

ROUGH TERRAIN CRANE RT 230-1 XL

DATASHEET - IMPERIAL

WORKS FOR YOU.



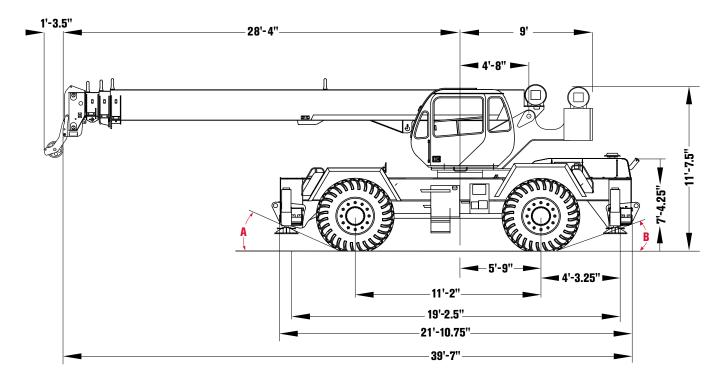
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Technical Description Boom Hoist, rope and hook Superstructure Cab, controls, operator aids and load limiter / load indicator Carrier, engine, drive-line and hydraulic system Vehicle performance	16 16,17 17 17,18 18





	Counterweight		General performance
	Main boom	ALLE TO SERVICE AND ADDRESS OF THE PARTY OF	Telescoping mode
	Boom length		Boom luffing angle
1	Tip height		Working radius
	Boom with extension		Max. boom length with extension
	Main boom with aux head		Distance from the hook to the head sheave pin
(F)	Slewing / Allowable slewing range	(1)	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	← \$\$\$\$\$\$\$\$	Max. line pull
	Rope diameter	0	Tire
	Hook block		Controls
	Cab		Engine
	Operator aids / Load limiter / Load indicator		Steering
(\$\$\$\$	Mechanical transmission		Speed
HYDR	Hydraulics	<u> </u>	Heating / Air conditioning
	Working temperature		Gradeability
$\equiv 0$	Lights	GVW	Gross vehicle weight
	Crane / Crane in standard configuration	1	Weight on front axle
	Crane without counterweight		Weight on rear axle

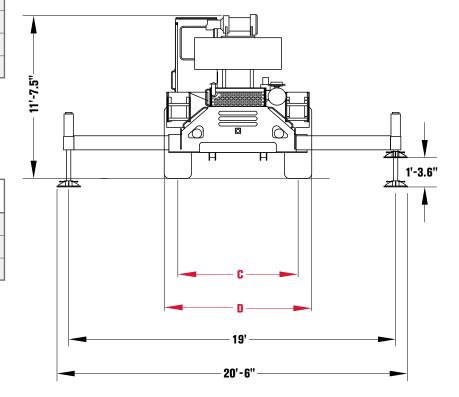
RT 230-1 XL



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 x 25 tires.



Outrigger Spread From Jack CL to Jack CL

Fully Extended	19'
Mid-Position	13'-2"
Fully Retracted	7'-4.5"



RT 230-1 XL

CRANE WEIGHTS

Approximate Weights

		GVW		
		55,930 lb	28,972 lb	26,958 lb
Add / Sul	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

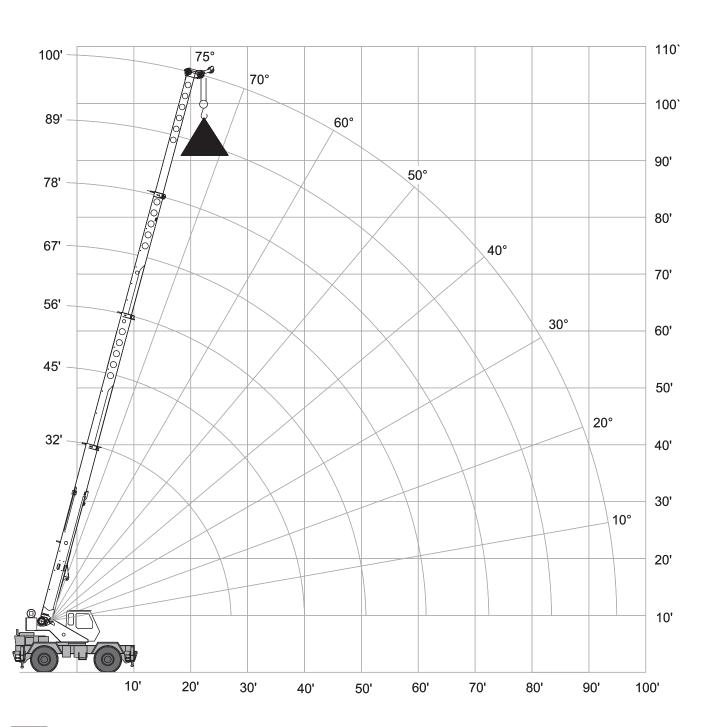
^{*} Weight includes rope

RT 230-1 XL

Outriggers Fully Extended (100%)









LOAD CHART - MAIN BOOM

Outriggers Fully Extended (100%)

8				Boom Length				R.
	32.29 ft	44.79 ft	55.79 ft	66.79 ft	77.79 ft	88.79 ft	99.79 ft	
ft	lbs	lbs	lbs	lbs	lbs	lbs	lbs	ft
10	60,000	46,500						10
12	48,900	45,100	43,000					12
15	42,500	39,100	37,100	35,700				15
20	30,000	30,900	30,300	29,000	26,900			20
25	22,400	23,400	23,800	24,100	22,600	20,300	15,000	25
30	19,300	18,400	18,800	19,100	19,300	17,400	12,800	30
35		13,800	14,300	14,500	14,700	14,800	11,100	35
40		10,400	11,100	11,300	11,500	11,600	9,700	40
45			8,700	9,000	9,200	9,300	8,600	45
50			6,900	7,300	7,500	7,600	7,600	50
55				5,900	6,100	6,200	6,300	55
60				4,700	5,000	5,100	5,200	60
65					4,100	4,200	4,300	65
70					3,300	3,500	3,600	70
75							2,900	75
80							2,400	80
85							1,900	85
90							1,400	90
95							1,000	95

Notes to lifting capacity

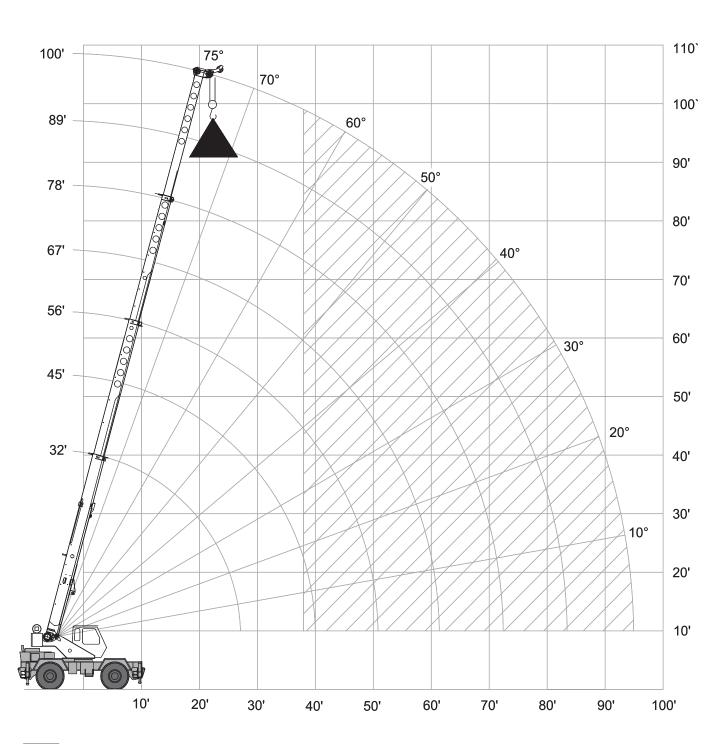
Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

RT 230-1 XL

Outriggers Fully Retracted (0%)









Outriggers Fully Retracted (0%)

M	Boom Length						∕7a	
	32.29 ft	44.79 ft	55.79 ft	66.79 ft	77.79 ft	88.79 ft	99.79 ft	
ft	lbs	lbs	lbs	lbs	lbs	lbs	lbs	ft
10	34,300	35,100						10
12	24,500	25,300	25,700					12
15	16,200	17,100	17,500	17,700				15
20	9,100	10,100	10,500	10,600	10,800			20
25	5,300	6,200	6,700	6,900	7,000	7,100	7,200	25
30	3,700	3,900	4,300	4,500	4,700	4,800	4,900	30
35		2,200	2,600	2,900	3,100	3,200	3,300	35
40		900	1,500	1,700	1,900	2,000	2,100	40
45				800	1,000	1,100	1,300	45

Notes to lifting capacity

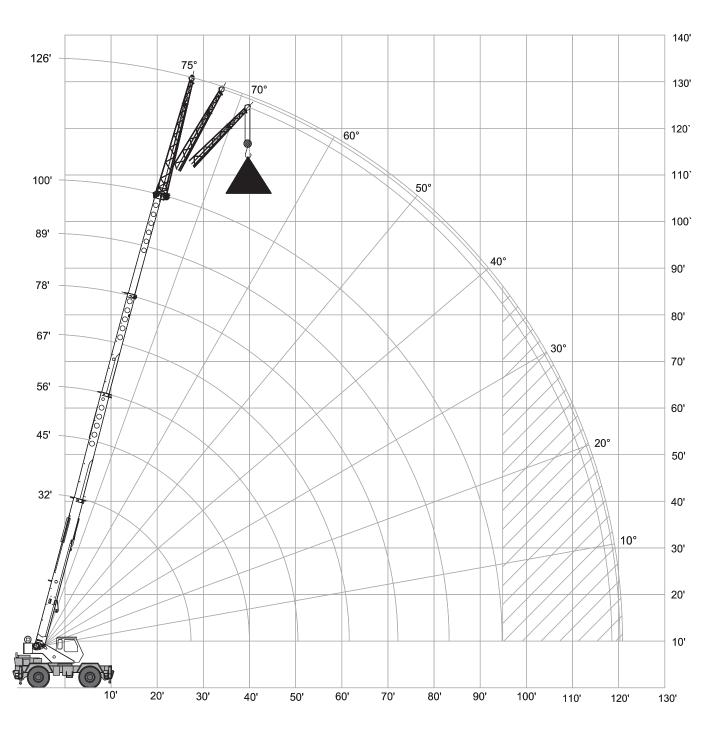
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RT 230-1 XL

With Jib, 26 ft offset









With Jib, 26 ft offset

10,000 lbs

19 ft (100%)

360

Standard ASME B30.5

26 ft Offsettable Jib					
()°	1:	5°	30°	
ft ft	lbs	ft ft	lbs	ft ft	lbs
37	9,000	43	7,300	47	5,500
41	8,500	46	6,700	51	5,200
44	8,000	50	6,200	55	4,900
50	7,200	55	5,500	60	4,400
56	6,200	60	5,000	65	4,000
61	5,400	65	4,400	70	3,600
66	3,900	70	3,800	74	3,200
73	3,000	77	3,100	80	2,700
80	2,400	84	2,500	86	2,200
86	1,900	90	1,900	92	1,700
93	1,400	96	1,400	98	1,300
100	900	102	900	103	900

Notes to lifting capacity

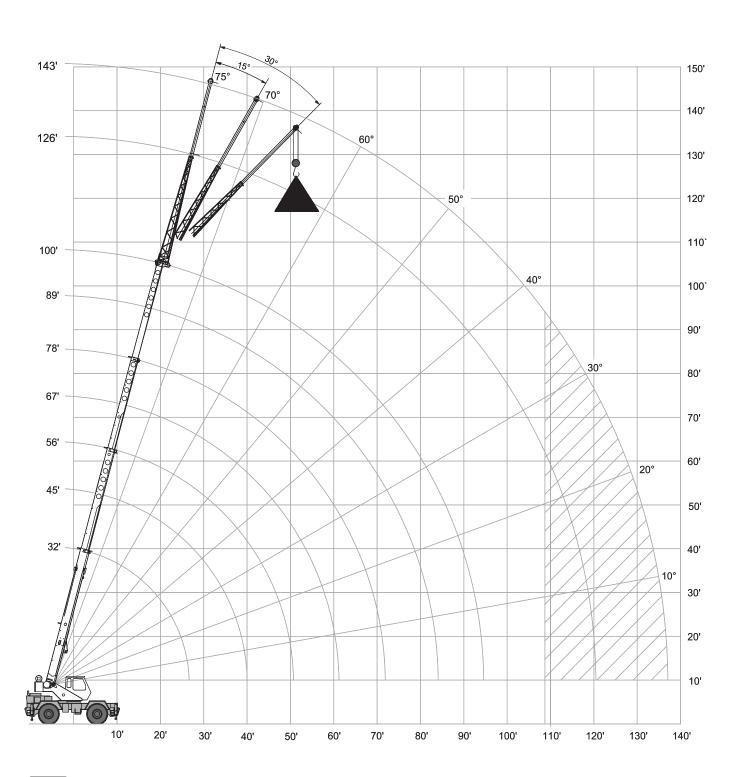
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RT 230-1 XL

With Jib, 43 ft offset









With Jib, 43 ft offset

10,000 lbs

19 ft (100%)

Standard ASME B30.5

43 ft Offsettable Jib					
C)°	1:	5°	3	0°
ft ft	lbs	ft ft	lbs	ft ft	lbs
41	5,000	51	3,300	59	2,600
46	4,700	56	3,200	63	2,600
51	4,400	61	3,100	67	2,500
58	4,000	67	2,900	74	2,400
64	3,700	74	2,800	80	2,400
70	3,500	79	2,700	85	2,300
76	3,300	85	2,600	90	2,300
83	2,800	91	2,500	96	2,200
90	2,200	98	2,000	102	1,900
98	1,800	106	1,600	108	1,500
106	1,300	112	1,200	114	1,100
115	900	119	800		

Notes to lifting capacity

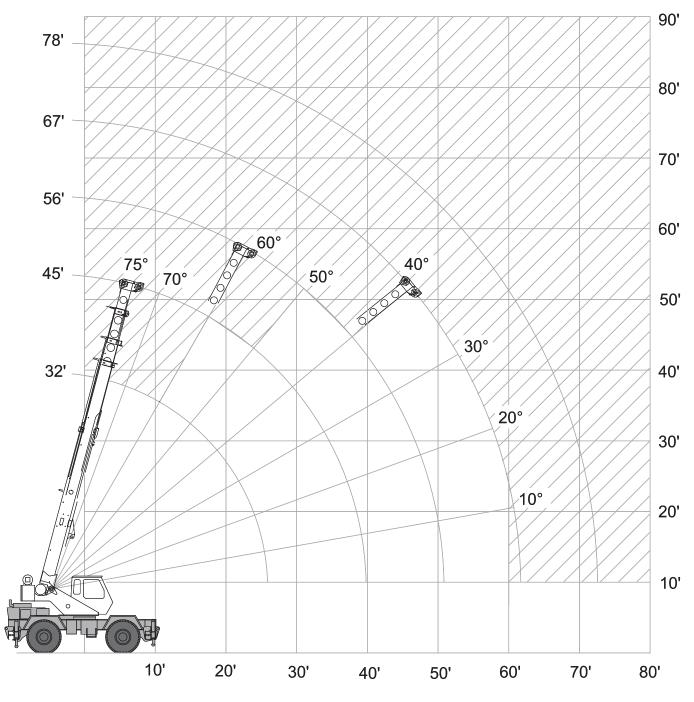
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RT 230-1 XL

On Tires









On Tires







Standard ASME B30.5

Во	oom		Travel Speed Boom straight over front	
Radius	Length	0 mph	Сгеер	2.5 mph
ft	ft	lbs	lbs	lbs
10	32	26,600	34,300	23,300
12	32	19,900	29,400	19,700
15	32	13,900	23,900	15,600
20	45	8,100	17,400	11,000
25	45	5,300	11,000	7,800
30	45	3,400	7,700	5,600
35	56	2,100	5,900	4,300
40	56	1,300	4,500	3,300
45	56	700	3,500	2,500
50	67		2,700	1,800
55	67		2,000	1,300
60	67		1,400	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.

Boom

2	Star	ndard configuration:
	4 sections hydraulic actuated boom	
WILLIAM TO SERVICE TO	Full power mechanically synchronized	
	Min. / Max.	32 ft / 100 ft
	Boom elevation angle range (min. / max.)	-4° / 76°
	Opt	ional configuration:
	Single sheave	
	One section, side stowable	
1	Angular offsets	0, 15 and 30 degrees
<i>5</i> 9 ↑	With one section jib	120 ft
// 81	With two section jib	147 ft

Hoist, Rope and Hook

Standard configuration:				
1	Grooved drum Storage capacity	598 ft		
	Two speed ratios Without load in 6th layer (low range / high range) Without load in 1st 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		
← 333333 →	Max. line pull; 1st layer low-range Max. line pull permissible	35,800 lbs 9,000 lbs		



TECHNICAL DESCRIPTION

	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 6th layer (low range / high range) Without load in 1st 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
← (333)3333. →	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		

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 Area of outrigger pads

24 in 254 in²



Cummins QSB4.5 4 cylinders

Rated power Maximum gross torque Intake: turbocharger with intercooler

Fuel type Fuel tank capacity Diesel

50 gallons

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



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

53 gal/min @ 3,500 psi

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

Hydraulic oil reservoir capacity Hydraulic oil suction filter Hydraulic oil return filter

94 gallons 250 microns 5 microns



TECHNICAL DESCRIPTION

Vehicle performance

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

Tires

0	Wide tread earth mover pattern (E3)	Standard configuration:	20.5 x 25-24 PR
•	Wide tread earth mover pattern (E3)	Optional configuration:	16.00 x 25-28 PR

NOTES



RT 230-1 XL

NOTES RT 230-1 XL

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Effective Date: October 2010.

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