





Working Range





Superstructure specifications

Boom

27 ft. - 70 ft. (8.3 m - 21.4 m) three-section full power boom. Maximum tip height: 78 ft. (23.8 m).

Fixed Swingaway Extension

25 ft. (7.6 m) lattice swingaway extension. Non-offsettable. Stows alongside base boom section. Maximum tip height: 103 ft. (31.4 m).

*Optional Telescopic Swingaway Extension

25 ft. - 43 ft. (7.6 m - 13.1 m) telescoping lattice swingaway extension. Offsettable at 0°, 15° or 30°. Stows alongside base boom section. Maximum tip height: 121 ft. (36.9 m).

Boom Nose

Three steel sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. *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 -3° to $+78^{\circ}$.

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 all engine functions. Other standard features include: cab circulating air fan, sliding side and rear windows, electric windshield wash/wipe, manual skylight wiper, swing

Counterweight

3,925 lbs. (1780 kg) integral with superstructure. 955 lbs. (433 kg) slab in place of auxiliary hoist.

Hydraulic System

Two main gear pumps with a combined capacity of 53.5 GPM (202.5 LPM). *Optional pump disconnect with engine jogging switch. Maximum operating pressure: 3500 PSI (241 bar).

Two individual valve banks.

Return line type filter with full flow by-pass protection and service indicator. 10 micron rated replaceable cartridge.

66 gallon (250 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 and hoist drum cable followers.

Maximum Single Line Pull:	8,074 lbs. (3662 kg)
Maximum Single Line Speed:	254 FPM (74 m/min)
Maximum Permissible Line Pull:	8,074 lbs. (3662 kg)
Rope Diameter:	5/8 in. (16 mm)

horn, fire extinguisher and seat belt.

Swing

4

Planetary swing with foot applied multi-disc brake. Spring applied, hydraulically released swing brake and plunger-type, 1 position, mechanical house lock, and a 360° positive swing lock, operated from cab. 360° continuous rotation. Maximum speed: 2.4 RPM. Rope Length:

Maximum Rope Stowage:

(110 m)

360 ft.

360 ft. (110 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.

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) square. Maximum outrigger pad load: 32,100 lbs. (14 561 kg).

Outrigger Controls

Controls and crane level indicator located in cab.

Engine

Cummins 4BT3.9 L diesel, six cylinders, turbocharged, 105 bhp (78 kW) (Gross) @ 2,800 RPM. Maximum torque 260 ft. lbs. (353 Nm) @ 1,700 RPM.

Fuel Tank Capacity

40 gallons (151 L)

Transmission

Full powershift with 6 forward and 6 reverse speeds. Rear axle disconnect for 4x2 travel.

Electrical System

12-V - maintenance free battery.

*Dual batteries optional.

Drive

4x4

Steering

Full independent power steering.
Front: Full hydraulic steering wheel controlled.
Rear: Full hydraulic hand lever controlled.
Provides infinite variations of 4 main steering modes: front only, rear only, crab and coordinated. Rear steer indicating gauge.
'Optional no-spin differential on rear axle (4x4).

Oscillation Lockouts

Automatic full hydraulic lockouts on rear axle permit oscillation only with boom centered over the front. *Optional oscillation lockout override control.

Brakes

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

Tires

16.00x24-16PR grader type tubeless, or *17.5x25-20PR earthmover type, tubeless.

Lights

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

Maximum Speed

25.9 MPH (41.7 kph)

Maximum Gradeability

141.2% (Theoretical based on 38,300 lbs. [17 373 kg] GVW), 16.00x24 tires, pumps disengaged, 70 ft. (21.4 m) boom and 25-43 ft. (7.6-13.1 m) swingaway.

Miscellaneous Standard Equipment

Full width steel fenders, dual rear view mirrors, hookblock tiedown, electronic back-up alarm, light package, front stowage well.

5

*Optional Equipment

- * Auxiliary hoist
- * Boom mounted worklights
- * 360° flashing light
- * Cab spotlight
- * Tachometer
- Engine block heater
- * Cold start aid (less canister)
- Hookblocks
- ' Electric skylight wiper
- ' Propane/diesel heater/defroster
- ' Tool kit

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.
- Pintle hook front/rear
 High Speed Glide system
 Dual axis joystock controller
 Headache ball

*Denotes optional equipment

27 -70 ft. (8.3-21.4 m)	3,925 lbs. (1780 kg)	100%	Q 360°			
				85% Domestic (I	Pounds)	
						25 ft. Ext. & 70 ft.
(Feet)	27	40	50	60	70	95
8	44,000	43,650	42,450			
9	41,000	41,000	39,850			
10	38,000	38,000	37,550			
12	31,450	31,450	31,450	31,450		
15	24,300	24,300	24,300	24,300	22,000	
20	18,000	17,650	17,650	17,650	17,650	12,500
25		13,300	13,300	13,300	13,300	10,750
30		10,400	10,400	10,400	10,400	9,810
35			8,370	8,370	8,370	8,930
40			6,630	6,630	6,630	7,820
45				5,370	5,370	6,210
50		r		4,410	4,410	5,040
55					3,660	4,140
60					3,060	3,430
65						2,860

A6-829-008252 & -008259B

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.

27 -70 ft. (8.3-21.4 m)	3,925 lbs. (1780 kg)	50%	Q 360°			
				85% Domestic	; (Pounds)	
				,		25 ft. Ext. & 70 ft.
(Feet)	27	40	50	60	70	95
8	36,750	36,750	36,750			
9	33,900	33,900	33,900			
10	31,400	31,400	31,400			
12	27,250	27,250	27,250	27,250		
15	22,550	22,550	21,900	20,850	19,900	
20	13,350	13,350	13,350	13,350	13,300	12,500
25		9,060	9,060	9,060	9,060	9,440
30		6,590	6,590	6,590	6,590	7,260
35			4,950	4,950	4,950	5,720
40			3,860	3,860	3,860	4,580
45		-		3,020	3,020	3,700
50		<i></i>		2,380	2,380	2,990
55				. **	1,870	2,350
60					1,460	1,800
65						1,340

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RT400 Series



8





			85% D	omestic (Pounds)	
(Feet)	27	40	50	60	70
8	26,750	26,200	24,250	a harden and the state of the	
9	21,200	21,200	20,900		
10	17,400	17,400	17,400		
12	12,600	12,600	12,600	12,600	
15	8,660	8,660	8,660	8,660	8,660
20	5,290	5,290	5,290	5,290	5,290
25		3,510	3,510	3,510	3,510
30		2,410	2,410	2,410	2,410
35	يخ مورد		1,670	1,670	1,670
40	and the second	and and a strate of a second	1,120	1,120	1,120

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25-43 ft	

(7.6-13.1 m)







85% Domestic (Pounds) 25 ft. LENGTH 34 ft. LENGTH 43 ft. LENGTH (Feet) 0° OFFSET 15° OFFSET 30° OFFSET 0° OFFSET 15° OFFSET 30° OFFSET 0° OFFSET 15° OFFSET 30° OFFSET 20 *12,500 *8,500 *5,000 S LEVEL 7,500 25 10,750 8,030 4,750 30 9,810 6,870 *5,500 *5,500 4,360 7,170 8,930 35 6,330 5,110 6,390 4,910 3,000 *3,600 4,020 40 7,200 5,880 4,770 5,680 4,540 3,290 3,710 2,800 *2,300 45 5,450 5,670 4,490 5,040 2,930 3,420 2,650 2,210 4,180 4,510 50 4,510 4,260 4,590 3,840 2,650 3,170 2,510 2,160 3,600 3,600 55 3,600 4,010 3,510 2,430 2,940 2,400 2,100 60 2,860 2,860 2,860 3,260 2,250 2,300 2,030 3,200 2,730 65 2,260 2,260 2,260 2,650 2,650 2,100 2,540 2,210 1,970 70 2,130 2,130 1,970 2,360 2,130 1,890 75 1,820 2,140 2,060 a second and the second se CT (1 1,730 80 1,780 1,780

*This capacity is based upon maximum boom angle.

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43 ft. LENGTH

3,000

2,800

2,650

2,510

15° OFFSET 30° OFFSET

*2,300

2,210

2,160

0° OFFSET

*5,000

4,750

4,360

4,020

3,710

3,420

2,840

2,590









25-43 ft. (7.6-13.1 m)



360°

85% Domestic (Pounds)

Faat		25 ft. LENGTH		34 ft. LENGTH			
Feet	0° OFFSET	15° OFFSET	30° OFFSET	0° OFFSET	15° OFFSET	30° OFFSET	
20	*12,100			*8,500			
25	8,760	7,500		8,030			
30	6,570	6,570	*5,500	6,820	*5,500		
35	5,020	5,020	5,020	5,300	4,910	*3,600	
40	3,870	3,870	3,870	4,170	4,170	3,290	
45	2,990	2,990	2,990	3,290	3,290	2,930	

2,280

	55	1,060	1,680	1,680	2,030	2,030	2,030	2,280	2,280	2,100
	60	1,170	1,170	1,170	1,540	1,540	1,540	1,810	1,810	1,810
	65				1,100	1,100	1,100	1,410	1,410	1,410
	70 🔩							1,070	1,070	1,070
A A A A A A A A A A A A A A A A A A A								A6-829-012069		

2,590

2,590

*This capacity is based upon maximum boom angle.

2,280

2,280

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RT400 Series

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27 - 70 ft. (8.3 - 21.4 m)



Defined Arc Over Front

16.00 x 24 - 16PR Tires



	(Feet)	27	40	50	60	70
	8	36,350				
	9	32,200				
5.	10	29,100	16,600			
	12	20,750	16,600	9,950	8,900	
	15	13,900	13,900	9,950	8,900	6,910
5124494	20	8,520	8,520	8,520	8,520	6,500
	25		5,730	5,730	5,730	5,730
85045365	30		4,120	4,120	4,120	4,120
	35			3,040	3,040	3,040
8882/s.v.	40	(12)/2)/////////////////////////////////		2,270	2,270	2,270
	45				1,690	1,690
845	50		, , , , , , , , , , , , , , , , , , ,		1,230	1,230
	- 55					860
	1					

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(8.3 - 21.4 m)



3,925 lbs. (1780 kg)

Pick & Carry Up to 2.5 MPH



16.00 x 24 - 16PR Tires

85% Domestic (Pounds)





A6-829-009109





27 - 70 ft. 3,925 lbs. (8.3 - 21.4 m) (1780 kg)

Defined Arc Over Front

17.5 x 25 - 20PR Tilres

			85%	Domestic (Pounds)	
(Feet)	27	40	50	60	70
8	36,300	33,000	29,150		
9	31,950	28,650	25,650	- 1994 - 1994 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1996	
10	27,900	25,250	22,850		
12	20,750	20,200	18,550	17,150	
15	13,900	13,900	13,900	13,350	12,500
20	8,520	8,520	8,520	8,520	8,520
25		5,730	5,730	5,730	5,730
30		4,120	4,120	4,120	4,120
35			3,040	3,040	3,040
40			2,270	2,270	2,270
45				1,690	1,690
50				1,230	1,230
55					860 A6-829-008932

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RT400 Series

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27 - 70 ft. (8.3- 21.4 m)	3,925 lbs. (1780 kg)		Q 360°	17.5 x 25 - 20 PR Ti	res
\bigcirc				85% Domestic (Pound	s)
(Feet)	27	40	50 14,300	60	70
9	21,850 17,600	20,300 17,600 14,650	12,800	************	
10 12	14,650 10,750	14,650 10,750 7,420	9,520	9,470	6,910
15 20 25	7,420 4,330	4,330 2,790	7,310 4,330 2,790	4,330	4,330
25 30 35		1,870	1,870 1,240	1,870	1,870 1,240
40	<u>******</u> *****		780	780	780 A6-829-008933





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Pick & Carry Up to 2.5 MPH



17.5 x 25 - 20 PR Tires



(Feet)	27	40	50	60	70
8	28,400	22,000	21,800		
9	26,200	20,150	20,000		
10	24,250	18,600	18,450		
12	20,750	15,950	15,850	14,200	
15	13,900	13,000	12,950	11,500	11,500
20	8,520	8,520	8,520	8,520	8,500
25		5,730	5,730	5,730	5,730
30		4,120	4,120	4,120	4,120
35			3,040	3,040	3,040
40			2,270	2,270	2,270
45				1,690	1,690
50				1,230	1,230
55					860
					A6-829-008934

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 OCT90 - 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 and tipping should not be relied upon as a 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.















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