

Specifications are subject to change without notice.

# **CRANE SPECIFICATIONS**

#### BOOM

Five section full power synchronized telescoping boom, 36.1'~141.1' (11.0m~43.0m), of round box construction with six sheaves, 17-5/16" (0.44m) 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 105' in 128 seconds.

**BOOM ELEVATION** - By a double acting hydraulic cylinder with holding valve. Elevation -1.6°~80.3°, 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"(0.396m) root diameter, at the head of both jib sections. Stored alongside base boom section. Jib length is 33.2' (10.1m) or 58.1' (17.7m). Assistant cylinders for mounting and stowing, controlled at right side of superstructure. Self stowing jib mounting pins.

### AUXILIARY LIFTING SHEAVE (SINGLE TOP)

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

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

#### **SWING**

Hydraulic axial piston motor through planetary swing speed reducer. Continuous 360° full circle swing on ball bearing turn table at 2.4min<sup>-1</sup>{rpm}. Equipped with manually locked/released swing brake. A 360° positive swing lock for pick and carry and travel modes, manually engaged in cab. Twin swing system: Free swing or lock swing controlled by selector switch on front console.

#### HOIST

MAIN HOIST - Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. Power load lowering and raising. Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of auxiliary hoist. Equipped with cable follower and drum rotation indicator.

DRUM - Grooved 15-3/4"(0.40m) root diameter x 23-9/16" (0.599m) wide. Wire rope: 771' of 3/4"diameter rope (235m of 19mm). Drum capacity: 1,074' (327.5m) 7 layers. Maximum single line pull: 1st layer 15,200 lbs (6,880kg). Maximum permissible line pull wire strength:15,600 lbs (7,085kg).

AUXILIARY HOIST - Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. Power load lowering and raising. Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of main hoist. Equipped with cable follower and drum rotation indicator.

**DRUM** - Grooved 15-3/4"(0.40m) root diameter x 23-9/16" (0.599m) wide. Wire rope: 436' of 3/4"diameter rope (133m of 19mm). Drum capacity: 1,074' (327.5m) 7 layers. Maximum single line pull: 1st layer 15,200 lbs (6,880kg). Maximum permissible line pull wire strength:15,600 lbs (7,085kg). WIRE ROPE - Warrington seal wire, extra improved plow steel, preformed, independent wire rope core, right regular lay. 3/4"(19 mm) 6X31 class

#### HOOK BLOCKS

75 ton (68.0 metric ton) - 7 sheaves with swivel hook and safety latch, for 3/4"(19mm) wire rope.(OPTIONAL) 6.2 ton (5.6 metric ton) - Weighted hook with swivel and safety latch, for 3/4"(19mm) wire rope.

#### **HYDRAULIC SYSTEM**

**PUMPS** - Two variable piston pumps for crane functions. Tandem gear pump for steering, swing and optional equipment. Powered by carrier engine. Pump disconnect for crane is engaged/ disengaged by rotary switch from operator's cab.

**CONTROL VALVES** - Multiple valves actuated by pilot pressure with integral pressure relief valves.

**RESERVOIR** - 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 swing, 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, swing brake switch, telescoping/auxiliary hoist select switch, outrigger controls, free swing / lock swing selector switch, eco mode switch, and ashtray.

Instruments - Torque converter oil temperature, engine water temperature, air pressure, fuel, speedometer, tachometer, hour meter and odometer / tripmeter. Hydraulic oil pressure is monitored and displayed on the AML-C display panel. Tadano electronic LOAD MOMENT INDICATOR system (AML-C) including:

- Control lever lockout function with audible and visual pre-warning
- Boom position indicator
- Outrigger state indicator
- Boom angle / boom length / jib offset angle / jib length / load radius / rated lifting capacities / actual loads read out
- Ratio of actual load moment to rated load moment indication
- Automatic Speed Reduction and Slow Stop function on boom elevation and swing
- · Working condition register switch
- Load radius / boom angle / tip height / swing range preset function
- External warning lamp
- Tare function
- Fuel consumption monitor
- · Main hoist / auxiliarly hoist select
- Drum rotation indicator (audible and visible type) main and auxiliary hoist

# **CARRIER SPECIFICATIONS**

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

FRAME - High tensile steel, all welded mono-box construction.

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

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

TRAVEL SPEED - 22 mph (36 km/h)

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

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

#### ENGINE

 Model
 N

 Type
 D

 No. of cylinders
 6

 Combustion
 4

 BoreXStroke, in.(mm)
 4

 Displacement, cu. in (liters)
 4

 Air inlet heater
 2

 Air cleaner
 Dil filter

 Fuel filter
 F

 Fuel filter
 F

 Fuel tank, gal.(liters)
 7

 Cooling
 L

Mitsubishi 6M60-TLA3B (Tier3) Direct injection diesel 6 4 cycle, turbo charged and after cooled 4.646 X 4.528 (118X115) 460 (7.54) 24 volt preheat Dry type, replaceable element Full flow with replaceable element Full flow with replaceable element 79.2 (300), right side of carrier Liquid pressurized, recirculating by-pass 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, boom emergency telescoping switch (2nd and 3rd•4th•top) and air conditioning control switch. Swing lock lever.

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

**SUSPENSION** - Front: Rigid mounted to frame. Rear: Pivot mounted with hydraulic lockout device.

**BRAKE SYSTEMS** - Service: Air over hydraulic disc brakes on all 4 wheels. Parking/Emergency: Spring applied-air released brake acting on input shaft of front axle. Auxiliary: Electro-pneumatic operated exhaust brake.

TIRES - 29.5-25 22PR(OR) Air pressure:60 psi (420 kPa) or 29.5-25 28PR(OR) Air pressure:64 psi (450 kPa)

**OUTRIGGERS** - Four hydraulic, beam and jack outriggers. Vertical jack cylinders equipped with integral holding valve. Each outrigger beam and jack is controlled independently from cab. Beams extend to 23' 11-3/8" (7.3 m) center-line and retract to within 10' 10-1/2" (3.315 m) overall width with floats. Outrigger jack floats are attached thus eliminating the need of manually attaching and detaching them. Controls and sight bubble located in superstructure cab. Four outrigger extension lengths are provided with corresponding "RATED LIFTING CAPACITIES" for crane duty in confined areas.

Min. Extension8' 10-1/4"(2.7m) center to centerMid. Extension18' 1/2"(5.5m) center to centerMid. Extension21' 11-3/4"(6.7m) center to centerMax. Extension23' 11-3/8"(7.3m) center to centerFloat size(Diameter)1' 11- 5/8" (0.6m)

	Fin and tube core, thermostat controlled
	Suction type, 6-blade, 23.6 (600) dia.
	24 volt
	24 volt system, negative ground
	2-120 amp. Hour
FM(I /min)	29 CFM (830) at 2,600rpm
N)	Gross 267 (200) at 2,600rpm
Nm)	579 (785) at 1,400rpm
)	
	3.4 (13)
	3.4-4.0 (13-15)
	79.2 (300)
	V) Nm)

## STANDARD EQUIPMENT

- Five section full power partially synchronized boom 36.1'~141.1' (11.0 m~43.0 m)
- 33.2' or 58.1' (10.1 m or 17.7 m) bi-fold lattice jib (tilt type) with  $3.5^\circ$ ,  $25^\circ$  or  $45^\circ$  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 771' of 3/4" cable.
- Variable speed auxiliary hoist with grooved drum, cable
- follower and 436' of 3/4" cable.
- Drum rotation indicator (audible, visible and thumper type) main and auxiliary hoist
- Auxiliary lifting sheave (single top) stowable
- 6.2 ton (5.6 metric ton) hook with swivel
- Tadano twin swing system and 360° positive swing lock
- Positive control
- Hvdraulic oil cooler
- 3 way adjustable cloth seat with armrests, high back and seat belt
- Tilt-telescoping steering wheel
- Tinted safety glass and sun visor
- Front windshield wiper and washer
- Roof window wiper and washer
- Power window (cab door)
- Cigarette lighter and ashtray
- Cab floor mat
- Pump disconnect in operator's cab
- 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

## **OPTIONAL EQUIPMENT**

- 75 ton (68.0 metric ton) - 7 sheave with swivel hook and safety latch for 3/4"(19mm) wire rope

Working lamp with remort controller

## HOISTING PERFORMANCE

#### LINE SPEEDS AND PULLS

	Main or a	uxiliary hoist	- 15-3/4" (0.	4m) drum
Layer	Line s	peeds <sup>1</sup>	Line Avail:	
	F.P.M	m/min	Lbs.	kgf
1st	358	109	15,200	6,880
2nd	387	118	13,900	6,310
3rd	417	127	12,800	5,820
4th	446	136	11,900	5,410
5th	475	144	11,100	5,050
6th	504	153	10,400	4,730
7th <sup>3</sup>	533	162	9,800	4,460

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

Line speeds based only on hook block, not loaded.

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

- 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 22PR (OR) tires or 29.5-25 28PR (OR) tires
- Disc brakes
- Water separator with filter(high filtration)
- Back-up alarm
- 24 volt electric system
- Tool storage compartment
- Tire inflation kit
- Mitsubishi 6M60-TLA3B turbo charged after cooled engine (267HP) with exhaust brake
- Èngine 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

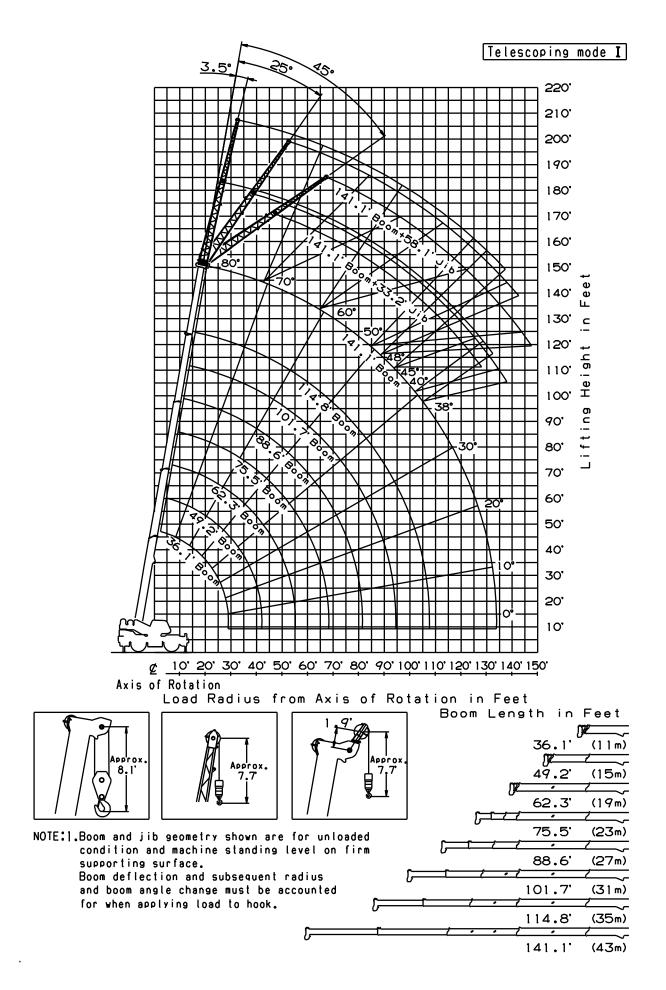
#### DRUM WIRE ROPE CAPACITIES

Wire	Main an		rum grooved	lagging
-		3/4" (19mn	n) wire rope	
rope	Rope p	er layer	Total w	ire rope
layer	Feet	Meters	Feet	Meters
1	123.3	37.6	123.3	37.6
2	133.5	40.7	256.8	78.3
3	143.3	43.7	400.2	122.0
4	153.5	46.8	553.8	168.8
5	163.3	49.8	717.1	218.6
6	173.8	53.0	891.0	271.6
7	183.3	55.9	1074.4	327.5

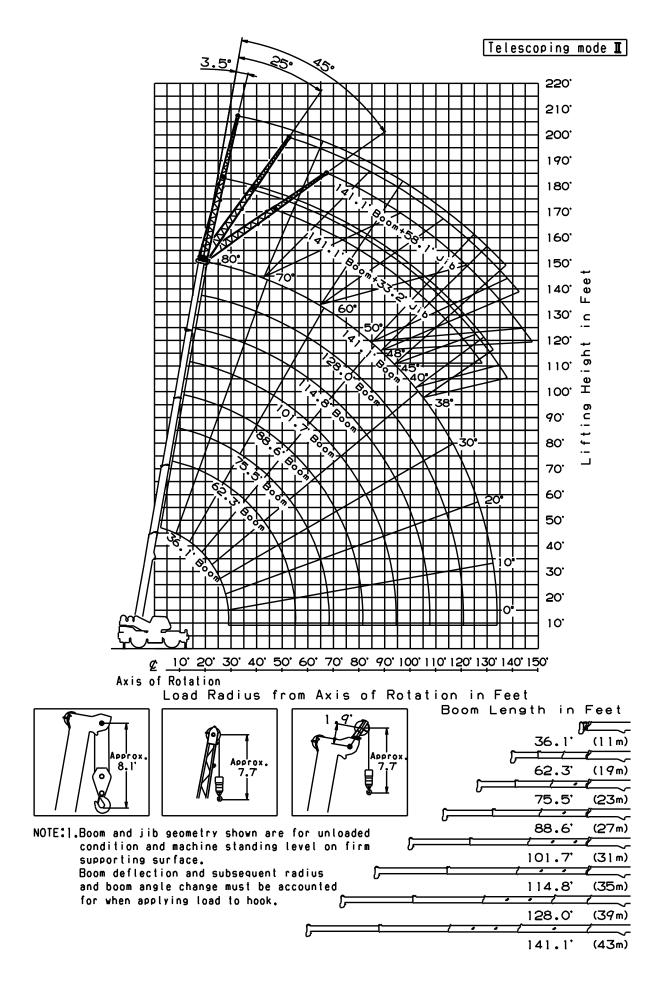
#### DRUM DIMENSIONS

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

# **GR-750XL WORKING RANGE CHART**



# **GR-750XL WORKING RANGE CHART**



	ON OUTRIGGERS FULLY EXTENDED 23' 11-3/8"(7.3m) SPREAD																											
													)° F	ROTAT														
A _		36.1'		49.2'		62.3'		)		75.5'		)		88.6'	_	)		101.7'				114.8		1) 1		28.0'		41.1'
в	С	(11m)	С	(15m)	С		С		С		С		С		С		С		С		С		С		С	(39m)	С	(43m)
8'	72	150,000	77	90,000																								
10'	68	132,300	75	90,000		70,500		44,100																				
12'		117,100	72	90,000	77			44,100	79	44,100	79	44,100																
15'	59	98,000	68	90,000	73		73	44,100	77	44,100	77	44,100		44,100		37,500												
20'	48	75,600	62	75,100	69	69,600	69	44,100	73	44,100	73	44,100	76	42,400		37,100		36,600		31,700								
25'	33	60,000	54	59,400	64			44,100	69	44,100		43,300		39,100		32,600					78		78	24,600	79	22,000		
30'			46	45,900		45,000	_		65	44,100	65	37,200	70	38,800			_	31,500		25,200		26,300		22,200		22,000	79	19,800
35'			36	33,900	52		52	38,300	60	34,600	60	32,400	66	34,700	_		_	30,600			73	25,600	73	20,100	75	20,300	77	18,500
40'			21	26,100	45	25,300	45	30,200	55	26,800	55	28,500	62	27,700	62	23,100	67	27,700	67	20,900	70	24,900	70	18,700	73	18,700	75	17,200
45'					38	19,900	38	24,600	50	21,300	50	24,800	58	22,200	58	20,900	63	22,800	63	18,800	68	22,700	67	17,400	70	17,700	74	16,900
50'					29	15,900	28	20,500	45	17,300	45	20,700	54	18,100	54	19,000	60	18,700	60	17,100	65	19,100	64	15,600	68	17,100	71	16,500
55'					13	11,100	11	14,000	38	14,200	38	17,500	49	15,000	49	17,400	56	15,500	56	15,500	62	16,000	62	14,000	66	15,600	69	16,100
60'									31	11,700	31	15,000	45	12,500	45	15,200	53	13,100	53	14,000	58	13,400	58	12,700	63	14,200	67	13,900
65'									22	9,700	22	13,000	40	10,500	40	13,200	49	11,000	49	12,800	55	11,400	55	11,600	60	12,500	65	11,900
70'													34	8,900	34	11,500	45	9,400	45	11,600	52	9,800	52	10,600	57	10,900	62	10,300
75'													26	7,500	26	10,100	40	8,000	40	10,300	48	8,400	48	9,700	54	9,500	59	8,800
80'													15	6,300	18	9,000	35	6,800	35	9,100	44	7,200	45	9,000	51	8,300	57	7,700
85'																	29	5,800	29	8,000	40	6,200	41	8,100	48	7,200	54	6,600
90'																	21	5,000	21	7,200	36	5,300	36	7,200	45	6,300	51	5,700
95'																					31	4,500	31	6,400	41	5,600	48	4,900
100'																					25	3,900	25	5,800	37	4,900	45	4,300
105'																					16	3,300	16	5,200	33	4,300	42	3,700
110'																									27	3,800	38	3,100
115'																									21	3,300	34	2,600
120'																									8	2,900	30	2,200
125'																											24	1,800
130'			L						L		L		L	L,	)		L		L				L		L		17	1,500
D											Т	elescor	oino		-	<b>(0</b> 6)												
Telescoping											10		Jing	, condi														
mode		I, II		I		I		II		I		П		I		II		I		П		I		II		II		I, II
2nd boom		0		50		100		0		100		0	L	100		0	L	100		0		100		0		50		100
3rd boom		0		0		0		33		16		50		33		66		50		83		66		100		100		100
4th boom		0		0		0		33		16		50		33		66		50		83		66		100		100		100
Top boom		0		0		0		33		16		50		33		66		50		83		66		100		100		100

	LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS FULLY EXTENDED																											
	23' 11-3/8"(7.3m) SPREAD 360° ROTATION																											
_ A		36.1'		49.2'	1	62.3'		62.3'		75.5'		75.5'		88.6'	-	38.6'	1	101.7'	1	01.7'	1	14.8'	1	14.8'	1	28.0'	1	41.1'
	в	(11m)	в	(15m)	в	(19m)	в	(19m)	в	(23m)	в	(23m)	в	(27m)	в	(27m)	в	(31m)	в	(31m)	в	(35m)	в	(35m)	в	(39m)	в	(43m)
0	28.9	26.000	42 0'	16.800	55 4'	10.800	55.4'	13,700	68.6'	7.900	68.6'	10,100	81.7	6.000	81.7	8,400	94 2'	4.400	94.5	6.600	<i></i>	3,100	<i></i>	4.600	<del></del>	2,900		1.100

П

I

Ш

Т

П

Ш

I, II

Т

A :Boom length in feet

I, II

c

Telescoping mode

B :Load radius in feet

C :Loaded boom angle (°)

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

Т

Т

NOTE: The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-C) is based on the standard

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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	36.1'	36.1' to 49.2'	49.2' t	o 62.3'	62.3' to 141.1'	Single top
(meters)	(11m)	(11m to 15m)	(15m t	o 19m)	(19m to 43m)	Jib
Telescoping mode	1, 11	I	I	Ш	I, II	I, II
Number of parts of line	14	8	6	4	4	1

I

П

# ON OUTRIGGERS FULLY EXTENDED 23' 11-3/8"(7.3m) SPREAD 360° ROTATION

						360
		141.1' (43	.0m) Boom	+ 33.2' (10.1	m) Jib	
с	3.5°	Tilt	25°	Tilt	45° -	Filt
	R	w	R	w	R	w
80	35.1'	9,300	48.6'	8,800	55.4'	7,500
79	38.7'	9,300	51.8'	8,500	58.4'	7,300
78	42.0'	9,300	54.8'	8,200	61.0'	7,100
77	45.3'	9,300	58.1'	8,000	64.3'	6,900
76	48.9'	9,300	61.0'	7,800	66.9'	6,700
75	52.5'	9,300	64.0'	7,500	69.9'	6,600
73	59.1'	9,100	69.9'	7,200	75.1'	6,300
70	67.9'	8,200	78.4'	6,700	83.3'	5,900
68	73.8'	7,800	84.0'	6,400	87.6'	5,700
65	83.7'	7,200	91.9'	6,000	95.1'	5,400
63	87.3'	6,700	96.8'	5,800	99.7'	5,200
60	94.5'	5,800	103.7'	5,200	106.3'	4,900
58	99.4'	5,100	107.9'	4,600	110.6'	4,300
55	106.3'	4,100	114.2'	3,800	116.1'	3,500
53	110.6'	3,600	118.1'	3,300	119.8'	3,100
50	116.8'	2,900	124.0'	2,700	125.0'	2,600
48	120.7'	2,500	127.6'	2,300	128.3'	2,200
45	126.6'	2,000	132.5'	1,900	133.2'	1,800
43	130.2'	1,700	135.8'	1,600		
40	135.5'	1,300	140.7'	1,200		
38	139.1'	1,100	143.7'	1.000		

		141.1' (43	.0m) Boom ·	+ 58.1' (17.7	m) Jib	
с	3.5°	Filt	25° 1	Tilt	45° 1	Filt
	R	w	R	W	R	w
80	43.0'	5,700	65.6'	5,200	76.8'	3,900
79	47.2'	5,700	69.2'	5,000	80.1'	3,800
78	51.2'	5,700	72.5'	4,900	83.3'	3,700
77	55.1'	5,700	75.8'	4,700	86.0'	3,700
76	58.7'	5,700	79.1'	4,600	89.2'	3,600
75	62.7'	5,700	82.3'	4,400	92.2'	3,500
73	70.2'	5,700	88.9'	4,100	97.8'	3,400
70	81.4'	5,600	98.8'	3,800	106.0'	3,200
68	87.9'	5,300	105.0'	3,600	111.2'	3,000
65	97.1'	4,700	113.2'	3,300	118.8'	2,900
63	103.0'	4,400	118.8'	3,200	123.7'	2,800
60	111.9'	3,900	127.0'	3,000	130.9'	2,600
58	116.8'	3,500	131.9'	2,800	135.2'	2,600
55	124.3'	2,800	138.5'	2,300	141.1'	2,100
53	129.3'	2,300	142.7'	1,900	144.7'	1,700
50	136.2'	1,800	148.6'	1,400	149.9'	1,300
48	140.7'	1,400	152.6'	1,200	153.2'	1,100
45	147.3	1 000				

## ON OUTRIGGERS FULLY EXTENDED 23' 11-3/8"(7.3m) SPREAD

	128.0'(3	9.0m) Boom	(telescoping	mode II) + 3	33.2' (10.1m	) Jib
С	3.5°	Tilt	25°	Tilt	45° 1	Filt
	R	w	R	w	R	w
80	30.8'	10,100	44.0'	9,500	51.5'	7,700
79	34.1'	10,100	46.9'	9,200	54.1'	7,500
78	37.4'	10,100	49.5'	8,900	56.8'	7,300
77	40.4'	10.100	52.5'	8.600	59.4'	7.200
76	43.3'	10,100	55.1'	8,400	61.7'	7,000
75	46.6'	10,100	58.1'	8,200	64.0'	6,800
73	52.5'	10,000	63.3'	7,700	68.9'	6,500
70	60.7'	9,100	70.9'	7,100	76.4'	6,100
68	65.9'	8,600	76.1'	6,800	80.7'	5,800
65	73.8'	7,900	83.3'	6,300	87.3'	5,500
63	78.7'	7,600	87.9'	6,000	91.5'	5,300
60	86.3'	6,700	94.5'	5,600	97.8'	5,000
58	90.6'	6,200	99.1'	5,400	101.7'	4,900
55	97.1'	5,500	105.3'	4,900	107.6'	4,700
53	101.4'	5,100	108.9'	4,700	110.9'	4,50
50	107.6'	4,700	114.8'	4,300	116.1'	4,10
48	111.5'	4,300	118.1'	3,900	119.1'	3,80
45	116.8'	3,700	123.0'	3,400	123.4'	3,300
43	120.4'	3,300	126.0'	3,100		
40	125.0'	2.900	130.2'	2,700		
38	128.3'	2,600	132.9'	2,400		
35	132.5'	2,300	136.5'	2,100		
33	135.5'	2,100	138.8'	1,900		
30	139.1'	1,800	142.1'	1,700		
25	144.4'	1,500	146.3'	1,400		
20	148.6'	1,200				
15	151.6'	1.000				

	128.0'(3	9.0m) Boom	(telescoping	mode II) + 5	58.1' (17.7m	ı) Jib
с	3.5°	Tilt	25° 1	Filt	45° 1	Tilt
	R	w	R	w	R	W
80	38.7'	6,200	60.7'	5,500	72.5'	4,10
79	42.7'	6,200	64.0'	5,300	75.1'	3,90
78	45.9'	6,200	67.3'	5,100	78.1'	3,90
77	49.9'	6.200	70.2'	4.900	80.7'	3.80
76	53.5'	6,200	73.5'	4,800	83.3'	3,70
75	56.8'	6,200	76.1'	4,600	86.0'	3,60
73	64.3'	6,200	82.3'	4,300	91.2'	3,40
70	74.1'	6,000	91.2'	3,900	98.8'	3,20
68	80.1'	5,500	96.5'	3,700	103.7'	3,10
65	88.6'	4,900	104.7'	3,400	110.6'	2,90
63	94.2'	4,600	109.6'	3,300	115.8'	2,80
60	102.7'	4,100	117.1'	3,000	122.7'	2,70
58	107.6'	3,900	122.4'	2,900	127.3'	2,60
55	115.5'	3,500	129.3'	2,800	133.5'	2,50
53	120.4'	3,400	133.9'	2,600	137.5'	2,40
50	127.3'	3,100	140.4'	2,500	143.0'	2,40
48	131.6'	2,800	144.4'	2,400	146.3'	2,30
45	137.5'	2,400	149.3'	2,000	149.9'	1,90
43	141.4'	2,100	152.6'	1,800		
40	147.0'	1.700	156.8'	1.500		
38	150.3'	1,500	159.4'	1,300		
35	155.2'	1,200	162.7'	1,100		
33	158.1'	1.100	165.0'	900		

(telescoping mode I) + 58.1' (17.7m) Jib

6,200

5.600

5,600 5,600

5.500

5,400

5,000 4,700

4,500

4,200

4,000 3,800

3,600

3,400

3,400

3,100

2,700

2.300

2,000

1,700

1,500

1,200

w

45° Tilt

w

4,500

4.200

4.200

4,200

4.20

4,100

4,000

3,800

3,600

3,500

3,400 3,300

3,200

3,100

3,100

2,800

2,500

2.100

R

68.9'

71.2

73.8

76.8'

79.1' 81.7'

86.3'

93.2

97.8

104.0

108.3' 114.2'

117.8

123.0'

126.3

130.9'

133.5'

137.5'

25° Tilt

56.8

59.4

62.7

65.6'

68.6

71.2

76.8

84.6'

89.9

97.8 102.0 108.9 113.5

119.8

123.7

129.3

132.5

137.5

140.4'

144.7

147.0

150.6' 152.9'

			ONC	JUTRIG	GERS F		ROTA1		1-3/8"(7.3	III) SPRE	EAD
	114.8	'(35m) Boon	n(telescopin	g mode I) +	33.2' (10.1m	ı) Jib			114.8	(35m)Boom	(telesco
с	3.5°	Tilt	25°	Tilt	45°	Tilt		С	3.5°	Tilt	2
Ī	R	w	R	w	R	w			R	w	R
80	28.2'	12,300	40.4'	11,300	47.6'	8,700		80	35.1'	7,100	56
79	30.8'	12.300	42.7'	10.400	49.5'	8.300		79	38.4'	7.100	59
78	33.8'	12,300	45.6'	10,400	52.2'	8,300		78	41.7'	7,100	62
77	36.7'	12,300	48.2'	10,400	54.8'	8,200		77	44.9'	7,100	65
76	39.7'	12,300	50.5'	10,100	56.8'	8,000		76	48.2'	7,100	68
75	42.3'	12,300	53.1'	9,900	59.1'	7,800		75	51.2'	7,100	71
73	47.6'	12,300	58.1'	9,300	63.6'	7,600		73	57.7'	7,100	76
70	55.1'	11,400	65.0'	8,600	70.2'	7,200		70	67.3'	7,100	84
68	60.0'	10,800	69.6'	8,200	74.1'	6,900		68	72.8'	6,800	89
65	67.3'	10,100	76.1'	7,700	80.4'	6,600		65	81.0'	6,100	97
63	71.9'	9,600	80.4'	7,300	84.3'	6,400		63	86.0'	5,700	102
60	78.4'	9,000	86.6'	6,900	89.9'	6,200		60	93.5'	5,200	108
58	82.3'	8,300	90.6'	6,700	93.5'	6,000		58	98.4'	4,900	113
55	88.3'	7,000	95.8'	6,200	98.8'	5,800		55	106.0'	4,500	119
53	92.2'	6,300	99.4'	5,600	101.7'	5,300		53	110.2'	4,300	123
50	97.4'	5,300	104.7'	4,800	106.3'	4,600		50	116.5'	3,600	129
48	101.0'	4,800	107.6'	4,300	108.9'	4,200		48	120.4'	3,200	132
45	106.0'	4.100	112.2'	3.700	113.2'	3.600		45	126.3'	2.700	137
43	109.3'	3,700	114.8'	3,400				43	129.9'	2,300	140
40	113.8'	3,200	119.1'	3,000				40	135.2'	1,900	144
38	116.8'	2,900	121.4'	2,700				38	138.5'	1,700	147
35	121.1'	2,500	125.0'	2,300				35	142.7'	1,400	150
33	123.4'	2,300	127.0'	2,100				33	145.7'	1,200	152
30	127.0'	2,000	129.9'	1,900				30	149.6'	1,000	
25	132.2'	1.600	133.9'	1.500							

 $\begin{array}{l} \textbf{C}: \text{Loaded boom angle (}^{\circ}\text{)} \\ \textbf{R}: \text{Load radius in feet} \\ \textbf{W}: \text{Rated lifting capacity in pounds} \end{array}$ 

136.2'

139.1'

20

15

1,300

							(	ON OU	TR	IGGEF	RS N	/ID E>	(TE	NDED	21'	11-3/4	1"(6	.7m) S	PRI	EAD								
			-										)° F	OTAT														
A _		36.1'		49.2'		62.3'		)		75.5'		)		88.6'	_	)		101.7'		1)		114.8'	<u>`</u>	1)		128.0'		41.1'
В	С	(11m)	С	(15m)	С		С		С		С		С		С		С		С		С		С		С	(39m)	С	(43m)
8'	72	150,000	77	90,000																								
10'	68	130,000	75	90,000		70,500	78	44,100																				
12'	64	113,600	72	90,000	77	70,500	76	44,100	79	44,100	79	44,100																
15'	58	94,800	68	90,000		70,500	73	44,100	77	44,100		44,100		44,100		37,500												
20'	48	72,700	62	72,200	69	69,600	69	44,100	73	44,100	73	44,100	76	42,400	76	37,100	78	36,600	78	31,700								
25'	33	54,300	55	52,700	64	51,700	63	44,100	69	44,100	69	43,300		39,100	73	32,600	76	32,400	76	28,100		28,500		24,600		22,000		
30'			47	36,200	58	35,300	58	40,900	65	37,100	65	37,200	70	38,100	69	29,500	73	30,600	73	25,200		26,300		22,200	77	22,000		19,800
35'			36	26,500	52	25,700	52	30,800	60	27,300	60	31,300	66	28,200	66	25,900	70	28,900	70	23,500		24,600		20,100		20,300	_	18,500
40'			22	20,100	45	19,500	45	24,300	55	20,900	55	24,800	62	21,800	_	23,100	67	22,500	66	20,900		23,000		18,700	73	18,700		17,200
45'					38	15,000	37	19,600	50	16,400	50	20,100	58	17,300	58	20,400	63	17,900	63	18,800	67	18,300	67	17,400	71	17,500	73	16,400
50'					28	11,700	27	16,100	45	13,100	45	16,600	54	13,900	54	16,900	60	14,500	60	17,100	64	14,900	64	15,600	68	16,300	71	15,500
55'					11	9,100	10	13,400	38	10,500	38	14,000	49	11,400	49	14,300	56	11,900	56	14,400	61	12,300	62	14,000	65	13,600	69	12,900
60'									31	8,400	31	11,800	45	9,300	45	12,100	52	9,800	53	12,300	58	10,200	58	12,400	63	11,500	66	10,800
65'									21	6,700	21	10,100	39	7,600	39	10,400	49	8,100	49	10,600	55	8,500	55	10,700	60	9,800	64	9,000
70'													34	6,200	34	8,900	45	6,700	45	9,100	52	7,100	52	9,200	57	8,400	62	7,600
75'													26	5,000	26	7,700	40	5,600	40	7,900	48	5,900	48	8,000	54	7,200	59	6,400
80'													15	4,000	15	6,700	35	4,500	35	6,900	44	4,900	44	7,000	51	6,200	56	5,400
85'																	29	3,700	29	6,000	40	4,100	40	6,100	48	5,300	53	4,500
90'																	21	2,900	21	5,200	36	3,300	36	5,300	44	4,500	50	3,800
95'																					31	2,600	30	4,600	40	3,800	47	3,100
100'																					24	2,000	24	4,000	36	3,200	44	2,500
105'																					15	1,500	15	3,500	32	2,700	41	2,000
110'																									27	2,200	38	1,500
115'																									20	1,800		
120'																									8	1,500		
D														0														33
	1										Te	elescop	ping	condit	ions	<b>s (%</b> )	1											
Telescoping mode		1, 11		I		I		н		I		П		I		П		I.		П		I		П		Ш		I, II
2nd boom		0		50		100		0		100		0		100		0		100		0		100		0		50		100
3rd boom		0		0		0		33		16		50		33		66		50		83		66		100		100		100
4th boom		0		0		0		33		16		50		33		66		50		83		66		100		100		100
Top boom		0		0		0		33		16		50		33		66		50		83		66		100		100		100

### LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MID EXTENDED

									21	' 11-3/	4"(6	.7m) \$	SPR	EAD	3	60° R	ОТА	ATION									
A		36.1'		49.2'	-	62.3'		62.3'		75.5'		75.5'		88.6'		88.6'	1	101.7'	1	01.7'	1	14.8'	1	14.8'	1	28.0'	
c	в	(11m)	в	(15m)	в	(19m)	в	(19m)	в	(23m)	в	(23m)	В	(27m)	в	(27m)	в	(31m)	в	(31m)	в	(35m)	в	(35m)	в	(39m)	
0	28.9'	26,000	42.3'	16,100	55.4'	9,000	55.1'	13,200	68.6'	5,700	68.6'	9,000	81.7'	3,700	81.7'	6,400	94.5'	2,400	94.2'	4,600	####	1,300	#####	3,100	####	1,500	
Telescoping mode		1, 11		I		I		=		I		П		I		П		I		Ш		I		П		Ш	

A :Boom length in feet

B :Load radius in feet

 $\boldsymbol{C}$  :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.

Boom length in feet	36.1'	36.1' to 49.2'	49.2' t	o 62.3'	62.3' to 141.1'	Single top
(meters)	(11m)	(11m to 15m)	(15m t	o 19m)	(19m to 43m)	Jib
Telescoping mode	I, II	I	I	Ш	I, II	I, II
Number of parts of line	14	8	6	4	4	1

### ON OUTRIGGERS MID EXTENDED 21' 11-3/4"(6.7m) SPREAD

360° ROTATION

						360°
		141.1' (43	.0m) Boom ·	+ 33.2' (10.1r	n) Jib	
С	3.5°	Гilt	25° 1	Гilt	45° T	ïlt
	R	w	R	W	R	w
80	35.1'	9,300	48.6'	8,800	55.4'	7,500
79	38.7'	9,300	51.8'	8,500	58.4'	7,300
78	42.0'	9,300	54.8'	8,200	61.0'	7,100
77	45.3'	9,300	58.1'	8,000	64.3'	6,900
76	48.9'	9,300	61.0'	7,800	66.9'	6,700
75	52.5'	9,300	64.0'	7,500	69.9'	6,600
73	59.1'	9,100	69.9'	7,200	75.1'	6,300
70	67.9'	8,200	78.4'	6,700	83.3'	5,900
68	73.8'	7,800	84.0'	6,400	87.6'	5,700
65	81.4'	6,100	90.9'	5,200	94.5'	4,800
63	86.0'	5,200	95.5'	4,500	98.8'	4,100
60	93.2'	4,000	102.0'	3,500	105.0'	3,200
58	97.8'	3,300	106.3'	2,900	108.9'	2,700
55	104.7'	2,500	112.5'	2,200	114.8'	2,000
53	108.9'	2,000	116.8'	1,800	118.4'	1,600
50	115.2'	1,400	122.7'	1,200	123.7'	1,100
48	119.4'	1,100	126.3'	900	127.3'	900

<u> </u>	ION						
			141.1' (4	43.0m) Boon	n + 58.1' (17	.7m) Jib	
	С	3.5°	Tilt	25°	Tilt	45°	Tilt
		R	w	R	w	R	W
	80	43.0'	5,700	65.6'	5,200	76.8'	3,900
	79	47.2'	5,700	69.2'	5,000	80.1'	3,800
	78	51.2'	5,700	72.5'	4,900	83.3'	3,700
	77	55.1'	5,700	75.8'	4,700	86.0'	3,700
	76	58.7'	5,700	79.1'	4,600	89.2'	3,600
	75	62.7'	5,700	82.3'	4,400	92.2'	3,500
	73	70.2'	5,700	88.9'	4,100	97.8'	3,400
	70	81.4'	5,600	98.8'	3,800	106.0'	3,200
	68	87.9'	5,300	105.0'	3,600	111.2'	3,000
	65	96.1'	4,100	112.5'	3,200	118.4'	2,800
	63	101.4'	3,400	117.8'	2,600	123.0'	2,300
	60	109.3'	2,500	125.0'	1,900	129.3'	1,700
	58	113.2'	2,000	129.3'	1,500	133.5'	1,300
	55	122.0'	1,300	136.2'	1,000	139.4'	900
	53	126.6'	900				

## ON OUTRIGGERS MID EXTENDED 21' 11-3/4"(6.7m) SPREAD

360° ROTATION

						000
	128.0'(	39.0m) Boo	m(telescopii	ng mode II) +	+ 33.2' (10.1ı	n) Jib
С	3.5°	Tilt	25°	Tilt	45°	Tilt
	R	w	R	w	R	w
80	30.8'	10,100	44.0'	9,500	51.5'	7,700
79	34.1'	10,100	46.9'	9,200	54.1'	7,500
78	37.4'	10,100	49.5'	8,900	56.8'	7,300
77	40.4'	10,100	52.5'	8,600	59.4'	7,200
76	43.3'	10,100	55.1'	8,400	61.7'	7,000
75	46.6'	10,100	58.1'	8,200	64.0'	6,800
73	52.5'	10,000	63.3'	7,700	68.9'	6,500
70	60.7'	9,100	70.9'	7,100	76.4'	6,100
68	65.9'	8,600	76.1'	6,800	80.7'	5,800
65	73.8'	7,900	83.3'	6,300	87.3'	5,500
63	79.1'	7,400	87.9'	6,000	91.5'	5,300
60	85.6'	6,000	94.5'	5,200	97.8'	4,900
58	89.9'	5,200	98.4'	4,600	101.4'	4,300
55	96.5'	4,300	104.3'	3,800	107.0'	3,600
53	100.4'	3,700	107.9'	3,300	110.6'	3,200
50	106.3'	3,000	113.5'	2,700	115.5'	2,600
48	110.2'	2,600	116.8'	2,400	118.4'	2,300
45	115.5'	2,100	121.7'	1,900	123.0'	1,800
43	119.1'	1,800	125.0'	1,700		
40	124.3'	1,400	129.6'	1,300		
38	127.3'	1,200	132.2'	1,100		
35	131.9'	900	136.2'	900		

<u>٦</u>	IUN						
		128.0'(	39.0m) Boor	n(telescopii	ng mode II) -	⊦ 58.1' (17.7r	n) Jib
	С	3.5°	Tilt	25°	Tilt	45°	Tilt
		R	w	R	w	R	w
	80	38.7'	6,200	60.7'	5,500	72.5'	4,100
	79	42.7'	6,200	64.0'	5,300	75.1'	3,900
	78	45.9'	6,200	67.3'	5,100	78.1'	3,900
	77	49.9'	6,200	70.2'	4,900	80.7'	3,800
	76	53.5'	6,200	73.5'	4,800	83.3'	3,700
	75	56.8'	6,200	76.1'	4,600	86.0'	3,600
	73	64.3'	6,200	82.3'	4,300	91.2'	3,400
	70	74.1'	6,000	91.2'	3,900	98.8'	3,200
	68	80.1'	5,500	96.5'	3,700	103.7'	3,100
	65	88.6'	4,900	104.7'	3,400	110.6'	2,900
	63	94.2'	4,600	109.6'	3,300	115.8'	2,800
	60	102.7'	4,100	117.1'	3,000	122.7'	2,700
	58	107.3'	3,500	122.4'	2,800	127.3'	2,500
	55	114.2'	2,800	128.6'	2,200	132.9'	2,000
	53	119.1'	2,300	132.5'	1,900	136.2'	1,700
	50	125.7'	1,800	138.5'	1,400	141.1'	1,300
	48	129.9'	1,500	142.1'	1,200	143.7'	1,100
	45	136.2'	1,000	147.3'	900		
	43	140.1'	900				

						360
	114.8'(	(35m) Boom	(telescoping	g mode I) + 33	3.2' (10.1m)	Jib
С	3.5°	Tilt	25°	Tilt	45° 1	Filt
	R	w	R	w	R	w
80	28.2'	12,300	40.4'	11,300	47.6'	8,700
79	30.8'	12,300	42.7'	10,400	49.5'	8,300
78	33.8'	12,300	45.6'	10,400	52.2'	8,300
77	36.7'	12,300	48.2'	10,400	54.8'	8,200
76	39.7'	12,300	50.5'	10,100	56.8'	8,000
75	42.3'	12,300	53.1'	9,900	59.1'	7,800
73	47.6'	12,300	58.1'	9,300	63.6'	7,600
70	55.1'	11,400	65.0'	8,600	70.2'	7,200
68	60.0'	10,800	69.6'	8,200	74.1'	6,900
65	66.9'	9,800	76.1'	7,700	80.4'	6,600
63	71.2'	8,500	80.4'	7,100	84.3'	6,400
60	77.4'	6,800	86.0'	5,900	89.6'	5,400
58	81.4'	6,000	89.6'	5,200	92.8'	4,800
55	87.3'	4,900	95.1'	4,200	98.1'	4,000
53	90.9'	4,200	98.8'	3,700	101.0'	3,500
50	96.5'	3,400	103.7'	3,000	105.6'	2,900
48	100.1'	3,000	107.0'	2,600	108.3'	2,500
45	105.3'	2,400	111.5'	2,100	112.5'	2,00
43	108.6'	2,000	114.2'	1,800		
40	113.2'	1,600	118.4'	1,400		
38	116.1'	1,300	121.1'	1,200		
35	120.4'	1,000	124.3'	1,000		

## ON OUTRIGGERS MID EXTENDED 21' 11-3/4"(6.7m) SPREAD

ROTATION

41	ION						
		114.8	8'(35m)Boon	n(telescopin	g mode I) +	58.1' (17.7m	) Jib
	С	3.5°	Tilt	25°	Tilt	45°	Tilt
		R	w	R	w	R	w
	80	35.1'	7,100	56.8'	6,200	68.9'	4,500
	79	38.4'	7,100	59.4'	5,600	71.2'	4,200
	78	41.7'	7,100	62.7'	5,600	73.8'	4,200
	77	44.9'	7,100	65.6'	5,600	76.8'	4,200
	76	48.2'	7,100	68.6'	5,500	79.1'	4,200
	75	51.2'	7,100	71.2'	5,400	81.7'	4,100
	73	57.7'	7,100	76.8'	5,000	86.3'	4,000
	70	67.3'	7,100	84.6'	4,700	93.2'	3,800
	68	72.8'	6,800	89.9'	4,500	97.8'	3,600
	65	81.0'	6,100	97.8'	4,200	104.0'	3,500
	63	86.0'	5,700	102.0'	4,000	108.3'	3,400
	60	93.2'	4,700	108.9'	3,700	114.2'	3,300
	58	97.8'	4,000	112.9'	3,200	117.5'	2,800
	55	104.3'	3,200	119.1'	2,500	122.7'	2,300
	53	108.6'	2,700	122.7'	2,200	126.0'	1,900
	50	114.8'	2,100	128.3'	1,700	130.2'	1,500
	48	119.1'	1,700	131.6'	1,400	133.5'	1,200
	45	125.0'	1,200	136.5'	1,000	137.5'	900
	43	128.6'	900				

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

Г

R :Load radius in feetW :Rated lifting capacity in pounds

								ON O	UT	RIGGE	ERS	MIDE	EXT	ENDE	D 18	8' 1/2"(	(5.5	m) SP	RE/	٩D								
													)° R	OTAT														
A		36.1'		49.2'		62.3'		)		75.5'	(23m	)		88.6'	(27m)	)		101.7'	(31m	)		114.8	(35m	1)	1	28.0'	1	41.1'
в	С	(11m)	С	(15m)	С		С		С		С		С		С		С		С		С		С		С	(39m)	С	(43m)
8'	72	150,000	77	90,000																								
10'	68	121,200	75	90,000	79	70,500	78	44,100																				
12'	64	105,100	72	90,000				44,100		44,100	79	44,100																
15'	58	87,000	68	86,500	73	70,500	73	44,100	77	44,100	77	44,100	79	44,100	79	37,500												
20'	48	61,000	62	60,000	69	59,200	69	44,100	73	44,100	73	44,100	76	42,400	76	37,100		36,600	78	31,700								
25'	33	38,700	54	37,800	64	37,300	63	42,900	69	39,100	69	43,300	73	39,100	73	32,600	76	32,400	76	28,100	78	28,500	78	24,600	79	22,000		
30'			46	26,200	58	25,700	58	30,800	65	27,500	65	31,500	69	28,500	69	29,500	73	29,200	73	25,200	75	26,300	75	22,200	77	22,000	79	19,800
35'			35	19,000	52	18,500	52	23,300	60	20,200	60	24,000	66	21,200	66	24,400	70	21,900	70	23,500	73	22,300	73	20,100	75	20,300	77	18,500
40'			21	14,200	45	13,700	45	18,200	55	15,300	55	18,900	62	16,300	62	19,300	66	17,000	66	19,600	70	17,400	70	18,700	73	18,700	75	17,200
45'					38	10,200	38	14,600	50	11,700	50	15,200	58	12,700	58	15,600	63	13,300	63	15,900	67	13,800	67	16,100	70	15,200	73	14,200
50'					29	7,600	28	11,800	45	9,100	45	12,400	54	10,000	54	12,800	60	10,600	60	13,100	64	11,100	64	13,300	68	12,400	71	11,700
55'					12	5,600	11	9,700	38	7,000	38	10,300	49	7,800	49	10,600	56	8,500	56	10,900	61	9,000	61	11,100	65	10,300	68	9,600
60'									31	5,300	31	8,600	45	6,200	44	8,900	52	6,800	52	9,200	58	7,200	58	9,300	62	8,500	66	7,800
65'									22	3,900	21	7,200	39	4,800	39	7,500	48	5,400	48	7,700	55	5,800	55	7,900	60	7,100	63	6,400
70'													34	3,600	34	6,300	45	4,200	45	6,500	52	4,700	52	6,700	57	5,900	61	5,200
75'													26	2,700	25	5,300	39	3,200	39	5,500	48	3,700	48	5,700	54	4,900	58	4,200
80'													15	1,900	15	4,500	34	2,400	34	4,700	44	2,800	44	4,800	50	4,000	56	3,400
85'																	28	1,700	29	3,900	40	2,100	40	4,100	47	3,300	53	2,600
90'																			21	3,300	36	1,500	36	3,400	44	2,600	50	2,000
95'																							30	2,900	40	2,100	47	1,400
100'																							24	2,400	36	1,600		
105'																							15	2,000				
D								C	)							(0())		21		0		24		0		32		45
											16	elescop	oing	condit	ions	s(%)												
Telescoping mode		I, II		I		1		П		I		П		I		П		Ι		П		I		П		II		I, II
2nd boom		0		50		100		0		100		0		100		0		100		0		100		0		50		100
3rd boom		0		0		0		33		16		50		33		66		50		83		66		100		100		100
4th boom		0		0		0		33		16		50		33		66		50		83		66		100		100		100
Top boom		0		0		0		33		16		50		33		66		50		83		66		100		100		100

				LIF	TIN	G CAF	PAC	ITIES	AT	ZERO	DE	GREE	BC	OM A	NGI	E ON	OUTRIG	GEF	RS MIE	) EXTEND	ED		
									1	8' 1/2"	(5.5	im) SF	PRE	EAD	36	0° RO	TATION						
A		36.1'		49.2'		62.3'		62.3'		75.5'		75.5'		88.6'		88.6'		1	01.7'		1	14.8'	
c	в	(11m)	в	(15m)	в	(19m)	в	(19m)	В	(23m)	в	(23m)	В	(27m)	В	(27m)		в	(31m)		В	(35m)	
0	28.9'	25,800	42.3	12,600	55.4'	5,500	55.4'	9,700	71.9'	3,100	68.6'	6,400	81.7'	1,800	81.7'	4,200		94.5'	2,900		####	1,300	
Telescoping mode		I, II		I		I.		П		I		П		I.		П			Ш			П	

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.

Boom length in feet	36.1'	36.1' to 49.2'	49.2' t	o 62.3'	62.3' to 141.1'	Single top
(meters)	(11m)	(11m to 15m)	(15m t	o 19m)	(19m to 43m)	Jib
Telescoping mode	1, 11	I	I	=	I, II	I, II
Number of parts of line	14	8	6	4	4	1

r											
			ON O	UTRIG	GERS	MID EX	TEND	ED 18'	1/2"(5.5	m) SPF	READ
						360°	ROTA	TION			
		141.1' (43	.0m) Boon	n + 33.2' (1	0.1m) Jib					141.1' (43	.0m) Boor
С	3.5°	Tilt	25°	Tilt	45°	Tilt		С	3.5°	Tilt	25°
	R	w	R	w	R	w			R	w	R
80	35.1'	9,300	48.6'	8,800	55.4'	7,500		80	43.0'	5,700	65.6'
79	38.7'	9,300	51.8'	8,500	58.4'	7,300		79	47.2'	5,700	69.2'
78	42.0'	9,300	54.8'	8,200	61.0'	7,100		78	51.2'	5,700	72.5'
77	45.3'	9,300	58.1'	8,000	64.3'	6,900		77	55.1'	5,700	75.8'
76	48.9'	9,300	61.0'	7,800	66.9'	6,700		76	58.7'	5,700	79.1'
75	52.5'	9,300	64.0'	7,500	69.9'	6,600		75	62.7'	5,700	82.3'
73	58.4'	8,300	69.6'	6,900	74.8'	6,200		73	69.9'	5,400	88.9'
70	66.3'	6,200	76.8'	5,300	81.7'	4,800		70	78.7'	3,900	96.8'
68	71.5'	5,100	81.7'	4,400	86.3'	4,100		68	84.3'	3,100	102.0'
65	79.1'	3,800	90.9'	3,300	92.8'	3,000		65	92.5'	2,100	109.6'
63	84.0'	3,000	93.5'	2,700	97.1'	2,400		63	98.1'	1,500	114.8'
60	91.5'	2,100	100.4'	1,900	103.7'	1,700		60	107.0'	1,100	
58	96.1'	1,600	105.0'	1,400	107.6'	1,300					
55	103.0'	900									

ROTA	TION						
			141.1' (43	.0m) Boon	n + 58.1' (1	7.7m) Jib	
	С	3.5°	Tilt	25°	Tilt	45°	Tilt
		R	w	R	w	R	w
	80	43.0'	5,700	65.6'	5,200	76.8'	3,900
	79	47.2'	5,700	69.2'	5,000	80.1'	3,800
	78	51.2'	5,700	72.5'	4,900	83.3'	3,700
	77	55.1'	5,700	75.8'	4,700	86.0'	3,700
	76	58.7'	5,700	79.1'	4,600	89.2'	3,600
	75	62.7'	5,700	82.3'	4,400	92.2'	3,500
	73	69.9'	5,400	88.9'	4,100	97.8'	3,400
	70	78.7'	3,900	96.8'	3,000	105.3'	2,700
	68	84.3'	3,100	102.0'	2,400	109.6'	2,200
	65	92.5'	2,100	109.6'	1,600	116.5'	1,500
	63	98.1'	1,500	114.8'	1,100	121.4'	1,100
	60	107.0'	1,100				

## ON OUTRIGGERS MID EXTENDED 18' 1/2"(5.5m) SPREAD

						300
	128.0'(39.	0m) Boom	(telescopi	ng mode II	) + 33.2' (*	10.1m) Jib
С	3.5°	Tilt	25°	Tilt	45°	Tilt
	R	w	R	w	R	w
80	30.8'	10,100	44.0'	9,500	51.5'	7,700
79	34.1'	10,100	46.9'	9,200	54.1'	7,500
78	37.4'	10,100	49.5'	8,900	56.8'	7,300
77	40.4'	10,100	52.5'	8,600	59.4'	7,200
76	43.3'	10,100	55.1'	8,400	61.7'	7,000
75	46.6'	10,100	58.1'	8,200	64.0'	6,800
73	52.5'	10,000	63.3'	7,700	68.9'	6.500
70	60.7'	9,100	70.9'	7,100	76.4'	6,100
68	65.6'	7,700	75.8'	6,400	80.7'	5,800
65	72.5'	6,000	82.3'	5,100	86.6'	4,700
63	77.1'	5,100	86.6'	4,400	90.6'	4,000
60	84.0'	4,000	92.8'	3,400	96.5'	3,200
58	88.3'	3,300	96.8'	2,900	100.4'	2,700
55	94.8'	2,500	102.7'	2,200	106.0'	2,100
53	98.8'	2,100	106.6'	1,800	109.3'	1,700
50	105.0'	1,500	112.2'	1,300	114.2'	1,200
48	108.9'	1,200	115.8'	1,000	117.5'	900

360°	ROTA	TION	·					
.1m) Jib			128.0'(39.	0m) Boom	(telescopii	ng mode II	) + 58.1' (1	7.7m) Jib
Tilt		С	3.5°	Tilt	25°	Tilt	45°	Tilt
w			R	w	R	w	R	w
7,700		80	38.7'	6,200	60.7'	5,500	72.5'	4,100
7,500		79	42.7'	6,200	64.0'	5,300	75.1'	3,900
7,300		78	45.9'	6,200	67.3'	5,100	78.1'	3,900
7,200		77	49.9'	6,200	70.2'	4,900	80.7'	3,800
7.000		76	53.5'	6,200	73.5'	4,800	83.3'	3,700
6,800		75	56.8'	6,200	76.1'	4,600	86.0'	3,600
6.500		73	64.3'	6,200	82.3'	4,300	91.2'	3,400
6,100		70	74.1'	6,000	91.2'	3,900	98.8'	3,200
5,800		68	79.4'	5,100	96.5'	3,700	103.7'	3,100
4,700		65	87.6'	3,900	104.0'	3,100	110.2'	2,700
4,000		63	92.5'	3,300	108.6'	2,600	114.8'	2,200
3,200		60	100.1'	2,400	115.2'	1,900	121.1'	1,700
2,700		58	105.0'	2,000	119.8'	1,500	125.0'	1,300
2,100		55	112.2'	1,300	126.3'	1,000		
1,700		53	117.1'	1,000				

			ON O	UTRIG	GERS	MID EX	(TENDE	ED 18'	1/2"(5.5	m) SPF	READ			
						360°	ROTA	TION						
	114.8'(3	5m) Boom(	telescopin	ig mode I)	+ 33.2' (10				114.8'(35	5m)Boom(t	elescopin	g mode I) ·	+ 58.1' (17	.7m) Jib
с	3.5°	Tilt	25°	Tilt	45°	Tilt		С	3.5°	Tilt	25°	Tilt	45°	Tilt
	R	w	R	w	R	w			R	w	R	w	R	w
80	28.2'	12,300	40.4'	11,300	47.6'	8,700		80	35.1'	7,100	56.8'	6,200	68.9'	4,500
79	30.8'	12,300	42.7'	10,400	49.5'	8,300		79	38.4'	7,100	59.4'	5,600	71.2'	4,200
78	33.8'	12,300	45.6'	10,400	52.2'	8,300		78	41.7'	7,100	62.7'	5,600	73.8'	4,200
77	36.7'	12,300	48.2'	10,400	54.8'	8,200		77	44.9'	7,100	65.6'	5,600	76.8'	4,200
76	39.7'	12,300	50.5'	10,100	56.8'	8,000		76	48.2'	7,100	68.6'	5,500	79.1'	4,200
75	42.3'	12,300	53.1'	9,900	59.1'	7,800		75	51.2'	7,100	71.2'	5,400	81.7'	4,100
73	47.6'	12,300	58.1'	9,300	63.6'	7,600		73	57.7'	7,100	76.8'	5,000	86.3'	4,000
70	55.4'	10,700	65.0'	8,500	70.2'	7,200		70	67.3'	7,100	84.6'	4,700	93.2'	3,800
68	59.4'	9,000	69.2'	7,300	74.1'	6,500		68	72.2'	6,000	89.9'	4,500	97.8'	3,600
65	65.9'	6,900	75.1'	5,800	79.4'	5,200		65	79.4'	4,700	96.5'	3,500	103.3'	3,000
63	69.9'	5,900	79.1'	4,900	83.3'	4,500		63	84.3'	3,900	100.7'	2,900	107.3'	2,500
60	76.4'	4,500	85.0'	3,900	88.6'	3,500		60	91.2'	2,900	107.3'	2,200	113.2'	1,900
58	80.4'	3,800	88.6'	3,300	92.2'	3,000		58	96.1'	2,300	111.5'	1,800	116.8'	1,500
55	86.3'	2,900	94.2'	2,500	97.1'	2,300		55	103.0'	1,600	117.5'	1,200	122.0'	1,000
53	89.9'	2,400	97.8'	2,100	100.4'	1,900		53	107.3'	1,200				

**C** :Loaded boom angle (°)

R :Load radius in feet

95.5'

99.1'

50

48

W :Rated lifting capacity in pounds

1,700

1,300

102.7'

106.0'

1,500

1,100

105.0'

107.9'

1,400

1,100

							(	DN OU	TR	IGGEF	RS N	VIN EX	(TE	NDED	8' 1	0-5/16	6"(2	.7m) S	PR	EAD								
													)° R	OTAT	ION		-										-	
A		36.1'	4	49.2'		62.3'	(19m	)		75.5'	(23m	)		88.6'	(27m)			101.7	(31m	1)		114.8'	(35m	1)	1	28.0'	1	41.1'
В	С	(11m)	С	(15m)	С		С		С		С		С		С		С		С		С		С		С	(39m)	С	(43m)
8'	72	128,500	77	90,000																								
10'	68	79,000	74	77,300	79	70,500	78	44,100																				
12'	64	55,700	72	54,200	76	53,200	76	44,100	79	44,100	79	44,100																
15'	58	37,100	68	36,000	73	35,200	73	40,700	77	36,900	77	41,300	79	38,000	79	37,500												
20'	47	21,800	61	21,100	69	20,400	68	25,200	73	21,900	73	25,700	76	22,800	76	26,100	78	23,500	78	26,300								
25'	32	14,000	54	13,300	63	12,900	63	17,300	69	14,200	69	17,800	72	15,100	72	18,100	76	15,700	75	18,300	77	16,100	77	18,400	79	17,500		
30'			46	8,600	58	8,100	58	12,300	64	9,600	64	12,900	69	10,400	69	13,200	72	10,900	72	13,400	75	11,400	75	13,600	77	12,700	78	11,900
35'			35	5,400	51	4,900	51	9,000	59	6,300	59	9,600	65	7,200	65	9,900	69	7,700	69	10,100	72	8,100	72	10,300	74	9,400	76	8,700
40'			21	3,100	45	2,600	45	6,600	55	4,000	55	7,200	61	4,900	61	7,600	66	5,400	66	7,800	69	5,800	69	7,900	71	7,100	74	6,300
45'							37	4,800	50	2,200	50	5,400	58	3,100	57	5,700	63	3,700	62	6,000	66	4,100	66	6,100	69	5,300	72	4,600
50'							28	3,400			44	3,900	53	1,700	53	4,300	59	2,300	59	4,600	63	2,700	63	4,700	67	3,900	69	3,200
55'							11	2,300			38	2,800			49	3,200			55	3,400	60	1,600	60	3,600	64	2,800	67	2,100
60'											31	1,900			44	2,200			52	2,500			57	2,600	61	1,900		
65'															38	1,500			48	1,700			54	1,900				
D		C	)			38		0		45		21		52		33		58		44		58		51		59		65
Telescoping conditions (%)																												
Telescoping mode		1, 11		I		I		П		I		Ш		I		П		I		П		I		П		П		I, II
2nd boom		0		50		100		0		100		0		100		0		100		0		100		0		50		100
3rd boom		0		0		0		33		16		50		33		66		50		83		66		100		100		100
4th boom		0		0		0		33		16		50		33		66		50		83		66		100		100		100
Top boom		0		0		0		33		16		50		33		66		50		83		66		100		100		100

		LIF	TING CAF	PACITIES	AT ZERO	DEGREE	BOOM A	NGLE ON	OUTRIG	GERS MIN	I EXTEND	DED	
					8' 10-5/1	6"(2.7m)	SPREAD	360° R0	OTATION				
C A	36.1' B (11m)	49.2' B (15m)		62.3' B (19m)									
0	28.9' 9,900	42.0' 2,000		55.4' 2,200									
Telescoping mode	1, 11	I.		Ш									

A :Boom length in feet

B :Load radius in feet

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

 $\boldsymbol{\mathsf{D}}$  :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	36.1'	36.1' to 49.2'	49.2' t	o 62.3'	62.3' to 141.1'	Single top
(meters)	(11m)	(11m to 15m)	(11m to 15m) (15m to 19m)		(19m to 43m)	Jib
Telescoping mode	I, II	I	I	=	I, II	I, II
Number of parts of line	14	8	6	4	4	1

## WARNING AND OPERATING INSTRUCTIONS FOR LIFTING CAPACITIES

#### GENERAL

- 1. RATED LIFTING CAPACITIES apply only to the machine as originally manufactured and normally equipped by TADANO LTD. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
- Hydraulic cranes can be hazardous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with information in the *Operation and Maintenance Manual* supplied with the crane. If this manual is missing, order a replacement through the distributor.
- The operator and other personnel associated with this machine shall fully acquaint themselves with the latest American National Standards Institute (ANSI) safety standards for cranes.

#### SET UP

- Rated lifting capacities on the load chart are the maximum allowable crane capacities 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**

- 1. 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.
- 3. Rated lifting capacities above thick lines in the chart are based on crane strength and those below, on its stability. They are based on actual load radius increased by boom deflection.
- 4. The weight of handling device such as hook blocks, slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.
- 5. Rated lifting capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tires, operating speeds, side loads, etc. Side pull on the boom or jib is extremely dangerous. Such action can damage the boom, jib or swing mechanism, and lead to overturning the crane.
- 6. Rated lifting capacities do not account for wind on lifted load or boom. We recommend against working under the condition that the load is out of control due to a strong wind. During boom lift, consider that the rated lifting capacity is reduced by 50% when the wind speed is 20mph(9m/s) to 27mph(12m/s); reduced by 70% when the wind speed is 27mph(12m/s) to 31mph(14m/s). If the wind speed is 31mph(14m/s) or over, stop operation. During jib lift, stop operation if the wind speed is 20mph(9m/s) or over.
- 7. Rated lifting capacities at load radius shall not be exceeded. Do not tip the crane to determine allowable loads.
- Do not operate at boom lengths, radii, or boom angle, where no capacities are shown. Crane may overturn without any load on the hook.
- 9. When boom length is between values listed, refer to the rated lifting capacities of the next longer and next shorter booms for the same radius. The lesser of the two rated lifting capacities shall be used.

- When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.
- 11. Load per line should not exceed 12,300 lbs. (5,600kg) 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 12,300 lbs.(5,600kg) x number of parts of line.
- 13. The boom angle before loading should be greater to account for deflection. For rated lifting capacities, the loaded boom angle and the load radius is for reference only.
- 14. The 36.1' (11.0m) boom length capacities are based on boom fully retracted. If not fully retracted [less than 49'(15.0m) boom length], use the rated lifting capacities for the 49' (15.0m) 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 12,300 lbs. (5,600kg) 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.
- 20. For boom length 141.1'(43.0m) or less and 114.8'(35.0m) or longer with jib, rated lifting capacities are detarmined by loaded boom angle only in the column handed "141.1'(43.0m)boom+jib. For boom length 114.8'(35.0m) or less with jib, rated lifting capacities are determined by loaded boom angle only in the column headed "114.8'(35.0m)boom+jib".For angles not shown, use the next lower loaded boom angle to determine allowable capacity.(Telescoping MODE ) For boom length 141.1'(43.0m) or less and 128.0'(39.0m) or longer with jib, rated lifting capacities are detarmined by loaded boom angle only in the column handed "141.1'(43.0m) boom+jib.
  For boom length 128.0'(39.0m) or less with jib, rated lifting capacities are detarmined by loaded boom angle only in the column handed "141.1'(43.0m)boom+jib. For boom length 128.0'(39.0m) or less with jib, rated lifting capacities are detarmined by loaded boom angle only in the column headed "128.0'(39.0m)boom+jib".For angles not shown, use the next lower loaded boom angle to determine allowable capacity.(Telescoping MODE ) "128.0'(39.0m)boom+jib".For angles not shown, use the next lower loaded boom angle to determine allowable capacity.(Telescoping MODE )
  - 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. Before telescoping the boom, set the telescoping mode selector switch to MODE or MODE with the boom fully retracted. A change of the telescoping mode is not permissible when the boom has been partially or fully extended.
- Crane operation is prohibited without full counterweight12,600lbs.(5.7 ton) installed. Outriggers shall be extended 23'11 3/8(7.3m) spread when installing or removing removable counterweight.

#### DEFINITIONS

- Load Radius: Horizontal distance from a projection of the axis of rotation to supporting surface before loading to the center of the vertical hoist line or tackle with load applied.
- Loaded Boom Angle: The angle between the boom base section and the horizontal, after lifting the rated lifting capacity at the load radius.
- 3. Working Area: Area measured in a circular arc about the centerline of rotation.
- 4. Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
- 5. Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.

					ON-R	UBBER	STATION	IARY					-
A			Ove	r Front						360° I	Rotation		
	3	6.1'	6	2.3'	88	3.6'		3	6.1'	6	2.3'	8	8.6'
в	С	(11m)	С	(19m)	С	(27m)		С	(11m)	С	(19m)	С	(27m)
10'	68	65,000						68	41,000				
12'	64	60,000						64	29,000				
15'	59	50,000	73	35,000				58	20,000	73	22,000		
20'	48	34,000	69	35,000				47	12,000	68	14,000		
25'	32	23,000	63	25,000	73	22,000		33	7,500	63	9,500	72	10,000
30'			58	18,000	69	19,000				58	6,500	69	7,000
35'			51	14,000	65	15,000				51	4,500	65	5,000
40'			45	11,000	62	12,000				46	3,000	61	3,500
45'			38	8,000	58	9,500						57	2,300
50'			28	6,000	54	7,500							
55'			11	4,500	49	6,000							
60'					44	5,000							
65'					39	4,000							
70'					33	3,000							
D				0					0		37	ļ	54
					Tele	scoping c	onditions	(%)					
Telescopin g mode	I	, 11		I		II		I, II		II			Ш
2nd boom		0		0		0			0		0		0
3rd boom		0		33	(	66			0		33		66
4th boom		0		33	(	36			0	33		66	
Top boom		0		33	6	66			0	33			66

		LIFTIN	G CAPAC	ITIES AT	ZERO D	EGREE E	BOOM AN	IGLE ON-	RUBBER	STATIONARY	
	<b>N</b>		Over	Front						360° Rotation	
	3	6.1'	62	2.3'	88	3.6'		36	.1'		
c	В	(11m)	В	(19m)	В	(27m)		В	(11m)		
0	28.9'	17,600	55.4'	4,400	81.7'	700		28.9'	5,100		

		ON-RU	IBBER (	CREEP			
A			Over	r Front			
	36	6.1'	62	2.3'	8	8.6'	
в	С	(11m)	С	(19m)	С	(27m)	
10'	68	51,000					
12'	64	44,000					
15'	58	36,000	73	35,000			
20'	48	27,000	68	28,000			
25'	32	21,000	63	22,000	73	22,000	
30'			58	17,000	69	18,000	
35'			52	13,000	65	14,000	
40'			45	10,000	61	11,000	
45'			37	7,500	57	9,000	
50'			28	5,500	53	7,000	
55'			11	4,000	49	5,500	
60'					44	4,500	
65'					39	3,500	
70'					33	2,500	
D				0			
		Telescopi	ng condi	tions (%)			
Telescopin g mode	I,	Ш		II	Ш		
2nd boom		0		0	0		
3rd boom		0	:	33	66		
4th boom		0		33	66		
Top boom		0	:	33	66		

LIFTIN	IG CAPACITIES AT ZERO DEGREE BOOM ANGLE								
ON-RUBBER CREEP									
A Over Front									

	<u> </u>							
		36.1'		62.3'		88.6'		
C	: \	В	(11m)	в	(19m)	В	(27m)	
	0	28.9'	17,200	55.4'	4,000	81.7'	700	
È	0	_	. ,	_	. ,		、 /	

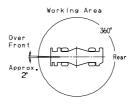
NOTE: The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-C) is based on the standard number of parts of line listed in the chart. Standard number of parts of line for on-rubber operation should be according to the

following table.

Boom length in feet	36.1' 36.1' to 88.6'		Single top		
(meters)	(11m)	(11m to 27m)	Jib		
Number of parts of line	6	4	1		

A :Boom length in feet

- B :Load radius in feet
- C :Loaded boom angle (°)
- ${\bf D}$  :Minimum boom angle (°)
- for indicated length (no load)



## 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 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.
- 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.
- Rated lifting capacities are based on proper tire inflation, capacity and condition. Damaged tires are hazardous to safe operation of crane.
- 5. Tires shall be inflated to correct air pressure.

Tires	Air Pressure		
29.5-25 22PR	60 psi (420 kPa)		
29.5-25 28PR	64 psi (450 kPa)		

- 6. Over front operation shall be performed within 2 degrees in front of chassis.
- On-rubber lifting with "jib" is not permitted. Maximum permissible boom length is 88.6 ft. (27.0m).
- 8. When making lift on-rubber stationary, set parking brake.
- 9. For creep operation, boom must be centered over front of machine, swing lock engaged, and load restrained from swinging. Travel slowly and keep the lifted load as close to the ground as possible, and especially avoid any abrupt steering, accelerating or braking.
- 10. Do not operate the crane while carrying the load.
- 11. Creep is motion for crane not to travel more than 200 ft. (60 m) in any 30 minute period and to travel at the speed of less than 1 mph (1.6km/h).
- 12. For creep operation, choose the drive mode and proper gear according to the road or working condition.

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

- 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 indicator symbol flickers.
  - · Press the lift state select key to register the lift state.
  - However, pay attention to the following.
  - (1) For stationary operation.
    - The front capacities are attainable only when the over front position symbol comes on. When the boom is more than 2 degrees from centered over front of chassis, 360o 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 3600 lifting capacity.

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

appropriately reduced.

 LOAD MOMENT INDICATOR (AML-C) is intended as an aid to the operator. Under no condition should it be relied upon to replace use of capacity charts and operating instruction. Sole reliance upon LOAD MOMENT INDICATOR (AML-C) aids in place of good operating practice can cause an accident. The operator must exercise caution to assure safety.

## **GR-750XL Axle weight distribution chart**

			Pounds			Kilograms		
		GVW	Front	Rear	GVW	Front	Rear	
Base machine		97,620	49,650	47,970	44,280	22,520	21,760	
Remove:	1. 6.2ton(5.6metric ton) hook block	-330	-470	140	-150	-214	64	
	2.75ton(68metric ton) hook block	-1,300	-2,310	1,010	-590	-1,048	458	
	3. Top jib	-740	-805	65	-336	-365	29	
	4. Base jib	-1,910	-3,270	1,360	-867	-1,483	616	
	5. Auxiliary lifting sheave	-110	-300	190	-50	-137	87	
	6. Removable Counterweihgt (with Auxiliary Winch&wire)	-12,500	5,510	-18,010	-5,670	2,498	-8,168	

# **MEMO**

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