

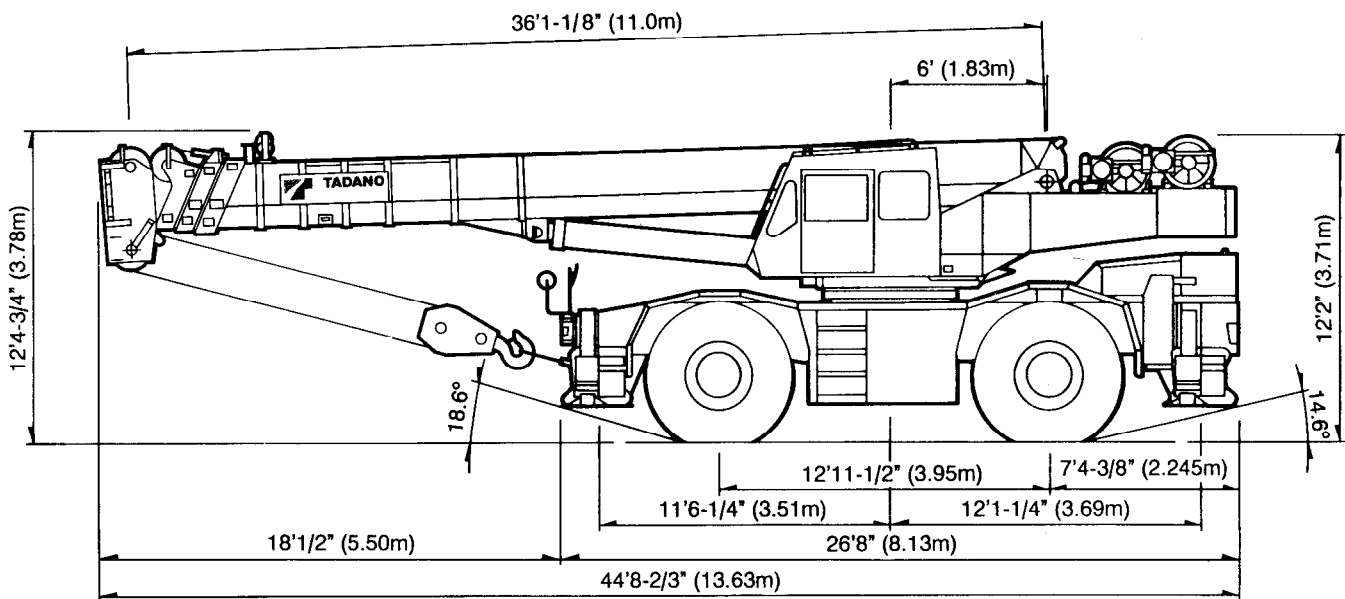


# TR-600XL-3

60 Ton Capacity (54.4 Metric Tons)

## HYDRAULIC ROUGH TERRAIN CRANE

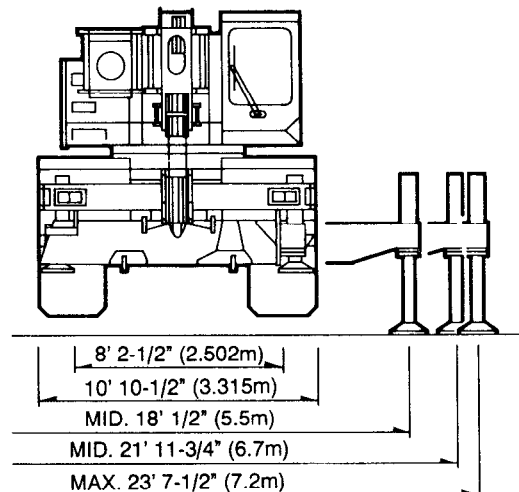
### DIMENSIONS



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

### GENERAL DIMENSIONS (29.5x25 Tires)

	Feet	Meters
Turning radius:		
4 wheel steer	21' 11-3/4"	6.7
2 wheel steer	39' 1/2"	11.9
Tail swing of counterweight	13' 6-1/4"	4.12



Specifications are subject to change without notice.

# CRANE SPECIFICATIONS

## BOOM

Four section full power partially synchronized telescoping boom of hexagonal box construction 36.1'~114.8' (11.0m~35.0m) with five sheaves, 17-1/4" (0.438m) root diameter, at boom head. The synchronization system consists of two telescope cylinders fitted with holding valves, an extension cable and retraction cable. Two easily removable wire rope guards, rope dead end provided on right side of boom head. Boom telescope sections are supported by wear pads both vertically and horizontally.

**BOOM ELEVATION** - By a double acting hydraulic cylinder with holding valve. Elevation -1.5°~80°, combination controls for hand or foot operation. Boom angle indicator.

**JIB** - Box top section telescopes from lattice type base section which stores alongside base boom section. 5° or 30° offset (tilt type). Single sheave, 17-1/4" (0.438m) root diameter, at jib head. Jib length is 32.2' (9.8m) or 56.1' (17.1m).

**AUXILIARY LIFTING SHEAVE (SINGLE TOP)** - Single sheave, 17-1/4" (0.438m) 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 2.4rpm. Equipped with manually locked/released swing brake. A swing lock (360° positive swing lock) for pick and carry and travel modes, manually engaged in cab.

## 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" (0.400m) root diameter × 22-3/4" (0.578m) wide. Wire rope: 672' of 3/4" diameter rope (205m of 19mm). Drum capacity: 905' (276m) 6 layers. Maximum line pull (permissible): 14,272lbs. (6,474kg)\*. Maximum line speed: 525FPM (160m/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 from main hoist. Equipped with cable follower and drum rotation indicator.

**DRUM** - Grooved 15-3/4" (0.400m) root diameter × 22-3/4" (0.578m) wide. Wire rope: 380' of 3/4" diameter rope (116m of 19mm). Drum capacity: 905' (276m) 6 layers. Maximum line pull (permissible): 14,272lbs. (6,474kg)\*. Maximum line speed: 525FPM (160m/min).

\* Maximum permissible line pull may be affected by wire rope strength.

**WIRE ROPE** - Filler wire, extra improved plow steel, pre-formed, independent wire rope core, right regular lay.  
3/4" (19mm) 6 × 37 class

## HOOK BLOCKS -

1. 60 ton (54.4 metric ton) - 5 sheaves with swivel hook and safety latch, for 3/4" (19mm) wire rope.
2. 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 hand levers 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 safety glass windows opening at side, rear and roof. Windshield glass window is shatter-resistant. Tilt-telescoping steering wheel. Adjustable control levers for swing, boom hoist, boom telescoping, auxiliary hoist and main hoist. Control levers for swing and auxiliary hoist 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.

Dash-mounted engine start/stop, monitor lamps, cigarette lighter, parking brake switch, steering mode select switch, pump engaged/ disengaged switch, swing brake switch, and telescoping correction switches.

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

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

- Control lever lockout function
- Working radius and/or boom angle preset function (warning only)
- Warning buzzer
- Boom angle/boom length/jib offset angle/working radius/rated loads/actual loads read out
- Ratio of actual load moment to rated load moment indication
- Working condition register switch
- External warning lamp

Operator's right hand console includes transmission gear selector, outrigger controls, sight level bubble, drive selector switch, swing free-lock selector switch, working light switch and ashtray. Swing lock lever and 4 way adjustable seat with high back and seat belt.

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** - 25mph (40km/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.

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

**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.

**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" (7.2m) center-line and retract to within 10' 10-1/2" (3.315m) 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 upper structure cab.

### ENGINE

Model	Mitsubishi 6D16-TLEA
Type	Direct injection diesel
No. of cylinders	6
Combustion	4 cycle, turbo charged and after cooled
Bore x stroke, in. (mm)	4.646 x 4.528 (118 x 115)
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

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 (ℓ/min)	10.6 CFM (301) at 2,000 rpm
Horsepower (kw)	Gross 247 (184) at 2,800 rpm
Torque, max. ft-lb (kgm)	521 (72) at 1,400 rpm
Capacity, gal. (liters)	
Cooling water	3.4 (13)
Lubrication	3.7 ~ 4.2 (14 ~ 16)
Fuel	79.2 (300)

# STANDARD EQUIPMENT

- Four section full power partially synchronized boom 36.1' ~114.8' (11.0m ~ 35.0m)
- Two stage stowable telescoping jib 32.2' (9.8m) or 56.1' (17.1m) with 5° or 30° pinned offset (tilt type) with self storing pins
- Auxiliary lifting sheave (single top) stowable
- Boom hoist foot control
- Boom telescoping foot control
- Boom angle indicator
- Variable speed main hoist with cable follower
- Variable speed auxiliary hoist with cable follower
- Drum rotation indicator (thumper type) main and auxiliary hoist
- Tadano twin swing system
- 4 × 4 × 4 drive
- Automatic rear axle oscillation lockout system
- Independently controlled outriggers
- Self-storing outrigger pads
- Electronic controlled automatic transmission driven by torque converter
- Complete highway light package
- Anti two block device (overwind cutout)
- Electronic crane monitoring system
- Tadano electronic load moment indicator system (AML-L)
- Outrigger extension length detector
- Front windshield wiper and washer
- Roof window wiper and washer
- Roof window lock warning
- Rear view mirrors (right and left side)
- 4 way adjustable seat with high back and seat belt
- Tilt-telescoping steering wheel
- Neutral position adjustable control lever (swing and auxiliary hoist)

- Cab floor mat
- Electric fan in cab
- Back-up alarm
- Low oil pressure/high water temperature warning device (visual)
- Rear steer centering light
- Fenders
- Air cleaner dust indicator
- Towing hooks - front and rear
- Lifting eyes
- Tool storage compartment
- Full instrumentation package
- Pump disconnect in operator's cab
- Air dryer
- Water separator with filter
- Flood lights
- Tire inflation kit
- Outrigger hose protection
- 24 volt electric system
- Hydraulic oil cooler
- Non-spin rear differential
- 60 ton (54.4 metric ton) 5 sheave hook block
- 6.2 ton (5.6 metric ton) hook with swivel

## OPTIONAL EQUIPMENT

- Propane heater
- Fire extinguisher

# HOISTING SPECIFICATIONS

## LINE SPEEDS AND PULLS

Layer	Speed	Main or auxiliary hoist - 15-3/4" (0.4m) drum					
		Line speeds <sup>2</sup>		Line pulls			
				Available <sup>1</sup>		Permissible <sup>4</sup>	
		F.P.M	m/min	Lbs.	kgf	Lbs.	kgf
1st	Low	180	55	15,698	7,121	14,272	6,474
	High	361	110				
2nd	Low	197	60	14,647	6,644	13,315	6,040
	High	394	120				
3rd	Low	213	65	13,520	6,133	12,292	5,576
	High	427	130				
4th	Low	230	70	12,557	5,696	11,417	5,179
	High	460	140				
5th	Low	246	75	11,721	5,317	10,657	4,834
	High	492	150				
6th <sup>3</sup>	Low	262	80	10,989	4,985	9,991	4,532
	High	525	160				

<sup>1</sup> Developed by machinery with first layer of wire rope, but not based on rope strength or other limitation in machinery or equipment.

<sup>2</sup> Line speeds based only on hook block, not loaded.

<sup>3</sup> Sixth layer of wire rope is not recommended for hoisting operations.

<sup>4</sup> Permissible line pull may be affected by wire rope strength.

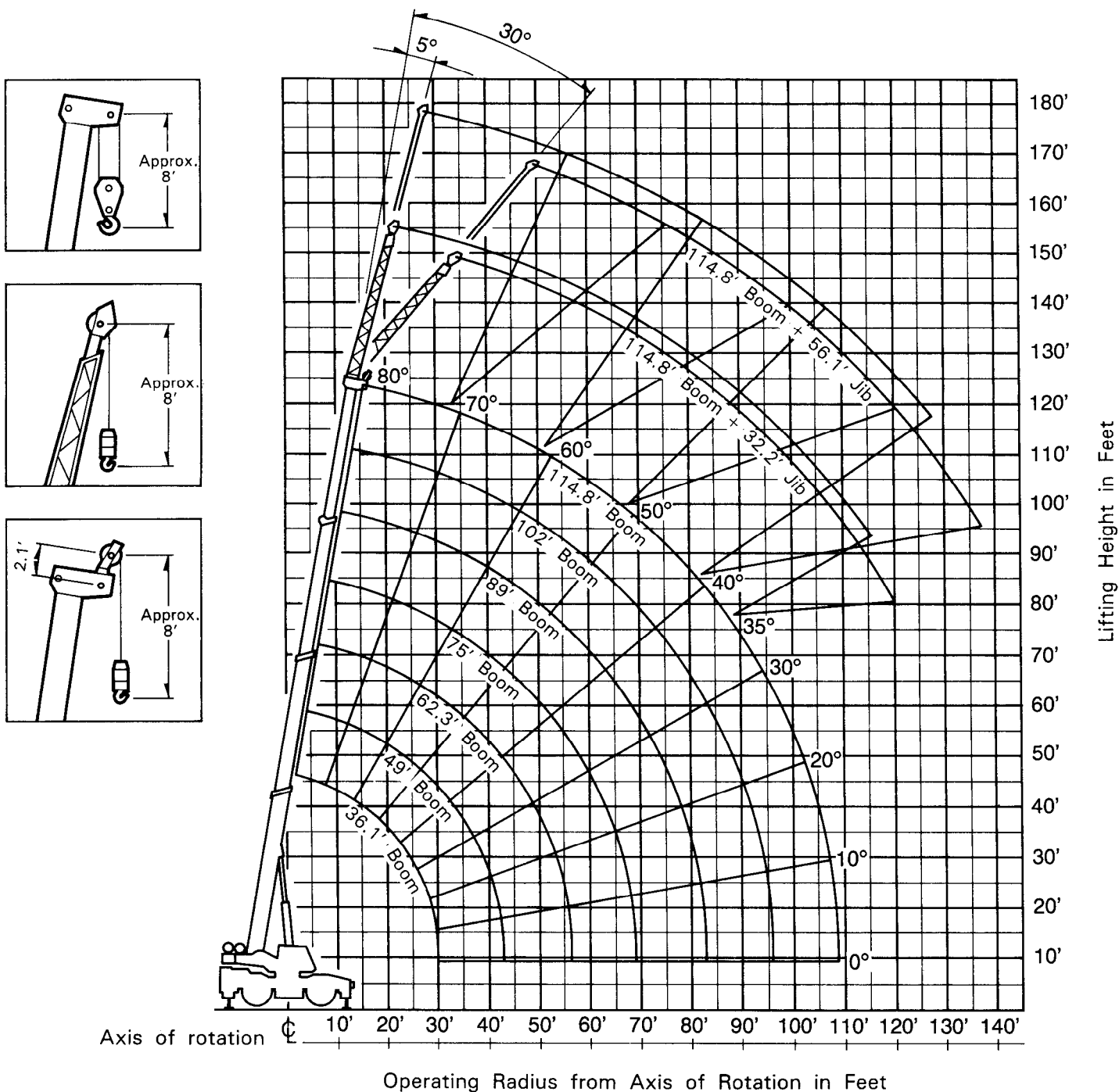
## DRUM WIRE ROPE CAPACITIES

Wire rope layer	Main and auxiliary drum grooved lagging			
	3/4" (19mm) wire rope			
	Rope per layer		Total wire rope	
	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

# TR-600XL-3 OPERATING RADIUS/LIFTING HEIGHT 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.

# TR-600XL-3 TOTAL RATED LOAD CHART (IN POUNDS)

		ON OUTRIGGERS FULLY EXTENDED 360° ROTATION							ON OUTRIGGERS MID. EXTENDED 21'11-3/4" (6.7m) SPREAD 360° ROTATION						
A B	36.1' (11.0m)	49' (14.9m)	62.3' (19.0m)	75' (22.9m)	89' (27.1m)	102' (31.1m)	114.8' (35.0m)	36.1' (11.0m)	49' (14.9m)	62.3' (19.0m)	75' (22.9m)	89' (27.1m)	102' (31.1m)	114.8' (35.0m)	
	10	120,000	91,000	82,000					120,000	91,000	82,000				
12	113,800	91,000	82,000	47,400				113,800	91,000	82,000	47,400				
15	95,200	91,000	72,000	47,400	47,400			95,200	91,000	72,000	47,400	47,400			
20	73,300	72,800	63,000	47,400	43,600	34,700		73,300	72,800	63,000	47,400	43,600	34,700		
25	58,600	58,100	55,100	43,600	38,100	31,400	28,800	49,400	49,200	51,400	43,600	38,100	31,400	28,800	
30	33,500	43,100	41,100	37,300	32,900	27,500	25,500	33,500	35,300	35,700	37,300	32,900	27,500	25,500	
35		32,400	32,400	32,400	28,500	24,500	22,400		26,600	26,300	27,400	28,500	24,500	22,400	
40		25,000	24,800	26,300	25,100	21,700	19,700		20,400	20,300	21,200	22,700	21,700	19,700	
45			19,400	20,900	21,500	19,400	17,500			16,100	17,000	18,300	19,100	17,500	
50			15,700	16,900	17,800	17,500	15,800			12,800	14,000	15,100	16,100	15,800	
55			12,500	13,900	14,800	15,900	14,300			10,100	11,600	12,600	13,200	13,000	
60				11,500	12,300	13,100	13,000				9,300	10,500	11,000	10,900	
65				9,500	10,400	11,100	11,300				7,600	8,600	9,200	9,300	
70					8,800	9,400	9,900					7,100	7,600	7,900	
75					7,400	8,100	8,500					5,700	6,400	6,900	
80					6,300	6,900	7,300					4,600	5,200	5,700	
85						5,900	6,300						4,400	4,800	
90						4,800	5,500						3,600	4,000	
95						4,100	4,800						2,900	3,300	
100							4,100							2,600	
105							3,200							2,100	
108							3,100							1,700	
C	0°							0°							

A: Boom Length in Feet      B: Operating Radius in Feet      C: Minimum boom angle (deg.) for indicated length (no load)

Boom Angle in Degree	ON OUTRIGGERS FULLY EXTENDED 360° ROTATION								ON OUTRIGGERS MID. EXTENDED 21'11-3/4" (6.7m) SPREAD 360° ROTATION							
	Boom Length in Feet								Boom Length in Feet							
	114.8' (35.0m) Boom +32.2' (9.8m) Jib				114.8' (35.0m) Boom +56.1' (17.1m) Jib				114.8' (35.0m) Boom +32.2' (9.8m) Jib				114.8' (35.0m) Boom +56.1' (17.1m) Jib			
	5° offset		30° offset		5° offset		30° offset		5° offset		30° offset		5° offset		30° offset	
R	W	R	W	R	W	R	W	R	W	R	W	R	W	R	W	
80°	26.3	12,300	38.2	6,100	33.8	6,100	54.7	2,400	26.3	12,300	38.2	6,100	33.8	6,100	54.7	2,400
75°	40.0	11,000	50.9	5,500	49.5	5,000	69.5	2,200	40.0	11,000	50.9	5,500	49.5	5,000	69.5	2,200
70°	52.7	8,800	63.4	5,000	64.6	4,100	83.4	1,900	52.7	8,800	63.4	5,000	64.6	4,100	83.4	1,900
65°	64.4	7,000	74.7	4,700	78.6	3,500	96.1	1,800	64.4	7,000	74.7	4,700	78.6	3,500	96.1	1,800
60°	75.9	5,700	85.4	4,400	92.3	3,000	108.0	1,700	75.9	5,700	85.4	4,400	92.3	3,000	108.0	1,700
55°	86.5	4,700	95.1	3,800	105.0	2,600	119.0	1,600	86.5	4,700	95.1	3,800	105.0	2,600	119.0	1,600
50°	96.3	3,800	104.0	3,300	116.0	2,300	129.0	1,500	96.1	3,200	104.0	2,800	116.0	2,300	129.0	1,500
45°	105.0	3,200	112.0	2,900	127.0	2,000	137.0	1,400	105.0	2,100	111.0	1,800	126.0	1,600	137.0	1,100
40°	113.0	2,400	119.0	2,200	136.0	1,700	147.0	1,300	113.0	1,200	118.0	1,100				
35°	121.0	1,700	125.0	1,600												

R: Operating Radius in Feet      W: Total Rated Load in Pounds



# WARNING AND OPERATING INSTRUCTIONS FOR LIFTING CAPACITIES

## GENERAL

1. Total rated loads on the TOTAL RATED LOAD CHART 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. Construction equipment can be hazardous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with the information in the operation, safety and maintenance manual supplied with machine. If this manual is missing, order 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. Total rated loads 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 load to a larger bearing surface.
2. For outrigger operation, outriggers shall be properly extended with tires free of supporting surface before operating crane.

## OPERATION

1. Total rated loads have been tested to and meet minimum requirements of SAE J1063–Cantilevered Boom Crane Structures– Method of Test.
2. Total rated loads do not exceed 85% of the tipping loads on outriggers fully extended as determined by SAE J765–Crane Stability Test Code.  
Total rated loads for partially extended outriggers are determined from the formula, Total Rated Load = (Tipping Load – 0.1 × Tip Reaction) / 1.25.
3. Total rated loads 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. Total rated loads include the weight of main hook block (1,100lbs. for 60 ton capacity), auxiliary hook ball (330lbs. for 6.2 ton capacity), sling and auxiliary lifting devices and their weights shall be subtracted from the listed capacities to obtain the net load to be lifted.
5. Total rated loads are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tires, operating speeds, side loads, etc. Side pull on boom or jib is extremely dangerous.
6. Total rated loads do not account for wind on lifted load or boom. Total rated loads and boom length shall be appropriately reduced, when wind velocity is above 20mph (9m/sec.).
7. Total rated loads 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 total rated loads of the next longer and next shorter booms for the same radius. The lesser of the two total rated loads 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 11,900lbs. (5,400kg) for main winch and 12,300lbs. (5,600kg) for auxiliary winch.
12. The boom angle before loading should be greater to account for deflection.
13. The 36.1' (11.0m) boom length capacities are based on boom fully retracted. If not fully retracted [less than 49' (14.9m) boom length], use the total rated loads for the 49' (14.9m) boom length.
14. Extension or retraction of the boom with loads may be attempted within the limits of the TOTAL RATED LOAD CHART. The ability to telescope loads is limited by hydraulic pressure, boom angle, boom length, crane maintenance, etc.
15. For lifting capacity of single top, reduce the total rated loads of relevant boom by 1,000lbs. (450kg). Capacities of single top shall not exceed 12,300lbs. (5,600kg) including main hook.
16. When erecting and stowing jib, be sure to retain it by hand or by other means to prevent its free movement.
17. 6,200lbs. (2,800kg) shall be subtracted from the total rated loads of the main boom, when jib is attached to main boom head. Jib weight is 2,200lbs. (1,000kg).
18. Use Anti-two block (OVERWIND CUTOFF) disable switch when erecting and stowing the jib and stowing the hook block. While the switch is pushed, the hoist does not stop, even when overwind condition occurs.
19. For boom lengths with 32.2' (9.8m) jib, the total rated loads are determined by loaded boom angle only in the column headed 114.8' (35.0m) boom + 32.2' (9.8m) jib. For boom lengths with 56.1' (17.1m) jib, the total rated loads are determined by loaded boom angle only in the column headed 114.8' (35.0m) boom + 56.1' (17.1m) jib. For angles not shown, use the next lower loaded boom angle to determine allowable capacity.
20. 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 weight of load is within total rated load for jib.

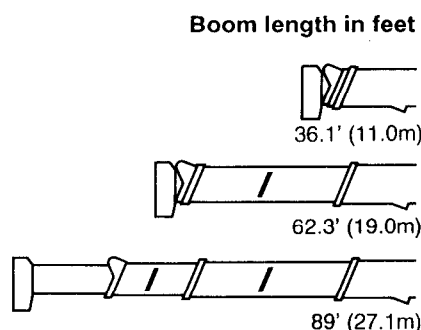
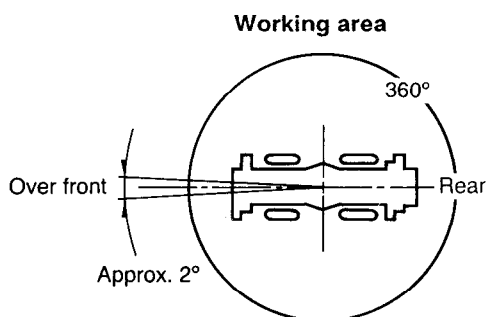
## DEFINITIONS

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 total rated load 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.



# TR-600XL-3 TOTAL RATED LOAD CHART (IN POUNDS)

ON RUBBER TIRE: 29.5-25-22PR									
A B	Stationary						Creep		
	Over front			360° rotation			Over front		
	Boom Length in Feet			Boom Length in Feet			Boom Length in Feet		
	36.1' (11.0m)	62.3' (19.0m)	89' (27.1m)	36.1' (11.0m)	62.3' (19.0m)	89' (27.1m)	36.1' (11.0m)	62.3' (19.0m)	89' (27.1m)
10	67,200			34,300			50,000		
12	58,600			32,700			45,600		
15	51,300	34,100		24,800	22,900		39,600	30,500	
20	36,000	30,000	20,700	15,400	14,900	15,600	30,600	26,500	18,300
25	25,200	24,000	20,700	9,900	9,500	10,500	23,700	22,800	18,300
30	18,100	17,200	17,600	6,000	5,900	7,000	18,100	17,200	16,300
35		12,500	13,600		3,400	4,500		12,500	13,600
40		9,200	10,800		1,600	2,900		9,200	10,800
45		6,800	8,500			1,500		6,800	8,500
50		4,900	6,900					4,900	6,900
55		3,400	5,300					3,400	5,300
60			4,000						4,000
65			2,900						2,900
70			2,100						2,100
75			1,500						1,500
C		0°	20°	0°	42°	55°		0°	20°



- A: Boom Length in Feet (meters)
- B: Operating Radius in Feet
- C: Minimum boom angle (deg.) for indicated length (no load)

NOTE: Standard number of parts of line should be according to the following table.

Boom length in feet (meters)	36.1' (11.0)	36.1' to 89' (11.0 to 27.1)	Single top
No. of part 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 line listed in the chart.

## WARNING AND OPERATING INSTRUCTIONS FOR ON RUBBER CAPACITIES

- Total rated loads on rubber are in pounds and do not exceed 75% of tipping loads as determined by SAE J765-Crane Stability Test Code.
- Total rated loads 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.
- If the axle oscillation lockout cylinders contain air, the axle will not be locked completely and total rated loads may not be obtainable. Bleed the cylinders according to the operation, safety and maintenance manual.
- Total rated loads are based on proper tire inflation, capacity and condition. Damaged tires are hazardous to safe operation of crane.
- Tires shall be inflated to correct air pressure.
- 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 89ft. (27.1m).
- 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.
- Do not operate the crane while carrying the load.
- Creep is motion for crane not to travel more than 200ft. (60m) in any 30 minute period and to travel at the speed of less than 1 mph (1.6km/h).
- For creep operation, set drive select switch to "4-WHEEL (Lo)" and set gear shift lever to "1".

Tires	Air pressure
29.5-25-22PR	60 psi. (4.2kgf/cm <sup>2</sup> )

# 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 the outrigger operation. The outrigger mode indicator symbol changes from flickering to lighting.
    - Press the boom mode select key to register the boom mode. Each time the boom mode select key is pressed, the mode changes. Select the status that corresponds to the actual state of the boom.
    - When erecting and stowing jib, select the status of jib set (jib state indicator symbol flickers).
  2. When operating crane on rubber:
    - Set P.T.O. switch to "ON".
    - Press the on-tire mode select key. The outrigger mode indicator symbol will disappear as the on-tire mode indicator symbol comes on. Each time the on-tire mode select key is pressed, the mode changes. To select creep operation, the on-tire mode indicator symbol should flicker.
    - Press the boom mode select key to register the boom mode.
- 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.
  - (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 tires, operating speed, side loads, etc. For safe operation, it is recommended when extending and lowering boom or swinging, lifted 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 instructions. 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.

## TR-600XL-3 Axle weight distribution chart

	Pounds			Kilograms		
	GVW	Front	Rear	GVW	Front	Rear
Basic standard machine includes: 36.1' ~ 114.8' (11.0m ~ 35.0m) 4-section boom 32.2', 56.1' (9.8m, 17.1m) 2-stage jib Main hoist with 672ft. (205m) of 3/4" (19mm) diameter wire rope Auxiliary hoist with 380ft. (116m) of 3/4" (19mm) diameter wire rope 60 ton (54.4 metric ton) hook block 6.2 ton (5.6 metric ton) hook ball Auxiliary lifting sheave (single top) Mitsubishi 6D16-TLEA 29.5-25-22PR (OR) tires	94,600	48,780	45,820	42,900	22,120	20,780
Remove: <ol style="list-style-type: none"> <li>1. 32.2', 56.1' (9.8m, 17.1m) 2-stage jib</li> <li>2. 60 ton (54.4 metric ton) hook block</li> <li>3. 6.2 ton (5.6 metric ton) hook ball</li> <li>4. Auxiliary lifting sheave (single top)</li> <li>5. 29.5-25-22PR (OR) tires</li> </ol>	-2,200	-3,960	+1,760	-1,000	-1,798	+798
	-1,100	-2,042	+942	-500	-927	+427
	-330	+144	-474	-150	+65	-215
	-128	-359	+231	-58	-163	+105
	-6,990	-3,495	-3,495	-3,172	-1,586	-1,586