

GENERAL DIMENSIONS (23.5 - 25 Tires)

| | Feet | Meters |
|---|-------------------|-------------|
| Turning radius: 4 wheel steer 2 wheel steer | 22' 38' 4-5/8" | 6.7 11.7 |

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

CRANE SPECIFICATIONS

воом

Four section full power synchronized telescoping boom, 33.5'~108.3' (10.2m~33m), of round hexagonal box construction with four sheaves, 15-5/8" (0.396m) root diameter, at boom head. The synchronization system consists of a double acting telescope cylinder, two extension cables and retraction cables. Hydraulic cylinder fitted with holding valve. Two easily removable wire rope guards, rope dead end provided on both sides of boom head. Boom telescope sections are supported by wear pads both vertically and horizontally.

Extension speed: 33.5' to 108.3' in 69 seconds.

BOOM ELEVATION - By a double acting hydraulic cylinder with holding valve. Elevation $-0.8^{\circ} - 80^{\circ}$, combination controls for hand or foot operation. Boom angle indicator. Automatic speed reduction and soft stop function. Elevating speed: -0.8° to 80° in 51 seconds.

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

AUXILIARY LIFTING SHEAVE (SINGLE TOP) -Single sheave, 17-5/16"(0.44m) 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 driven through planetary swing speed reducer. Continuous 360° full circle swing on ball bearing turntable at 2.7rpm. 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. Automatic speed reduction and soft stop function (swing range restricted only).

HOIST

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

DRUM - Grooved 15-3/4"(0.40m) root diameter x 22-3/4" (0.578m) wide. Wire rope: 597' of 3/4"diameter rope (182m of 19mm). Drum capacity: 905' (276m) 6 layers. Maximum line pull (permissible): 14,272lbs. (6,474kg)*. Maximum line speed: 534FPM (163m/min).

AUXILIARY HOIST - Variable speed type

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

DRUM - Grooved 15-3/4"(0.40m) root diameter x 22-3/4" (0.578m) wide. Wire rope: 345' of 3/4"diameter rope (105m of 19mm). Drum capacity: 905' (276m) 6 layers. Maximum line pull (permissible): 14,272lbs. (6,474kg)*. Maximum line speed: 534FPM (163m/min). * Maximum permissible line pull may be affected by wire rope strength.

WIRE ROPE - Warrington seal wire, extra improved plow steel, preformed, independent wire rope core, right regular lay. 3/4"(19 mm) 6X37 class

HOOK BLOCKS

- 50 ton (45.4 metric ton) 4 sheaves with swivel hook and safety latch, for 3/4"(19mm) wire rope.
- 5.5 ton (5.0 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 - 148 gallon (560 lit.) capacity. External sight level gauge.

FILTRATION - 26 micron 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. Engine throttle knob. Foot operated controls: boom hoist, boom telescoping, service brake and engine throttle. Hot water cab heater and air conditioning.

Dash-mounted engine start/stop, monitor lamps, cigarette lighter, drive selector switch, parking brake switch, steering mode select switch, power window switch, pump engaged/ disengaged switch, swing brake switch, telescoping/auxiliary winch select switch, outrigger controls, free swing / lock swing selector switch and ashtray.

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

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

- Control lever lockout function
- Lift status indicator
- Outrigger status indicator
- Warning buzzer
- Boom angle / boom length / jib offset angle / load radius / rated lifting capacities / actual loads read out
- Ratio of actual load moment to rated load moment indication
- Automatic Speed Reduction and Soft Stop function on boom elevation and/or swing (swing range resricted only).
- Working condition register switch
- Load radius / boom angle / tip height / swing range preset function
- External warning lamp

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

CARRIER SPECIFICATIONS

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

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

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

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

TRAVEL SPEED - 30 mph (48 km/h)

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

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

Operator's right hand console includes transmission gear selector and sight level bubble. Upper console includes working light switch, roof washer and wiper switch, oil cooler switch, emergency outrigger set up key switch and air conditioning control switch. Swing lock lever and 3 way adjustable seat with high back and seat belt.

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

SUSPENSION - Front: Semi-elliptic leaf springs with hydraulic lockout device. Rear: Semi-elliptic leaf springs with hydraulic lockout device.

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

TIRES - 23.5-25 20PR(OR)

OUTRIGGERS - Four hydraulic beam and jack outriggers. Vertical jack cylinders equipped with integral holding valve. Each outrigger beam and jack is controlled independently from cab. Beams extend to 22'11-5/8" (7.0 m) center-line and retract to within 9' 10-1/8" (3.0 m) overall width with floats. Outrigger jack floats are attached thus eliminating the need to manually attach and detach them. Controls and sight bubble located in superstructure cab. Three outrigger extension lengths are provided with corresponding "RATED LIFTING CAPACITIES" for crane duty in confined areas.

| Mid. Extension | 16' 4-7/8" center to center |
|----------------|------------------------------|
| Mid. Extension | 21' 3-7/8" center to center |
| Max. extension | 22' 11-5/8" center to center |

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

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

ENGINE

| ENGINE | |
|-------------------------------|---|
| Model | Mitsubishi 6M60-TLA3B |
| Туре | Direct injection diesel |
| No. of cylinders | 6 |
| Combustion | 4 cycle, turbo charged and after cooled |
| BoreXStroke, in.(mm) | 4.646 X 4.528 (118X115) |
| Displacement, cu. in (liters) | 460 (7.545) |
| Air inlet heater | 24 volt preheat |
| Air cleaner | Dry type, replaceable element |
| Oil filter | Full flow with replaceable element |
| Fuel filter | Full flow with replaceable element |
| Fuel tank, gal.(liters) | 79.2 (300), right side of carrier |
| Cooling | Liquid pressurized, recirculating by-pass |
| | |

STANDARD EQUIPMENT

- Four section full power synchronized boom 33.5'~108.3' (10.2 m~33 m)
- 28.9'~50' (8.8 m~15.2 m) bi-fold lattice jib (tilt type) with 5°, 25° or 45° pinned offsets and self storing pins.
 Variable speed main hoist with grooved drum, cable follower
- Variable speed main noist with grooved drum, cable follower and 597' of 3/4" cable.
- Variable speed auxiliary hoist with grooved drum, cable follower, drum rotation indicator and 345' of 3/4" cable
- Auxiliary lifting sheave (single top) stowable
- Drum rotation indicator (thumper type) main hoist
- Anti-Two block device (overwind cutout)
- Boom angle indicator
- Tadano electronic load moment indicator system (AML-L)
- Outrigger extension length detector
- Electronic crane monitoring system
- Tadano twin swing system
- 360° positive swing lock
- Self centering armrest control levers with pilot control
- Control pedals for boom hoist and boom telescoping
- 3 way adjustable cloth seat with armrests, high back and seat belt
- Tilt-telescoping steering wheel
- Tinted safety glass and sun visor
- Front windshield wiper and washer
- Roof window wiper and washer
- Power window (cab door)
- Rear view mirrors (left and right side)
- Mirror for main and auxiliary hoists
- Cigarette lighter and ashtray
- Hot water cab heater and air conditioner
- Electric fan in cab
- Cab floor mat
- Pump disconnect in operator's cab
- Hydraulic oil cooler

- Independently controlled outriggers
- Three outrigger extension positions
- Self-storing outrigger pads
- Outrigger hose protection
- Mitsubishi 6D16-TLEE turbo charged after cooled engine (223HP) with exhaust brake
- Electronic controlled automatic transmission driven by torque converter
- 4 x 4 x 4 drive/steer
- Non-spin rear differential
- Semi-elliptic leaf springs suspension with hydraulic lockout device (front and rear)
- 23.5-25 20PR (OR) tires
- Disc brakes
- Fenders
- Air dryer
 - Water separator with filter
- Engine over-run alarm
- Back-up alarm
- Low oil pressure/high water temp. warning device (visual)
- Rear steer centering light
- Air cleaner dust indicator
- Full instrumentation package
- Complete highway light package
- Flood lights and work lights
- Tool storage compartment
- Tire inflation kit
- 24 volt electric system
- 50 ton (45.4 metric ton) 4 sheave hook block
- 5.5 ton (5.0 metric ton) hook with swivel
- Hook block tie down (front bumper)
- Weighted hook storage compartment
- Towing hooks-front and rear
- Lifting eyes

HOISTING SPECIFICATIONS

LINE SPEEDS AND PULLS

| | | Maii | Main or auxiliary hoist - 15'-3/4" (0.4m) drum | | | | | | | | | | |
|------------------|----------|---------|--|------------|--------------------|--------------------------|-------|--------|-------|--------|-------|--|--|
| Lover | Speed | 1.1 | 2 | Line pulls | | | | | | | | | |
| Layer | Speed | Line s | peeds ² | Avai | lable ¹ | Permissible ⁴ | | | | | | | |
| | | F.P.M | m/min | Lbs. | kgf | Lbs. | kgf | | | | | | |
| 1st | High | 367 112 | | 15,698 | 7,121 | 14,272 | 6,474 | | | | | | |
| 2nd | High | 400 | 122 | 14,647 | 6,644 | 13,315 | 6,040 | | | | | | |
| 3rd | High | 433 | 132 | 13,520 | 6,133 | 12,292 | 5,576 | | | | | | |
| 4th | High | 466 | 142 | 12,557 | 5,696 | 11,417 | 5,179 | | | | | | |
| 5th | High 502 | High | 5th High | | | | 153 | 11,721 | 5,317 | 10,657 | 4,834 | | |
| 6th ³ | High | 534 | 163 | 10,989 | 4,985 | 9,991 | 4,532 | | | | | | |

- ¹ Developed by machinery with first layer of wire rope, but not based on rope strength or other limitation in machinery or equipment.
- ² Line speeds based only on hook block, not loaded.
- ³ Sixth layer of wire rope is not recommended for hoisting operations.
- ⁴ Permissible line pull may be affected by wire rope strength.

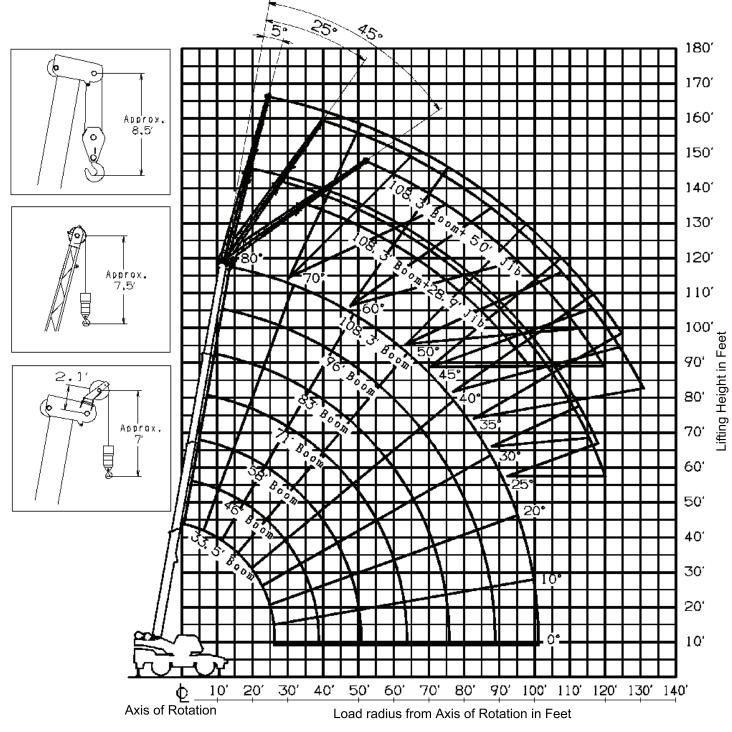
DRUM WIRE ROPE CAPACITIES

| Wire | Main a | | Irum grooved | lagging | | | | | | | |
|---------------|-----------------------|----------|-----------------|---------|--|--|--|--|--|--|--|
| | 3/4" (19mm) wire rope | | | | | | | | | | |
| rope layer | Rope p | er layer | Total wire rope | | | | | | | | |
| layer | Feet | Meters | Feet | Meters | | | | | | | |
| 1 | 123.0 | 37.5 | 123.0 | 37.5 | | | | | | | |
| 2 | 134.2 | 40.9 | 257.2 | 78.4 | | | | | | | |
| 3 | 145.3 | 44.3 | 402.5 | 122.7 | | | | | | | |
| 4 | 156.5 | 47.7 | 559.0 | 170.4 | | | | | | | |
| 5 | 167.7 | 51.1 | 726.7 | 221.5 | | | | | | | |
| 6 | 178.8 | 54.5 | 905.5 | 276.0 | | | | | | | |

DRUM DIMENSIONS

| | Inch | mm |
|-----------------|---------|-----|
| Root diameter | 15-3/4" | 400 |
| Length | 22-3/4" | 578 |
| Flange diameter | 25-3/8" | 645 |

GR-500XL-1 WORKING RANGE CHART



NOTE: Boom and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.

GR-500XL-1 RATED LIFTING CAPACITIES (IN POUNDS)

| | | | | | | | ON OUT | RIGGEF | | | | | (7.0m) \$ | SPREAD | | | | | | |
|-----------|------------------|-----------------|-----------------|-----------------|----------------|-----------------|-------------------|---------------|---|----------------|-----------------------|-------------|-----------|----------------------|-------|------------|------------|-------------|------------|--------|
| | 00 51 | | 501 | | | 0.01 | 100.01 | | | 360° RC | TATION | | | | | | | | | |
| A B | 33.5' (10.2m) | 46' (14.02m) | 58' (17.68m) | 71' (21.64m) | 83' (25.3m) | 96' (29.26m) | 108.3' (33.0m) | Boom Angle | | 108.3' (33 | 3.0m) Booi | m + 28.9' (| 8.8m) Jib | | | 108.3' (33 | .0m) Boor | n + 50.0' (| 15.2m) Jib | |
| 10' | 100,000 | 48,500 | 47,000 | 41,000 | · · · · | | | in | 5° o | ffset | 25° offset 45° offset | | | 5° offset 25° offset | | | 45° offset | | | |
| 12' | 77,000 | 48,500 | 47,000 | 41,000 | 36,600 | | | Degree | R | W | R | W | R | W | R | W | R | W | R | W |
| 15' | 67,200 | 48,500 | 47,000 | 41,000 | 36,600 | 30,400 | | 80° | 19.0 | 9,900 | 28.5 | 8,150 | 35.4 | 6,000 | 24.9 | 5,900 | 40.7 | 4,000 | 52.8 | 2,850 |
| 20' | 52,700 | 48,500 | 42,700 | 36,400 | 31,100 | 27,500 | 20,000 | 75° | 31.5 | 9,900 | 40.0 | 7,200 | 46.9 | 5,700 | 39.4 | 5,900 | 54.5 | 3,500 | 65.3 | 2,550 |
| 25' | 36,500 | 43,000 | 37,500 | 32,000 | 26,900 | 23,700 | 20,000 | 70° | 43.6 | 8,600 | 51.5 | 6,300 | 57.4 | 5,300 | 52.8 | 4,900 | 67.3 | 3,100 | 76.8 | 2,400 |
| 30' | | 33,700 | 33,200 | 28,600 | 23,600 | 20,700 | 19,100 | 65° | 55.1 | 6,900 | 62.3 | 5,500 | 67.3 | 4,850 | 65.9 | 4,100 | 79.4 | 2,850 | 87.6 | 2,300 |
| 35' | | 25,300 | 26,100 | 25,500 | 20,900 | 18,400 | 16,700 | 60° | 65.9 | 5,800 | 72.5 | 4,800 | 76.4 | 4,400 | 78.4 | 3,500 | 90.9 | 2,650 | 97.4 | 2,200 |
| 40' | | | 20,700 | 20,900 | 18,500 | 16,400 | 14,700 | 55° | 76.1 | 4,900 | 82.0 | 4,150 | 85.3 | 3,950 | 90.2 | 3,000 | 101.1 | 2,350 | 106.6 | 2,100 |
| 45' | | | 16,700 | 17,000 | 16,500 | 14,800 | 13,200 | 50° | 85.6 | 4,100 | 90.6 | 3,700 | 93.2 | 3,500 | 100.7 | 2,650 | 110.6 | 2,150 | 114.5 | 1,950 |
| 50' | | | 13,700 | 14,100 | 13,900 | 13,400 | 11,900 | 45° | 94.2 | 3,500 | 98.4 | 3,100 | 100.1 | 2,850 | 110.6 | 2,250 | 119.1 | 1,950 | 121.7 | 1,800 |
| 55' | | | | 11,700 | 11,900 | 11,600 | 10,800 | 40° | 101.7 | 2,750 | 105.3 | 2,450 | | | 119.4 | 1,650 | 126.6 | 1,550 | | |
| 60' | | | | 10,000 | 10,200 | 10,000 | 9,700 | 35° | 108.6 | 2,150 | 111.6 | 2,000 | | | 127.6 | 1,200 | 133.2 | 1,150 | | |
| 65' | | | | | 8,700 | 8,700 | 8,700 | 30° | 114.8 | 1,650 | 117.1 | 1,650 | | | | | | | | |
| 70' | | | | | 7,300 | 7,300 | 7,600 | 25° | 119.8 | 1,350 | 121.7 | 1,400 | | | | | | | | |
| 75' | | | | | 6,300 | 6,350 | 6,600 | | | | | | | | | | | | | |
| 80' | | | | | | 5,400 | 5,700 | | A: Boom length in feet | | | | | | | | | | | |
| 85' | | | | | | 4,750 | 4,900 | | B: Load radius in feet | | | | | | | | | | | |
| 90' | | | | | | | 4,150 | | C: Minimum boom angle (deg.) for indicated length (no load) | | | | | | | | | | | |
| 95' | | | | | | | 3,650 | | D: Loaded boom angle (deg.) | | | | | | | | | | | |
| 100' | | | | - 0 | | | 3,150 | | | | | | | | | | | | | |
| С | | | | 0° | | | | W: | Rated lif | fting cap | acity in p | ounds | | | | | | | | |
| | | LIFTI | NG CAPA | ACITIES A | T ZERO | DEGREE | BOOM | ANGLE OF | | GGERS F | ULLYEX | TENDED | | | | | | | | |
| | | | | | | /8" (7.0m | | | ROTATI | | | | | | | | | | | |
| A | | 33.5' | | 46' | | 58' | | 71' | | 83' | | 96' | | 108.3' | | | | | | |
| D | В | (10.2m) | В | (14.02m) | В | (17.68m) | В | (21.64m) | В | (25.3m) | В | (29.26m) | В | (33.0m) | | | | | | |
| 0° | 26.2 | 32,200 | 38.7 | 21,500 | 50.7 | 13,400 | 63.6 | 8,900 | 75.6 | 6,200 | 88.7 | 4,200 | 101.0 | 3,100 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | ON OL | JTRIGGE | | | IDED 21 TATION | · · · | 5.5m) SP | READ | | | | | | |
| \ A | 33.5' | 46' | 58' | 71' | 83' | 96' | 108.3' | Boom | | 109 21 (2) | 3.0m) Boor | m 1 20 01 | 0.0m) | | | 108.3' (33 | 0m) Bass | | 1E 2m) !!! | |
| в | (10.2m) | (14.02m) | (17.68m) | (21.64m) | (25.3m) | (29.26m) | (33.0m) | Angle | | 108.3 (3. | 5.0m) Booi | m + 28.9 (| a.om) Jib | | | 108.3 (33 | .0m) Boor | n + 50.0 (| 15.2m) Jib | |
| 10' | 100,000 | 48,500 | 47,000 | 41,000 | | | | in | 5° o | ffset | 25° c | offset | 45° (| offset | 5° o | ffset | 25° (| offset | 45° d | offset |
| 12' | 77,000 | 48,500 | 47,000 | 41,000 | 36,600 | | | Degree | R | W | R | W | R | W | R | W | R | W | R | W |
| 15' | 67,200 | 48,500 | 47,000 | 41,000 | 36,600 | 30,400 | | 80° | 19.0 | 9,900 | 28.5 | 8,150 | 35.4 | 6,000 | 24.9 | 5,900 | 40.7 | 4,000 | 52.8 | 2,850 |
| 20' | 52,700 | 48,500 | 42,700 | 36,400 | 31,100 | 27,500 | 20,000 | 75° | 31.5 | 9,900 | 40.0 | 7,200 | 46.9 | 5,700 | 39.4 | 5,900 | 54.5 | 3,500 | 65.3 | 2,550 |
| 25' | 36,500 | 39,300 | 37,500 | 32,000 | 26,900 | 23,700 | 20,000 | 70° | 43.6 | 8,600 | 51.5 | 6,300 | 57.4 | 5,300 | 52.8 | 4,900 | 67.3 | 3,100 | 76.8 | 2,400 |
| 30' | | 28,100 | 28,300 | 28,600 | 23,600 | 20,700 | 19,100 | 65° | 55.1 | 6,900 | 62.3 | 5,500 | 67.3 | 4,850 | 65.9 | 4,100 | 79.4 | 2,850 | 87.6 | 2,300 |
| 35' | | 21,000 | 21,300 | 21,800 | 20,900 | 18,400 | 16,700 | 60° | 65.9 | 5,800 | 72.5 | 4,800 | 76.4 | 4,400 | 78.4 | 3,500 | 90.9 | 2,650 | 97.4 | 2,200 |
| 40' | | | 17,000 | 17,300 | 17,300 | 16,400 | 14,700 | 55° | 76.1 | 4,500 | 82.0 | 3,850 | 85.3 | 3,850 | 90.2 | 3,000 | 101.1 | 2,350 | 106.6 | 2,100 |
| 45' | | | 13,700 | 14,000 | 14,100 | 14,300 | 13,200 | 50° | 85.6 | 3,300 | 90.6 | 2,850 | 93.2 | 2,900 | 100.7 | 2,050 | 110.6 | 1,750 | 114.5 | 1,750 |
| 45 | | | 10,700 | 14,000 | 14,100 | 11,000 | | | | | | | | | | | | | | |
| 45 50' | | | 11,100 | 11,500 | 11,700 | 11,800 | 11,450 | 45° | 94.2 | 2,350 | 98.4 | 2,000 | 100.1 | 2,050 | 110.6 | 1,350 | 119.1 | 1,150 | 121.7 | 1,150 |
| | | | | - | | | | | 94.2 101.7 | 2,350 1,650 | | | | | | 1,350 | 119.1 | | | |
| 50' | | | | 11,500 | 11,700 | 11,800 | 11,450 | 45° | | | 98.4 | 2,000 | | | | 1,350 | 119.1 | | | |

| 55 | | 9,500 | 9,700 | 9,900 | 9,800 | 40 |
|------|--|-------|-------|-------|-------|----|
| 60' | | 8,000 | 8,200 | 8,300 | 8,200 | 35 |
| 65' | | | 7,000 | 7,000 | 7,000 | |
| 70' | | | 5,900 | 5,900 | 6,000 | |
| 75' | | | 5,000 | 5,000 | 5,100 | |
| 80' | | | | 4,300 | 4,400 | |
| 85' | | | | 3,700 | 3,700 | |
| 90' | | | | | 3,100 | |
| 95' | | | | | 2,700 | |
| 100' | | | | | 2,200 | |
| С | | 0° | | | | |

A: Boom length in feet

B: Load radius in feet

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

R: Load radius in feet

W: Rated lifting capacity in pounds

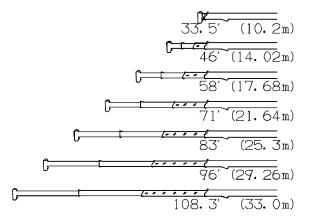
| | LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS FULLY EXTENDED | | | | | | | | | | | | | |
|----------|---|---------|------|----------|------|-------------------|------|----------|------------------|-------|------|----------|--------|---------|
| | 21'3-7/8" (6.5m) SPREAD 360° ROTATION | | | | | | | | | | | | | |
| A | | 33.5' | | 46' | | 58' | | 71' | 83' | | 96' | | 108.3' | |
| D | В | (10.2m) | В | (14.02m) | В | B (17.68m) | | (21.64m) | B (25.3m) | | В | (29.26m) | В | (33.0m) |
| 0° | 26.2 | 32,200 | 38.7 | 17,600 | 50.7 | 10,900 | 63.6 | 7,300 | 75.6 | 4,900 | 88.7 | 3,300 | 101.0 | 2,200 |

GR-500XL-1 RATED LIFTING CAPACITIES (IN POUNDS)

| | ON OUTRIGGERS MID. EXTENDED 16' 4-7/8"(5.0m) SPREAD 360° ROTATION | | | | | | | | | | | | | | | | | | | | |
|--------|--|-----------------|-----------------|-----------------|----------------|-----------------|-------------------|------------------------|----------|------------|------------|-------------|------------|----------|---------|------------|-----------|-------------|---------------|--------|--|
| A B | 33.5' (10.2m) | 46' (14.02m) | 58' (17.68m) | 71' (21.64m) | 83' (25.3m) | 96' (29.26m) | 108.3' (33.0m) | Boom Ang l e | | 108.3' (3 | 3.0m) Boo | m + 28.9' | (8.8m) Jib | | | 108.3' (33 | .0m) Booi | m + 50.0' (| ' (15.2m) Jib | | |
| 10' | 100,000 | 48,500 | 47,000 | 41,000 | | | | in | 5° o | ffset | 25° | offset | 45° | offset | 5° c | ffset | 25° | offset | 45° | offset | |
| 12' | 77,000 | 48,500 | 47,000 | 41,000 | 36,600 | | | Degree | R | W | R | W | R | W | R | W | R | W | R | W | |
| 15' | 61,300 | 48,500 | 47,000 | 41,000 | 36,600 | 30,400 | | 80° | 19.0 | 9,900 | 28.5 | 8,150 | 35.4 | 6,000 | 24.9 | 5,900 | 40.7 | 4,000 | 52.8 | 2,850 | |
| 20' | 38,500 | 38,200 | 38,200 | 36,400 | 31,100 | 27,500 | 20,000 | 75° | 31.5 | 9,900 | 40.0 | 7,200 | 46.9 | 5,700 | 39.4 | 5,900 | 54.5 | 3,500 | 65.3 | 2,550 | |
| 25' | 24,500 | 25,900 | 25,900 | 26,400 | 26,900 | 23,700 | 20,000 | 70 [°] | 43.6 | 8,150 | 51.5 | 6,300 | 57.4 | 5,300 | 52.8 | 4,900 | 67.3 | 3,100 | 76.8 | 2,400 | |
| 30' | | 18,600 | 19,000 | 19,400 | 19,800 | 19,600 | 19,100 | 65° | 55.1 | 5,500 | 62.3 | 4,700 | 67.3 | 4,350 | 65.9 | 3,900 | 79.4 | 2,850 | 87.6 | 2,300 | |
| 35' | | 13,200 | 14,400 | 14,800 | 15,000 | 15,000 | 15,000 | 60° | 65.9 | 3,400 | 72.5 | 3,150 | 76.4 | 3,000 | 78.4 | 2,400 | 90.9 | 1,950 | 97.4 | 1,900 | |
| 40' | | | 11,200 | 11,700 | 11,900 | 11,900 | 11,900 | 55° | 76.1 | 2,200 | 82.0 | 2,000 | 85.3 | 2,000 | 90.2 | 1,300 | 101.1 | 1,130 | 106.6 | 1,100 | |
| 45' | | | 8,800 | 9,300 | 9,500 | 9,500 | 9,600 | 50° | 85.6 | 1,300 | 90.6 | 1,150 | 93.2 | 1,200 | | | | | | | |
| 50' | | | 7,000 | 7,500 | 7,700 | 7,700 | 7,800 | | | | | | | | | | | | | | |
| 55' | | | | 6,000 | 6,100 | 6,150 | 6,300 | | | | | | | | | | | | | | |
| 60' | | | | 4,850 | 5,000 | 5,000 | 5,100 | | | | | | | | | | | | | | |
| 65' | | | | | 4,050 | 4,050 | 4,150 | | | | | | | | | | | | | | |
| 70' | | | | | 3,300 | 3,300 | 3,400 | | | | | | | | | | | | | | |
| 75' | | | | | 2,650 | 2,700 | 2,800 | A: | Boom le | ngth in f | eet | | | | | | | | | | |
| 80' | | | | | | 2,100 | 2,200 | B: | Load rad | dius in fe | et | | | | | | | | | | |
| 85' | | | | | | 1,600 | 1,700 | C: | Minimur | n boom a | angle (de | eg.) for in | dicated l | ength (n | o load) | | | | | | |
| 90' | | | | | | | 1,300 | D: | Loaded | boom ar | ngle (deg | .) | | | | | | | | | |
| 95' | | | | | | | 900 | R: | Load rad | dius in fe | et | | | | | | | | | | |
| С | | | 0 | 0 | | | 22° | W: | Rated li | fting cap | acity in p | ounds | | | | | | | | | |
| | LIFTIN | IG CAPA | CITIES A | | | BOOM AI | | | | JLLY EX | TENDED | | ן | | | | | | | | |
| Δ | 16'4-7/8" (5.0m) SPREAD 360° ROTATION | | | | | | | | | | | | - | | | | | | | | |

| 104-1/0 (3.011) SPREAD 300 ROTATION | | | | | | | | | | | | | | |
|-------------------------------------|------------------|------|---------|------|----------|------|----------|------|----------|------|---------|------|----------|--|
| $\overline{\ }$ | Α | | 33.5' | | 46' | | 58' | | 71' | | 83' | 96' | | |
| D | \smallsetminus | В | (10.2m) | В | (14.02m) | В | (17.68m) | в | (21.64m) | в | (25.3m) | В | (29.26m) | |
| 0 | D | 26.2 | 22,700 | 38.7 | 11,600 | 50.7 | 6,900 | 63.6 | 4,300 | 75.6 | 2,500 | 88.7 | 1,400 | |
| 0 | _ | | | | | | | | ., | | _, | | | |

Boom length in feet



NOTE :Load radiuses for jib operation are given for reference with the boom fully extended to 108.3' (33m).

4,700 lbs. (2,132 kg) shall be subtracted from the rated lifting capacity of the main boom, when 28.9' jib is attached to main boom head. 28.9' jib weight is 1,250 lbs. (567 kg)

6,600 lbs. (3,000 kg) shall be subtracted from the rated lifting capacity of the main boom, when 50.0' jib is attached to main boom head. 50.0' jib weight is 1,780 lbs. (807 kg)

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

| Boom Length in Feet | 33.5' | 33.5' to 71' | 71' to 108.3' | Single top |
|-------------------------|--------|-----------------|-----------------|------------|
| (meters) | (10.2) | (10.2 to 21.64) | (21.64 to 33.0) | Jib |
| Number of parts of line | 9 | 6 | 4 | |

The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-L) is based on the standard number of parts of line listed in the chart.

Maximum lifting capacity is restricted by the number of parts of line of LOAD MOMENT INDICATOR (AML-L).

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.
- 2. 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.
- 3. 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

- 1. Rated lifting capacities on the load chart are the maximum allowable crane capacities. They are based on the machine standing level on a firm supporting surface under ideal job conditions. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires to spread the loads to a larger bearing surface.
- 2. For outrigger operation, outriggers shall be properly extended with tires free of supporting surface before operating crane.

OPERATION

- Rated lifting capacities have been tested to and meet minimum requirements of SAE J1063-Cantilevered Boom Crane Structures Method of Test.
- Rated lifting capacities do not exceed 85 % of the tipping load on outriggers fully extended as determined by SAE J765-Crane Stability Test Code.
 Rated lifting capacities for partially extended outriggers are determined by this formula, Rated Lifting Capacities =(Tipping Load - 0.1 x Tip Reaction)/1.25.
- Rated lifting capacities above bold lines in the chart are based on crane strength and those below, on its stability. They are based on actual load radius increased by boom deflection.
- 4. The weight of load handling device such as hook blocks, slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.
- 5. Rated lifting capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tires, operating speeds, side loads, etc. Side pull on the boom or jib is extremely dangerous.
- 6. Rated lifting capacities do not account for the effects of wind on a lifted load or boom. Rated lifting capacities and boom length shall be appropriately reduced, when wind velocity exceeds 20 mph (9 m/sec.).
- 7. Rated lifting capacities at load radius shall not be exceeded. Do not tip the crane to determine allowable loads.
- 8. Do not operate at boom lengths, radii, or boom angle, where no capacities are shown. Crane may overturn without any 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.

- 10. When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.
- 11. Load per line should not exceed 11,500 lbs. (5,200kg) for main winch and 11,000 lbs. (5,000kg) for auxiliary winch.
- 12. Check the actual number of parts of line with LOAD MOMENT INDICATOR (AML-L) before operation. Maximum lifting capacity is restricted by the number of parts of line of LOAD MOMENT INDICATOR (AML-L). Limited capacity is as determined from the formula, Single line pull for main winch (11,500 lbs.) x number of parts of line.
- 13. The boom angle before loading should be greater to account for deflection.
- 14. The 33.5' (10.2m) boom length capacities are based on boom fully retracted. If not fully retracted [less than 46'(14.0m) boom length], use the rated lifting capacities for the 46' (14.0m) boom length.
- 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.
- For lifting capacity of single top, reduce the rated lifting capacities of relevant boom by the mass of the main hook block. Capacities of single top shall not exceed 11,000 lbs. (5,000kg) including main hook.
- 17. When erecting and stowing jib, be sure to retain it by hand or by other means to prevent its free movement.
- 18. 4,700 lbs. (2,132 kg) shall be subtracted from the rated lifting capacitiy of the main boom, when 28.9' jib is attached to main boom head. 28.9' jib weight is 1,250 lbs. (567 kg)
 6,600 lbs. (3,000 kg) shall be subtracted from the rated lifting capacitiy of the main boom, when 50.0' jib is attached to main boom head. 50.0' jib weight is 1,780 lbs. (807 kg)
- Use Anti-two block (OVERWIND CUTOUT) disable switch when erecting and stowing jib and when stowing hook block. While the switch is pushed, the hoist does not stop, even when overwind condition occurs.
- 20. For boom length with 28.9' (8.8m) jib, rated lifting capacities are determined by loaded boom angle only in the column headed "108.3' (33.0m) boom + 28.9' (8.8m) jib".
 For boom length with 50' (15.2 m) jib, rated lifting capacities are determined by loaded boom angle only in the column headed "108.3' (33.0m) boom + 50' (15.2m) jib".
 For angles not shown, use the next lower loaded boom angle to determine allowable capacity.
- 21. When lifting a load by using jib (aux. winch) and boom (main winch) simultaneously, do the following:
 - Enter the operation status as jib operation, not as boom operation.
 - Before starting operation, make sure that mass of load is within rated lifting capacity for jib.

DEFINITIONS

- 1. 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.
- 2. 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.

GR-500XL-1 RATED LIFTING CAPACITIES (IN POUNDS)

| ON RUBBER TIRE: 23.5-25 20PR | | | | | | | | | | | |
|------------------------------|---------------------|------------|---------|---------------------|---------------|---------|---------------------|----------|---------|--|--|
| | | | Statio | | | | | Creep | | | |
| A | | Over Front | | | 360° Rotation | | Over Front | | | | |
| | Boom Length in Feet | | | Boom Length in Feet | | | Boom Length in Feet | | | | |
| В | 33.5' 58' 83' | | 33.5' | 58' | 83' | 33.5' | 58' | 83' | | | |
| | (10 . 2m) | (17.68m) | (25.3m) | (10.2m) | (17.68m) | (25.3m) | (10.2m) | (17.68m) | (25.3m) | | |
| 10' | 38,500 | | | 28,000 | | | 35,700 | | | | |
| 12' | 37,000 | 33,600 | | 22,000 | 22,500 | | 30,800 | 32,000 | | | |
| 15' | 33,700 | 29,000 | | 16,900 | 17,500 | | 25,200 | 26,400 | | | |
| 20' | 25,500 | 22,500 | 18,700 | 9,900 | 10,500 | 10,800 | 18,500 | 20,000 | 18,700 | | |
| 25' | 17,400 | 17,800 | 16,000 | 6,100 | 6,900 | 7,300 | 14,100 | 15,400 | 15,800 | | |
| 30' | | 13,100 | 12,700 | | 4,700 | 5,100 | | 12,100 | 12,700 | | |
| 35' | | 10,000 | 9,600 | | 3,100 | 3,500 | | 10,000 | 9,600 | | |
| 40' | | 7,800 | 7,500 | | 2,000 | 2,300 | | 7,800 | 7,500 | | |
| 45' | | 6,100 | 5,700 | | 1,100 | 1,400 | | 6,100 | 5,700 | | |
| 50' | | 5,000 | 4,500 | | | | | 5,000 | 4,500 | | |
| 55' | | | 3,500 | | | | | | 3,500 | | |
| 60' | | | 2,700 | | | | | | 2,700 | | |
| 65' | | | 2,100 | | | | | | 2,100 | | |
| 70' | | | 1,650 | | | | | | 1,650 | | |
| 75' | | | 1,200 | | | | | | 1,200 | | |
| С | | 0 | 0 | | 30° | 51° | | 0° | | | |

| ſ | LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON RUBBER OPERATION | | | | | | | | | | | | | | | |
|---|--|---------------|---------|------|----------|------|---------|--------------|---------|-----|------------|---------|------|----------|------|---------|
| ſ | | Stationary | | | | | | | | | Creep | | | | | |
| | A | Over Front | | | | | | 360 Rotation | | | Over Front | | | | | |
| | | 33.5' 58' 83' | | | 33.5' | | 33 | .5' | Ę | 58' | 8 | 3' | | | | |
| | D | В | (10.2m) | В | (17.68m) | В | (25.3m) | В | (10.2m) | | В | (10.2m) | В | (17.68m) | В | (25.3m) |
| Ī | 0° | 26.2 | 15,200 | 50.7 | 4,700 | 75.6 | 1,100 | 26.2 | 5,500 | | 26.2 | 13,100 | 51.0 | 4,700 | 75.6 | 1,100 |

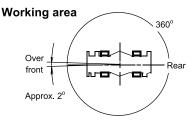
A: Boom length in feet

B: Load radius in feet

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

D: Loaded boom angle (deg.)

Boom length in feet 33. 5' (10. 2m) <u>58' (17. 68m</u>)



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

(25. Jm)

| of line listed in the chart. | | |
|------------------------------|------|------------|
| Boom mode | Boom | Single top |
| Number of parts of line | 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.
- Rated lifting capacities shown in the chart are based on condition that crane is set on firm level surfaces with suspension lock applied. Those above bold lines are based on tire capacity and those below, on crane stability. They are based on actual load radius increased by tire deformation and boom deflection.
- If the suspension 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 |
|--------------|-----------------------|
| 23.5-25 20PR | 68 psi. (4.75kgf/cm2) |

- 6. Over front operation shall be performed within two degrees in front of chassis.
- 7. On rubber lifting with "jib" is not permitted. Maximum permissible boom length is 83 ft. (25.3m).
- 8. When making lift on rubber (stationary), set parking brake.
- For creep operation, boom must be centered over front of machine, swing lock engaged, and load restrained from swinging. Travel slowly and keep the lifted load as close to the ground as possible, and especially avoid any abrupt steering, accelerating or braking.
- 10. Do not operate the crane while carrying the load.
- 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 (1.6 km/h).
- 12. For creep operation, set drive select switch to "4-WHEEL (Lo)" and set gear shift lever to "1".

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

- 1. When operating crane on outriggers:
 - Before outrigger operation, the suspension lock operation must be performed. Suspension lock system can only be performed in the over-front area.
 - Push and hold the suspension lock switch to the "LOCK" position until suspension lock lamp changes from flashing to a solid light and the suspension is fully retracted. (Outrigger and crane operations cannot be performed until suspension lock operation has been completed.) Set P.T.O. switch to "ON".
 - Extend the outriggers and level the crane.
 - Press the outrigger mode select key to register for the outrigger operation. Press the register key, then the outrigger mode indicative symbol changes from flashing to a solid light.
 - Press the lift mode select key to select the lift status that corresponds to the actual boom configuration.
 Each time the lift mode select key is pressed, the status changes.
 Press the register key to register the lift status,
 then the lift indicative symbol changes from floabing to a solid light
 - then the lift indicative symbol changes from flashing to a solid light.When mounting and stowing jib, select the jib set status. (The jib state indicative symbol will be flashing.
- 2. When operating crane on rubber:
 - Before on rubber operation, the suspension lock must be activated. Suspension lock system can only be activated in the over-front area.
 - Push and hold the suspension lock switch to the "LOCK" position until suspension lock lamp changes from flashing to a solid light and the suspension is fully retracted. (Crane operations cannot be performed until suspension lock operation has been completed.)
 - Set P.T.O. switch to "ON".
 - Press the outrigger mode select key. The on rubber mode indicative symbol comes on. Each time the outrigger mode select key is pressed, the status changes.
 When the stationary operation is selected, the on rubber status

symbol will be a solid light. When the creep operation is selected, the on rubber status symbol will be a flashing light.

- Press the boom mode select key to select the boom status that corresponds to the actual boom configuration. 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 1 degree from centered over front of chassis, 360° capacities are in effect.
- When a load is lifted in the front position and then swung to the side area, make sure the value of the LOAD MOMENT INDICATOR(AML-L) is below the 360° lifting capacity.
- (2) For creep operation :
- The creep rated lifting capacities are attainable only when the boom is in the straight forward position of chassis and the over front position symbol light is on. If boom is not in the straight forward position of chassis, never creep with the load.
- 3. A swing does not automatically stop even if the crane becomes overloaded.
- 4. During crane operation, make sure that the displays on front panel are in accordance with actual operating conditions
- 5. The displayed values of LOAD MOMENT INDICATOR (AML-L) 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 speed, side loads, etc. For safe operation, it is recommended when extending and lowering boom or swinging, lifting loads shall be appropriately reduced.
- 6. LOAD MOMENT INDICATOR (AML-L) 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-L aids in place of good operating practice can cause an accident. The operator must exercise caution to assure safety.

| | | | Pounds | | Kilograms | | | |
|--------|--|--------|--------|--------|-----------|--------|--------|--|
| | | GVW | Front | Rear | GVW | Front | Rear | |
| Base m | nachine | 68,790 | 32,930 | 35,860 | 31,202 | 14,937 | 16,265 | |
| Add: | 1. Auxiliary hoist with 345' (105m) of 3/4" (19mm) | 1830 | -440 | 2,270 | 830 | -200 | 1,030 | |
| | 2. Auxiliary lifting sheave | 150 | 390 | -240 | 68 | 177 | -109 | |
| | 3. 50 ton (45.4 metric ton) hook block | 767 | 1,347 | -580 | 348 | 611 | -263 | |
| | 4. 5.5 ton (5.0 metric ton) hook ball | 290 | 410 | -120 | 132 | 186 | -54 | |
| | 5. Top jib (21') | 530 | 600 | -70 | 240 | 272 | -32 | |
| | 6. Base jib (28.8') | 1,250 | 2,070 | -820 | 567 | 939 | -372 | |
| | 7. 1,790 lbs Extra counterweight | 1,790 | -430 | 2,220 | 810 | -195 | 1,005 | |
| | 8. Hot water cab heater and air conditioner | 220 | 70 | 150 | 100 | 32 | 68 | |

GR-500XL-1Axle weight distribution chart

| NOTES |
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