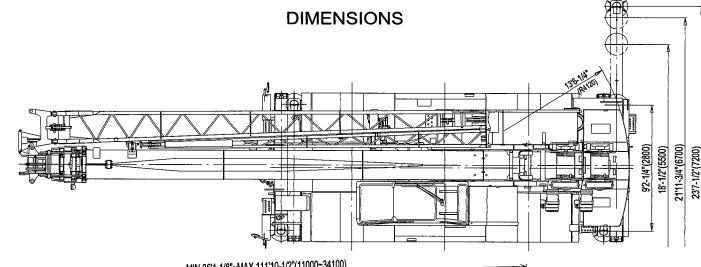
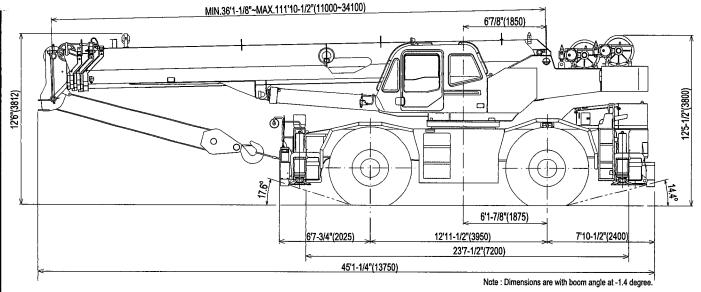




60 Ton Capacity (54.4 Metric Tons)

HYDRAULIC ROUGH TERRAIN CRANE

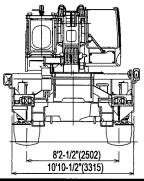




GENERAL DIMENSIONS

(29.5 X 25 Tires)

| | Feet | Meters |
|----------------|------------|--------|
| Turning radius | | |
| 4 wheel steer | 21'11-3/4" | 6.7 |
| 2 wheel steer | 39'1/2" | 11.9 |





SUPERSTRUCTURE SPECIFICATIONS

BOOM

Four section full power synchronized telescoping boom, 36' 1-1/8"~111 10-1/2" (11.0m~34.1m), of round hexagonal box construction with five sheaves, 15" (0.38m) 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 75' 9-3/8" in 95 seconds.

BOOM ELEVATION - By a double acting hydraulic cylinder with holding valve. Elevation -0.4°~80.5°, combination controls for hand or foot operation. Boom angle indicator. Automatic speed reduction and soft stop function. Elevation speed -0.4°~80.5° in 75 seconds.

JIB - Two stage bi-fold lattice type with 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 32.5' (9.9m) or 58.1' (17.7m). Assistant cylinders for mounting and stowing are 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 driven through planetary swing speed reducer. Continuous 360° full circle swing on ball bearing turntable at 2.5rpm. 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 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: 797' of 3/4"diameter rope (243m of 19mm). Drum capacity: 1,096' (334m) 7 layers. Maximum line pull (available): 18,200lbs. (8,260kg). Maximum line speed: 585FPM (178m/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: 436' of 3/4"diameter rope (133m of 19mm). Drum capacity: 1,096' (334m) 7 layers. Maximum line pull (available): 18,200lbs. (8,260kg). Maximum line speed: 585FPM (178m/min).

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

60 ton (54.4 metric ton) - 5 sheaves with swivel hook and safety latch, for 3/4"(19mm) wire rope. 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 - 195 gallon (740 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 tinted safety glass windows opening at side. Door window is powered control. Windshield glass and roof window 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 into cab. 3 way adjustable operator's seat with high back, headrest and armrest. Engine throttle knob. Foot operated controls: boom hoist, boom telescoping, service brake and engine throttle. Hot water cab heater and air conditioning (OPTIONAL).

Dash-mounted engine start/stop, monitor lamps, cigarette lighter ashtray, 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, main winch/auxiliary winch selector switch, swing stop cancel switch, slow elevation stop cancel switch and free swing / lock swing selector switch.

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 with audible and visual pre-warning.

Boom position indicator

Outrigger state indicator

Boom angle / boom length / jib offset angle / load radius / rated lifting capacities / actual loads read out Ratio of actual load moment to rated load moment indication

Automatic Speed Reduction and Soft Stop function on boom elevation and swing (swing range restricted 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.

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, drum indicator switch, jib equipped/removed select switch, boom emergency telescoping switch (2nd and 3rd-top) and air conditioning control switch. Swing lock lever.

NOTE: Each crane motion speed is based on unladen conditions

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 - 25 mph (40 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.

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: Electropneumatic operated exhaust brake.

TIRES - 29.5-25 22PR(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 23' 7-1/2" (7.2 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. Extension 9' 2-1/4" center to center Mid. Extension 18' 1/2" center to center Mid. Extension 21' 11-3/4" center to center Max. Extension 23' 7-1/2" center to center

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

ENGINE Model

Type Direct injection diesel No. of cylinders 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

Mitsubishi 6D16-TLEE

Fin and tube core, thermostat controlled Fan, in.(mm) Suction type, 6-blade, 23.6 (600) dia. Starting 24 volt 24 volt system, negative ground Charging 2-120 amp. Hour Battery Compressor, air, CFM(I /min) 9.2 CFM (260) at 2,800rpm Horsepower (kW) Gross 223 (166) at 2,700rpm Torque, Max. ft-lb (kgm) 521 (72) at 1,300rpm Capacity, gal.(liters) Cooling water 3.4 (13) Lubrication $3.7 \sim 4.2 (14 \sim 16)$ 79.2 (300) Fuel

Radiator



STANDARD EQUIPMENT

- Four section full power partially synchronized boom 36.1'~111.9' (11.0 m~34.1 m)
- 32.5'~58.1' (9.9 m~17.7 m) bi-fold lattice jib (tilt type) with 3.5°, 25° or 45° pinned offsets and self storing pins.
- Auxiliary lifting sheave (single top) stowable
- Variable speed main hoist with grooved drum, cable follower and 623' of 3/4" cable.
- Variable speed auxiliary hoist with grooved drum, cable follower and 367' of 3/4" cable.
- Drum rotation indicator (thumper type) main and auxiliary 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 and 360° positive swing lock
- Self centering finger 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 (right and left side)
- Mirror for main and auxiliary hoists
- Cigarette lighter and ashtray
- Electric fan in cab
- Cab floor mat
- Pump disconnect in operator's cab
- Hydraulic oil cooler

- Independently controlled outriggers
- Four 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
- Automatic rear axle oscillation lockout system
- 29.5-25 22PR (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
- 60 ton (54.4 metric ton) 5 sheave hook block
- 6.2 ton (5.6 metric ton) hook with swivel
- Towing hooks-Front and rear
- Lifting eyes
- Hook block tie down (front bumper)
- Weighted hook storage compartment

OPTIONAL EQUIPMENT

- Hot water cab heater and air conditioner
- Propane heater (less tank)

HOISTING PERFORMANCE

LINE SPEEDS AND PULLS

| | | Mair | or auxi | liary hois | t - 15'-3/ | 4" (0.4m) | drum |
|------------------|-------|---------|--------------------|------------|-------------------|-----------|---------|
| Layer | Speed | Line | peeds ² | | Line | pulis | |
| Layer | Speed | Lille S | peeus | Avail | able ¹ | Permi | ssible⁴ |
| | | F.P.M | m/min | Lbs. | kgf | Lbs. | kgf |
| 1st | High | 378 | 115 | 18,200 | 8,260 | 15,200 | 6,880 |
| 2nd | High | 413 | 126 | 16,700 | 7,570 | 13,900 | 6,310 |
| 3rd | High | 448 | 136 | 15,400 | 6,990 | 12,800 | 5,820 |
| 4th | High | 482 | 147 | 14,300 | 6,490 | 11,900 | 5,410 |
| 5th | High | 502 | 157 | 13,400 | 6,060 | 11,100 | 5,050 |
| 6th ³ | High | 551 168 | | 12,500 | 5,680 | 10,400 | 4,730 |
| 7th ³ | High | 585 | 178 | 11,800 | 5,350 | 9,800 | 4,460 |

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

DRUM WIRE ROPE CAPACITIES

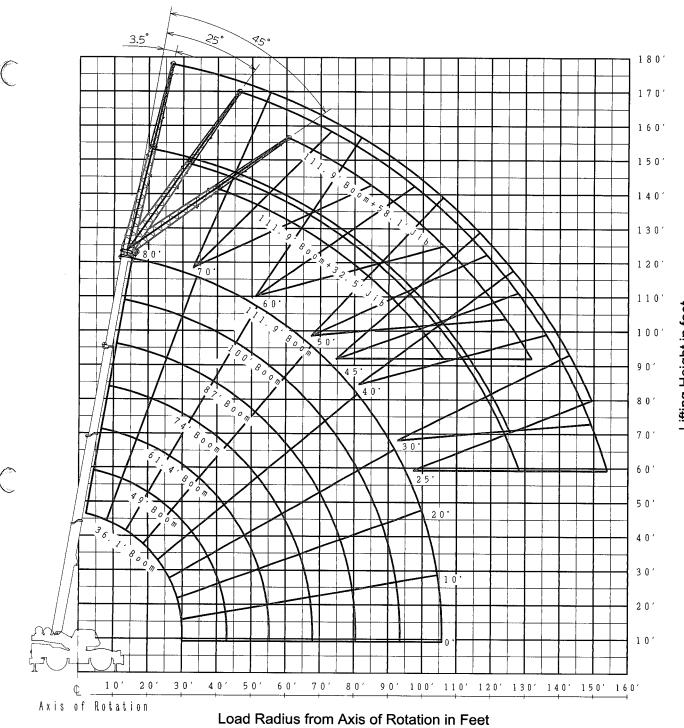
| Wire | Main | and auxiliary | drum grooved l | agging |
|-------|-------|---------------|----------------|--------|
| | | 3/4" (19mr | n) wire rope | |
| rope | Rope | per layer | Total wire | rope |
| layer | Feet | Meters | Feet | Meters |
| 1 | 123.0 | 37.5 | 123.0 | 37.5 |
| 2 | 134.2 | 40.9 | 257.2 | 78.4 |
| 3 | 145.3 | 44.3 | 402.6 | 122.7 |
| 4 | 156.5 | 47.7 | 559.1 | 170.4 |
| 5 | 167.7 | 51.1 | 726.7 | 221.5 |
| 6 | 178.8 | 54.5 | 905.5 | 276.0 |
| 7 | 190.0 | 57.9 | 1,095.5 | 333.9 |

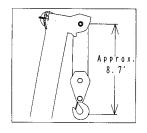
DRUM DIMENSIONS

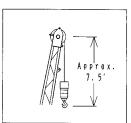
| | Inch | mm |
|-----------------|---------|-----|
| Root diameter | 15-3/4" | 400 |
| Length | 22-3/4" | 578 |
| Flange diameter | 27-3/8" | 695 |

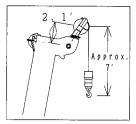


TR-600XL WORKING RANGE CHART





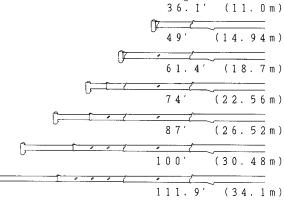




NOTE: 1.Boom and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface.

Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.

Boom Length in Feet





| | ON OUTRIGGERS FULLY EXTENDED 23' 7-1/2" (7.2m) SPREAD 360° ROTATION | | | | | | | | | | | | | |
|-----|---|---------|------|----------|------|---------|-------|----------|------|----------|------|----------|------|---------|
| | | | | | | 360 | ° ROT | ATION | 4 | | | | | |
| A | | 36.1' | | 49' | | 61.4' | | 74' | | 87' | | 100' | | 111.9' |
| В | С | (11.0m) | С | (14.94m) | С | (18.7m) | C | (22.56m) | C | (26.52m) | C | (30.48m) | С | (34.1m) |
| 10 | 67.0 | 120,000 | 73.6 | 90,600 | 77.2 | 68,300 | 79.4 | 40,700 | | | | | | |
| 12 | 63.2 | 107,000 | 71.2 | 90,600 | 75.3 | 68,300 | | 40,700 | 80.2 | 40,700 | | ı | | |
| 15 | 57.6 | 88,200 | 67.5 | 90,600 | 72.6 | 66,200 | 75.6 | 40,700 | 78.2 | 40,700 | 80.1 | 37,200 | | |
| 20 | 47.2 | 67,200 | | 65,300 | 67.6 | 55,700 | | 40,700 | 75.0 | 40,700 | 77.5 | 37,200 | 78.8 | 27,800 |
| 25 | 34.1 | 52,000 | 53.5 | 51,800 | 62.5 | 47,200 | 67.7 | 40,100 | 71.6 | 35,300 | 74.6 | 32,300 | 76.4 | 27,800 |
| 30 | 7.6 | 41,900 | 45.6 | 40,300 | 56.9 | 39,300 | 63.4 | 34,600 | 68.1 | 30,300 | 71.5 | 27,600 | 73.8 | 24,400 |
| 35 | | | 35.9 | 32,400 | 51.0 | 31,900 | 59.0 | 30,300 | 64.4 | 26,400 | 68.6 | 24,000 | 71.2 | 21,600 |
| 40 | | | 22.3 | 25,000 | 44.3 | 24,800 | 54.2 | 25,100 | 60.6 | 23,300 | 65.5 | 21,100 | 68.5 | 19,400 |
| 45 | | | | | 36.6 | 19,700 | 49.1 | 20,500 | 56.8 | 20,000 | 62.1 | 18,600 | 65.7 | 17,300 |
| 50 | | | | | 27.1 | 16,000 | 43.3 | 17,400 | 52.6 | 17,200 | 58.8 | 16,500 | 62.9 | 16,000 |
| 55 | | | | | 9.3 | 13,000 | 36.9 | 14,300 | 48.0 | 14,900 | 55.3 | 14,800 | 59.9 | 14,400 |
| 60 | | | | | | | 29.2 | 11,800 | 43.1 | 12,600 | 51.5 | 13,100 | 56.8 | 12,500 |
| 65 | | | | | | | 18.7 | 9,800 | 37.8 | 10,600 | 47.4 | 11,200 | 53.5 | 11,100 |
| 70 | | | | | | | | | 31.5 | 8,900 | 43.1 | 9,500 | 49.9 | 9,900 |
| 75 | | | | | | | | | 23.8 | 7,500 | 38.5 | 8,100 | 46.1 | 8,500 |
| 80 | | | | | | | | | 11.4 | 6,400 | 33.1 | 6,900 | 42.2 | 7,300 |
| 85 | | | | | | | | 1.1871 | | | 26.9 | 5,900 | 37.7 | 6,300 |
| 90 | | | | | | | | | | | 18.9 | 5,000 | 33.0 | 5,400 |
| 95 | | | | | | | | | | | | | 27.5 | 4,600 |
| 100 | | | | | | | | | | | | | 20.9 | 4,100 |
| 105 | | | | | | | | | | - 31 | | | 10.0 | 3,500 |
| D | | | | | | | | 0° | | | | | · | |

| | LI | FTING CA | PACIT | IES AT Z | ERO D | EGREE E | OOM A | ANGLE O | N OUT | RIGGERS | S FULL | Y EXTEN | DED | |
|---|--|----------|-------|----------|-------|---------|-------|---------|-------|---------|--------|---------|-----|--|
| | 23' 7-1/2" (7.2m) SPREAD 360° ROTATION | | | | | | | | | | | | | |
| \ A | A 36.1' 49' 61.4' 74' 87' 100' 111.9' | | | | | | | | | | | | | |
| C B (11.0m) B (14.94m) B (18.7m) B (22.56m) B (26.52m) B (30.48m) B (34.1m) | | | | | | | | | | | | | | |
| 0 | 0 30.0 41,900 42.9 21,700 55.3 12,900 67.9 9,000 80.9 6,300 93.9 4,500 105.8 3,500 | | | | | | | | | | | | | |

A :Boom length in feet B :Load radius in feet

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

| | | | 0 | N OUTRI | GGER | S MID EX | TENDE | D 21' 11- | 3/4" (6 | .7m) SPR | EAD | | | |
|-----|------|---------|------|----------|------|----------|-------|--------------|---------|----------|------|----------|------|---------|
| | | | | | | | ° ROT | | | | | | | |
| A | | 36.1' | | 49' | | 61.4' | | 74' | | 87' | | 100' | | 111.9' |
| В | С | (11.0m) | С | (14.94m) | | (18.7m) | С | (22.56m) | С | (26.52m) | С | (30.48m) | ပ | (34.1m) |
| 10 | 67.0 | 120,000 | 73.6 | 90,600 | 77.2 | 68,300 | | 40,700 | | | | | | |
| 12 | 63.2 | 107,000 | 71.2 | 90,600 | 75.3 | 68,300 | | 40,700 | 80.2 | 40,700 | | | | |
| 15 | 57.6 | 88,200 | 67.5 | 90,600 | 72.6 | 66,200 | | 40,700 | 78.2 | 40,700 | 80.1 | 37,200 | | |
| 20 | 47.2 | 67,200 | 60.9 | 65,300 | 67.6 | 55,700 | 71.7 | 40,700 | 75.0 | 40,700 | 77.5 | 37,200 | 78.8 | 27,800 |
| 25 | 34.2 | 50,500 | 53.6 | 48,000 | 62.5 | 47,200 | 67.7 | 40,100 | 71.6 | 35,300 | 74.6 | 32,300 | 76.4 | 27,800 |
| 30 | 7.8 | 34,000 | 45.4 | 35,100 | 56.9 | 34,400 | 63.4 | 34,600 | 68.1 | 30,300 | 71.5 | 27,600 | 73.8 | 24,400 |
| 35 | | | 35.8 | 26,200 | 51.0 | 25,600 | 58.9 | 27,800 | 64.4 | 26,400 | 68.6 | 24,000 | 71.2 | 21,600 |
| 40 | | | 22.9 | 19,900 | 44.1 | 19,700 | 54.1 | 21,600 | 60.6 | 22,200 | 65.5 | 21,100 | 68.5 | 19,400 |
| 45 | | | | | 36.4 | 15,500 | 49.0 | 17,100 | 56.7 | 17,800 | 62.1 | 18,600 | 65.7 | 17,300 |
| 50 | | | | | 26.6 | 12,200 | 43.3 | 13,700 | 52.5 | 14,500 | 58.6 | 15,200 | 62.8 | 15,200 |
| 55 | | | | | 8.3 | 9,600 | 36.8 | 11,100 | 47.9 | 11,800 | 55.1 | 12,500 | 59.8 | 12,800 |
| 60 | | | | | | | 29.1 | 8,900 | 43.0 | 9,600 | 51.2 | 10,300 | 56.6 | 10,700 |
| 65 | | | | | | | 18.8 | 7,200 | 37.6 | 7,900 | 47.2 | 8,600 | 53.1 | 8,900 |
| 70 | | | | | | | | | 31.3 | 6,500 | 42.8 | 7,100 | 49.6 | 7,500 |
| 75 | | | | | | | | | 23.6 | 5,300 | 38.1 | 5,900 | 45.8 | 6,200 |
| 80 | | | | | | | | | 11.0 | 4,300 | 32.8 | 4,900 | 41.9 | 5,200 |
| 85 | | | | | | | | Special Con- | | | 26.5 | 4,000 | 37.5 | 4,300 |
| 90 | | | | | | | | | | | 18.4 | 3,200 | 32.7 | 3,500 |
| 95 | | | | | | | | 1 (1) | | | | | 27.2 | 2,800 |
| 100 | | | | | | | | | | | | | 19.8 | 2,200 |
| 105 | | | | | | • | | | | | | | 10.3 | 1,700 |
| D | | | | | | | | 0° | | | | | | |

| | ı | IFTING C | APAC | ITIES AT | ZERO | DEGREE | воом | ANGLE | ON OU | TRIGGEF | RS MID | EXTEND | ED | |
|-----|---|----------|------|----------|------|--------|------|-------|-------|---------|--------|--------|-------|-------|
| | 21' 11-3/4" (6.7m) SPREAD 360° ROTATION | | | | | | | | | | | | | |
| A | A 36.1' 49' 61.4' 74' 87' 100' 111.9' | | | | | | | | | | | | | |
| C \ | C B (11.0m) B (14.94m) B (18.7m) B (22.56m) B (26.52m) B (30.48m) B (34.1m) | | | | | | | | | | | | | |
| 0 | 30.0 | 34,000 | 42.9 | 17,300 | 55.3 | 9,600 | 67.9 | 6,600 | 80.9 | 4,200 | 93.9 | 2,800 | 105.8 | 1,600 |

A :Boom length in feet B :Load radius in feet

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



| ļ | | | | ON OUTR | IGGEF | RS MID EX | KTEND | ED 18' 1/ | 2" (5.5) | n) SPREA | ND. | | | |
|----|------|---------|---------------|----------|-------|-----------|-------|-----------|----------|----------|------|----------|------|---------|
| | | | | | | | ROT/ | | _ (0.0. | , 0. 1,0 | | | | |
| A | | 36.1' | | 49' | | 61.4' | | 74' | 1.5. | 87' | | 100' | | 111.9' |
| В | С | (11.0m) | | (14.94m) | | (18.7m) | С | (22.56m) | С | (26.52m) | С | (30.48m) | С | (34.1m) |
| 10 | 67.0 | 120,000 | 73.6 | 90,600 | 77.2 | 68,300 | 79.4 | 40,700 | | | | | | |
| 12 | 63.2 | 107,000 | 71.2 | 90,600 | 75.3 | 68,300 | 77.9 | 40,700 | 80.2 | 40,700 | | | | |
| 15 | 57.6 | 88,200 | 67.5 | 90,600 | 72.6 | 66,200 | 75.6 | 40,700 | 78.2 | 40,700 | 80.1 | 37,200 | | |
| 20 | 47.2 | 55,400 | 60.8 | 54,500 | 67.5 | 54,000 | 71.7 | 40,700 | 75.0 | 40,700 | 77.5 | 37,200 | 78.8 | 27,800 |
| 25 | 34.0 | 36,100 | 53.5 | 35,500 | 62.2 | 35,300 | 67.7 | 37,000 | 71.6 | 35,300 | 74.6 | 32,300 | 76.4 | 27,800 |
| 30 | 7.8 | 24,800 | 45.5 | 25,100 | 56.7 | 25,000 | 63.3 | 26,600 | 68.0 | 27,600 | 71.5 | 27,600 | 73.8 | 24,400 |
| 35 | - | | 35.7 | 18,600 | 50.8 | 18,500 | 58.7 | 20,000 | 64.3 | 20,900 | 68.4 | 21,800 | 71.2 | 21,600 |
| 40 | | | 22.6 | 14,200 | 43.9 | 14,100 | 53.9 | 15,500 | 60.4 | 16,300 | 65.1 | 17,100 | 68.3 | 17,500 |
| 45 | | | | | 36.3 | 10,700 | 48.8 | 12,100 | 56.5 | 12,900 | 61.8 | 13,600 | 65.4 | 14,000 |
| 50 | | | | 200 | 26.6 | 8,100 | 43.1 | 9,400 | 52.2 | 10,200 | 58.4 | 10,900 | 62.5 | 11,300 |
| 55 | | | | | 8.7 | 6,100 | 36.8 | 7,300 | 47.7 | 8,100 | 54.8 | 8,800 | 59.3 | 9,100 |
| 60 | | | | | | | 29.0 | 5,700 | 42.8 | 6,400 | 51.0 | 7,000 | 56.1 | 7,400 |
| 65 | | | <u> </u> | | | | 18.5 | 4,300 | 37.3 | 5,000 | 46.9 | 5,600 | 52.8 | 6,000 |
| 70 | | | | | | | | | 31.0 | 3,900 | 42.7 | 4,500 | 49.3 | 4,800 |
| 75 | | | | | | | | | 23.3 | 2,900 | 38.0 | 3,500 | 45.6 | 3,800 |
| 80 | | | | | | | | | 10.5 | 2,100 | 32.7 | 2,600 | 41.7 | 3,000 |
| 85 | | | | | | | | | | | 26.6 | 1,900 | 37.4 | 2,300 |
| 90 | | | | | | | | | | | 18.6 | 1,300 | 32.6 | 1,600 |
| 95 | | | . | | | | ليسب | | | | | | 27.1 | 1,100 |
| D | | | | | | 0° | 4 .4 | | | | | | | 26° |

| | LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS | | | | | | | | | | | | |
|-----|---|--|-----|--|-------|--|-----|--|-----|----|------|--|--|
| | MID EXTENDED 18' 1/2" (5.5m) SPREAD 360° ROTATION | | | | | | | | | | | | |
| \ A | 36.1' | | 49' | | 61.4' | | 74' | | 87' | Ī. | 100' | | |
| c | C B (11.0m) B (14.94m) B (18.7m) B (22.56m) B (26.52m) B (30.48m) | | | | | | | | | | | | |
| | 0 30.0 24,800 42.9 12,100 55.3 6,100 67.9 3,900 80.9 2,000 93.9 1,100 | | | | | | | | | | | | |

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

| | | | ON | OUTRIG | GERS | | | | -1/4" (2 | .8m) SPR | EAD | | , | |
|----|-------------|---------|------|----------|------|---------|------|----------|----------|----------|------|----------|------|----------|
| | | | | | | 360° | ROT/ | NOITA | | | | | | |
| A | | 36.1' | | 49' | | 61.4' | | 74' | | 87' | | 100' | | 111.9' |
| B | С | (11.0m) | С | (14.94m) | С | (18.7m) | С | (22.56m) | С | (26.52m) | С | (30.48m) | C | (34.1m) |
| 10 | 66.8 | 66,000 | 73.5 | 66,000 | 77.1 | 65,000 | 79.6 | 40,700 | | | | | | <u> </u> |
| 12 | 63.1 | 48,900 | 70.9 | 48,900 | 75.1 | 48,300 | 78.1 | 40,700 | 80.3 | 40,700 | | | | |
| 15 | 57.4 | 33,600 | 67.1 | 33,500 | 72.2 | 33,100 | 75.7 | 35,200 | 78.3 | 35,400 | 80.0 | 23,300 | | |
| 20 | 47.0 | 20,400 | 60.5 | 20,200 | 67.1 | 20,000 | 71.5 | 21,600 | 74.7 | 22,600 | 77.2 | 23,300 | 78.9 | 16,500 |
| 25 | 33.8 | 13,300 | 53.3 | 13,200 | 61.9 | 13,000 | 67.2 | 14,400 | 71.1 | 15,300 | 74.1 | 16,000 | | 16,500 |
| 30 | 7.7 | 8,700 | | 8,700 | 56.5 | 8,600 | 62.8 | 10,000 | 67.5 | 10,800 | 71.0 | 11,500 | | 11,900 |
| 35 | | | 35.7 | 5,600 | 50.5 | 5,500 | 58.2 | 6,800 | 63.7 | 7,600 | | 8,200 | 70.8 | 8,600 |
| 40 | | | 22.5 | 3,300 | 43.8 | 3,200 | 53.4 | 4,400 | 59.9 | 5,200 | 64.5 | 5,800 | 67.9 | 6,200 |
| 45 | | | | | 36.2 | 1,400 | 48.2 | 2,700 | 55.8 | 3,400 | 61.2 | 4,000 | 65.0 | 4,400 |
| 50 | | | | | | | 42.6 | 1,300 | 51.6 | 2,000 | 57.7 | 2,600 | 62.0 | 3,000 |
| 55 | | | | | | | | | | | 54.1 | 1,500 | 58.9 | 1,800 |
| | D 0° | | | | | 31° | | 38° | | 46° | | 52° | | 56° |

| LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| A | FULLY RETRACTED 9' 2-1/4" (2.8m) SPREAD 360° ROTATION A 36.1' 49' | | | | | | | | | | | | | |
| c T | C B (11.0m) B (14.94m) | | | | | | | | | | | | | |
| 0 | 0 30.0 8,700 42.9 2,900 | | | | | | | | | | | | | |

- A :Boom length in feet B :Load radius in feet

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



| _ | <u></u> | 711.0 (04) | 1111) 1500 | 111 + 32.3 | (9.9m) Ji | b | -1/2" (7.2m) SPREAD 360° ROTATION 111.9' (34.1m) Boom + 58.1' (17.7m) Jib | | | | | | |
|-----|---------|------------|------------|------------|-----------|------------|--|-------------|-------|------------|----------------------|-------------|--|
| С | | offset | 25° offset | | 45° | 45° offset | | 3.5° offset | | 25° offset | | | |
| | R | W | R | W | R | W | R | W | R | | | offset | |
| 80° | 25.8 | 12,300 | 36.8 | 11,000 | 44.5 | 8,400 | 33.4 | 7,900 | | W | R | W | |
| 75° | 39.4 | 12,300 | 49.4 | 10,200 | 56.2 | 8,200 | | | 53.9 | 6,000 | 67.3 | 4,400 | |
| 70° | 52.3 | 11,800 | 61.2 | | | | 50.2 | 7,900 | 68.1 | 5,300 | 79.7 | 4,100 | |
| 65° | 63.7 | | | 8,700 | 67.0 | 7,300 | 65.3 | 7,200 | 81.2 | 4,800 | 91.1 | 3,900 | |
| | | 9,600 | 71.9 | 7,700 | 76.6 | 6,700 | 78.8 | 6,300 | 94.0 | 4,400 | 101.9 | 3,700 | |
| 60° | 74.6 | 8,000 | 82.1 | 6,800 | 86.5 | 6,100 | 91.6 | 5,300 | 105.4 | 3,900 | 111.8 | | |
| 55° | 84.8 | 6,900 | 91.6 | 6,000 | 95.3 | 5,600 | 103.9 | 4,600 | 116.0 | | | 3,400 | |
| 50° | 94.1 | 5,600 | 100.2 | 5,200 | 103.5 | 4,900 | 114.6 | | | 3,600 | 120.8 | 3,200 | |
| 45° | 102.6 | 4.500 | 108.0 | 4,200 | 110.5 | | | 4,000 | 125.2 | 3,300 | 128.7 | 3,000 | |
| 40° | 110.2 | 3,600 | 115.0 | | 110.5 | 4,000 | 124.1 | 3,000 | 133.6 | 2,800 | 135.8 | 2,450 | |
| 35° | 117.2 | | | 3,400 | | | 132.7 | 2,300 | 140.7 | 2,200 | | | |
| | | 2,900 | 121.4 | 2,850 | | T | 140.4 | 1,800 | 147.3 | 1,700 | (11711) | | |
| 30° | 123.3 | 2,400 | 126.8 | 2,350 | | | 147.3 | 1,300 | 152.8 | 1,300 | | | |
| 25° | 128.7 | 2,000 | 131.0 | 2,050 | | | 153.3 | 1,000 | 157.1 | 1,000 | | | |

| С | :Loaded | boom | angle | (dea.) |
|---|---------|------|-------|--------|
|---|---------|------|-------|--------|

R :Load radius in feet

W :Rated lifting capacity in pounds

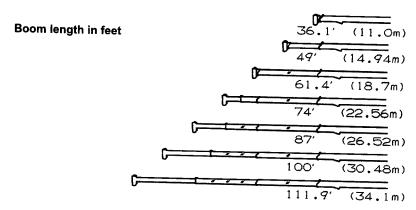
| | | ON OUT | RIGGE | RS MID EX | TENDE | D 21' 11-3 | /4" (6.7r | n) SPREA | D 360° I | POTATIO | · · · · · · | | | |
|-----|-------|--------|------------|-------------|----------|------------|---|-------------|----------|------------|-------------|-------------|--|--|
| | | | TITITY DOL | JIII T 32.0 | (9.9m) J | ib | 3/4" (6.7m) SPREAD 360° ROTATION 111.9' (34.1m) Boom + 58.1' (17.7m) Jib | | | | | | | |
| . С | | offset | 25° | offset | 45° | 45° offset | | 3.5° offset | | 25° offset | | 45° offset | | |
| | R | W | R | W | R | W | R | W | R | W | | | | |
| 80° | 25.8 | 12,300 | 36.8 | 11,000 | 44.5 | 8,400 | | 7,900 | | | R | W | | |
| 75° | 39.4 | 12,300 | 49.4 | 10,200 | 56.2 | 8,200 | 50.2 | | | 6,000 | 67.3 | 4,400 | | |
| 70° | 52.3 | 11,800 | 61.2 | 8,700 | 67.0 | 7,300 | | 7,900 | | 5,300 | 79.7 | 4,100 | | |
| 65° | 63.7 | 9,600 | | | | | 65.3 | 7,200 | 81.2 | 4,800 | 91.1 | 3,900 | | |
| 60° | 74.2 | | | 7,700 | | 6,700 | 78.8 | 6,300 | 94.0 | 4,400 | 101.9 | 3,700 | | |
| | | 7,400 | 82.1 | 6,500 | 86.5 | 6,100 | 91.4 | 5,100 | 105.4 | 3,900 | 111.8 | 3,400 | | |
| 55° | 84.1 | 5,500 | 91.2 | 5,000 | 94.8 | 4,800 | 103.0 | 3,700 | 115.4 | 3,200 | | | | |
| 50° | 93.4 | 4,100 | 99.7 | 3,800 | 102.7 | 3,600 | 113.3 | | | | 120.8 | 3,000 | | |
| 45° | 101.7 | 3,100 | 107.5 | 2,800 | 109.9 | | | 2,600 | 124.5 | 2,300 | 128.3 | 2,200 | | |
| 40° | 109.7 | 2,300 | 114.5 | 2,100 | 105.5 | 2,700 | 122.7 | 1,800 | 132.5 | 1,600 | 135.5 | 1,500 | | |
| 35° | 116.7 | 1,700 | | | | | 131.8 | 1,200 | 140.2 | 1,000 | | | | |
| | | | 120.9 | 1,600 | | | | | | | | | | |
| 30° | 122.8 | 1,200 | 126.2 | 1,200 | | 7 | | | | | | | | |

C :Loaded boom angle (deg.)

W :Rated lifting capacity in pounds

| C | 0.56 | 1113 (34. | 1111) 500 | 111 + 32.5 | (9.9m) Ji | D | 2" (5.5m) SPREAD 360° ROTATION 111.9' (34.1m) Boom + 58.1' (17.7m) Jib | | | | | | |
|-----|-------------|-----------|------------|------------|-----------|--------|---|-------|------------|-------|------------|-------|--|
| Ų. | 3.5° offset | | 25° offset | | 45° | offset | 3.5° offset | | 25° offset | | 45° offset | | |
| 000 | R | W | R | W | R | W | R | W | R | W | R | W | |
| 80° | 25.8 | 12,300 | 36.8 | 11,000 | 44.5 | 8,400 | 33.4 | 7,900 | 53.9 | 6,000 | 67.3 | | |
| 75° | 39.4 | 12,300 | 49.4 | 10,200 | 56.2 | 8,200 | 50.2 | 7,900 | 68.1 | | | 4,40 | |
| 70° | 51.6 | 10,500 | 61.2 | 8,700 | | 7,300 | | | | 5,300 | 79.7 | 4,10 | |
| 65° | 62.7 | 7.300 | 71.1 | | | | 65.3 | 7,200 | 81.2 | 4,800 | 91.1 | 3,900 | |
| | | | | 6,200 | 76.3 | 5,800 | 78.3 | 5,400 | 93.8 | 4,200 | 101.9 | 3,70 | |
| 60° | 73.2 | 5,100 | 81.1 | 4,400 | 85.6 | 4,200 | 89.9 | 3,600 | 104.5 | 2,900 | 111.4 | 2,700 | |
| 55° | 83.2 | 3,600 | 90.3 | 3,200 | 94.3 | 3,000 | 101.3 | 2,300 | 114.2 | | | | |
| 50° | 92.7 | 2,400 | 98.8 | 2,200 | 102.3 | 2,100 | 112.0 | | | 1,800 | 120.0 | 1,800 | |
| 45° | 101.2 | 1,500 | 106.8 | 1,400 | 109.3 | | 112.0 | 1,300 | 123.4 | 1,100 | 127.8 | 1,100 | |
| | | ,000 | .00.0 | 1,400 | 109.3 | 1,400 | | | | | | | |

C :Loaded boom angle (deg.)



NOTE: Load radiuses for jib operation are given for reference with the boom fully extended to 111.9' (34.1m).

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

| i | Boom Length in Feet | ine for outrigger | operation should | d be according to | the following tab | ıle |
|-----|-------------------------|-------------------|------------------|-------------------|-------------------|-----|
| | - com Longar iii i cet | 36.1' | 36.1' to 49' | 49' to 61.4' | Single top | ľ |
| | (meters) | (11) | (11 to 14.94) | (14.94 to 18.7) | iib | ı |
| | Number of a set of the | | | 11.04 10 10.7) | Jib | ĺ |
| - 1 | Number of parts of line | 10 | 6 | 4 | 1 | |
| • | | | | | • | |

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).



R :Load radius in feet

R :Load radius in feet

W :Rated lifting capacity in pounds



WARNING AND OPERATING INSTRUCTIONS FOR LIFTING CAPACITIES

GENERAL

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

SET UP

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

OPERATION

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

- When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.
- Load per line should not exceed 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-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 (12,300 lbs.) x number of parts of line.
- 13. The boom angle before loading should be greater to account for deflection. For rated lifting capacities, the loaded boom angle and the load radius is for reference only.
- 14. The 36.1' (11.0m) boom length capacities are based on boom fully retracted. If not fully retracted [less than 49'(14.94m) boom length, use the rated lifting capacities for the 49' (14.94m) 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, reduce the rated lifting capacities of relevant boom according to a weight reductions for auxiliary load handling equipment. Capacities of single top shall not exceed 12,300 lbs. (5,600kg) including main hook.
- When base jib or top jib or both jib removing, jib state switch select removed.
- When erecting and stowing jib, be sure to retain it by hand or by other means to prevent its free movement.
- Use "ANTI-TWO BLOCK" disable switch when erecting and stowing jib and when stowing hook block. While the switch is pushed, the hoist does not stop, even when overwind condition occurs.
- 20. For boom length with 32.5' (9.9m) jib, rated lifting capacities are determined by loaded boom angle only in the column headed "111.9' (34.1m) boom + 32.5' (9.9m) jib". For boom length with 58.1' (17.7 m) jib, rated lifting capacities are determined by loaded boom angle only in the column headed "111.9' (34.1m) boom + 58.1' (17.7m) jib". For angles not shown, use the next lower loaded boom angle to determine allowable capacity.
- 21. When lifting a load by using jib (aux. winch) and boom (main winch) simultaneously, do the following:
 - Enter the operation status as jib operation, not as boom operation.
 - Before starting operation, make sure that mass of load is within rated lifting capacity for jib.

DEFINITIONS

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



| | | | | | | ON RUE | BER | | | TI | RE : 2 | 9.5-25 22 | PR | | | | | |
|---------------------|------|---------|------|---------|------|----------|------------|---------------|------|---------|--------------|-------------|------|---------|------|---------|------|----------|
| | | | | | | Stati | Stationary | | | | | Creep | | | | | | |
| \ A | | | OVER | FRONT | | | | 360° ROTATION | | | | | | | OVEF | R FRONT | | |
| $ \cdot \rangle$ | | 36.1' | | 61.4 | | 87' | | 36.1' | | 61.4' | | 87' | | 36.1' | | 61.4' | | 87' |
| B | С | (11.0m) | С | (18.7m) | С | (26.52m) | С | (11.0m) | С | (18.7m) | С | (26.52m) | С | (11.0m) | С | (18.7m) | С | (26.52m) |
| 10 | 66.7 | 67,200 | | | | | 66.7 | 40,000 | | | | | 66.7 | 50,000 | | | | |
| 12 | 63.0 | 58,600 | | | | | 63.0 | 33,200 | | | | | 62.9 | 45,600 | | | | |
| | 57.4 | 48,500 | 72.2 | 34,100 | | | 57.4 | 24,400 | | 21,900 | | - 18-1. | 57.4 | 39,600 | 72.2 | 34,100 | | |
| 20 | 47.0 | 34,500 | 67.2 | 30,000 | 74.7 | 20,700 | 46.9 | 14,700 | 67.1 | 13,900 | 74.3 | 15,900 | 47.0 | 30,600 | 67.2 | 30,000 | 74.7 | 20,700 |
| 25 | 33.9 | 23,900 | 62.0 | 23,100 | 71.2 | 20,700 | 33.4 | 9,600 | 61.8 | 9,000 | 70.8 | 10,700 | 33.9 | 23,900 | 62.0 | 23,100 | 71.2 | 20,700 |
| 30 | 7.7 | 17,100 | 56.6 | 16,600 | 67.6 | 17,600 | 7.8 | 6,100 | 56.4 | 5,700 | 67.3 | 7,300 | 7.7 | 17,100 | 56.6 | 16,200 | 67.6 | 17,600 |
| 35 | | | 50.5 | 12,400 | 64.0 | 14,200 | | | 50.5 | 3,300 | | 4,800 | | | 50.5 | 12,400 | 64.0 | 14,200 |
| 40 | | | 44.0 | 9,300 | 60.2 | 11,000 | | | 43.7 | 1,600 | 59.8 | 3,000 | | | 44.0 | 9,300 | 60.2 | 11,000 |
| 45 | | | 36.3 | 6,900 | 56.3 | 8,600 | | | | | 55.9 | 1,700 | | | 36.3 | 6,900 | 56.3 | 8,600 |
| 50 | | | 26.4 | 5,000 | 52.1 | 6,700 | | | | | | | | | 26.4 | 5,000 | 52.1 | 6,700 |
| 55 | | V 1 | 8.7 | 3,600 | 47.5 | 5,300 | | | | | | | | | 8.7 | 3,600 | 47.5 | 5,300 |
| 60 | | | | | 42.5 | 4,000 | | | | | | | | | | | 42.5 | 4,000 |
| 65 | | | | | 37.3 | 3,000 | | 1.0 | | | (m. fr. sec) | 1.00 | | | | | 37.3 | 3,000 |
| 70 | | | | | 30.9 | 2,200 | | | | | | | | | | | 30.9 | 2,200 |
| D | | C |)° | | | 20° | | 0° | | 41° | | 54° | | (|)° | | | 20° |

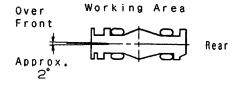
| Г | | | | | LIFTIN | G CAPACITIES | AT Z | ERO DEC | REE BOOM ANGLE ON RUBE | BER C | PERATIC | N . | | |
|----------|-----|------|---------|------|---------|--------------|-----------------|---------|------------------------|-------|---------|------|---------|--|
| Γ | | | | | - | Stati | Stationary Cree | | | | | геер | | |
| 1 | A | | | | | | | | 60° ROTATION | 3.74 | | OVER | RFRONT | |
| ĺ | \[| | 36.1' | | 61.4' | | | 36.1' | | 2.72 | 36.1' | | 61.4' | |
| C | : \ | В | (11.0m) | В | (18.7m) | | В | (11.0m) | | В | (11.0m) | В | (18.7m) | |
| | 0 | 30.0 | 17,100 | 55.3 | 3,500 | | 30.0 | 6,100 | | 30.0 | 17,100 | 55.3 | 3,500 | |

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

NOTE: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 87' | Single top |
|-------------------------|-------|---------------|------------|
| (meters) | (11) | (11 to 26.52) | |
| Number of parts of line | 6 | 4 | 1 |

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



WARNING AND OPERATING INSTRUCTIONS FOR ON RUBBER LIFTING CAPACITIES

- 1.Rated lifting capacities on rubber are in pounds and do not exceed 75 % of tipping loads as determined by SAE J765-Crane Stability Test Code.
- 2.Rated lifting capacities shown in the chart are based on condition that crane is set on firm level surfaces with axle oscillation lockout 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.
- 3.If the axle oscillation lockout cylinders contain air, the axle will not be locked completely and rated lifting capacities may not be obtainable. Bleed the cylinders according to the operation safety and maintenance manual.
- 4.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

| o shan be iniliated to e | orreot an pressure. |
|------------------------------|-----------------------------------|
| Tires | Air Pressure |
| 29.5-25 22PR | 60 psi (4.2 kgf/cm ²) |

- 6. Over front operation shall be performed within two degrees in front of chassis.
- On rubber lifting with "jib" is not permitted. Maximum permissible boom length is 87 ft. (26.52m).
- 8. When making lift on rubber stationary, set parking brake.
- For creep operation, boom must be centered over front of machine, swing lock engaged, and load restrained from swinging. Travel slowly and keep the lifted load as close to the ground as possible, and especially avoid any abrupt steering, accelerating or braking.
- 10. Do not operate the crane while carrying the load.
- 11. Creep is motion for crane not to travel more than 200 ft. (60 m) in any 30 minute period and to travel at the speed of less than 1mph (1.6km/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:

Set P.T.O. switch to "ON".

Press the outrigger mode select key to register for the outrigger operation. Press the set key, then the outrigger mode indicative symbol changes from flickering to lighting. Press the boom mode select key to register the boom mode, then the boom mode indicative symbol changes from lighting to flickering. Each time the boom mode select key is pressed, the mode changes. Press the set key to select the status that corresponds to the actual state of the boom, then the boom mode indicative symbol changes from flickering

When erecting and stowing jib, select the status of jib set (jib state indicative symbol flicker).

2. When operating crane on rubber:

Set P.T.O. switch to "ON".

Press the outrigger mode select key. The on-tire mode indicative symbol comes on. Each time the outrigger mode select key is pressed the mode changes. Select the creep operation, the on-tire mode indicative symbol flicker.

Press the boom mode select key to register the boom mode.

However, pay attention to the following.

(1) For stationary operation.

The front capacities are attainable only when the over front position symbol comes on. When the boom is more than 2 degrees from centered over front of chassis, 360° capacities are in effect.

When a load is lifted in the front position and then swung to the side area, make sure the value of the LOAD MOMENT INDICATOR(AML-L) is below the 360o 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.

- 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 tire, operating speed, side loads, etc.
 - For safe operation, it is recommended when extending and lowering boom or swinging, lifting loads shall be appropriately reduced.
- 6. LOAD MOMENT INDICATOR (AML-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.
- 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.

TR-600XL- 4 Axle weight distribution chart

| | | Pounds | | | Kilograms | |
|--|--------|--------|--------|--------|-----------|--------|
| | GVW | Front | Rear | GVW | Front | Rear |
| Base machine | 92,387 | 48,438 | 43,949 | 41,906 | 21,971 | 19,935 |
| Remove: 1. 6.2 ton (5.6 metric ton) hook ball | -289 | -403 | 115 | -131 | -183 | 52 |
| 2. Top jib (25.6') | -677 | -791 | 115 | -307 | -359 | 52 |
| 3. Base jib (32.5') | -1,832 | -3,344 | 1,512 | -831 | -1,517 | 686 |
| Auxiliary lifting sheave | -110 | -311 | 201 | -50 | -141 | 91 |
| 5. 60 ton (54.4 metric ton) hook block | -1,049 | -1,894 | 844 | -476 | -859 | 383 |
| Option: 1 Hot water cab heater and air conditioner | 214 | 68 | 146 | 97 | 31 | 66 |