

RT 230

Rough Terrain Crane Datasheet



Features:

- Rated capacity: 30 ton @ 10 ft working radius
- Maximum boom length: 94 ft
- Maximum tip height: 140 ft

WORKS FOR YOU.

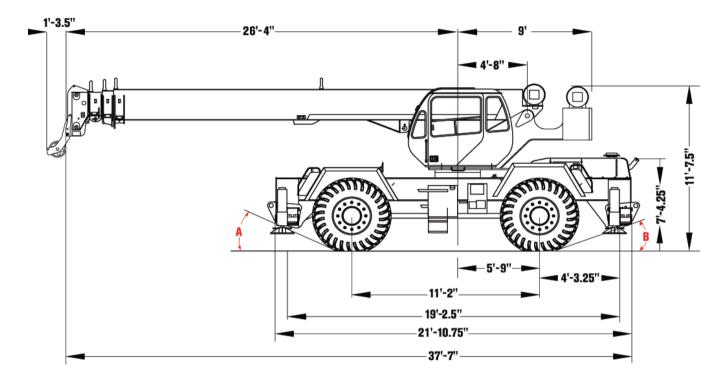
Key	3
Dimensions Crane dimensions Crane weights	4 5
Load Chart - Main Boom - 26 ft offsettable jib Range Diagram - Main Boom - 43 ft offsettable jib Load Chart - Main Boom - 43 ft offsettable jib Range Diagram - Main Boom - On tires	6 7 8 9 10 11 12 13 14 15
Hoist, rope and hook	16 6, 17 17 7, 18 3, 19





	Counterweight		General performance
	Main boom	ALL THE STATE OF T	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	+	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 - Standard / Optional Rope diameter	6	Max. line pull Tire
	Rope diameter		Tire
	Rope diameter Hook block		Tire Controls
	Rope diameter Hook block Cab		Tire Controls Engine
HYDR	Rope diameter Hook block Cab Operator aids / Load limiter / Load indicator		Tire Controls Engine Steering
(Ö)(Ö)	Rope diameter Hook block Cab Operator aids / Load limiter / Load indicator Mechanical transmission		Tire Controls Engine Steering Speed
€ÖŞ€ÖŞ HYDR	Rope diameter Hook block Cab Operator aids / Load limiter / Load indicator Mechanical transmission Hydraulics		Tire Controls Engine Steering Speed Heating / Air conditioning
€ÖŞ€ÖŞ HYDR	Rope diameter Hook block Cab Operator aids / Load limiter / Load indicator Mechanical transmission Hydraulics Working temperature	111	Tire Controls Engine Steering Speed Heating / Air conditioning Gradeability
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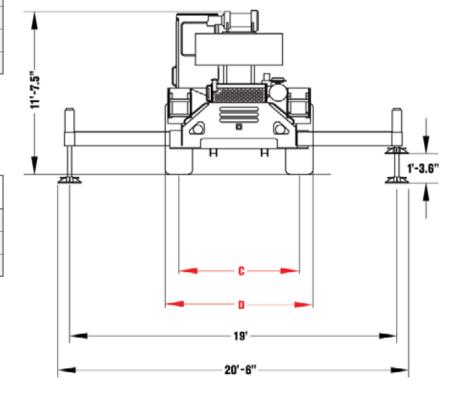
CRANE DIMENSIONS



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 20.5 x 25 tires.



Outrigger SpreadFrom Jack CL to Jack CLFully Extended19'Mid-Position13'-2"Fully Retracted7'-4.5"



CRANE WEIGHTS

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

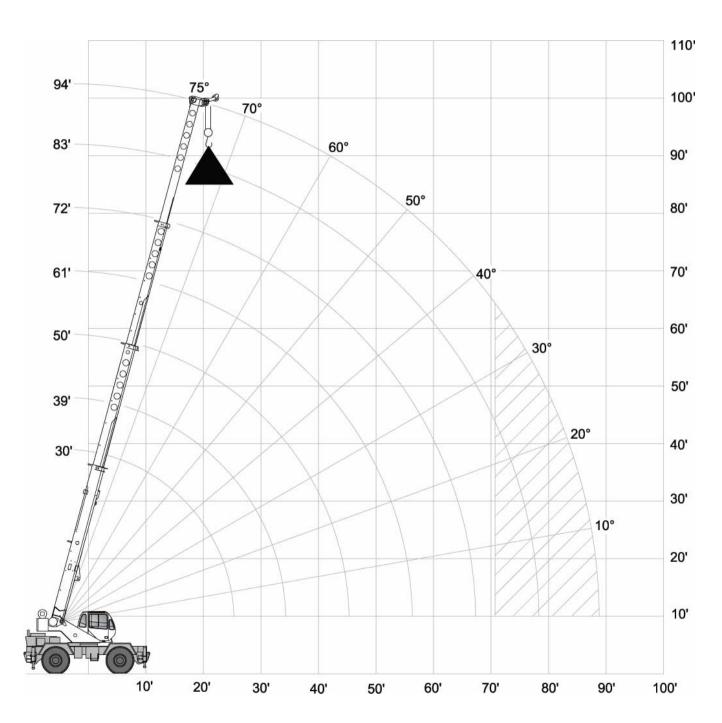
^{*} Weight includes rope

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Outriggers Fully Extended (100%)









Outriggers Fully Extended (100%)

∕₹n	Boom Length							M
	30.29 ft	39 ft	50 ft	61 ft	72 ft	83 ft	94 ft	A S
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

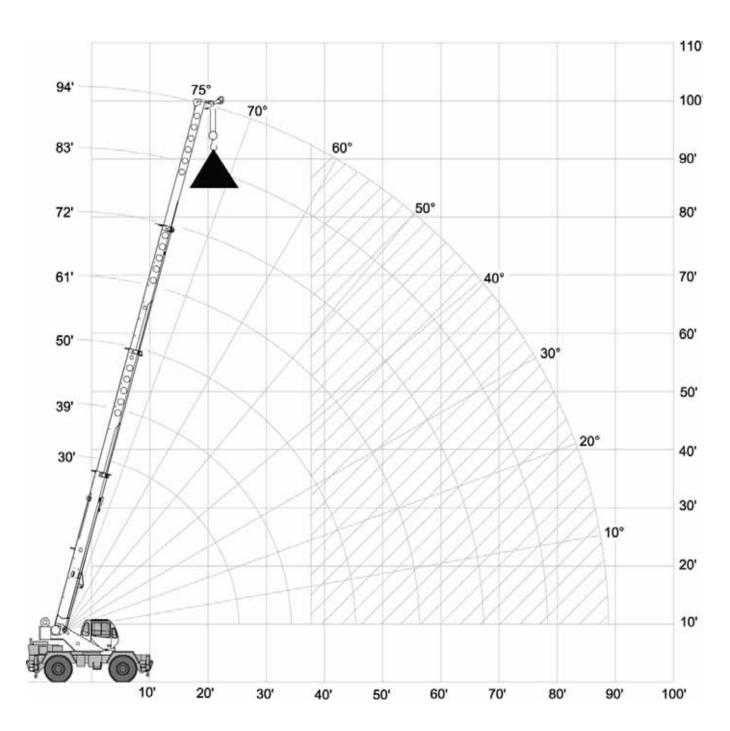
Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

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Outriggers Fully Retracted (0%)







Outriggers Fully Retracted (0%)

S70	Boom Length						M	
	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

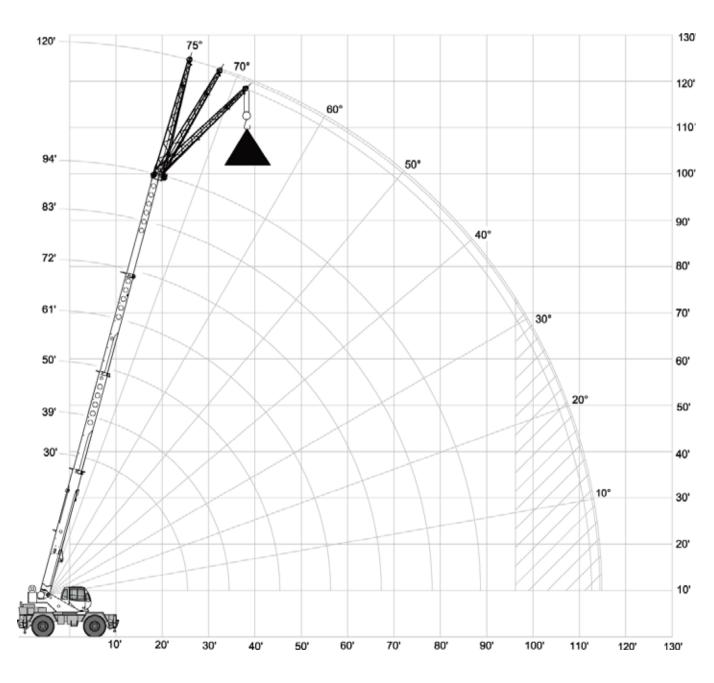
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With Jib, 26 ft offset









With Jib, 26 ft offset

26 ft Offsettable Jib						
C)°	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

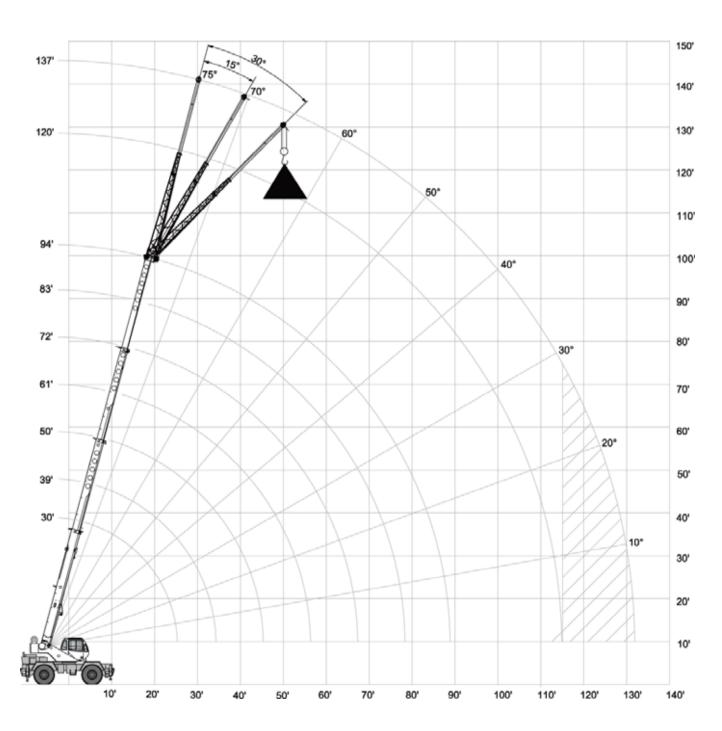
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With Jib, 43 ft offset









With Jib, 43 ft offset

10,000 lbs 19 ft (100%) \$\frac{1}{+}\$ 360° 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	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

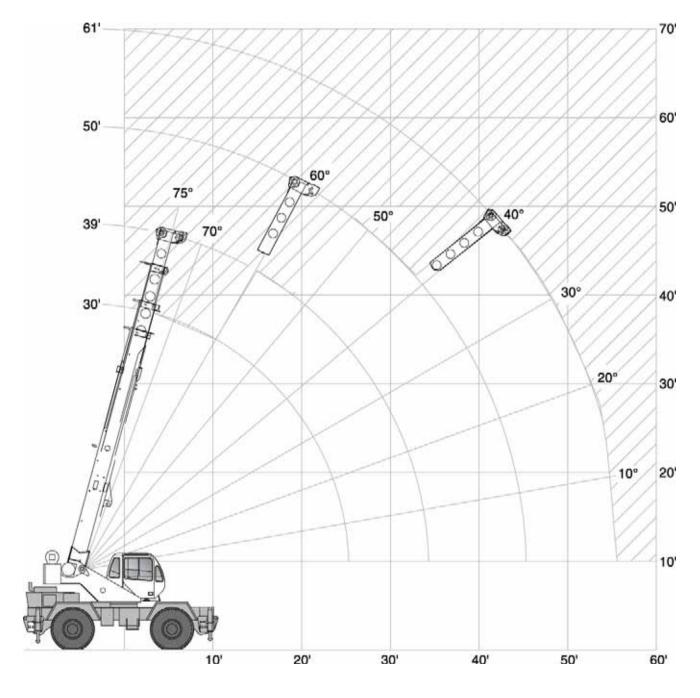
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On Tires









On Tires





Standard ASME B30.5

Boom		Stationary 360°	Travel Speed Boom straight over front	O + n
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

R		Standard configuration:
	4 sections hydraulic actuated boom	
MILITA 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	0.45 100
	Angular offsets	0, 15 and 30 degrees
1	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 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
← →	Max. line pull; 1 st 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
Ā	3 sheaves 4 sheaves	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	
((+))	Foot actuated pedal – provides variable braking force	
	Travel Lock – 360° house lock	

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



Tier 4i

Cummins QSB4.5 4 cylinders

Rated power Maximum gross torque

Intake: turbocharger with intercooler

Fuel type

Fuel tank capacity

Ultra Low Sulfur Diesel (ULSD, max 15 ppm)

50 gallons

130 hp @ 2,200 rpm

457 ft·lb @ 1,500 rpm

130 hp @ 2,200 rpm

457 ft·lb @ 1,500 rpm

Tier 3

Cummins QSB4.5 4 cylinders

Rated power Maximum gross torque Intake: turbocharger with intercooler

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



TECHNICAL DESCRIPTION

HYDR	
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Hydraulic Pumps:

Tandem pumps:

Boom lift / Telescope 39 gal/min @ 3,500 psi
Power steering / Outriggers and Swing 21 gal/min @ 2,500 psi

Single pump:

Main and auxiliary hoist pump 53 gal/min @ 3,500 psi

Hydraulic oil reservoir capacity94 gallonsHydraulic oil suction filter250 micronsHydraulic oil return filter5 microns

Vehicle performance

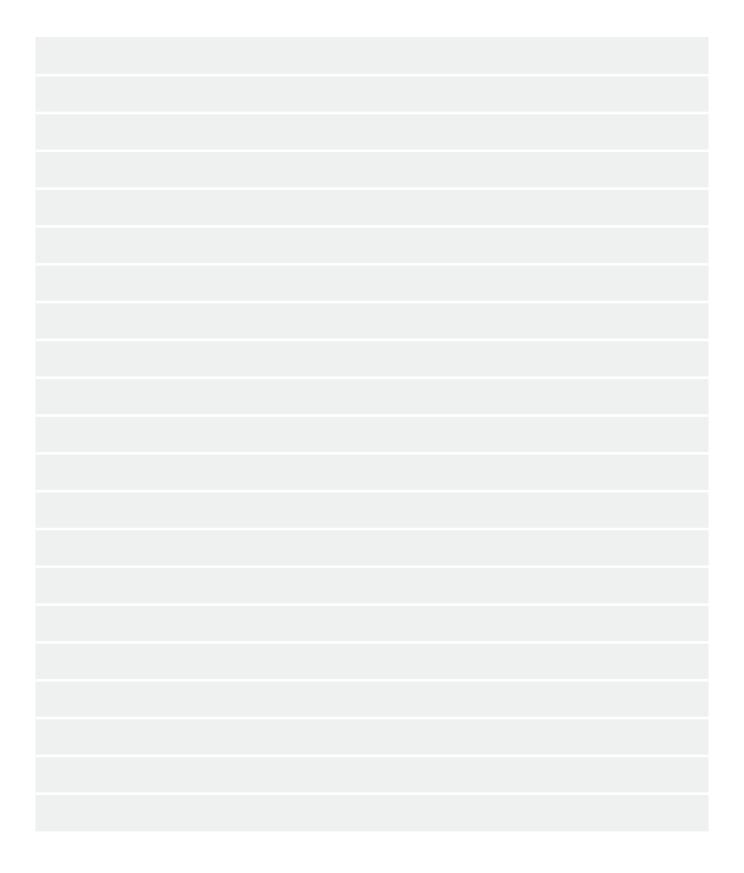
Sta	andard configuration:
Max. in 1 st gear Max. in 6 th gear	112.34 % 3.77 %
Max. (6 th gear)	24.5 mph

Tires

0	Wide tread earth mover pattern (E3)	Standard configuration:	20.5 x 25-26 PR
0	Wide tread earth mover pattern (E3)	Optional configuration:	16.00 x 25-28 PR
	Spare wheel		20.5 x 25-24 PR



RT 230



Effective Date: November 2013.

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