



ROUGH TERRAIN CRANE RT 230-1

DATASHEET - IMPERIAL





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KEY

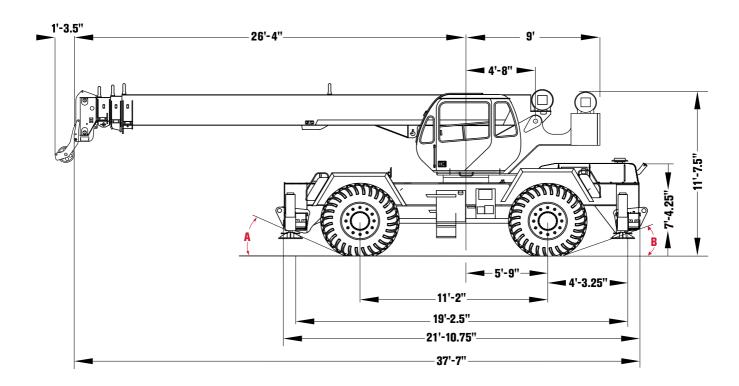
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	Counterweight		General performance
	Main boom		Telescoping mode
	Boom length	A	Boom luffing angle
1	Tip height		Working radius
	Boom with extension	R	Max. boom length with extension
	Main boom with aux head		Distance from the hook to the head sheave pin
(+)	Slewing / Allowable slewing range	(+) n	Slewing locked / Slewing locked at specified position
	Slewing brake	(+)	Slewing gears
	Outriggers / Lifting on outriggers (100/50/0% extended)		Lifting on wheels / Pick & Carry
1	Main hoist	2	Auxiliary hoist
	Hoist speed		Rope length
	Rope - Standard / Optional	<i>←∭∭</i>	Max. line pull
	Rope diameter	0	Tire
	Hook block		Controls
	Cab		Engine
	Operator aids / Load limiter / Load indicator	1-1	Steering
(Q)	Mechanical transmission		Speed
HYDR	Hydraulics	<u> </u>	Heating / Air conditioning
	Working temperature		Gradeability
	Lights	GVW	Gross vehicle weight
	Crane / Crane in standard configuration		Weight on front axle
	Crane without counterweight		Weight on rear axle
	Crane without counterweight	1	Weight on rear axle



CRANE DIMENSIONS

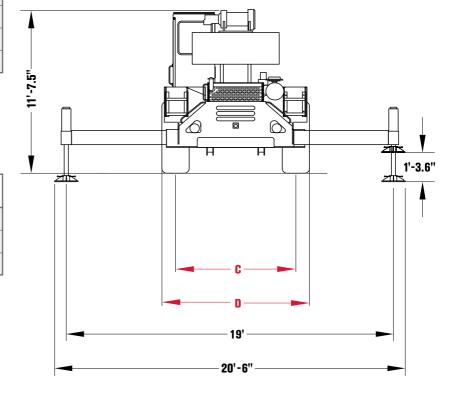
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Tire Variances	16.00 x 25	20.5 x 25
A (Approach Angle)	25.1°	25.1°
B (Departure Angle)	23.1°	23.1°
C (Tire Track)	6'-7.5"	6'-10.5"
D (Overall Width)	8'	8'-8"

Note:

All heights are based on 16.00×25 tires.



Outrigger Spread From Jack CL to Jack CL Fully Extended 19' Mid-Position 13'-2" Fully Retracted 7'-4.5"





CRANE WEIGHTS

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Approximate Weights

		Gvw		
		55,930 lb	28,972 lb	26,958 lb
Add / Su	btract for main optional equipment			
	26 ft to 43 ft swing on jib stowed	+1500 lb	+ 2600 lb	– 1100 lb
	Auxiliary boom head	+ 100 lb	+ 300 lb	– 200 lb
2	Auxiliary hoist*	+ 115 lb	– 25 lb	+ 140 lb
	4 sheaves, 30T	+ 655 lb	+ 1071 lb	– 416 lb
	3 sheaves, 30T	+ 670 lb	+ 1099 lb	– 429 lb
	2 sheaves, 25T	+ 682 lb	+ 1117 lb	– 435 lb
	7T Hookball	+ 240 lb	+ 290 lb	– 50 lb

NOTE: Values are subject to 2% variation

^{*} Weight includes rope

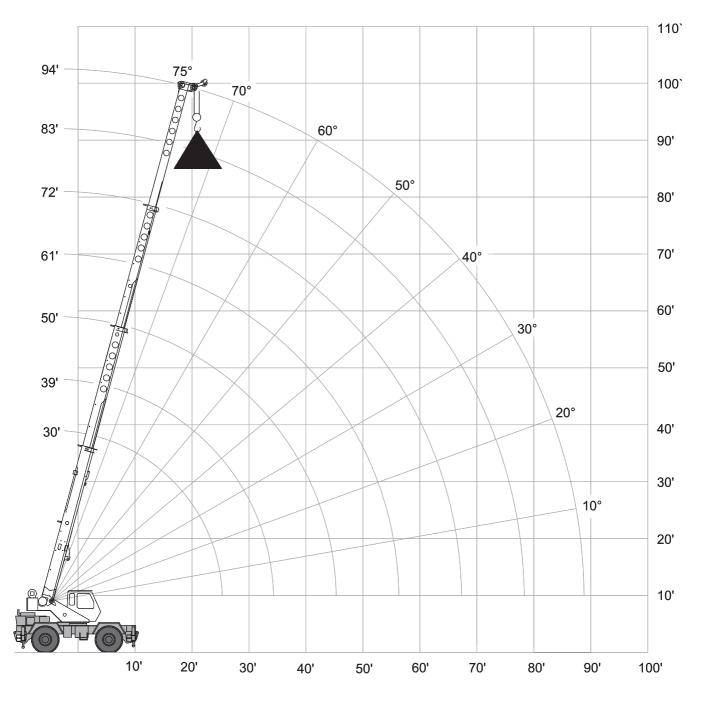


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Outriggers Fully Extended (100%)













RT 230-1

Outriggers Fully Extended (100%)



Sa	Boom Length						Sa	
	30.29 ft	39 ft	50 ft	61 ft	72 ft	83 ft	94 ft	
ft	lbs	lbs	lbs	lbs	lbs	lbs	lbs	ft
10	60,000	46,500						10
12	50,000	46,500	44,400					12
15	40,000	39,900	38,400	35,900				15
20	30,000	29,900	29,900	29,400	27,300			20
25	22,700	23,500	23,900	23,900	23,000	18,900	15,200	25
30		18,500	19,000	19,300	19,500	15,800	13,000	30
35			15,000	12,000	15,400	13,700	11,300	35
40			11,700	9,700	12,200	11,900	9,900	40
45			9,200	7,800	9,800	9,900	8,700	45
50				6,400	8,000	8,200	7,800	50
55					6,700	6,800	6,900	55
60					5,500	5,700	5,700	60
65					4,500	4,700	4,800	65
70						4,000	4,100	70
75						3,300	3,400	75
80							2,800	80
85							2,300	85

Notes to lifting capacity

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

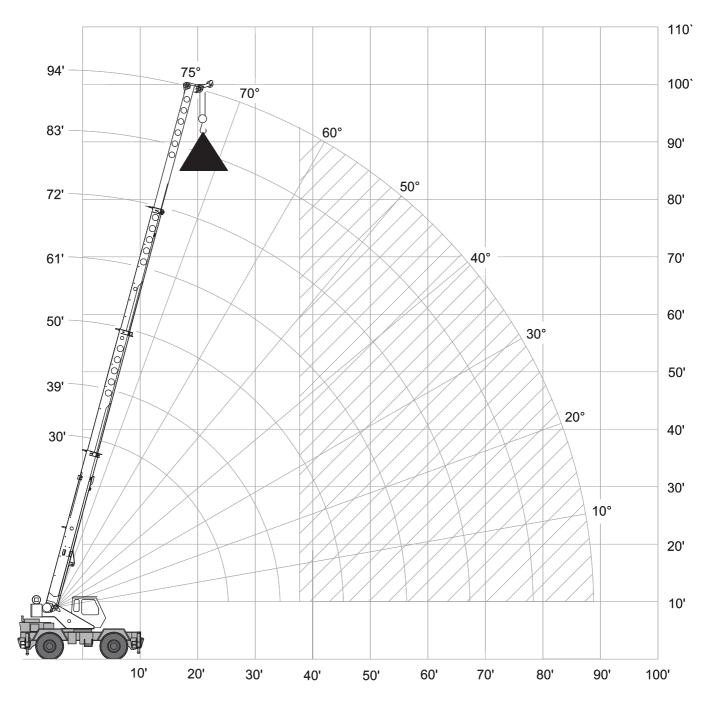


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Outriggers Fully Retracted (0%)













RT 230-1

Outriggers Fully Retracted (0%)



S	Boom Length						∕≫i	
	30.29 ft	39 ft	50 ft	61 ft	72 ft	83 ft	94 ft	
ft	lbs	lbs	lbs	lbs	lbs	lbs	lbs	ft
10	32,700	33,300						10
12	23,500	24,100	24,500					12
15	15,700	16,400	16,800	17,000				15
20	9,000	9,700	10,200	10,400	10,500			20
25	5,200	6,100	6,600	6,800	7,000	7,100	7,100	25
30		3,800	4,300	4,600	4,800	4,900	5,000	30
35			2,800	3,100	3,300	3,400	3,500	35
40			1,600	2,000	2,200	2,300	2,400	40
45				1,100	1,300	1,400	1,500	45
50						800	900	50

Notes to lifting capacity

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.



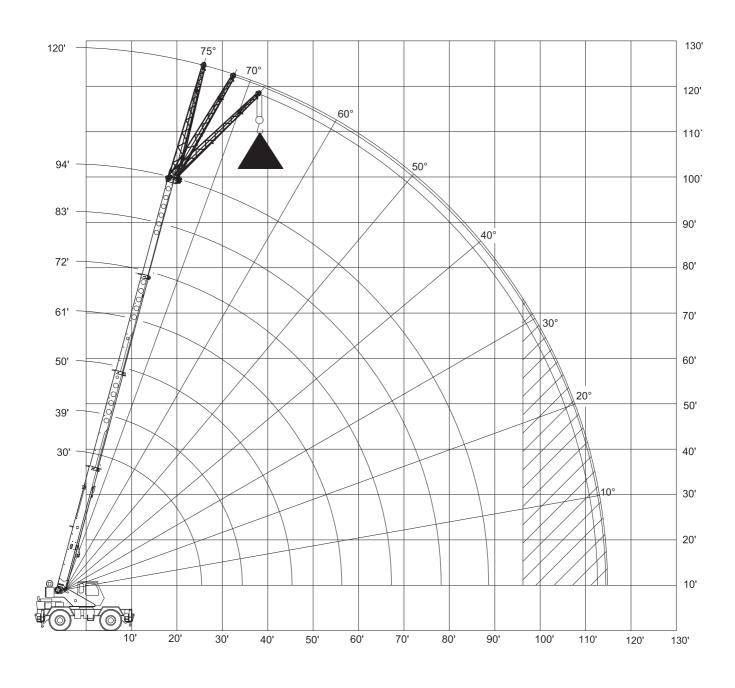


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With Jib, 26 ft offset











RT 230-1

With Jib, 26 ft offset



19 ft (100%)



Standard ASME B30.5

26 ft Offsettable Jib						
()°	1:	5°	3	0°	
ft ft	lbs	ft ft	lbs	ft ft	lbs	
35	9,000	40	7,300	45	5,500	
39	8,500	43	6,700	49	5,200	
43	8,000	47	6,200	52	4,900	
49	7,200	52	5,500	56	4,400	
54	6,200	57	5,000	61	4,000	
60	5,400	62	4,500	66	3,600	
64	4,700	67	4,000	71	3,300	
70	4,000	73	3,500	78	2,900	
76	3,400	79	3,100	84	2,700	
82	2,700	86	2,500	89	2,400	
87	2,200	91	2,100	93	2,200	
93	1,700	97	1,700	98	1,700	
100	1,300	102	1,300	104	1,300	
106	900	108	900			

Notes to lifting capacity

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

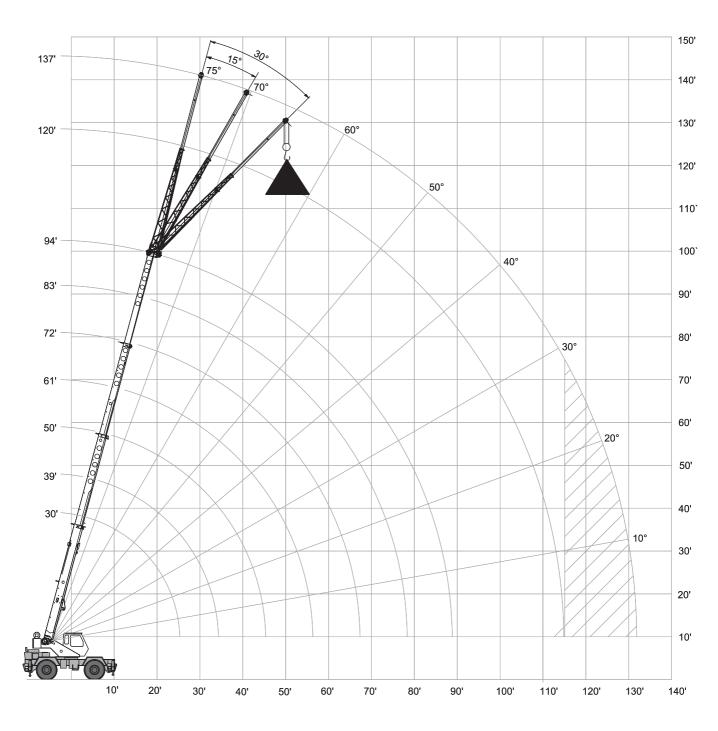


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With Jib, 43 ft offset













RT 230-1

With Jib, 43 ft offset



43 ft Offsettable Jib						
()°	1:	5°	3	0°	
ft	lbs	ft ft	lbs	ft ft	lbs	
41	5,000	50	3,300	62	2,600	
45	4,700	54	3,200	65	2,600	
49	4,400	58	3,100	68	2,500	
54	4,000	64	2,900	72	2,400	
60	3,700	70	2,800	77	2,400	
67	3,500	74	2,700	82	2,300	
75	3,300	81	2,600	88	2,300	
82	3,000	89	2,500	95	2,200	
88	2,800	96	2,400	100	2,200	
95	2,400	101	2,000	105	1,900	
101	2,000	107	1,600	110	1,500	
108	1,600	113	1,200	115	1,200	
116	1,100	119	900	121	900	

Notes to lifting capacity

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

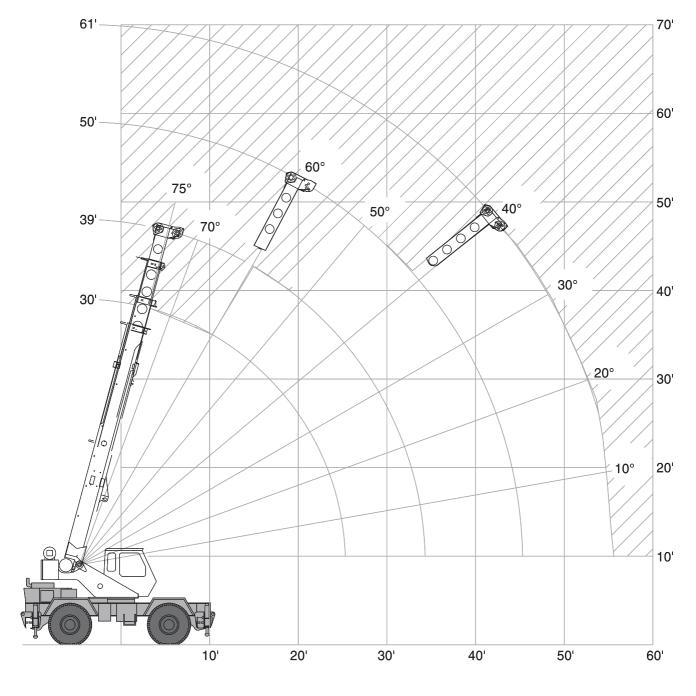


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On Tires













RT 230-1

On Tires







Standard ASME

Boom			Travel Speed Boom straight over front	
Radius	Length	0 mph	Сгеер	2.5 mph
ft	ft	lbs	lbs	lbs
10	30.29	23,900	34,600	23,600
12	30.29	18,900	29,800	20,100
15	39	14,000	24,300	16,000
20	39	8,300	16,500	11,400
25	50	5,300	11,100	8,200
30	50	3,300	8,000	6,200
35	50	1,900	6,000	4,900
40	61	1,200	4,800	3,800
45	61		3,800	3,000
50	61		2,700	2,300
55	61		2,000	1,700
60	72		1,400	1,200
65	72		1,100	800

Notes to lifting capacity

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.





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Boom

		Standard configuration:
48	4 sections hydraulic actuated boom	
ALL TO SERVICE OF THE PERSON O	Full power mechanically synchronized	
	Min. / Max.	30 ft / 94 ft
1	Boom elevation angle range (min. / max.)	-4° / 76°
		Optional configuration:
	Single sheave	
	One section, side stowable	
	Angular offsets	0, 15 and 30 degrees
	Angular offsets With one section jib With two section jib	0, 15 and 30 degrees 120 ft 147 ft

Hoist, Rope and Hook

	Standard configuration:				
1	Grooved drum Storage capacity	598 ft			
	Two speed ratios Without load in 6 th layer (low range / high range) Without load in 1 st layer (low range / high range)	297 ft/min / 475 ft/min 205 ft/min / 329 ft/min			
	6 x 19 IWRC XIPS, right regular lay, preformed				
		5/8 in			
		479 ft			
← 3333333 →	Max. line pull; 1 st layer low-range Max. line pull permissible	35,800 lbs 9,000 lbs			





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	Q	
	Optional configuration: Hook and ball 2 sheaves 3 sheaves 4 sheaves	7 ton 25 ton 30 ton 30 ton
2	Grooved drum Storage capacity	598 ft
	Without load in 6 th layer (low range / high range) Without load in 1 st layer (low range / high range)	205 ft/min / 329 ft/min 297 ft/min / 475 ft/min
	Rotation resistant compacted strand 18 x 19 or 19 x 19	
		5/8 in
		479 ft
←	Minimum breaking strength Max. line pull permissible	35,800 lbs 9,000 lbs

Superstructure

(+)	Standard configuration: Non stop Maximum rotation speed without load	360° 3 rpm
(+)	Hydraulic motor Planetary reducer	·
((+))	360° house lock Manually actuated by foot pedal	

Cab, Controls, Operator aids and Load limiter / Load indicator

Standard configuration:				
	Sliding door Tinted safety glass throughout Six way adjustable seat			
	Armrest mounted dual axis electro-proportional joysticks Steering wheel column with gear selector on the left and directional light selector on the right Dashboard mounted switches for outrigger operation			
	Graphic interface for load indicator			



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Optional configuration:



Heater Air conditioner Work lights Rotating beacon

Carrier, Engine, Drive-line and Hydraulic system

Standard configuration:



Hydraulic, independent extension: Diameter of outrigger pads

24 in 254 in²



Cummins QSB4.5 4 cylinders

Area of outrigger pads

Rated power
Maximum gross torque
Intake: turbocharger with intercooler

130 hp @ 2,300 rpm 459 ft·lb @ 1,500 rpm

Fuel type Diesel
Fuel tank capacity 50 gallons



6 x 6 powershift transmission with integral torque converter

Full time 4WD (Four-Wheel Drive)

Rigid mounted front axle

Oscillating rear axle

Differential lock on front axle and rear axle

Rear axle oscillation lock - manual or automatic actuation

Air-over-hydraulic disc brakes Parking brake on front axle Hydraulic oil cooler on carrier



Hydraulic power steering

Front wheel steering

Four wheel steering concentric

Four wheel steering crab

Optional rear wheel steering package



Hydraulic Pumps:

Tandem pumps:

Boom lift / Telescope

Power steering / Outriggers and Swing

Single pump:

Main and auxiliary hoist pump

39 gal/min @ 3,500 psi 21 gal/min @ 2,500 psi

53 gal/min @ 3,500 psi

Hydraulic oil reservoir capacity

Hydraulic oil suction filter

Hydraulic oil return filter

94 gallons 250 microns 5 microns







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Vehicle performance

	Standard configuration:
Max. in 1 st gear Max. in 6 th gear	112.34 % 3.77 %
Max. (6 th gear)	24.5 mph

Tires

IIres			
0	Wide tread earth mover pattern (E3)	Standard configuration:	20.5 x 25-26 PR
0	Wide tread earth mover pattern (E3)	Optional configuration:	16.00 x 25-28 PR



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