom angle and the load radius is for reference only.
- 14. The 39.4' (12.0 m) boom length capacities are based on boom fully retracted. If not fully retracted [less than 53.7' (16.4 m) boom length], use the rated lifting capacities for the 53.7' (16.4 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 lifting capacity of single top, deduct the weight of the load handling equipment from the rated lifting capacity of the boom. For the lifting capacity of single top, the net capacity shall not exceed 14,600 lbs. (6,600 kg) including main boom hook mass attached to the boom.
- 17. When the base jib or top jib or both jibs are removed, set the jib state 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.
- For boom length 154.2' (47.0 m) or less and 125.5' (38.3 m) or longer with jib, rated lifting capacities are detarmined by loaded boom angle only in the column handed

	ON-RUBBER												
A			Ove	Front						360° F	Rotation		
	39	.4'	6	3.1'	96	5.8'		39	9.4'	6	8.1'	9	6.8'
В	С	(12 m)	С	(20.8 m)	С	(29.5 m)		С	(12 m)	С	(20.8 m)	С	(29.5 m)
12'	66	60,000						66	38,000				
15'	61	49,600						61	28,500				
20'	52	37,500	70	35,000				52	17,500	70	20,000		
25'	41	28,500	65	29,500	74	22,900		40	10,400	65	14,000	73	14,000
30'	25	21,500	60	24,000	71	21,500		25	6,500	60	9,500	70	10,000
35'			55	19,200	67	19,500				55	6,500	67	7,400
40'			49	15,200	64	16,000				49	4,500	63	5,400
45'			43	12,200	60	13,000				43	3,000	60	3,900
50'			36	9,700	57	10,600				36	1,800	56	2,700
55'			27	8,000	53	8,800						53	1,700
60'			13	6,500	49	7,400							
65'					45	6,100							
70'					40	5,000							
75'					35	4,100							
80'					28	3,400							
85'					20	2,700							
D				0					0	2	28	4	45
					Tele	scoping c	onditions	(%)					
Telescoping mode	I,	II		II		II		I, II				II	
2nd boom		כ		0		0		0 0			0		
3rd boom)	-	33	-	36			0		33		66
4th boom	()	;	33		66			0		33		66
Top boom		כ	-	33	-	36			0		33	66	

	LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON-RUBBER STATIONARY										
	A Over Front 360° Rotation										
		39.	.4'	68	1.1'	96	.8'		39	.4'	
c		В	(12 m)	В	(20.8 m)	В	(29.5 m)		В	(12m)	
0	32.2' 19,300 60.8' 6,300 89.1' 2,100 32.2' 5,100										

	ON-RUBBER CREEP								
A			Over	Front					
	39	0.4'	68	3.1'	96.8'				
В	С	(12 m)	С	(20.8 m)	С	(29.5 m)			
12'	66	45,000							
15'	61	36,600							
20'	52	26,800	70	29,200					
25'	40	20,500	65	22,800	74	22,900			
30'	25	15,600	60	18,200	71	18,900			
35'			55	14,800	67	15,500			
40'			49	12,000	64	12,900			
45'			43	9,800	60	10,600			
50'			36	7,900	57	8,900			
55'			27	6,500	53	7,300			
60'			13	5,200	49	6,100			
65'					44	5,000			
70'					40	4,100			
75'					34	3,200			
80'					28	2,500			
D				0					
		Telesco	ping conditi	ons (%)					
Telescoping mode	I,	II		II		II			
2nd boom	(0		0	0				
3rd boom	(0		33	66				
4th boom	(0	:	33	66				
Top boom	(0		33	66				

D . William boom angle ()
for indicated length (no load)
Over Front Rear

A: Boom length in feet
 B: Load radius in feet
 C: Loaded boom angle (°)
 D: Minimum boom angle (°)

LIFTIN	LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE									
	ON-RUBBER CREEP									
A			Over	Front						
	39).4'	68	3.1'	96	i.8'				
c	В	(12 m)	В	(20.8 m)	В	(29.5 m)				
0 32.2' 14,100 60.8' 5,000 89.1' 1,400										

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	39.4'	39.4' to 96.8'	Single top
(meters)	(12 m)	(12 m to 29.5 m)	Jib
Number of parts of line	6	4	1

WARNING AND OPERATING INSTRUCTIONS FOR ON-RUBBER LIFTING CAPACITIES

- 1. 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.
- 2. Rated lifting capacities shown in the chart are based on condition that crane is set on firm level surfaces with suspention-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.
- 3. If the suspention-lock cylinders contain air, the axle will not be locked completely and rated lifting capacities may not be obtainable. Bleed the cylinders according to the operation safety and maintenance manual.
- 4. Rated lifting capacities are based on proper tire inflation, capacity and condition. Damaged tires are hazardous to safe operation of
- 5. Tires shall be inflated to correct air pressure.

Air Pressure 57 psi (400 kPa)

- 6. Over front operation shall be performed within 2 degrees in front of chassis.
- 7. On-rubber lifting with "jib" is not permitted. Maximum permissible boom length is 96.8'. (29.5 m).
- When making lift on-rubber stationary, set parking brake.
- 9. For creep operation, boom must be centered over front of machine, slewing lock engaged, and load restrained from slewing. Travel slowly and keep the lifted load as close to the ground as possible, and especially avoid any abrupt steering, accelerating or braking.
- 10. Do not operate the crane while carrying the load.
- 11. Creep is motion for crane not to travel more than 200' (60 m) in any 30 minute period and to travel at the speed of less than 1 mph (1.6 km/h).
- 12. For creep operation, choose the drive mode and proper gear according to the road or working condition.

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

- 1. Set AML select keys in accordance with the actually operating crane conditions and don't fail to make sure, before crane operation, that the displays on front panel are correct.
- 2. When operating crane on outriggers:
 - . Set P.T.O. switch to "ON".
 - Press the outrigger state select key to register for the outrigger operation. If the display agrees with the actual state, press the set key to register. After the completion of the registation, the pop-up window closes.
 - Press the lift state select key to register the lift state to be used (single top/jib/boom).
 - Each time the lift state select key is pressed, the display changes. If the display agrees with the autual state, press the set key to register. After the completion of the registration, the pop-up window closes.
 - when erecting and stowing jib, select the status of jib set (Jib lift indicator symbol flickers).
- 3. When operating crane on-rubber:
 - Set P.T.O. switch to "ON".
 - Press the outrigger state select key to register for the on-rubber operation. Each time the outrigger state select key is pressed. the display changes. Select the creep operation, the on-rubber state indicative symbol flickers.
 - Press the lift state select key to register the lift state.

However, pay attention to the following.

- (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

- (2) For creep operation.
 - The creep capacities are attainable only when boom is in the straight forward position of chassis and the over front position symbol is on. If boom is not in the straight forward position of chassis, never lift load.
- 4. This machine is equipped with an automatic slewing stop device. (For the details, see Operation and Maintenance Manual.) But, operate very carefully because the automatic slewing stop does not work in the following case.
 - During on-rubber operation.
 - When the "P.T.O" switch is set to "OVERRIDE" and the "OVERRIDE" key switch outside the cab is on.
- 5. During crane operation, make sure that the displays on front panel are in accordance with actual operating conditions.
- The displayed values of LOAD MOMENT INDICATOR (AML-C) are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tire, operating speed, side loads, etc. For safe operation, it is recommended when extending and
- lowering boom or slewing, lifting loads shall be appropriately reduced.
- 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

MEMO	
TADANO LTD. (INTERNATIONAL DIVISION)	TADANO AMERICA CORPORATION
4-12, Kamezawa 2-chome, Sumida-ku,	4242 West Greens Road.

4-12, Kamezawa 2-chome, Sumida-ku, Tokyo 130-0014, JAPAN PHONE: 81-3-3621-7750

FAX: 81-3-3621-7785 http://www.tadano.com

4242 West Greens Road. Houston, Taxas, 77066 U.S.A. PHONE: (281) 869-0030 FAX: (281) 869-0040 http://www.tadanoamerica.com

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