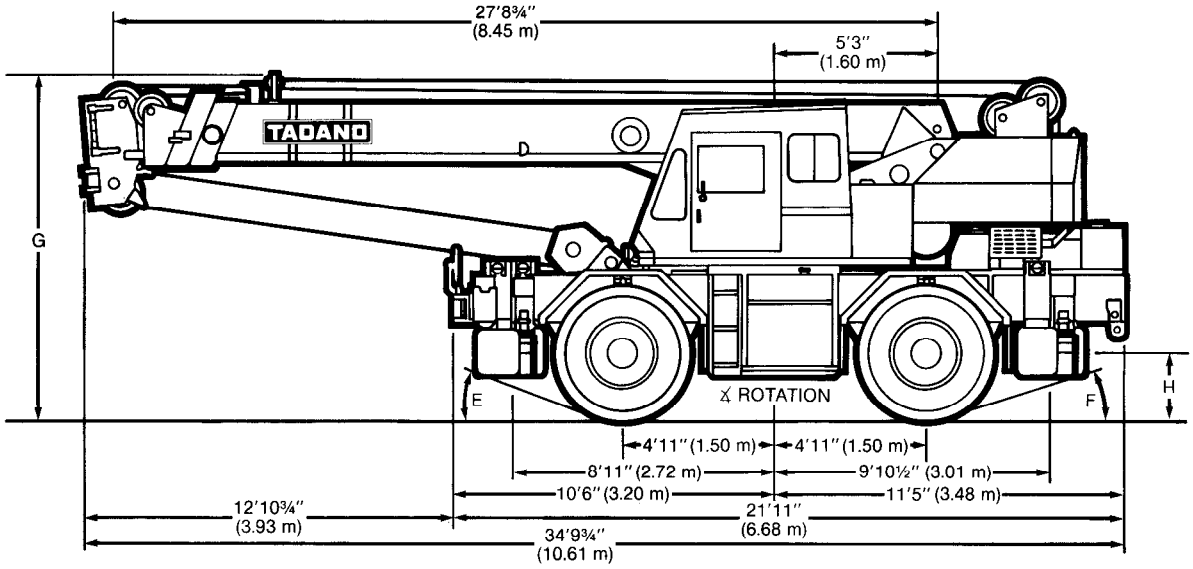
TADANO

TR-250E

27.5 Ton Capacity (25.0 metric tons)

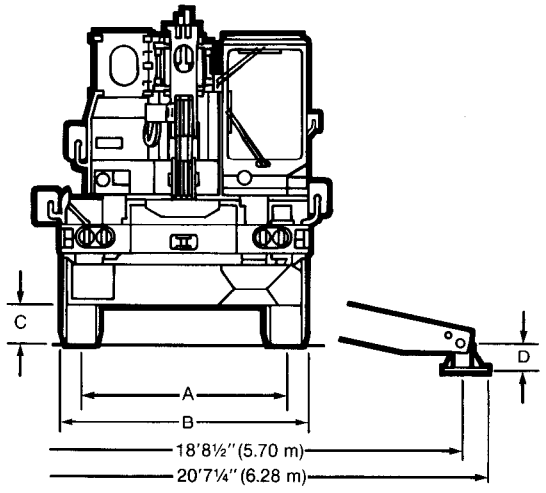
HYDRAULIC ROUGH-TERRAIN CRANE

DIMENSIONS



GENERAL DIMENSIONS	Feet Meters
Tail swing of counterweight	10'4⅜" (3.16 m)

DIMENSIONS AFFECTED BY TIRES		
Tires	16.00 x 25	20.5 x 25
A	6'10⅝" (2.09 m)	6'9⅛" (2.06 m)
B	8'4"13/16 (2.56 m)	8'7⅛" (2.62 m)
C	1'6⅛" (0.46 m)	1'6½" (0.47 m)
D	6⅛" (0.156 m)	5⅞" (0.15 m)
E	19.1°	19.6°
F	16.6°	16.8°
G	11'5" (3.48 m)	11'5" (3.48 m)
H	2'2¾" (0.68 m)	2'2¾" (0.68 m)
Turning Radius: 4 wheel steer 2 wheel steer	 17'8⅝" (5.4 m) 29'10¼" (9.1 m)	 21' (6.4 m) 36'1⅛" (11.0 m)



Crane Specifications

BOOM

Four section full power partially synchronized telescoping boom, 27.7' ~ 86.3' (8.45 ~ 26.3 m), of box construction with four sheaves, 13⅞" (0.352 m) root diameter, at boom head. The synchronization system consists of two telescope cylinders, an extension cable and a retraction cable. Hydraulic cylinders fitted with holding valves. 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 0°~80°, combination controls for hand or foot operation. Boom angle indicator.

Jib — Single staged lattice type, 5° or 30° offset (tilt type). Single sheave, 13⅞" (0.352 m) root diameter, at jib head. Stored alongside base boom section. Jib length is 24.6' (7.5 m).

Auxiliary Lifting Sheave (Single top) — Optional. Single sheave, 13⅞" (0.352 m) root diameter. Mounted to main boom head for single line work. (Stowable.)

Anti-Two Block — Pendant type over-winding cut out device with audio-visual (FAILURE lamp/BUZZER) warning system.

SWING

Hydraulic axial piston motor driven through planetary swing speed reducer. Continuous 360° full circle swing on ball bearing turntable at 3.0 rpm. Equipped with manually locked/released swing brake. A swing lock (pin-in-hole 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 hoist speed reducer. Power load lowering and raising. Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of auxiliary hoist.

Drum — Grooved 12⅝" (0.320 m) root diameter x 17$^{15}/_{16}$" (0.4562 m) wide. Wire rope: 492 ft. of ⅝" diameter rope (150 m of 16 mm). Drum capacity: 681 ft. (207.7 m) 6 layers. Maximum line pull (permissible): 8,833 lbs. (4007 kgs)*. Maximum line speed: 397 FPM (121 m/min).

Auxiliary hoist — Optional. Variable speed type with grooved drum driven by hydraulic axial piston motor through hoist speed reducer. Power load lowering and raising. Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of main hoist.

Drum — Grooved 12⅝" (0.320 m) root diameter x 17$^{15}/_{16}$" (0.4562 m) wide. Wire rope: 246 ft. of ⅝" diameter rope (75 m of 16 mm). Drum capacity: 681 ft. (207.7 m) 6 layers. Maximum line pull (permissible): 8,833 lbs. (4007 kgs)*. Maximum line speed: 397 FPM (121 m/min).

Wire rope — Filler wire, extra improved plow steel, preformed, independent wire rope core, right regular lay.

⅝" (16 mm) 6 x 37 class
⅝" (16 mm) 19 x 7 class

19 x 7 is non-spin rope intended for single line work and is not recommended for multiple part reeving.

Hook blocks — Optional
1. 27.5 Ton (25 metric tons) — 4 sheaves with swivel hook and safety latch, for ⅝" (16 mm) wire rope.
2. 3.3 Ton (3.0 metric tons) — Weighted hook with swivel and safety latch, for ⅝" (16 mm) wire rope.

HYDRAULIC SYSTEM

Pumps — One variable piston pump and one gear pump for crane. Tandem gear pump for steering 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 — 98 gallon (370 lit.) capacity. External sight level gauge.

Filtration — 10 micron return line filter, located on superstructure.

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 is shatter-resistant. Adjustable control levers for swing, boom telescope, boom hoist, auxiliary hoist and main hoist (with swing free-lock selector switch). Engine throttle knob. Foot operated controls: boom hoist, service brake and engine throttle.

Dash-mounted engine start/stop, monitor lamps, electronic working condition indicator with boom length/angle, radius/hook height and rated loads/actual loads indication, pump engaged/disengaged switch, working condition select switches, cigarette lighter, windshield wiper switch, steering mode select switch and drum rotation indicator.

Operator's cab console includes transmission gear selector, working condition indicator select switch, outrigger controls, sight level bubble, rear steering lock switch, drive selector switch, working light switch, ashtray and parking brake selector. Swing lock knob, swing brake and reclining seat with high back (with seat belt).

Instruments — Engine water temperature, air pressure, fuel, speedometer, hydraulic oil pressure, torque converter oil temperature, tachometer and hourmeter.

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

Carrier Specifications

Type — Rear engine, left hand steering, driving axle 2-way selected type by manual switch. 4 x 2 front drive, 4 x 4 front and rear drive.

Frame — High-tensile steel, all welded box construction.

Transmission — Torque converter driving full powershift with driving axle selector. 3 forward and 1 reverse speeds, constant mesh.

Travel Speed — 31.2 mph maximum.

Axle — *Front:* Full floating type, steering and driving axle with planetary reduction. *Rear:* Full floating type, steering and driving axle with planetary reduction. No-spin 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:* Semi-elliptic leaf springs with hydraulic lockout device. *Rear:* Semi-elliptic leaf springs with hydraulic lockout device.

Brake Systems — *Service:* Hydraulic operated air over hydraulic brakes on all 4 wheels. Disc brake. *Parking/emergency:* Spring operated air released brake acting on input shaft of front axle.

Tires — *Front:* Standard 16.00 x 25 — 20 PR (OR), optional 20.50 x 25 — 20 PR (OR)
Rear: Standard 16.00 x 25 — 20 PR (OR), optional 20.50 x 25 — 20 PR (OR)

Outriggers — Hydraulically operated. Double box construction. Extended in "X" configuration. Integral with carrier frame. Power in and out, up and down. Provided with pilot check valves. Each outrigger slider beam and jack is controlled independently from the cab. Fully extended to 18'8 7/16" (5.7 m) and retract to within 8'4 3/4" (2.56 m) overall width. Controls and sight level bubble located in upperstructure cab.

ENGINE

Model	MITSUBISHI 6D15
Type	Direct Injection Diesel
No. of cylinders	6
Combustion	4 cycle, naturally aspirated
Bore x stroke, in. (mm)	4.448 x 4.527 (113 x 115)
Displacement, cu. in. (liters)	422 (6.919)
Air inlet heater	24 volt preheat
Air cleaner	Dry type, replacement element (dual)
Oil filter	Fullflow with replacement element
Fuel filter	Fullflow with replacement element
Fuel tank, gal. (liters)	66.0 (250), right side of carrier
Cooling	Liquid pressurized, recirculating by-pass

Radiator	Fin and tube core, thermostat controlled
Fan, in. (mm)	6 blade, blower type, 22.8 (580) dia.
Starting	24 volt motor
Charging	24 volt system, negative ground
Battery	2 — 140 amp. hour
Compressor, air, CFM (LPM)	7.0 CFM (198 LPM) at 2,000 rpm
Horsepower, HP (KW)	Gross 153 (114.5) at 2800 rpm Net 150 (112) at 2800 rpm
Torque, Max., ft.-lb. (kgm)	325 (45) at 1800 rpm
Capacity, gal. (liters)	
Cooling water	3.4 (13)
Lubrication	3.7 ~ 4.2 (14 ~ 16)

AXLE WEIGHT DISTRIBUTION CHART

ITEM	POUNDS			KILOGRAMS		
	G.V.W.	FRONT	REAR	G.V.W.	FRONT	REAR
Basic standard machine to include: 27.7' ~ 86.3' (8.45 m ~ 26.3 m) 4 section boom; 24.6' (7.5 m) jib; main hoist with 492' (150 m) of 5/8" (16 mm) diameter rope; 27.5 ton (25 metric ton) hookblock; 3.3 ton (3 metric ton) hookball; 4,453 lbs. (2020 kgs) counterweight; Mitsubishi 6D15 engine; 16.00 x 25-20 PR tires.	51,509	25,825	25,684	23,364	11,714	11,650
ADD:						
Auxiliary hoist with 246' (75 m) of 5/8" (16 mm) wire rope	+1,362	-232	+1,594	+618	-105	+723
3,285 lbs. (1490 kgs) counterweight	+3,285	-1,543	+4,828	+1,490	-700	+2,190
Auxiliary lifting sheave (single top)	+110	+308	-198	+50	+140	-90
SUBSTITUTE:						
20.50 x 25-20 PR tires with fenders	+750	+375	+375	+340	+170	+170
REMOVE:						
24.6' (7.5 m) jib	-820	-1,431	+611	-370	-648	+278
27.5 ton (25 metric ton) hookblock	-595	-663	+68	-270	-301	+31
3.3 ton (3 metric ton) hookblock	-110	+51	-161	-50	+23	-73
4,453 lbs. (2020 kgs) counterweight	-4,453	+2,092	-6,545	-2,020	+949	-2,969

4,453 lbs. (2020 kgs) counterweight used with main hoist only.
3,285 lbs. (1490 kgs) counterweight used with main hoist and auxiliary hoist.

Standard Equipment

- Four section full power partly synchronized boom 27.7′ - 86.3′ (8.45 m - 26.3 m)
- Single stage stowable lattice jib 24.6′ (7.5 m) with 5° or 30° pinned offset (tilt type)
- Boom hoist foot control
- Boom angle indicator
- Variable speed main hoist driven by axial piston motor with drum rotation indicator and cable
- Tadano twin swing system
- 4 x 4 x 4 drive
- Hydraulic lock out suspension system
- Independently controlled outriggers
- Self-storing outrigger pads
- Full powershift transmission driven by torque converter
- Complete highway light package
- Anti two block device (Overwind cutout)
- Front windshield wiper and washer
- Roof windshield wiper
- Rear view mirrors (right and left side)
- Seat belt
- Back up alarm
- Low oil pressure/High water temperature warning device (visual)
- Fenders
- Air cleaner dust indicator
- Towing hooks — front and rear
- Lifting eyes
- Tool storage compartment
- Electronic crane monitoring system
- Electronic working condition indicator system including:
  - — Load weight indicator - rated and actual
  - — Boom length indicator
  - — Boom angle indicator
  - — Load radius indicator
  - — Hook height indicator
- Full instrumentation package
- Pump disconnect in operator's cab
- Non-spin rear differential
- Flood lights
- Cable follower
- Outrigger hose protection
- 24 volt electric system

Optional Equipment

- Variable speed auxiliary with drum rotation indicator
- Auxiliary lifting sheave (single top) stowable
- 27.5 ton (25 metric ton) 4 sheave hook block
- 3.3 ton (3 metric ton) hook ball and swivel
- Heater
- Optional tires
- Fire extinguisher

Hoisting Specifications

LINE SPEEDS AND PULLS

Layer	Speed	Main or auxiliary hoist — 12⅝" (0.32 m) drum					
		Line speeds ❷		Line pulls			
				Available ❶		Permissible ❹	
		F.P.M.	m/min.	Lbs.	kgfs	Lbs.	kgfs
1st	Low	121	37	9715	4407	8833	4007
	High	269	82				
2nd	Low	131	40	9124	4139	8295	3763
	High	292	89				
3rd	Low	144	44	8395	3808	7632	3462
	High	321	98				
4th	Low	154	47	7773	3526	7067	3206
	High	344	105				
5th	Low	167	51	7235	3282	6578	2984
	High	370	113				
6th ❸	Low	180	55	6770	3071	6155	2792
	High	397	121				

❶ Developed by machinery with first layer of wire rope, but not based on rope strength or other limitation in machinery or equipment.
❷ Line speeds based on only hook block, not loaded.

DRUM WIRE ROPE CAPACITIES

Wire rope layer	Main and auxiliary drum grooved lagging			
	⅝" (16 mm) wire rope			
	Rope per layer		Total wire rope	
	Feet	Meters	Feet	Meters
1	91.9	28.0	91.9	28.0
2	100.4	30.6	192.3	58.6
3	109.2	33.3	301.5	91.9
4	117.8	35.9	419.3	127.8
5	126.6	38.6	545.9	166.4
6	135.5	41.3	681.4	207.7

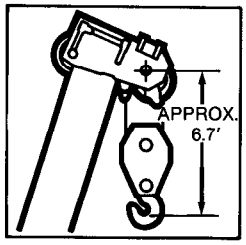
DRUM DIMENSIONS

	Inch	mm
Root diameter	12⅝	320
Length	17 15/16	456.2
Flange diameter	20⅞	530

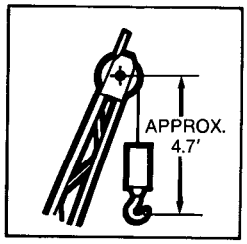
❸ Sixth layer of wire rope is not recommended for hoisting operations.
❹ Permissible line pull may be affected by wire rope strength.

Working Radius — Lifting Height Diagram

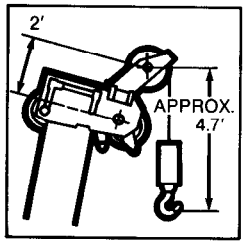
BOOM



JIB



SINGLE TOP



Lifting Capacities

Working Radius (Feet)	360° Rotation																	
	Boom Length in Feet																	
	∠°	27.7′	∠°	34′	∠°	40.5′	∠°	47.2′	∠°	54′	∠°	60.5′	∠°	67′	∠°	73.5′	∠°	80′
10′	59°	55,000	66°	44,000	70°	39,500	73°	35,200	76°	28,600								
12′	54°	43,200	62°	41,600	67°	36,800	71°	34,800	73°	28,600	76°	22,000	77°	19,800				
15′	46°	35,600	56°	34,700	62°	32,700	67°	30,900	70°	26,100	73°	22,000	75°	19,800	76°	17,600	78°	16,500
20′	27°	27,300	44°	27,100	54°	25,800	60°	24,800	64°	21,000	68°	20,200	70°	19,000	72°	17,400	74°	16,300
25′			29°	21,100	44°	20,400	52°	20,100	58°	18,400	62°	16,600	65°	15,400	68°	14,500	70°	13,700
30′					32°	14,700	44°	15,000	51°	14,500	57°	14,000	60°	13,000	64°	12,000	66°	11,400
35′					16°	10,400	34°	10,800	44°	11,200	51°	11,500	55°	11,000	59°	10,200	62°	9,700
40′							19°	8,200	35°	8,400	44°	9,000	50°	9,200	54°	8,700	58°	8,600
45′									23°	6,600	36°	7,000	44°	7,300	49°	7,600	54°	7,800
50′											26°	5,600	37°	5,900	43°	6,200	49°	6,500
55′											11°	4,300	28°	4,700	37°	5,000	44°	5,300
60′													16°	3,800	30°	3,900	38°	4,100
65′															19°	3,200	31°	3,300
70′																	21°	2,600
75′																		
80′																		

NOTES

∠° = Degrees.

Boom Angles are in degrees.

Standard number of part lines should be according to the following table.

Boom Length in Feet (meters)	27.7′ to 34′ (8.45 to 10.4)	34′ to 54′ (10.4 to 16.5)	54′ to 86.3′ (16.5 to 26.3)	Single Top Jib
No of part lines	8	6	4	1

The WORKING CONDITION INDICATOR stores the lifting capacity data based on the standard number parts of line listed in the chart.

NOTE: Before operating crane, refer to WARNING AND OPERATING INSTRUCTIONS for using the Working Condition Indicator.

Warning And Operating Instructions For

GENERAL

1. Total rated loads shown 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 dangerous 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 the 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 applicable American National Standards Institute (ANSI) safety standards for cranes.

SET UP

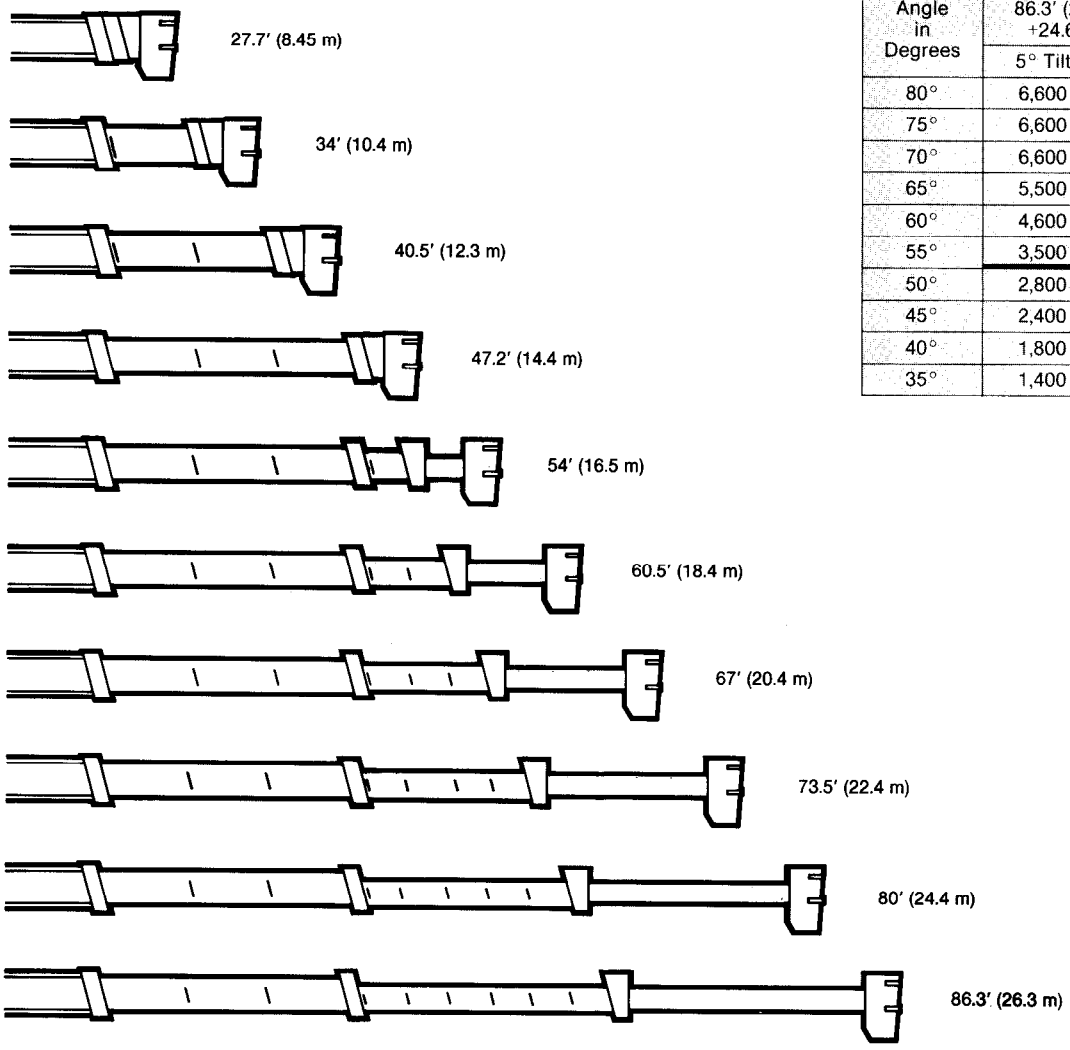
1. Total rated loads shown on the chart are the maximum allowable crane capacities and are based on the machine standing level on firm supporting surface under ideal job conditions. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger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

OPERATION

1. Total rated loads with outriggers fully extended do not exceed 85% of the tipping loads as determined by SAE Crane Stability Test Code J-765.
2. 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.
3. Total rated loads include the weight of main hook block (600 lbs. for 27.5 tons capacity), auxiliary hook ball (110 lbs. for 3.3 tons capacity), sling and auxiliary lifting devices and their weights shall be subtracted from the listed capacities to obtain the net load to be lifted.
4. 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.
5. 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 20 mph (9m/sec.).
6. Total rated loads at load radius shall not be exceeded. Do not tip the crane to determine allowable loads.
7. Do not operate at boom lengths, beyond radii or boom angle, where no capacities are shown. Crane may overturn without any load on the hook.
8. When boom length is between values listed, refer to the total rated load of the next longer and next shorter booms for the same radius. The lesser of the two total rated loads shall be used.
9. When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.

On Outriggers

Working Radius (Feet)	360° Rotation Boom Length in Feet	
	∠°	86.3'
10'		
12'		
15'	79°	15,000
20'	76°	15,000
25'	72°	14,100
30'	68°	11,200
35'	65°	9,400
40'	61°	8,100
45'	57°	7,000
50'	53°	6,100
55'	48°	5,300
60'	43°	4,300
65'	38°	3,500
70'	32°	2,900
75'	24°	2,400
80'	13°	1,900



Boom Angle in Degrees	Boom Length in Feet: 86.3' (26.3 m) Boom +24.6' (7.5 m) Jib	
	5° Tilt	30° Tilt
80°	6,600	4,400
75°	6,600	4,400
70°	6,600	4,400
65°	5,500	4,000
60°	4,600	3,700
55°	3,500	3,200
50°	2,800	2,600
45°	2,400	2,200
40°	1,800	1,700
35°	1,400	1,400

Lifting Capacities

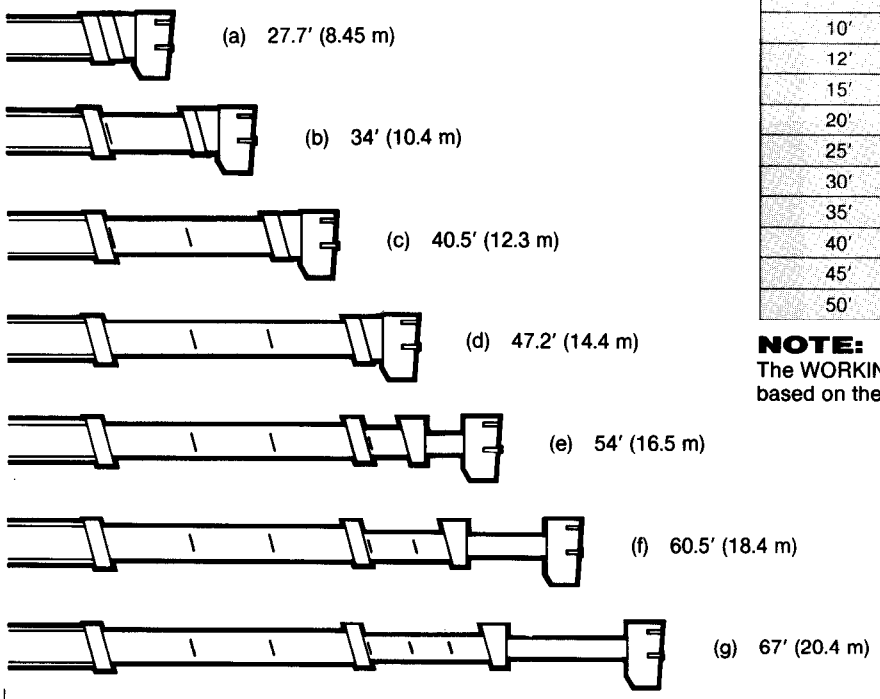
10. Single line operation should not exceed 6600 lbs. (3000 kgs).
11. Loaded boom angles are approximate. The boom angle before loading should be greater to account for deflection.
12. The 27.7' (8.45 m) boom length capacities are based on boom fully retracted. If not fully retracted (less than 34' [10.4 m] boom length), use the total rated loads for the 34' (10.4 m) boom length.
13. 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.
14. For lifting capacity of single top, reduce 550 lbs. (250 kgs) from the total rated loads of relevant boom. Capacities of single top shall not exceed 6600 lbs. (3000 kgs) including main hook.
15. When erecting and stowing jib, be sure to retain it by hand or by other means to prevent its free movement.
16. 1550 lbs. (700 kgs) shall be subtracted from the total rated loads of the main boom, when jib is attached to main boom head. Jib weight is 820 lbs. (370 kgs).
17. Use Anti-Two Block (OVERWIND CUTOUT) 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.
18. For boom lengths with 24.6' (7.5 m) Jib, total rated loads are determined by loaded boom angle only in the column headed "86.3' (26.3 m) Boom + 24.6' (7.5 m) Jib". For angles not shown, use the next lower loaded boom angle to determine allowable capacity.
19. When lifting a load by using jib (auxiliary hoist) and boom (main hoist) simultaneously, do the following:
    - Set BOOM SELECT switch to "JIB".
    - Before starting operation, make sure that the weight of load is within the 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.

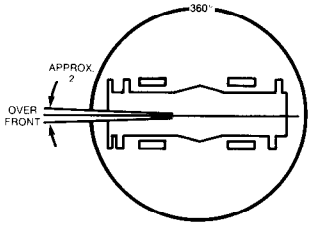
Lifting Capacities On Rubber

Boom Sequencing Diagram.
Max. Permissible Boom Length in Feet



Working Radius in Feet	Stationary		Creep
	Over Front	360° Rotation	Over Front
10′	30,000 (a)	19,000 (a)	23,100 (a)
12′	27,100 (a)	14,000 (a)	22,000 (a)
15′	19,300 (a)	9,400 (b)	17,800 (a)
20′	11,600 (c)	5,400 (b)	11,600 (c)
25′	7,700 (e)	2,700 (b)	7,700 (e)
30′	5,300 (g)	1,300 (g)	5,300 (g)
35′	3,700 (g)		3,700 (g)
40′	2,400 (g)		2,400 (g)
45′	1,700 (g)		1,700 (g)
50′	1,100 (g)		1,100 (g)

NOTE:
The WORKING CONDITION INDICATOR stores the lifting capacity data based on the standard number parts of line listed in the chart.



Warning And Operating Instructions For On Rubber Capacities

1. Total rated loads on rubber are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J-765.
2. Total rated loads shown in the chart are based on condition that crane is set on firm level surface 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.
3. Total rated loads are based on proper tire inflation, capacity and condition. Damaged tires are hazardous to safe operation of crane.
4. Tires shall be inflated to correct air pressure.

Tires	Air Pressure
16.00-25-20PR	79 psi (5.5 kgf/cm²)
20.50-25-20PR	80 psi (5.6 kgf/cm²)

5. Over front operation shall be performed within two degrees in front of chassis.
6. On rubber liftings with "jib" and "auxiliary lifting sheave" (single top) are not permitted. Maximum permissible boom length is 67 feet (20.4 m).
7. When making lift on rubber, set parking brake.
8. For creep operation, boom must be centered over front of machine, swing lock engaged, and load restrained from swinging. Travel slowly and keep the lifting load as close to the ground as possible, and especially avoid any abrupt steering, accelerating or braking.
9. Do not operate the crane while carrying the load.
10. Creep is motion for crane not to travel more than 200 feet (60 m) in any 30 minute period and to travel at the speed of less than 1 mph (1.6 km/h).

Warning And Operating Instructions For Using The Working Condition Indicator

1. When operating crane on outriggers:
   - Set P.T.O. switch to "ON".
   - Set OUTRIGGER SELECT switch to "FULL (On O/R)".
   - Set BOOM SELECT switch to position corresponding to actual operating conditions.
2. When operating crane on rubber:
   - Lock suspension springs with boom over front and crane in traveling configuration.
   - Set P.T.O. switch to "ON".
   - Set BOOM SELECT switch to "BOOM".
   - Set OUTRIGGER SELECT switch to position corresponding to actual operating conditions, in "On Rubber" range. However, pay attention to the following.

   (A.) *For Stationary Operation*
   The front capacities are attainable only when OUTRIGGER SELECT switch is set to "FRONT" and "FRONT" indicator lamp is on. When boom is out of two degrees in front of chassis, "360°" indicator lamp is on and 360° capacities are effective.
   When a load is lifted in the front position and then swung to the side area, be sure to set OUTRIGGER SELECT switch to "360°" in advance, and make sure that the value of WORKING CONDITION INDICATOR is below lifting capacity.

   (B.) *For Creep Operation*
   When OUTRIGGER SELECT switch is set to "Creep" and boom is in the straight forward position of chassis, "FRONT" indicator lamp flickers and creep capacities are attainable. If boom is not in the straight forward position of chassis, never lift load.
3. During crane operation, make sure that the displays on front panel are in accordance with actual operating conditions.
4. The displayed values of WORKING CONDITION INDICATOR 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.

   For safe operation, it is recommended when extending and lowering boom or swinging, lifting loads shall be appropriately reduced.

Specifications subject to change without notice. The equipment described in this catalog may contain options. Standard equipment may vary depending upon regulations and requirements of destination country.

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