



Rough Terrain Crane Features

| RT660B



FEATURES

- ▶ 60 tons (54 mt) maximum lifting capacity
- ▶ 106' (32.4 m) maximum boom length
- ▶ 115' (35 m) maximum tip height
- ▶ Four-section full power boom with single lever control
- ▶ Swingaway jib offsettable 0° or 20°
- ▶ Two-speed main and auxiliary winches
- ▶ Quick-reeving boom head and hook block
- ▶ Fully independent multi-position out and down outriggers
- ▶ Environmental operator's cab optimizes load visibility and productivity
- ▶ Hydraulic joystick control
- ▶ Rated Capacity Indicator
- ▶ Easy to read load chart books include range diagrams
- ▶ Twelve month or 2,000 hour crane warranty and five year or 10,000 hours warranty on major weldments

ROUGH TERRAIN
RT660B



ROUGH TERRAIN CRANE

RT660B

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ROUGH TERRAIN CRANES

Max. Lifting Capacity: 66 tons (60 mt)

FEATURES

- ▶ High strength, octagonal design to optimize weight.
- ▶ Single boom hoist cylinder provides boom elevation of -2° to 78° for easier reeving changes and close radius operation.
- ▶ Quick-reeving boom head; no need to remove wedge and socket from rope.
- ▶ 360° house lock standard.

ENVIRONMENTAL OPERATOR'S CAB

- ▶ Rated Capacity Indicator (RCI) system including anti-two block system with automatic function disconnects.
- ▶ Deluxe sixway adjustable operator's seat has mechanical suspension and adjustable head and arm rests.
- ▶ Sound and weather insulated for comfort.
- ▶ Upper and rear hinged window, front and upper anti-breaking window.
- ▶ Armrest mounted dual axis controls for winch(s), swing, boom elevation and boom telescope; foot control pedal for throttle.
- ▶ Cab heater and A/C.
- ▶ Complete instrumentation.
- ▶ External, centralized, easy accessible electric panel.

RUGGED EASY TO MANEUVER CARRIER

- ▶ Boxtype chassis construction with reinforcing cross members.
- ▶ Chassis is Terex designed and built with 4 x 4 x 4 drive.
- ▶ Full powershift transmission with torque converter; neutral safety start; three+three speeds forward and reverse.
- ▶ Hydraulic four wheel power steering for two wheel, fourwheel or crab steer.
- ▶ Fully air drum brakes on all four wheels.
- ▶ Fully independent hydraulic outriggers may be utilized fully extended to 23' (7.2 m) and in their half extended position, with steel pads.
- ▶ Tail swing only 152" (3.85 m).



- ▶ Standard electronic QSB6.7 200HP (149KW) TierIII compliant Cummins diesel engine.
- ▶ 79 gal (300 L) fuel tank.
- ▶ Earthmover style 26.50 x 25 P.R. tires standard.

POWERFUL, TWO SPEED MAIN & AUXILIARY WINCHES, STANDARD

- ▶ 492 fpm (150 m/min) maximum line speed, 15,783 lb (7,200 kg) maximum line pull, 11,684 lb (5,300 kg) permissible line pull.
- ▶ Integral automatic brake.
- ▶ Winch drum rollers.

HIGH CAPACITY, DEPENDABLE HYDRAULIC SYSTEM

- ▶ Two tandem gear pumps driven off the transmission. Combined system capability is 143 gpm (540 lpm).
- ▶ Hydraulic reservoir with 120 gal (550 L) capacity and full flow oil filtration system.

STANDARD FEATURES INCLUDE

26' (8 m) swing-on jib, offset 0° or 20° • Air conditioner • Cold weather starting aid • Work lights • Revolving amber light, 360° spotlight • Pintle hook front • Tire inflation kit

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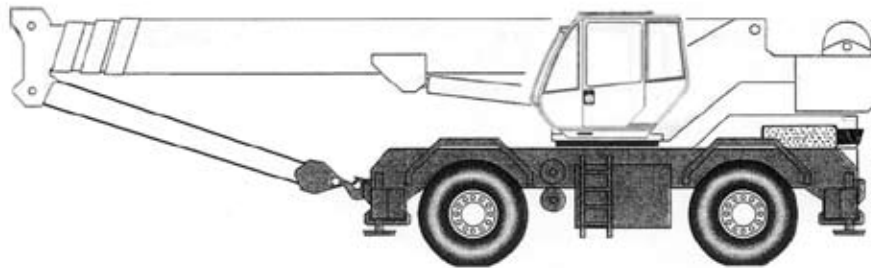
ROUGH TERRAIN CRANE

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Rough Terrain Crane Specifications

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STANDARD BOOM EQUIPMENT

BOOM

33-106' (10.3-32.4 m), four section full power boom. Separate extension of element 2 through double action hydraulic jack. Continuous proportional extension of elements 3 and 4 through double action hydraulic jack and inner chain-driven system.

Extension under partial load possible. The boom is a high-strength octagonal design, welded out on the neutral axis, with anti-friction slide pads.

A single boom hoist cylinder provides for boom elevation of -2° to 78° . Maximum tip height 115' (35 m).

BOOM HEAD

Welded to fourth section of boom. Six resin load sheaves and one idler sheaves mounted on heavy duty, anti-friction bearings.

Quick reeving boom head. Provision made for side-stow jib mounting.

OPTIONAL BOOM EQUIPMENT

JIBS

Jibs feature easy installation/stowage through use of spear type stowage system. Jibs utilize a single resin sheave mounted on anti-friction bearing. Jibs are quickly offsettable at 0° or 20° by relocating two pins. 26' (8 m) side stow swing-on one piece lattice type jib. Maximum tip height is 141' (43 m).

AUXILIARY BOOM HEAD

Removable auxiliary boom head has single metallic sheave mounted on anti-friction bearing. Removable pin-type rope guard for quick reeving. Installs on main boom peak only. Removable is not required for jib use.

HOOK BLOCK

Six plastic sheaves on anti-friction bearings with hook and hook latch. Quick reeving design does not require removal of wedge and socket from rope.

HOOK AND BALL

5,5 ton (5 mt) top swivel ball with hook and hook latch.



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STANDARD UPPERSTRUCTURE EQUIPMENT

UPPERSTRUCTURE FRAME

All welded one piece structure fabricated with high tensile strength alloy steel. Counterweight is bolted to frame.

TURNTABLE CONNECTION

Swing bearing is a double row, ball type, with internal teeth. The swing bearing is bolted to the revolving upperstructure and to the carrier frame.

SWING

A hydraulic motor drives a double planetary reduction gear for precise and smooth swing function. Swing speed (no load) is two rpm.

SWING BRAKE

Heavy duty multiple disc swing brake. Negative type: spring applied, hydraulically automatically released. Brake electro-hydraulic release for direct alignment of boom along load vertical line. Manually operated 360° mechanical house lock is standard.

RATED CAPACITY INDICATOR

Rated Capacity Indicator with visual and audible warning system and automatic function disconnects. Display includes: boom radius, boom angle, boom length, allowable load, actual load and percentage of allowable load. Operator settable alarms provided for swing angle, boom length, boom angle, tip height and work area exclusion zone. Anti-two block system includes audio/visual warning and automatic function disconnects.

OPERATORS CAB

Environmental cab with all steel construction, optimum visibility, tinted safety glass throughout and rubber floor matting. The cab has a sliding door on the left side, window on the right side, Upper and rear hinged window, front and upper anti-breaking window. Acoustical foam padding insulates against sound and weather. The deluxe sixway adjustable seat is equipped with a mechanical suspension and includes head and arm rests.



CONTROLS

All control levers and pedals are positioned for efficient operation. Armrest mounted dual axis controls for winch(s), swing, boom elevation and boom telescope. Armrest swings up to improve access and egress. Steering column mounted turn signal, wiper, and horn controls. Dashboards include ignition, engine stop, lights, cab AC and heater, steering mode, parking brake, outriggers, telescope mode. Horn and swing brake release switches are mounted in the levers. Foot control pedals include service brake and accelerator.

INSTRUMENTATION AND ACCESSORIES

In-cab gauges include air pressure, bubble level, fuel, engine coolant temperature. Indicators include low air, low engine oil pressure, high transmission temperature and Rated Capacity Indicator. Accessories include fire extinguisher; light package including headlights, tail light, brake lights, directional signals, four-way hazard flashers, dome light and backup lights with audible backup alarm; windshield washer/wiper; skylight wipers; R.H. and L.H. rear view mirrors; dash lights; and seat belt. Circuit breakers protect electrical circuits.

HYDRAULIC CONTROL VALVES

Valves are mounted on the side of the upperstructure and are easily accessible. Valves have hydraulic operators and include one two spool valve for main and auxiliary winch and one three spool valve for boom movements together with one single spool valve for swing. Quick disconnects are provided for ease of installation of pressure check gauges

STANDARD EQUIPMENT

Auxiliary Winch, Electro-hydraulic Heater, hydraulically powered Air Conditioner, Hour counter, Work Lights, Rotating Beacon.

STANDARD CARRIER EQUIPMENT

CARRIER CHASSIS

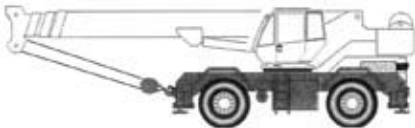
Chassis is Terex designed with four-wheel drive and four-wheel steer (4X4X4). Has box-type construction with reinforcing cross members, a precision machined turn table mounting plate and integrally welded outrigger boxers. Decking has antiskid surfaces, including between the frame rails lockable front tool storage compartment and access steps and handles on the left and right sides and on the front left and the rear right corners.

AXLES AND SUSPENSION

Rear axle is a planetary drive/steer type, oscillating mounted on the frame. Automatic oscillation lockouts that engage when the superstructure is swung 3° in either direction. Front axle is a planetary drive/steer type, rigid mounted to the frame for increased stability.

STEERING

Hydraulic four-wheel full power steering for two-wheel, fourwheel coordinated, or four-wheel crab steer is easily controlled by steering wheel. A rear axle centering light is provided.



	Turning Radius: (to CL of outside tire)	Curb Clearance Radius
Two-wheel:	48' (14.6 mt)	39' (11.82 mt)
Four-wheel:	25' 7" (7.8 mt)	17' 5" (5.3 mt)

TRANSMISSION

Range-shift type power-shift transmission with torque converter has neutral safety start, three+three speeds forward and three+three speeds reverse provides wide ratio coverage. Automatic pulsating backup alarm.



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STANDARD CARRIER EQUIPMENT (CONTINUED)

MULTI-POSITION OUT AND DOWN OUTRIGGERS

Fully independent hydraulic outriggers may be utilized fully extended to 23'(7,2 m) centerline to centerline or in their 1/2 extended position. Easily removable steel floats, each with an area of 514 in² (3318 cm²), stow in the front of the outrigger boxes near their point of use. Complete controls and a sight leveling bubble are located in the operator's cab.

WHEELS AND TIRES

Disk type wheels with full tapered bead seat rim. 150" (3.8 m) wheelbase.

TIRES

Wide earthmover (E3) style tread tires provide life and flotation. 26.5x25 P.R

SERVICE BRAKES

Split system fully air brakes on all four wheels, 20"x4.7" drum brakes on all wheels.

PARKING BRAKE

Springset, air released emergency/parking brake. On all wheels

HYDRAULIC SYSTEM

HYDRAULIC PUMPS

Two tandem gear type pumps. Combined system capability is 143 gpm (540 lpm).

- ▶ **Main winch pump**
53 gpm (201 lpm) @ 3,046 psi (214 kg/cm²)
- ▶ **Boom Hoist and Telescope Pump**
47 gpm (178 lpm) @ 3,336 psi (235 kg/cm²)
- ▶ **Power Steering and Winch Boost Pump**
20 gpm (76 lpm) @ 2,176 psi (153 kg/cm²)
- ▶ **Outrigger and Swing Pump**
22.8 gpm (86 lpm) @ 2,321 psi (163 kg/cm²)

FILTRATION

Full flow oil filtration system with bypass protection includes 25 micron replaceable return line filter.

HYDRAULIC RESERVOIR

All steel, welded construction with internal baffles an diffuser. Provides easy access to filters and is equipped with an external sight level gauge. Capacity is 112 gal (424 L). Hydraulic oil cooler is standard.

MAIN WINCH SPECIFICATIONS

Hydraulic winch with bent axis piston and planetary reduction gearing provides two-speed operation with equal speeds for power up and down. Winch is equipped with an integral automatic brake, smooth drum and standard cable roller on drum.

Performance	LO-Range	HI-Range
▶ Max line speed (no load)		
▶ First Layer	207 fpm (63 m/min)	364 fpm (111 m/min)
▶ Fourth Layer	242 fpm (74 m/min)	452 fpm (138 m/min)
▶ Max. line pull-first layer	16,1876 lb (7 200kg)	10,116 lb (4 500 kg)
▶ Max. line pull-fourth layer	13,039 lb (5 800 kg)	8,093 lb (3 600 kg)
▶ Permissible line pull	11,915 lb (5 300 kg)	

Drum Dimensions	Drum Capacity
▶ 16.5" (419 mm) drum diameter	Max. Storage: 820' (250 m)
▶ 23.23" (590 mm) length	on 5th layer
▶ 25.2" (640 mm) flange dia.	
▶ Cable: 3/4" x 650' (18 mm x 200 m)	
▶ Cable type: 3/4" x (18 mm) 27Wx7, right lang lay	

OPTIONAL AUXILIARY WINCH

Hydraulic 2-speed winch with bent axis piston motor, equal speed power up and down, planetary reduction with integral automatic brake, smooth drum and drum roller.

Performance	
▶ Max. line speed (no load) Fourth layer	318 fpm (97 m/min)
▶ Max. line pull First layer	11,240 lb (5 000 kg)
▶ Permissible line pull	8,543 lb (3 800 kg)

ENGINE SPECIFICATIONS

▶ Make and Model	Cummins QSB6.7
▶ Type	6 cylinder
▶ Displacement	409 cubic inches (6.7L)
▶ Rated HP	200 hp (149 kw) @ 2100 rpm
▶ Rated Torque	546 lb•ft (740 N•m) @ 1500 rpm
▶ Aspiration	turbocharged & charge air cooled
▶ Air Filter	dry type
▶ Electrical System	24 volt
▶ Alternator	70 amp
▶ Battery (2)	12V 200Ah 850A
▶ Fuel Capacity	79 gal (300 L)

PERFORMANCE (STANDARD ENGINE)

Trans- mission Gear	Forward Drive	Max. Speed	Max. Tractive Effort	Grade- ability @Stall
▶ Low 1	4-wheel	1.4 mph (2.3 kph)	70,924 lb (32 171 kg)	>100%
▶ Low 2	4-wheel	2.9 mph (4.6 kph)	34,145 lb (15 488 kg)	40.7%
▶ Low 3	4-wheel	7.5 mph (12.1 kph)	12,522 lb (5 680 kg)	12.7%
▶ High 1	2-wheel	4.0 mph (6.4 kph)	24,370 lb (11 054 kg)	27.3%
▶ High 2	2-wheel	8.0 mph (12.9 kph)	11,735 lb (5 323 kg)	11.7%
▶ High 3	2-wheel	19.9 mph (32.0 kph)	4,303 lb (1 952 kg)	3%

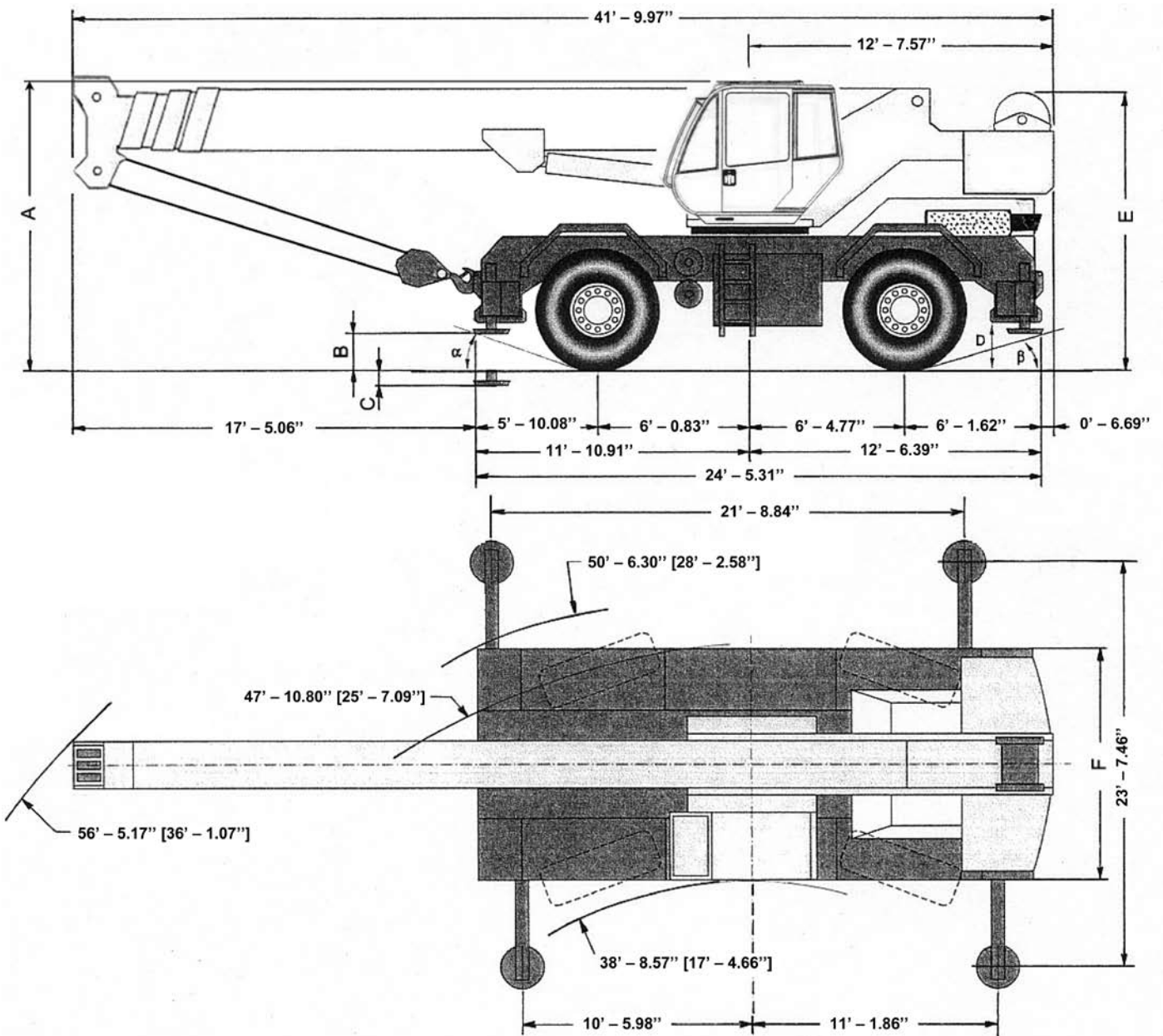
All performance data is based on a gross vehicle weight of 89,300 lb (40 500 kg). 26.5x25 tires, 4x4 drive. Performance may vary due to engine performance. Gradeability data is theoretical and is limited by tire slip, machine stability, or oil pan design.



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GENERAL DIMENSIONS



WEIGHTS & AXLE LOADS	GROSS WEIGHT LB	UPPER FACING FRONT		GROSS WEIGHT KG	UPPER FACING FRONT	
		FRONT	REAR		FRONT	REAR
Base Crane with 19,100 lb (8000 Kg) Counterweight	89,290	40,565	48,725	40,500	18,400	22,100
Add options: 26' *8 m(Swing/on Jib (Stowed)	+1,325	+2,780	-1455	+600	+1260	-660

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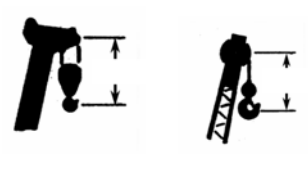
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Range Diagram and Lifting Capacity | RT660B

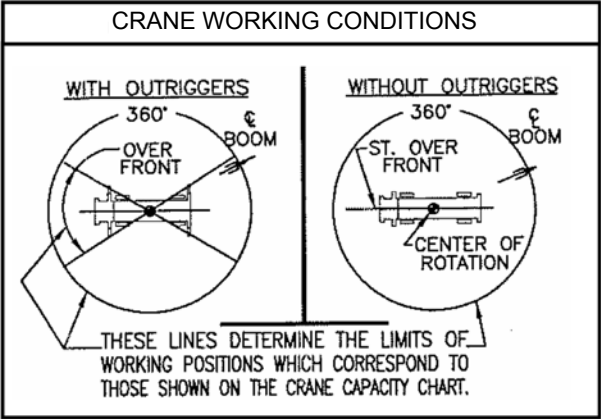
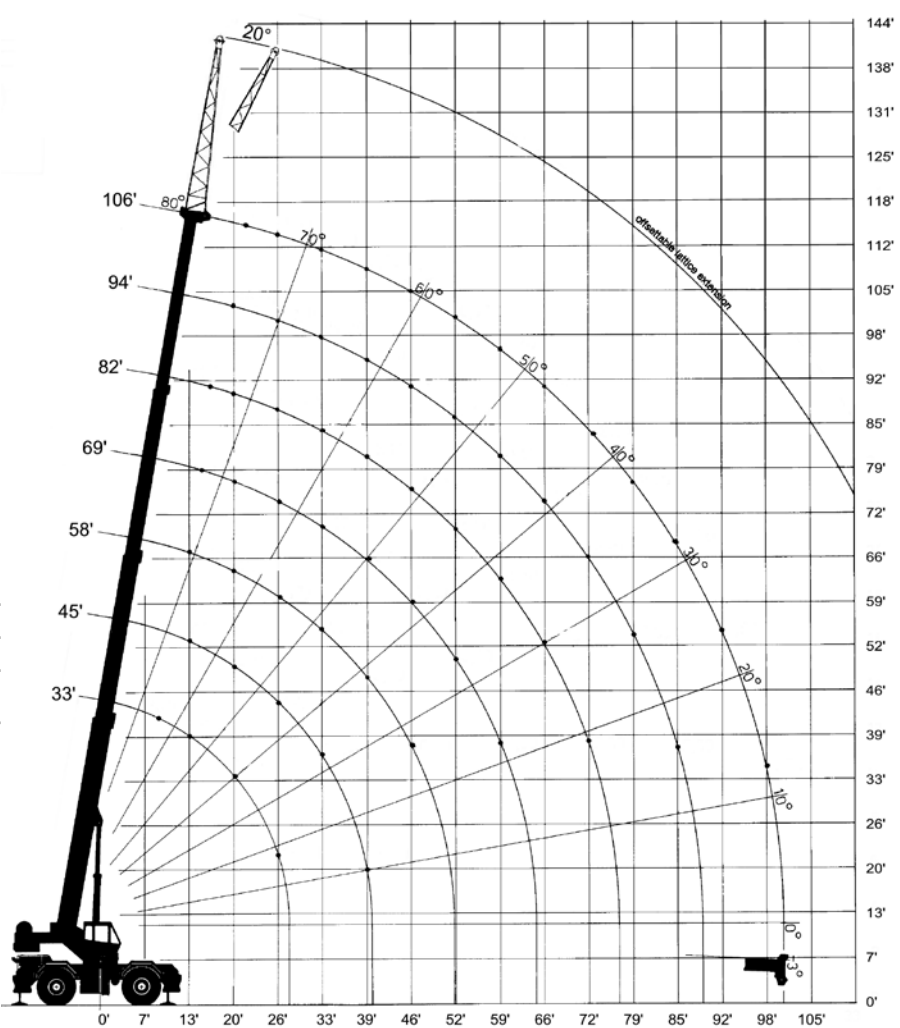
66 TON LIFTING CAPACITY

RANGE DIAGRAM 33` - 106` BOOM



Dimensions are for largest factory furnished hook block and hook & ball, with anti-two block activated.

COUNTERWEIGHT	W/AUX. WINCH 17,637 LB
BOOM LENGHT	33'-106'
OUTRIGGER SPREAD	23'
STABILITY PERCENTAGE	ON OUTRIGGERS 85% ON TIRES 75%
PCSA CLASS	10-210



REDUCTION IN MAIN BOOM CAPACITY

26' jib in stowed position 860 lb

HOOK BLOCK WEIGHTS

Hook and ball	239 lb
25T hook block (4 sheave)	690 lb
30T hook block (5 sheave)	888 lb
40T hook block (6 sheave)	913 lb



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LIFTING CAPACITIES

CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change

ON OUTRIGGERS FULLY EXTENDED



USE THESE CHARTS ONLY
WHEN ALL OUTRIGGERS ARE
FULLY EXTENDED

Load Radius (FT)	Boom lenght 33'		Boom lenght 45'		Boom lenght 58'		Boom lenght 69'		Boom lenght 82'		Boom lenght 94'		Boom lenght 106'	
	Boom angle	360° (LB)	Boom angle	360° (LB)	Boom angle	360° (LB)	Boom angle	360° (LB)	Boom angle	360° (LB)	Boom angle	360° (LB)	Boom angle	360° (LB)
10	67.5	120000												
12	64.5	108400												
15	58.0	85000	68.0	84800	73.0	72700								
20	47.0	69400	60.5	63900	67.5	59500	72.0	48500	75.0	40700	77.5	34100		
25	23.0	44000	50.0	42900	60.0	45100	65.5	38300	69.5	34100	73.0	29700	76.0	24900
30			44.0	37400	56.0	38500	62.5	34300	67.0	31900	71.0	27700	74.0	23300
35			27.0	29700	47.5	26400	56.0	27100	61.5	24200	67.0	23800	70.0	20700
40			13.0	25300	42.5	23100	52.5	23800	59.0	22000	64.5	21800	68.0	18500
45					30.0	17800	45.0	18500	53.0	18000	59.5	17800	64.0	15600
50					22.0	15800	41.0	16300	50.0	16300	57.0	16000	62.0	14100
55							31.0	12500	43.5	12700	51.5	13400	57.5	12300
60							25.0	11200	40.0	11000	49.0	12300	55.0	11400
65									31.5	8100	43.0	10300	50.5	9700
70									26.0	7000	40.0	9200	48.5	9000
75									10.0	5500	32.5	7400	43.0	7700
80											29.0	6600	40.0	7000
85											16.0	5000	33.5	5700
90													25.0	4400
95													20.0	3900
100													13.0	3700
△°	0°	30800	0°	13200	0°	9900	0°	7000	0°	4400	0°	3300	0°	2200



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LIFTING CAPACITIES

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ON OUTRIGGERS MID POSITION



USE THESE CHARTS ONLY
WHEN ALL OUTRIGGERS ARE
PINNED IN MID POSITION

Load Radius (FT)	Boom lenght 33'			Boom lenght 45'			Boom lenght 58'			Load Radius (FT)
	Boom angle	Over front (LB)	360° (LB)	Boom angle	Over front (LB)	360° (LB)	Boom angle	Over front (LB)	360° (LB)	
10	67.50	120000	95200							10
12	64.50	100800	83900	72.50	79300	78700	77.00	69800	69200	12
15	58.00	77800	66700	68.00	72000	66700	73.00	65200	64500	15
20	47.00	56800	37200	60.50	56800	37200	67.50	48500	37200	20
25	23.00	38100	21800	50.00	38100	21800	60.00	38100	21800	25
30				44.00	32600	17100	56.00	32600	17100	30
35				27.00	21800	11000	47.50	21800	11000	35
40				13.00	18100	9000	42.50	18100	9000	40
45							30.00	13100	5800	45
50							22.00	10800	4700	50
55										55
60										60
65										65
70										70
75										75
80										80
85										85
90										90
95										95
100										100
	0°	26400	13600	0°	16200	6800	0°	8300	2600	



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LIFTING CAPACITIES

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ON OUTRIGGERS MID POSITION



USE THESE CHARTS ONLY
WHEN ALL OUTRIGGERS ARE
PINNED IN MID POSITION

Load Radius (FT)	Boom lenght 69'			Boom lenght 82'			Boom lenght 94'			Boom lenght 106'			Load Radius (FT)
	Boom angle	Over front (LB)	360° (LB)	Boom angle	Over front (LB)	360° (LB)	Boom angle	Over front (LB)	360° (LB)	Boom angle	Over front (LB)	360° (LB)	
10													10
12													12
15	76.50	53100	52400										15
20	72.00	46700	38300	75.00	38900	38500	77.50	32700	32400				20
25	65.50	36100	23100	69.50	31300	24000	73.00	27800	24400	76.00	23500	23300	25
30	62.50	32600	18000	67.00	28100	19000	71.00	25500	19400	74.00	22000	20100	30
35	56.00	23400	11900	61.50	23800	12800	67.00	21200	11200	70.00	18700	14200	35
40	52.50	19500	9900	59.00	20600	10800	64.50	19600	9400	68.00	17400	12200	40
45	45.00	14600	6800	53.00	15600	7700	59.50	15600	7900	64.00	14700	8500	45
50	41.00	12400	5600	50.00	13400	6200	57.00	13600	6800	62.00	13800	7300	50
55	31.00	9400	3800	43.50	10200	4400	51.50	10600	4700	57.50	11000	5200	55
60	25.00	8100	2800	40.00	9000	3500	49.00	9700	3800	55.00	10100	4400	60
65			**	31.50	6900	2200	43.00	7400	2400	50.50	8300	3000	65
70			**	26.00	6200	**	40.00	6600	1900	48.50	7400	2600	70
75				10.00	4700	**	32.50	5100	**	43.00	6100	**	75
80							29.00	4700	**	40.00	5200	**	80
85							16.00	3600	**	33.50	4200	**	85
90										25.00	3400	**	90
95										20.00	2900	**	95
100										13.00	2500	**	100
	0°	6100	**	0°	4200	**	0°	3000	**	0°	2000	**	



ROUGH TERRAIN CRANE
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LIFTING CAPACITIES

CAUTION: Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change

ON OUTRIGGERS FULLY EXTENDED / JIB

Load Radius (FT)	Boom lenght 106 ft + Offset 26 ft				Load Radius (FT)
	Boom angle	0° Offset	Boom angle	20° Offset	
25	78.00	14300			25
30	76.50	13600			30
35	73.50	12300	77.50	6800	35
40	72.00	11600	76.00	6600	40
45	69.00	10500	73.00	6300	45
50	67.50	10000	71.50	6200	50
55	64.50	9000	68.00	6000	55
60	63.00	8500	66.00	5900	60
65	59.00	7200	63.00	5700	65
70	57.50	6600	61.50	5400	70
75	54.00	5200	58.00	4700	75
80	52.00	4500	56.00	4500	80
85	48.00	3600	52.00	3500	85
90	44.00	2800	48.00	2800	90
95	42.00	2500	45.50	2500	95
100	40.00	2200	43.00	2200	100
105	35.00	1500	38.00	1500	105



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ROUGH TERRAIN CRANE

RT660B**General Notes****RT660B****GENERAL**

1. Rated loads as shown on Lift Charts pertain to this machine as originally manufactured and equipped. Modifications to the machine or use of optional equipment or 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 shall be in compliance with the information in the Operator's, Parts and Safety Manuals supplied with this machine. If These manuals are missing, order replacements from the manufacturer through your distributor.
3. These warnings do not constitute all of the operating conditions for the crane. The operator and job site supervision must read the OPERATORS MANUAL, CIMA SAFETY MANUAL, APPLICABLE OSHA REGULATIONS, AND SOCIETY OF MECHANICAL ENGINEERS (ASME) SAFETY STANDINGS FOR CRANES.
4. This crane and its load ratings are in accordance with POWER CRANE & SHOVEL ASSOCIATION, STANDARD NO.4 SAE CRANE LOAD STABILITY TEST CODE J765A, SAE METHOD OF TEST FOR CRANE STRUCTURE J1063 AND APPLICABLE SAFETY CODE FOR CRANES, DERRICKS AND HOISTS, ASME/ANSI B30.5

DEFINITIONS

1. **LOAD RADIUS** - The horizontal distance from the axis of rotation before loading to the center of the vertical hoist line or tackle with a load applied.
2. **LOADED BOOM ANGLE** - It is the angle between the boom base section and the horizontal, after lifting the rated load at the rated radius. the boom angle before loading should be greater to account for deflections. The loaded boom angle combined with boom length give only an approximation of the operating radius.
3. **WORKING AREA** - Areas measured in a circular arc about the centerline of rotation as shown in the diagram.
4. **FREELY SUSPENDED LOAD** - Load hanging free with no direct external force applied except by the hoist rope.
5. **SIDE LOAD** - Horizontal force applied to the lifted load either on the ground or in the air.
6. **NO LOAD STABILITY LIMIT** - The stability limit radius shown on the range diagrams is the radius beyond which it is not permitted to position the boom, when the boom angle is less than the minimum shown on the applicable load chart, because the machine can overturn without any load.
7. **BOOM SIDE OF CRANE** - The side of the crane over which the boom is positioned when in OVER SIDE working position.

SET-UP

1. Crane load ratings are based on the crane being leveled and standing on a firm, uniform supporting surface.
2. Crane load ratings on outriggers are based on all outrigger beams being fully extended or in the case of partial extension ratings mechanically pinned in the appropriate position, and the tires free of the supporting surface.
3. Crane load ratings on tires depend on appropriate inflation pressure and the tire conditions. Caution must be exercised when increasing air pressures in tires. Consult Operator's Manual for precautions.
4. Use of jibs, lattice-type boom extensions, or fourth section pullouts extended is not permitted for pick and carry operations.
5. Consult appropriate section of the Operator's and Service Manual for more exact description of hoist line reeving.
6. The use of more parts of line than required by the load may result in having insufficient rope to allow the hook block to reach the ground.
7. Properly maintained wire rope is essential for safe crane operation. Consult Operator's Manual for proper maintenance and inspection requirements.
8. When spin-resistant wire rope is used, the allowable rope loading shall be the breaking strength divided by five (5), unless otherwise specified by the wire rope manufacturer.
9. Do not elevate the boom above the angle shown in the Lift Charts unless the boom is positioned in-line with the crane's chassis or the outrigger are extended. Failure to observe this warning may result in loss of stability.

OPERATION

1. **CRANE LOAD RATINGS MUST NOT BE EXCEEDED. DO NOT ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.**
2. When either radius or boom length, or both, are between listed values, the smaller of the two listed load ratings shall be used.
3. Do not operate at longer radii than those listed on the applicable load rating chart (cross hatched areas shown on range diagrams.)
4. The boom angles shown on the Capacity Chart give an approximation of the operating radius for a specified boom length. The boom angle, before loading, should be greater to account for boom deflection. It may be necessary to retract the boom if maximum boom angle is insufficient to maintain rated radius.
5. Power telescoping boom sections must be extended equally.
6. Rated loads include the weight of hook block, slings, and auxiliary lifting devices. Their weights shall be subtracted from the listed rated load to obtain the net load that can be lifted. When lifting over the jib the weight of any hook block, slings, and auxiliary lifting devices at the boom head must be added to the load. When jibs are erected but unused add two (2) times the weight of any hook block, slings, and auxiliary lifting devices at the jib head to the load.
7. Rated loads do not exceed 85% on outriggers or 75% on tires, of the tipping load as determined by SAE Crane Stability Test Code J765a.
8. Rated loads are based on freely suspended loads. No attempt shall be made to drag a load horizontally on the ground in any direction.
9. The user shall operate at reduced ratings to allow for adverse job conditions, such as: soft or uneven ground, out of level conditions, high winds, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, two machine lifts, traveling with loads, electric wires, etc. (side pull on boom or jib is hazardous). Derating of the crane's lifting capacity is required when wind speed exceeds 20 MPH. The center of the lifted load must never be allowed to move more than 3' off the center line of the base boom section due to the effects of wind, inertia, or any combination of the two.
**Use 2' off the center line of the base boom for a two section boom, 3' for a three section boom, or 4' for a four section boom."
10. The maximum load which can be telescoped is not definable, because of variations in loadings and crane maintenance, but it is permissible to attempt retraction and extension if load ratings are not exceeded.
11. Load ratings are dependent upon the crane being maintained according to manufacturer's specifications.
12. It is recommended that load handling devices, including hooks, and hook blocks, be kept away from boom head at all times.
13. Do not lift with outrigger beams positioned between the fully extended and intermediate (pinned) positions.

CLAMSHELL, MAGNET, AND CONCRETE BUCKET SERVICE

1. Weight of clamshell or magnet, plus contents are not to exceed 6,000 lb or 90% of rated lifting capacities, whichever is less. For concrete bucket operation, weight of bucket and load must not exceed 90% of rated lifting capacity.

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