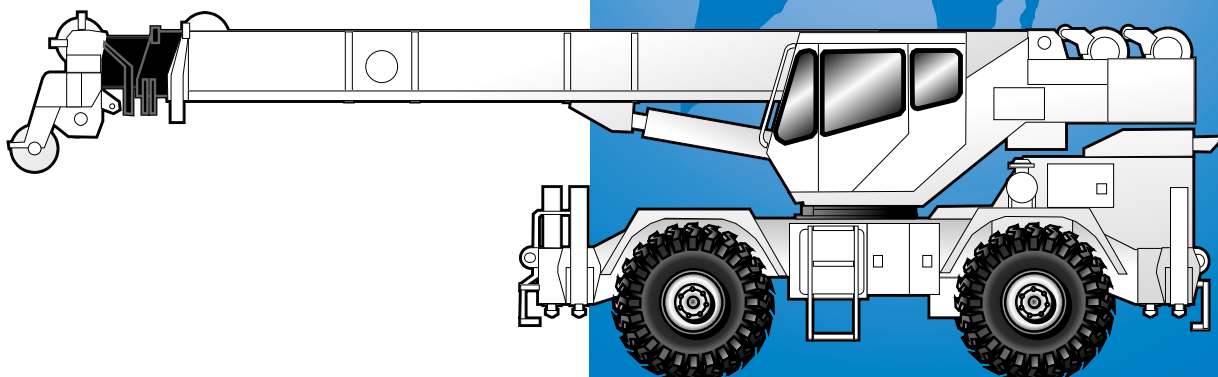




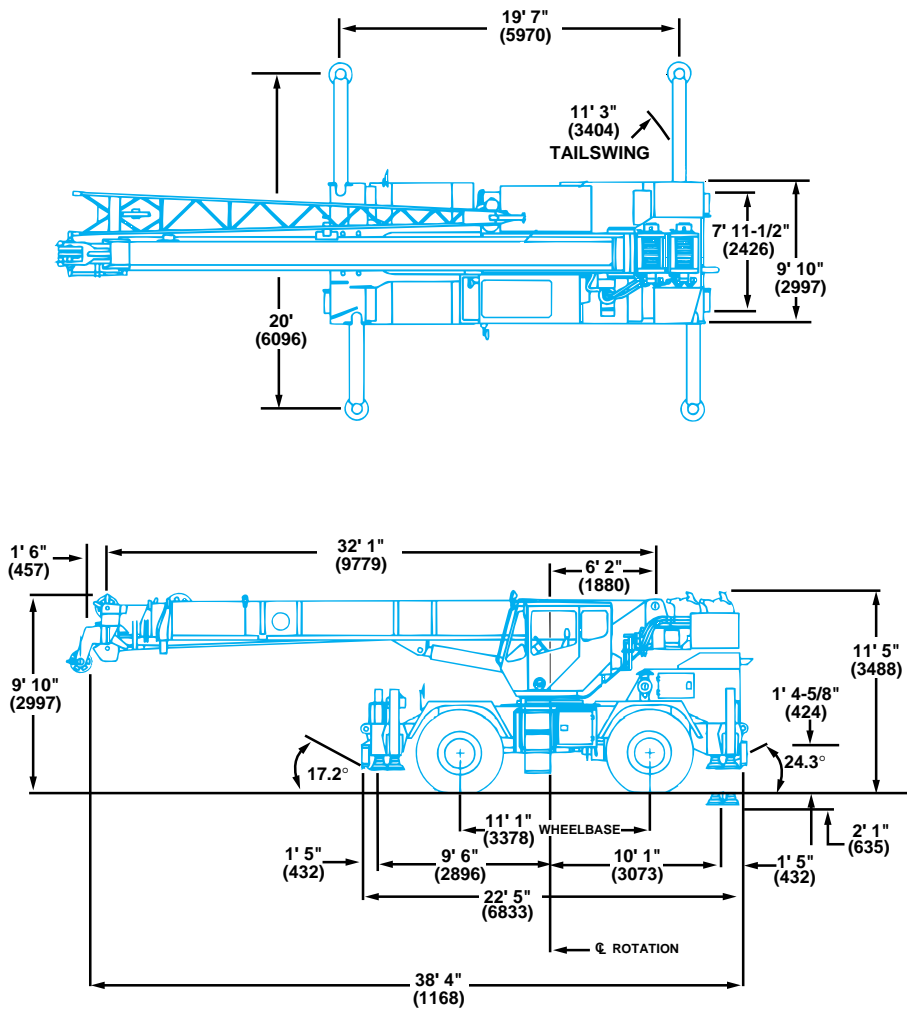
# RT500DXL



## Rough Terrain Hydraulic Crane



## Dimensions



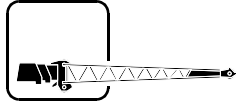
- Turning Radius . . . . . 18' 1" (5516 mm)**
- Front Axle Load . . . . . 28,766 lbs. (13 048 kg)**
- Rear Axle Load . . . . . 32,636 lbs. (14 804 kg)**
- Gross Vehicle Weight . . . . . 61,402 lbs. (27 852 kg)**



# Working Range



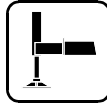
32 - 90 ft.  
(9.8 - 27.4 m)



25 - 43 ft.  
(7.6 - 13 m)

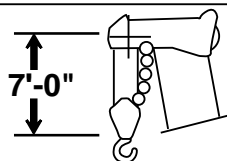
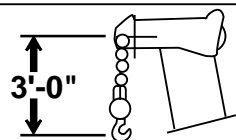
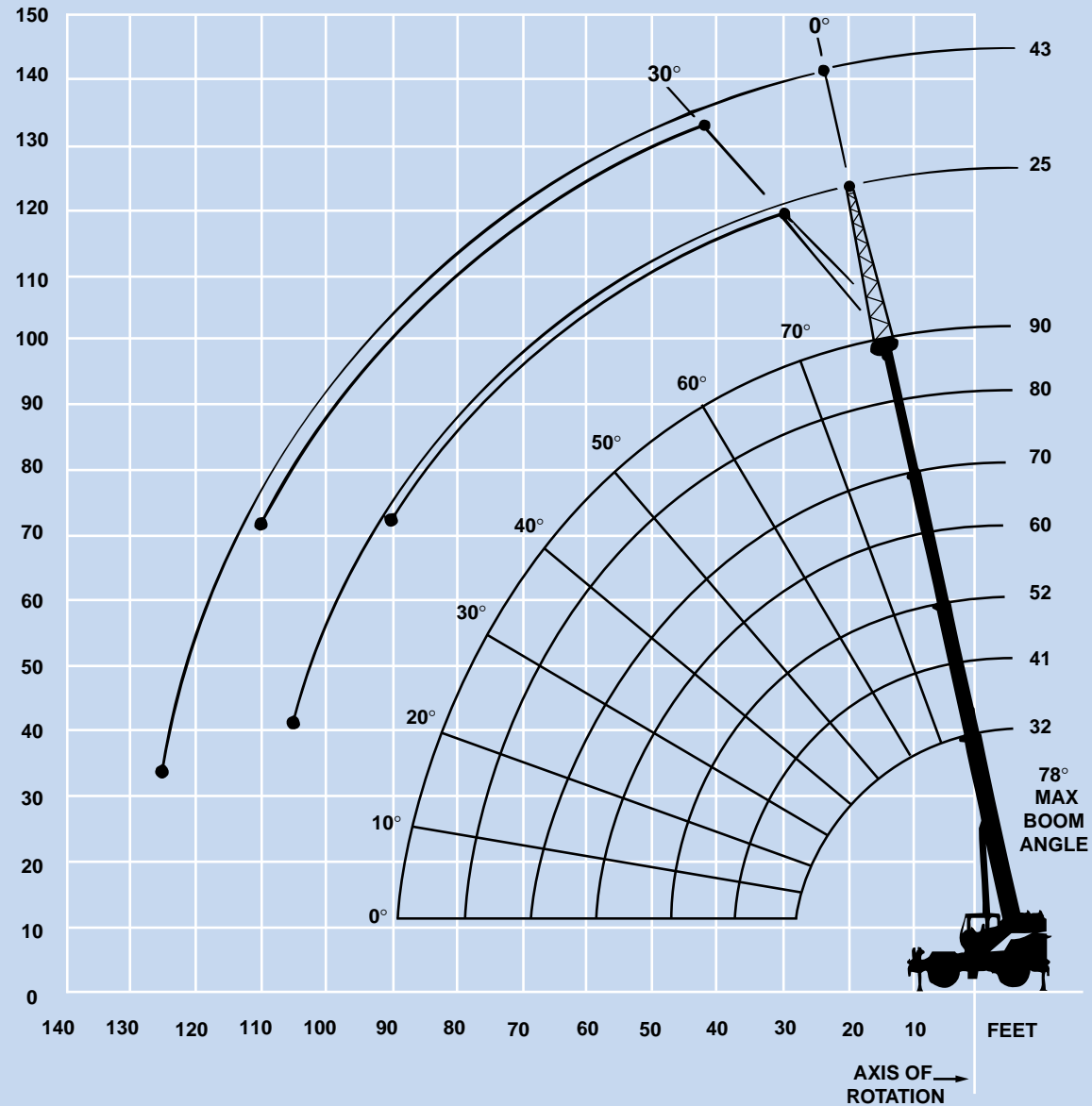


8,500 lbs.  
(3855 kg)



360°

FEET



**DIMENSIONS ARE FOR LARGEST GROVE FURNISHED HOOK BLOCK AND HEADACHE BALL, WITH ANTI-TWO BLOCK ACTIVATED.**



## Superstructure specifications

### Boom

32 ft. - 90 ft. (9.8 m - 27.4 m) four-section full power boom.

Maximum tip height: 98 ft. 8 in. (30.1 m).

### Fixed Swingaway Extension

25 ft. (7.6 m) lattice swingaway extension.

Non-offsettable. Stows alongside base boom section.

Maximum tip height: 123 ft. (37.5 m).

### \*Optional Fixed Swingaway Extension

25 ft. (7.6 m) lattice swingaway extension. Offsettable at 0° and 30°. Stows alongside base boom section.

Maximum tip height: 123 ft. (37.5 m).

### \*Optional Telescopic Swingaway Extension

25 ft. - 43 ft. (7.6 m - 13 m) telescoping lattice swingaway extension. Offsettable at 0° or 30°. Stows alongside base boom section.

Maximum tip height: 141 ft. (42.9 m).

### Boom Nose

Four steel sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeve type boom nose. \*Optional removable auxiliary boom nose with removable pin type rope guard.

### Boom Elevation

One double acting hydraulic cylinder with integral holding valve provides elevation from -1° to +78°.

### Load Moment & Anti-Two Block System

Standard load moment and anti-two block system with audio-visual warning and control lever lockout. These systems provide electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load and load indication and warning of impending two-block condition.

### Cab

Full vision, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrest mounted hydraulic single-axis controllers. Dash panel incorporates gauges for engine functions. Other standard features include: hot water heater, cab circulating air fan, telescoping tilt wheel, sliding side and rear windows, opening skylight, skylight sunscreen, electric windshield wash/wipe, electric skylight wiper, fire extinguisher, seat belt and ashtray/cupholder.

### Swing

Planetary swing with foot applied multi-disc wet brake. Spring applied, hydraulically released swing brake and plunger-type, 1 position, mechanical house lock, operated from cab. 360° mechanical swing lock. Maximum speed: 3 RPM.

### Counterweight

8,500 lbs. (3855 kg) integral with superstructure.

910 lbs. (413 kg) slab in place of auxiliary hoist.

### Hydraulic System

Five main gear pumps with a combined capacity of 172.4 GPM (652 LPM). Pump disconnect with engine jogging switch.

Maximum operating pressure: 3500 PSI (241 bar).

Three individual valve banks.

Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of 5/12/16.

120 gallon (454 L) reservoir.

Remote-mounted oil cooler with thermostatically controlled electric motor driven fan.

System pressure test ports with quick release type fittings for each circuit.

## HOIST SPECIFICATIONS

### Main and \*Auxiliary Hoist

Planetary reduction with automatic spring applied multi-disc brake. Grooved drum. Electronic hoist drum rotation indicator, hoist drum cable followers and wire rope.

Maximum Single Line Pull:	10,591 lbs. (4804 kg)
Maximum Single Line Speed:	450 FPM (137 m/min)
Maximum Permissible Line Pull:	9,080 lbs. (4118 kg)
Rope Diameter:	5/8 in. (16 mm)
Rope Length:	450 ft. (137 m)
Maximum Rope Stowage:	534 ft. (163 m)

\*Denotes optional equipment



## Carrier specifications

### Chassis

Box section frame fabricated from high-strength, low alloy steel. Integral outrigger housings and front/rear towing and tie down lugs. Built-in hook block and headache ball stowage.

### Outrigger System

Four hydraulic telescoping single-stage double box beam outriggers with inverted jacks and integral holding valves. Three position setting. All steel fabricated quick release type square outrigger floats, 16.5 in. (429 mm) in diameter. Maximum outrigger pad load: 47,941 lbs. (21 746 kg).

### Outrigger Controls

Controls and crane level indicator located in cab.

### Engine

Cummins 6BT5.9 diesel, six cylinders, turbocharged, 145 bhp (108 kW) (Gross) @ 2,200 RPM. Maximum torque: 400 ft. lbs. (542 Nm) @ 1,600 RPM.

### \*Optional Engine

Caterpillar 3116T diesel, six cylinders, turbocharged, 145 bhp (108 kW) (Gross) @ 2,200 RPM. Maximum torque: 442 ft. lbs. (599 Nm) @ 1,450 RPM.

### Fuel Tank Capacity

60 gallons (227 L)

### Transmission

Full powershift with 8 forward and 4 reverse speeds. Rear axle disconnect for 4 x 2 travel.

### Electrical System

Two 12 V - maintenance free batteries. 24 V starting and lighting. Battery disconnect switch and power slave receptacle (jump start aid).

### Drive

4 x 4

### Steering

Full independent power steering.  
Front: Full hydraulic steering wheel controlled.  
Rear: Full hydraulic switch controlled.  
Provides infinite variations of 4 main steering modes: front only, rear only, crab and coordinated. Rear steer indicating gauge and automatic steering reversal.

### Axles

Front: Drive/steer with differential and planetary reduction hubs rigid mounted to frame.  
Rear: Drive/steer with differential and planetary reduction hubs pivot mounted to frame.

### Oscillation Lockouts

Automatic full hydraulic lockouts on rear axle permit oscillation only with boom centered over the front.

### Brakes

Full hydraulic split circuit disc-type brakes operating on all wheels. Spring-applied, hydraulically released transmission-mounted parking brake.

### Tires

20.5R25 Michelin radials.

### Lights

Full lighting package including turn indicators, head, tail, brake and hazard warning lights.

### Maximum Speed

24 MPH (39 kph)

### Gradeability (Theoretical)

74% (Based on 61,402 lbs. [27 852 kg] GVW), 20.5R25 tires, pumps disengaged, 90 ft. (27.4 m) boom and 25 ft. (7.6 m) swingaway.

### Miscellaneous Standard Equipment

Full width steel fenders, dual rear view mirrors, hook-block tiedown, electronic back-up alarm, headache ball stowage, tool box compartment, light package, front stowage well, tachometer, cold start aid (less canister), rear wheel position indicator, hot water heater, hoist mirrors, engine distress A/V warning system. Auxiliary hoist control valve arrangement (less hoist), 360° positive swing lock and automatic steering reversal.

### \*Optional Equipment

- \* Auxiliary hoist w/wire rope
- \* Boom mounted worklights
- \* 360° flashing light
- \* Cab spotlight
- \* Engine block heater
- \* Hookblocks (quick reeve type)
- \* Tow winch - front mounted -- maximum pull: 15,000 lbs. (6804 kg); maximum speed: 92 ft./min. (28 m/min)
- \* Spare wheel assembly
- \* Tool kit
- \* Pintle hook front/rear
- \* High Speed Glide system
- \* Air conditioning
- \* Dual axis joystick controller
- \* LMI light bar (internal or external)
- \* Emergency steer pump
- \* Automatic steering control system
- \* Headache ball
- \* Automatic grease system for turntable bearing
- \* 3rd wrap indicator (main or auxiliary)
- \* Worklight, hoist mounted
- \* Aluminum fender decking
- \* Cross axle differential locks

*\*Denotes optional equipment*



32 - 90 ft.  
(9.8 - 27.4 m)



8,500 lbs.  
(3855 kg)



100%



360°



(Pounds)

25 ft. Ext. & 90 ft.

(Feet)	32	41	*52	60	70	80	90	115
10	60,000 (64.5)	58,600 (70.5)	53,400 (75.5)	30,000 (77)				
12	55,850 (60)	52,200 (67.5)	47,350 (73)	30,000 (75.5)				
15	46,150 (53.5)	45,400 (63)	40,350 (69.5)	30,000 (72.5)	30,000 (75.5)	@ 30,100 (78)	@ 19,050 (78)	
20	33,700 (40)	33,000 (54.5)	32,450 (63.5)	30,000 (67.5)	27,000 (71)	25,150 (74)	19,050 (76)	
25	25,900 (17.5)	25,150 (44.5)	24,600 (56.5)	24,000 (62)	21,900 (66.5)	20,600 (70)	19,050 (72.5)	@ 12,000 (78)
30		19,800 (32)	19,250 (49.5)	19,800 (56)	18,250 (62)	17,400 (66)	16,750 (69)	11,700 (75)
35			15,450 (41)	16,000 (50)	15,600 (57)	14,850 (62)	14,350 (65.5)	11,450 (72.5)
40			12,650 (31)	13,150 (43)	13,400 (52)	12,800 (58)	12,500 (62)	10,520 (69.5)
45			10,450 (14.5)	10,900 (35)	11,450 (46)	11,150 (53.5)	10,950 (58.5)	9,590 (67)
50				8,890 (24)	9,385 (40)	9,665 (48.5)	9,710 (54.5)	8,990 (64)
55					7,740 (32)	8,010 (43)	8,295 (50)	8,330 (61)
60					6,420 (22)	6,700 (37)	6,975 (45.5)	7,520 (58)
65						5,620 (30)	5,890 (40.5)	6,510 (55)
70						4,750 (21)	4,990 (35)	5,650 (52)
75							4,230 (28.5)	4,900 (48.5)
80							3,580 (20)	4,250 (44.5)
85								3,670 (41)
90								3,160 (36.5)
95								2,710 (31.5)
100								2,300 (26)
105								1,930 (18)

Minimum boom angle (deg.) for indicated length (no load)

0 0

Maximum boom length (ft.) at 0 degree boom angle (no load)

90 115

NOTE: ( ) Boom angles are in degrees

\*52 ft. boom length is with inner-mid extended and outer-mid & fly retracted.

@ Capacity is based upon maximum obtainable boom angle.

Boom Angle	32	41	*52	60	70	80	90
0°	25,000 (25.7)	16,100 (34.8)	10,050 (45.9)	7,640 (53.8)	5,580 (63.8)	4,170 (73.8)	3,140 (83.8)

A6-829-013090B

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32 - 90 ft.  
(9.8 - 27.4 m)



8,500 lbs.  
(3855 kg)



50%



360°



(Pounds)

25 ft. Ext. & 90 ft.

(Feet)	32	41	*52	60	70	80	90	115
10	58,000 (64.5)	57,500 (70.5)	53,400 (75.5)	30,000 (77)				
12	50,850 (60)	50,350 (67.5)	47,350 (73)	30,000 (75.5)				
15	42,700 (53.5)	42,150 (63)	40,350 (69.5)	30,000 (72.5)	30,000 (75.5)	@ 30,100 (78)	@ 19,050 (78)	
20	31,650 (40)	30,050 (54.5)	27,800 (63.5)	27,550 (67.5)	27,000 (71)	25,150 (74)	19,050 (76)	
25	21,050 (17.5)	20,700 (44.5)	19,700 (56.5)	19,800 (62)	19,750 (66.5)	19,550 (70)	19,050 (72.5)	@ 12,000 (78)
30		14,850 (32)	14,500 (49.5)	14,950 (56)	15,050 (62)	15,050 (66)	15,000 (69)	11,700 (75)
35			10,800 (41)	11,300 (50)	11,850 (57)	11,950 (62)	11,950 (65.5)	11,450 (72.5)
40			8,230 (31)	8,710 (43)	9,330 (52)	9,690 (58)	9,760 (62)	9,850 (69.5)
45			6,320 (14.5)	6,790 (35)	7,380 (46)	7,750 (53.5)	8,050 (58.5)	8,220 (67)
50				5,360 (24)	5,890 (40)	6,250 (48.5)	6,600 (54.5)	6,920 (64)
55					4,720 (32)	5,060 (43)	5,400 (50)	5,860 (61)
60					3,760 (22)	4,090 (37)	4,420 (45.5)	4,980 (58)
65						3,290 (30)	3,610 (40.5)	4,170 (55)
70						2,640 (21)	2,930 (35)	3,460 (52)
75							2,350 (28.5)	2,860 (48.5)
80							1,850 (20)	2,330 (44.5)
85								1,880 (41)
90								1,480 (36.5)
95								1,120 (31.5)

Minimum boom angle (deg.) for indicated length (no load)

0 18

Maximum boom length (ft.) at 0 degree boom angle (no load)

90 105

NOTE: ( ) Boom angles are in degrees

\*52 ft. boom length is with inner-mid extended and outer-mid & fly retracted.

@ Capacity is based upon maximum obtainable boom angle.

Boom Angle	32	41	*52	60	70	80	90
0°	20,000 (25.7)	11,150 (34.8)	6,030 (45.9)	4,480 (53.8)	3,140 (63.8)	2,210 (73.8)	1,510 (83.8)

NOTE: ( ) Reference radii in feet.

A6-829-013537A

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RT500DXL



32 - 90 ft.  
(9.8 - 27.4 m)



8,500 lbs.  
(3855 kg)



0%



360°



(Feet)	32	41	*52	60	70	80	90
10	44,500 (64.5)	40,250 (70.5)	36,350 (75.5)	30,000 (77)			
12	33,900 (60)	31,450 (67.5)	28,600 (73)	28,050 (75.5)			
15	23,150 (53.5)	22,900 (63)	21,150 (69.5)	21,000 (72.5)	20,650 (75.5)	@20,200 (78)	@19,050 (78)
20	14,300 (40)	14,000 (54.5)	13,700 (63.5)	14,050 (67.5)	14,050 (71)	14,000 (74)	13,800 (76)
25	9,710 (17.5)	9,430 (44.5)	9,090 (56.5)	9,440 (62)	9,880 (66.5)	10,200 (70)	10,200 (72.5)
30		6,540 (32)	6,250 (49.5)	6,590 (56)	7,000 (62)	7,380 (66)	7,750 (69)
35			4,340 (41)	4,660 (50)	5,060 (57)	5,390 (62)	5,720 (65.5)
40			2,960 (31)	3,270 (43)	3,650 (52)	3,950 (58)	4,260 (62)
45			1,920 (14.5)	2,220 (35)	2,590 (46)	2,870 (53.5)	3,150 (58.5)
50				1,420 (24)	1,770 (40)	2,030 (48.5)	2,290 (54.5)
55					1,100 (32)	1,350 (43)	1,590 (50)
60							1,020 (45.5)

Minimum boom angle (deg.) for indicated length (no load) 37.5

Maximum boom length (ft.) at 0 degree boom angle (no load) 60

NOTE: ( ) Boom angles are in degrees

\*52 ft. boom length is with inner-mid extended and outer-mid & fly retracted.

@Capacity is based upon maximum obtainable boom angle.

Boom Angle	32	41	*52
0°	9,220 (25.7)	4,630 (34.8)	1,760 (45.9)

NOTE: ( ) Reference radii in feet.

A6-829-013538A

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25 - 43 ft.  
(7.6 - 13 m)



8,500 lbs.  
(3855 kg)



100%



360°



(Pounds)

(Feet)	**25 ft. LENGTH		43 ft. LENGTH	
	0° OFFSET	30° OFFSET	0° OFFSET	30° OFFSET
25	12,000 (77.5)			
30	11,700 (74.5)		*6,520 (78)	
35	11,450 (72)	5,300 (76)	5,800 (75.5)	
40	10,500 (69.5)	5,000 (73.5)	5,400 (73)	
45	9,590 (66.5)	4,800 (70.5)	4,900 (70.5)	
50	8,990 (64)	4,620 (68)	4,550 (68.5)	2,610 (75.5)
55	8,330 (61)	4,470 (65)	4,260 (66)	2,520 (73)
60	7,240 (58)	4,360 (62)	3,940 (63.5)	2,410 (70.5)
65	6,120 (55)	4,240 (58.5)	3,740 (61)	2,320 (68)
70	5,190 (51.5)	4,140 (55)	3,550 (58.5)	2,260 (65.5)
75	4,400 (48)	4,080 (51.5)	3,360 (56)	2,200 (62.5)
80	3,720 (44.5)	3,720 (48)	3,200 (53)	2,140 (60)
85	3,140 (40.5)	3,140 (44)	3,050 (50)	2,080 (57)
90	2,630 (36.5)	2,630 (39.5)	2,930 (47)	2,040 (53.5)
95	2,170 (31.5)		2,820 (44)	2,000 (50)
100	1,770 (25.5)		2,720 (40.5)	1,980 (46.5)
105	1,410 (18)		2,370 (36.5)	1,970 (42.5)
110			2,000 (32.5)	1,960 (38)
115			1,680 (27.5)	
120			1,380 (22)	
125			1,110 (13)	

NOTE: ( ) Boom angles are in degrees.

\*This capacity is based upon maximum boom angle.

\*\*25 ft. capacities are also applicable to fixed offsettable extensions.  
However the LMI codes will change for 0° and 30° offset respectively.

A6-829-013091

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RT500DXL

9



25 - 43 ft.  
(7.6 - 13 m)



8,500 lbs.  
(3855 kg)



50%



360°



(Pounds)

(Feet)	**25 ft. LENGTH		43 ft. LENGTH	
	0° OFFSET	30° OFFSET	0° OFFSET	30° OFFSET
25	12,000 (77.5)			
30	11,700 (74.5)		*6,520 (78)	
35	11,300 (72)	5,300 (76)	5,800 (75.5)	
40	9,220 (69.5)	5,000 (73.5)	5,400 (73)	
45	7,600 (66.5)	4,800 (70.5)	4,900 (70.5)	
50	6,300 (64)	4,620 (68)	4,550 (68.5)	2,610 (75.5)
55	5,240 (61)	4,470 (65)	4,260 (66)	2,520 (73)
60	4,360 (58)	4,360 (62)	3,940 (63.5)	2,410 (70.5)
65	3,620 (55)	3,620 (58.5)	3,740 (61)	2,320 (68)
70	2,950 (51.5)	2,950 (55)	3,550 (58.5)	2,260 (65.5)
75	2,340 (48)	2,340 (51.5)	3,080 (56)	2,200 (62.5)
80	1,810 (44.5)	1,810 (48)	2,610 (53)	2,140 (60)
85	1,350 (40.5)	1,350 (44)	2,190 (50)	2,080 (57)
90			1,820 (47)	1,820 (53.5)
95			1,450 (44)	1,450 (50)
100			1,120 (40.5)	1,120 (46.5)

NOTE: ( ) Boom angles are in degrees.

\*This capacity is based upon maximum boom angle.

\*\*25 ft. capacities are also applicable to fixed offsettable extensions.

However the LMI codes will change for 0° and 30° offset respectively.

A6-829-013539

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32 - 90 ft.  
(9.8 - 27.4 m)



8,500 lbs.  
(3855 kg)



Stationary  
20.5R25



Defined Arc  
Over Front



(Feet)



(Pounds)

(Feet)	32	41	*52	60	70	80	90
10	36,000 (64.5)	32,200 (70.5)	27,650 (75.5)				
12	30,800 (60)	27,950 (67.5)	24,600 (73)				
15	25,100 (53.5)	23,200 (63)	20,900 (69.5)	20,900 (72.5)	20,900 (75.5)		
20	18,900 (40)	17,650 (54.5)	16,200 (63.5)	16,200 (67.5)	16,200 (71)		
25	13,000 (17.5)	12,650 (44.5)	12,150 (56.5)	12,750 (62)	12,750 (66.5)	12,750 (70)	
30		9,000 (32)	8,630 (49.5)	9,140 (56)	9,790 (62)	10,100 (66)	10,100 (69)
35			6,260 (41)	6,730 (50)	7,320 (57)	7,810 (62)	8,010 (65.5)
40			4,570 (31)	5,010 (43)	5,570 (52)	6,000 (58)	6,310 (62)
45			3,310 (14.5)	3,730 (35)	4,250 (46)	4,650 (53.5)	4,900 (58.5)
50				2,760 (24)	3,230 (40)	3,600 (48.5)	3,970 (54.5)
55					2,410 (32)	2,760 (43)	3,110 (50)
60					1,750 (22)	2,070 (37)	2,400 (45.5)
65						1,500 (30)	1,810 (40.5)
70						1,030 (21)	1,320 (35)

NOTE: ( ) Boom angles are in degrees

\*52 ft. boom length is with inner-mid extended and outer-mid and fly retracted.

A6-829-013081



32 - 90 ft.  
(9.8 - 27.4 m)



8,500 lbs.  
(3855 kg)



Stationary  
20.5R25



360°



(Feet)



(Pounds)

(Feet)	32	41	*52	60	70	80	90
10	30,300 (64.5)	29,100 (70.5)	27,650 (75.5)				
12	25,900 (60)	25,000 (67.5)	24,000 (73)				
15	19,600 (53.5)	19,200 (63)	18,650 (69.5)	18,650 (72.5)	18,650 (75.5)		
20	12,350 (40)	11,900 (54.5)	11,300 (63.5)	11,900 (67.5)	12,600 (71)		
25	8,580 (17.5)	8,060 (44.5)	7,420 (56.5)	7,900 (62)	8,500 (66.5)	8,830 (70)	
30		5,550 (32)	5,010 (49.5)	5,440 (56)	5,980 (62)	6,280 (66)	6,420 (69)
35			3,380 (41)	3,770 (50)	4,270 (57)	4,460 (62)	4,460 (65.5)
40			2,180 (31)	2,480 (43)	2,950 (52)	2,950 (58)	2,950 (62)
45				1,560 (35)	1,760 (46)	1,760 (53.5)	1,760 (58.5)

NOTE: ( ) Boom angles are in degrees

\*52 ft. boom length is with inner-mid extended and outer-mid and fly retracted.

A6-829-013082

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RT500DXL

11



32 - 90 ft.  
(9.8 - 27.4 m)



8,500 lbs.  
(3855 kg)



Pick & Carry  
Up to 2.5 MPH  
20.5R25



Boom Centered Over Front



(Feet)



(Feet)	32	41	*52	60	70	80	90
10	33,600 (64.5)						
12	32,100 (60)						
15	26,500 (53.5)	26,150 (63)					
20	19,100 (40)	18,700 (54.5)	18,150 (63.5)	18,850 (67.5)			
25	13,000 (17.5)	12,650 (44.5)	12,150 (56.5)	12,750 (62)	13,500 (66.5)	14,150 (70)	
30		6,440 (32)	6,110 (49.5)	6,580 (56)	7,180 (62)	7,690 (66)	8,210 (69)
35			4,470 (41)	4,920 (50)	5,500 (57)	5,980 (62)	6,450 (65.5)
40			3,190 (31)	3,630 (43)	4,190 (52)	4,630 (58)	5,080 (62)
45			2,160 (14.5)	2,590 (35)	3,130 (46)	3,550 (53.5)	3,970 (58.5)
50				1,770 (24)	2,270 (40)	2,670 (48.5)	3,060 (54.5)
55					1,550 (32)	1,930 (43)	2,300 (50)
60						1,300 (37)	1,660 (45.5)
65							1,110 (40.5)

NOTE: ( ) Boom angles are in degrees

\*52 ft. boom length is with inner-mid extended and outer-mid and fly retracted.

A6-829-013083

<b>25 FT. FIXED LENGTH BOOM EXTENSION</b>	
*Stowed -	243 lbs.
*Erected -	1,526 lbs.
<b>25 FT. OFFSETTABLE BOOM EXTENSION</b>	
*Stowed -	430 lbs.
*Erected -	3,219 lbs.
<b>25 FT. - 43 FT. TELE. BOOM EXTENSION</b>	
*Stowed -	593 lbs.
*Erected (Retracted) -	3,953 lbs.
*Erected (Extended) -	5,092 lbs.
*Reduction of main boom capacities	

<b>AUXILIARY BOOM HEAD</b>	160 lbs.
<b>HOOKBLOCKS and HEADACHE BALLS:</b>	
30 Ton, 4 Sheave	600 lbs.+
30 Ton, 4 Sheave w/cheekplates	723 lbs.+
15 Ton, 2 Sheave	378 lbs.+
5 Ton Headache Ball	172 lbs.+
+Refer to rating plate for actual weight.	

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.



## Rated Lifting Capacities

### IMPORTANT NOTES:

**WARNING: THIS CHART IS ONLY A GUIDE.**  
**The notes below are for illustration only and should not be relied upon to operate the crane. The individual crane's load chart, operating instructions and other instruction plates must be read and understood prior to operating the crane.**

1. All rated loads have been tested to and meet minimum requirements of SAE J1063 NOV93 - Cantilevered Boom Crane Structures - Method of Test, and do not exceed 85% of the tipping load on outriggers full extended and 50% extended, and 75% of the tipping load on outriggers 0% extended (fully retracted) and rubber, as determined by SAE J765 OCT90 Crane Stability Test Code.

2. Capacities given do not include the weight of hookblocks, slings, auxiliary lifting equipment and load handling devices. Their weights must be added to the load to be lifted. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load.

3. Defined Arc  $\pm 6^\circ$  on either side of longitudinal centerline of machine.

4. Capacities appearing above the bold line are based on structural strength. Tipping should never be used to indicate capacity limitation.



































5. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.

6. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.

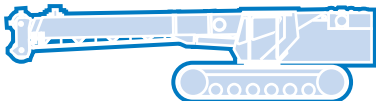
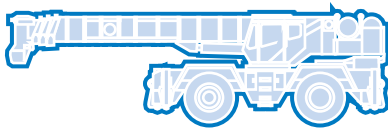
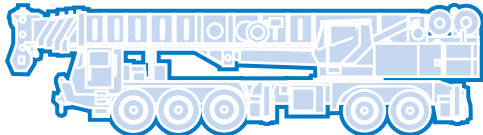
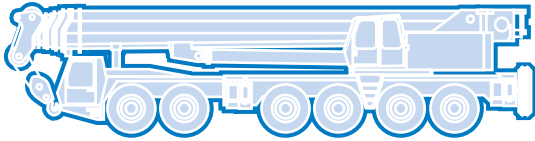
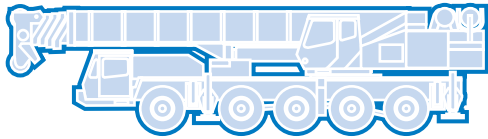
7. Tires shall be inflated to the recommended pressure before lifting on rubber.

8. For outrigger operation, ALL outriggers shall be properly extended with tires raised free of ground before raising the boom or lifting loads.

## Symbols Glossary

	Frame		Steering
	Outriggers		Transmission
	Outrigger Controls		Axles
	Engine		Brakes
	Fuel Tank Capacity		Tires
	Electrical System		Suspension
	Drive		Rotation
	Lights		Boom Elevation
	Cab		Swing
	Boom		Counterweight
	Fixed Swingaway		Oil
	Tele-Swingaway		Hydraulic System
	Jib		Hoist
	Boom Nose		Radius
	Boom Extension		Boom Length
	Speed		Hookblock
	Grade		Gear
	Lattice Extension		Luffing Jib

RT500DXL



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