

#### ROUGH TERRAIN CRANE RT 230-1

**DATASHEET - IMPERIAL** 



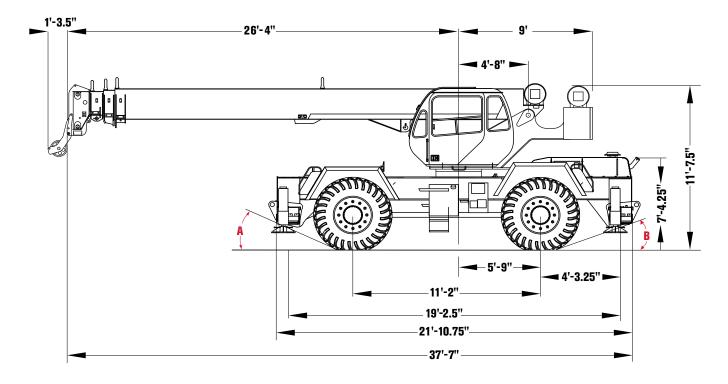
**WORKS FOR YOU.** 

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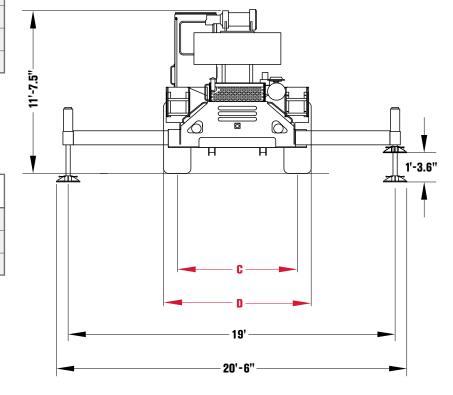
		General performance
	THE TOTAL PROPERTY OF THE PROP	Telescoping mode
	A	Boom luffing angle
		Working radius
		Max. boom length with extension
nead		Distance from the hook to the head sheave pin
slewing range		Slewing locked / Slewing locked at specified position
	(+)	Slewing gears
		Lifting on wheels / Pick & Carry
	2	Auxiliary hoist
		Rope length
ptional	-	Max. line pull
	0	Tire
		Controls
		Engine
limiter / Load indicator		Steering
sion		Speed
	<u> </u>	Heating / Air conditioning
		Gradeability
	Gvw	Gross vehicle weight
ndard configuration		Weight on front axle
erweight		Weight on rear axle
	nead slewing range n outriggers ed)  ptional  limiter / Load indicator sion  andard configuration  erweight	nead  slewing range  ptional  limiter / Load indicator  sion  address of the state



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 1

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



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# **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

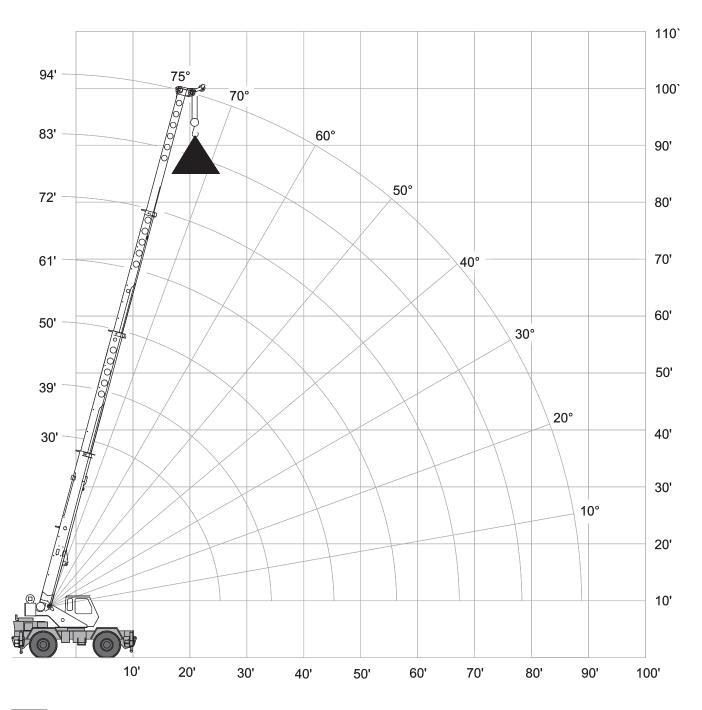
<sup>\*</sup> Weight includes rope

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### **Outriggers Fully Extended (100%)**









### **LOAD CHART - MAIN BOOM**

#### **Outriggers Fully Extended (100%)**

/ <del>Sa</del>	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**

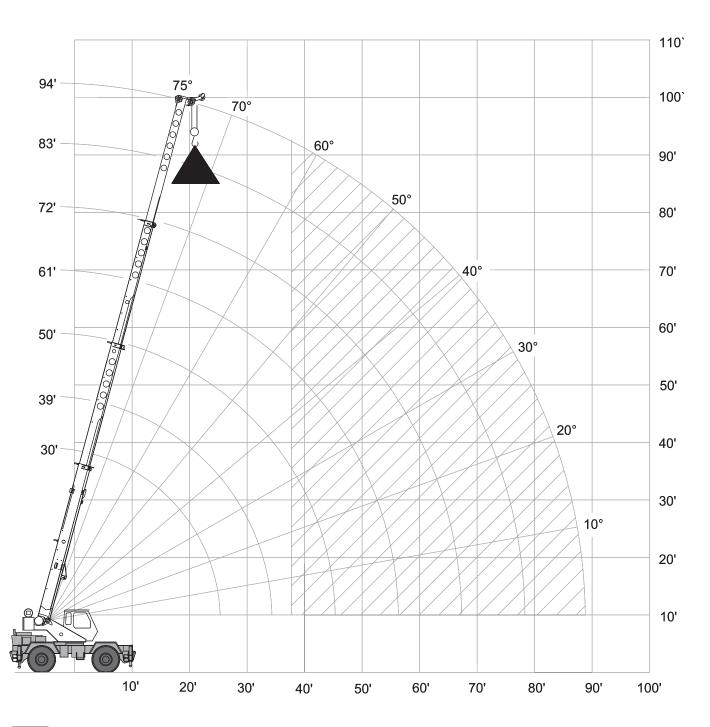
Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

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### **Outriggers Fully Retracted (0%)**









#### **Outriggers Fully Retracted (0%)**

Sa	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**

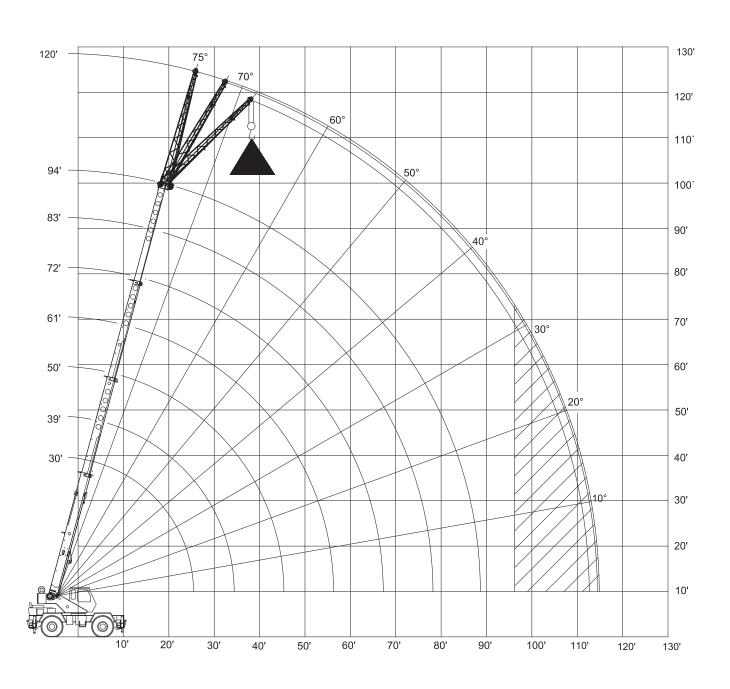
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#### With Jib, 26 ft offset









#### With Jib, 26 ft offset

10,000 lbs

19 ft (100%)

Standard ASME B30.5

26 ft Offsettable Jib					
C	)°	1:	5°	3	0°
ft ft	lbs	ft ft	lbs	Æ 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**

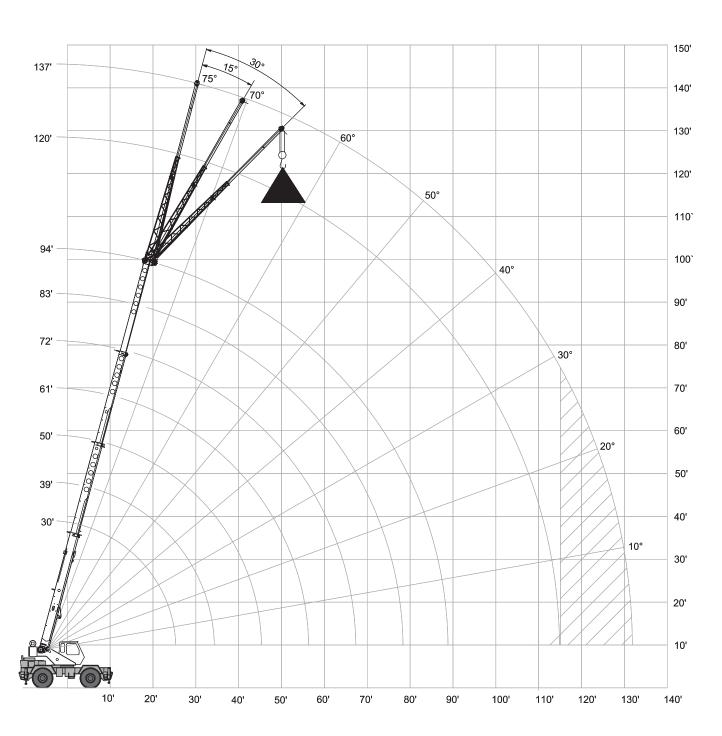
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#### With Jib, 43 ft offset









Standard ASME

B30.5

#### With Jib, 43 ft offset

10,000 lbs 19 ft (100%) + 360°

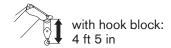
		43 ft Offs	ettable Jib		
(	)°	1:	5°	3	0°
					_
/√← ft	lbs	/√← <sup>8</sup> ft	lbs	/√← tt	lbs
41	5,000	50	3,300	62	2,600
45	4,700	54	3,200	65	2,600
49	4,400	58	3,100	68	2,500
54	4,000	64	2,900	72	2,400
60	3,700	70	2,800	77	2,400
67	3,500	74	2,700	82	2,300
75	3,300	81	2,600	88	2,300
82	3,000	89	2,500	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**

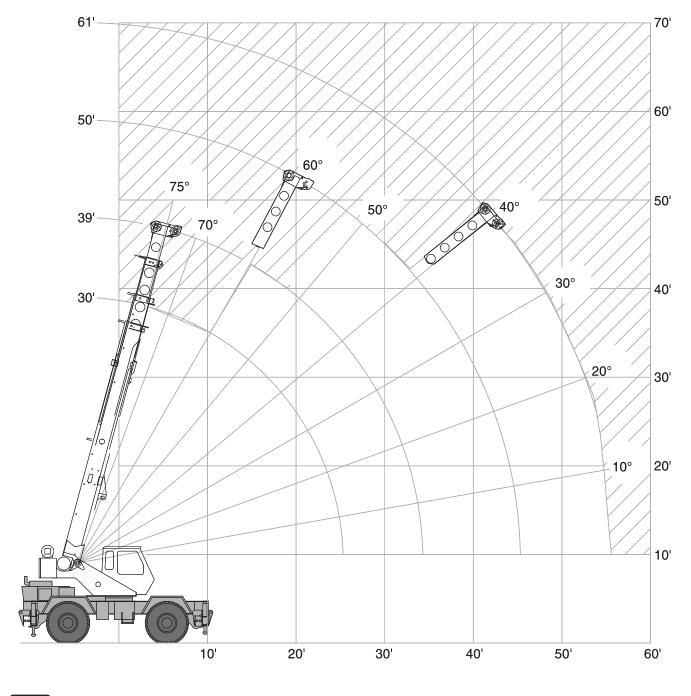
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#### **On Tires**









#### **On Tires**







Standard ASME B30.5

Во	om		Travel Speed Boom straight over front	
Radius	Length	0 mph	Creep	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.

# **TECHNICAL DESCRIPTION**

#### Boom

۵		Standard configuration:
	4 sections hydraulic actuated boom	
MILLIA S	Full power mechanically synchronized	
	Min. / Max.	30 ft / 94 ft
	Boom elevation angle range (min. / max.)	-4° / 76°
		Optional configuration:
	Single sheave	
	One section, side stowable	
A S	Angular offsets	0, 15 and 30 degrees
<b>1</b>	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 6 <sup>th</sup> layer (low range / high range) Without load in 1 <sup>st</sup> 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			
<b>←‱</b>	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	7 ton 25 ton		
Æ	3 sheaves 4 sheaves	30 ton 30 ton		
	4 STIGAVES	00 1011		
2	Grooved drum Storage capacity	598 ft		
	Without load in 6 <sup>th</sup> layer (low range / high range)	205 ft/min / 329 ft/min		
$\mathcal{A}\mathcal{D}$	Without load in 1 <sup>st</sup> layer (low range / high range)	297 ft/min / 475 ft/min		
	Rotation resistant compacted strand 18 x 19 or 19 x 19			
		5/8 in		
		479 ft		
<b>←         </b> →	Minimum breaking strength	35,800 lbs		
	Max. line pull permissible	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 in<sup>2</sup>



Cummins QSB4.5 4 cylinders

Rated power Maximum gross torque Intake: turbocharger with intercooler

Fuel type

Diesel

50 gallons

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

Fuel tank capacity



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**

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

#### **Tires**

11169			
0	Wide tread earth mover pattern (E3)	Standard configuration:	20.5 x 25-26 PR
	Wide tread earth mover pattern (E3)  Wide tread earth mover pattern (E3)	Optional configuration:	20.5 x 25-26 PR 16.00 x 25-28 PR



NOTES RT 230-1

#### www.terexcranes.com

Effective Date: October 2010.

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