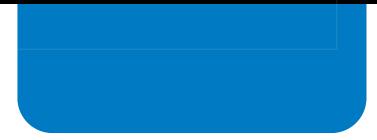
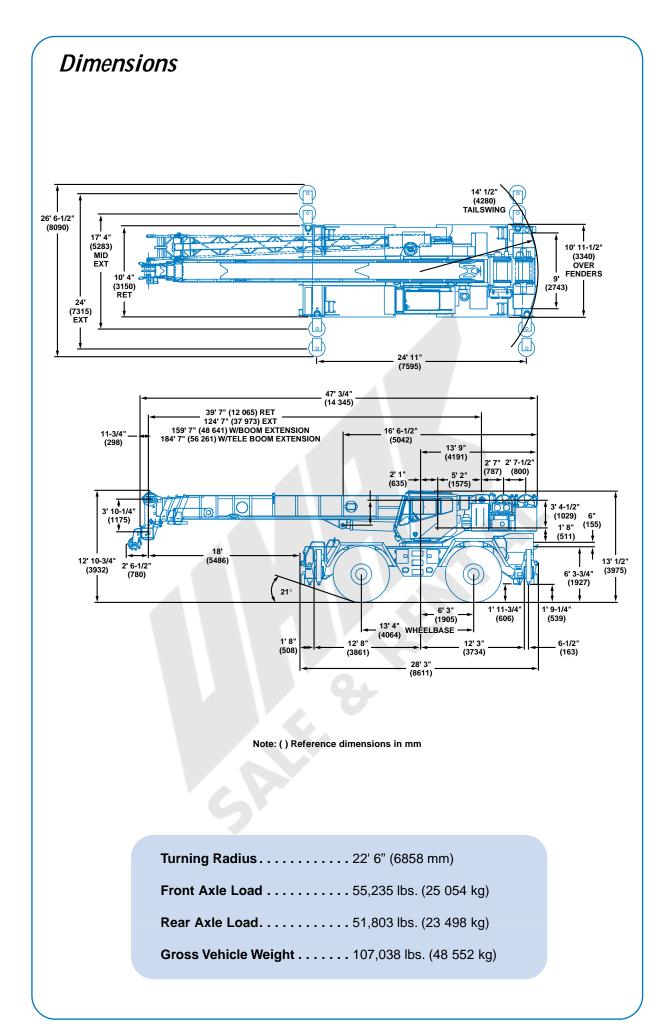
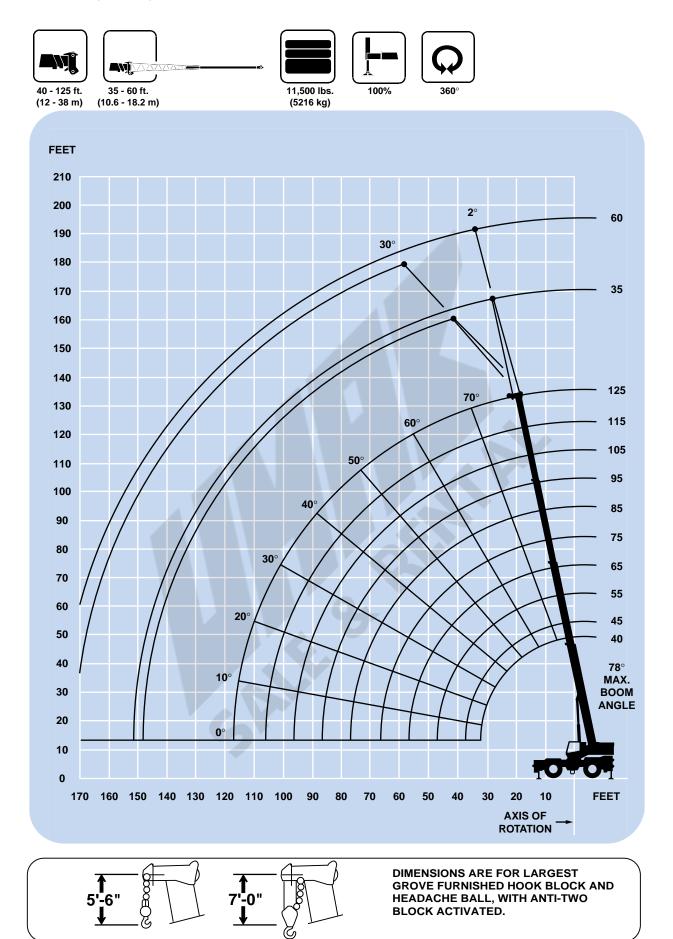


# **Rough Terrain Hydraulic Crane**





## Working range



#### Boom

40 ft. - 125 ft. (12 m - 38 m) four-section, full power boom. Maximum tip height: 135 ft. (41 m).

#### **Lattice Extension**

35 ft. - 60 ft. (10.6 m - 18.2 m) telescoping lattice swingaway extension offsettable at 2° or 30°. Stows alongside base boom section. Maximum tip height: 193 ft. (59 m).

#### **\*Optional Lattice Extension**

35 ft. (10.6 m) lattice swingaway extension. Offsettable at 2° or 30°. Stows alongside base boom section. Maximum tip height: 169 ft. (51.5 m).

#### **Boom Nose**

Six Nylatron sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeving type boom nose. 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°.

#### 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, boom length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition.

## Cab

Full vision, all galvanealed steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat with armrest mounted hydraulic single axis controllers. Dash panel incorporates gauges for all engine functions. Other standard features include: skylight screen, hydraulic oil cab heater/defroster, telescoping tilt wheel, sliding side and rear windows, opening skylight, electric windshield wash-wipe, electric skylight wipers, fire extinguisher, seat belt, ashtray and level indicator.

#### Swing

Planetary swing with foot applied multi-disc wet brake. Spring applied, hydraulically released swing brake, 360° positive swing lock (N.Y.C. style) and 1 position mechanical house lock, operated from cab. Maximum speed: 2.0 RPM.

#### Counterweight

Removable: 11,500 lbs. (5216 kg). 2,155 lbs. (977 kg) slab I.P.O. auxiliary hoist.

#### **Hydraulic System**

Seven main pumps with a combined capacity of 199.2 GPM (754 LPM). 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.

200 gallon (757 L) reservoir.

Remote mounted oil cooler with thermostatically controlled hydraulic motor driven fan/air to oil.

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

### Hoist Specifications Main and Auxiliary Hoist

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

Maximum Single	16,969 lbs.
Line Pull:	(7697 kg)
Maximum Single	517 FPM
Line Speed:	(157 m/min)
Maximum Permissible	12,920 lbs.
Line Pull:	(5860 kg)
Rope Diameter:	3/4" (19 mm)
Rope Length:	650 ft. (198 m)
Maximum Rope Stowage:	1,163 ft. (354.5 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 outrigger floats, 30.5" (775 mm) diameter. Maximum outrigger pad load: 95,817 lbs. (43 462 kg).

### **Outrigger Controls**

Controls and crane level indicator located in cab.

#### Engine

Cummins 6CTA 8.3L diesel, six cylinders, turbocharged, 250 bhp (191 kW) (Gross) @ 2,500 RPM. Maximum torque: 650 ft. lbs. (881 Nm) @ 1,800 RPM.

### **\*Optional Engine**

Caterpillar 3116TA diesel, six cylinders, turbocharged, 250 bhp (191 kW) (Gross) @ 2,500 RPM. Maximum torque: 642 ft. lbs. (870 Nm) @ 1,600 RPM.

#### **Fuel Tank Capacity**

80 gallons (303 L)

#### **Transmission**

Full powershift with 6 forward and 6 reverse speeds. Rear axle disconnect for  $4 \times 2$  travel.

#### **Electrical System**

Two 12 V - maintenance free batteries. 24 V starting and lighting.

#### **Drive**

4 x 4.

#### Steering

Fully 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 indicator gauge.

## 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 air split circuit operating on all wheels. Springapplied, air released parking brake operating on front and rear axles.

#### **Tires**

Std. 33.25 x 29 - 32PR earthmover type. \*Optional: 33.25R29 radial.

## Lights

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

### **Maximum Speed**

25 MPH (40 kph).

## **Gradeability (Theoretical)**

87% (Based on 104,031 lbs. [47 188 kg] GVW) 33.25 x 29 tires, pumps disengaged, 125 ft. (38 m) boom, plus 35 ft. (10.6 m) swingaway.

### **Miscellaneous Standard Equipment**

Full width steel fenders, dual rear view mirrors, hookblock tiedown, electronic back-up alarm, light package, front stowage well, tachometer/hourmeter, cold start aid (less canister), rear wheel position indicator, hydraulic cab heater, hoist mirrors, engine distress A/V warning system, tire inflation kit.

## **\*Optional Equipment**

\*Boom mounted worklights \*360° flashing light \*Cab spotlights remote mounted \*Engine block heater \*Hookblock (quick reeving type) \*Tow winch - front mounted maximum pull: 15,000 lbs.(6804 kg); maximum speed: 92 ft/min. (28 m/min). \*Spare tire & wheel assembly \*Tool kit \*Pintle hook front/rear \*High speed glide system

\*Air conditioning \*Dual axis joystick controllers \*Auxiliary oil cooler \*Emergency steer pump \*Propane heater \*T/T lube system \*Hoist mounted work light \*Counterweight removal system \*3rd wrap indicators (main or auxiliary) \*LMI light bar \*Cross axle differential locks \*Oscillation lockout override control

\*Denotes optional equipment



(12 - 38 m)



11,500 lbs. (5216 kg)



\_\_\_\_\_

100%

						F	Pounds			
Feet	40	45	55	65	75	85	95	105	115	125
10	130,000 (70)	105,000 (72.5)								
12	111,000 (67)	105,000 (70)	94,600 (74)							
15	91,450 (61.5)	91,000 (65.5)	88,250 (70.5)	71,050 (74)						
20	69,550 (52.5)	69,050 (58)	68,400 (65)	60,400 (69)	55,250 (72.5)	48,150 (75)				
25	55,050 (41.5)	54,600 (49.5)	53,950 (58.5)	53,450 (64.5)	47,950 (68.5)	41,700 (71.5)	38,000 (73.5)	33,350 (75.5)		
30	42,950 (26)	42,450 (39.5)	41,700 (52)	41,200 (59)	41,950 (64)	36,700 (67.5)	33,300 (70.5)	30,750 (72.5)	24,550 (75)	*23,700 (76.5)
35		33,700 (26)	33,000 (44.5)	32,500 (53.5)	33,250 (59.5)	32,600 (64)	29,550 (67)	27,300 (69.5)	21,700 (72)	21,900 (74)
40			26,650 (35.5)	26,150 (47.5)	26,900 (54.5)	27,850 (60)	26,450 (63.5)	24,450 (66.5)	19,350 (69.5)	20,300 (71.5)
45			21,750 (23)	21,300 (40.5)	22,050 (49.5)	23,000 (55.5)	23,700 (60)	22,000 (63.5)	17,450 (66.5)	18,800 (69)
50				17,500 (32.5)	18,250 (44)	19,150 (51.5)	19,900 (56.5)	19,850 (60.5)	15,800 (64)	17,050 (66.5)
60					12,400 (30)	13,250 (41.5)	14,100 (48.5)	14,650 (53.5)	13,250 (58)	14,150 (61.5)
70						9,190 (28.5)	9,910 (39)	10,400 (46)	10,850 (51.5)	11,350 (55.5)
80							6,930 (27)	6,740 (37)	7,850 (44.5)	8,290 (49.5)
90								5,170 (25.5)	5,600 (36)	6,010 (42.5)
100									3,880 (25)	4,250 (34.5)
110										2,840 (24)
Minimu	m boom angl	le (deg.) for ir	ndicated leng	th (no load)						0
Maximu	ım boom leng	gth (ft. ) at 0 c	legree boom	angle (no lo					125	

NOTE: () Boom angles are in degrees.

\*Based on maximum obtainable boom angle.

#### Boom 45 55 65 75 105 115 Angle 40 85 95 12,200 (47.8) 7,990 (57.8) 2,380 (97.8) 1,570 (107.8) 5,720 (67.8) 3,210 (87.8) 22,800 18,250 4,320 **0**° (32.3) (37.8) (77.8)

NOTE: () Reference radii are in feet.

A6-829-012282

A6-829-011801A



45

50

60

70

80

90

100









40 - 125 ft. (12 - 38 m)

(12 - 38 m)		16 kg)	17' 4" Spre	ead	500					
							Pounds			
Feet	40	45	55	65	75	85	95	105	115	125
10	116,000 (70)	105,000 (72.5)								
12	102,500 (67)	102,000 (70)	94,600 (74)							
15	86,800 (61.5)	86,350 (65.5)	85,800 (70.5)	71,050 (74)						
20	67,250 (52.5)	64,850 (58)	60,550 (65)	56,950 (69)	55,250 (72.5)	48,150 (75)				
25	45,750 (41.5)	44,950 (49.5)	42,050 (58.5)	39,700 (64.5)	39,100 (68.5)	38,900 (71.5)	38,000 (73.5)	33,350 (75.5)		
30	32,500 (26)	32,050 (39.5)	31,000 (52)	29,250 (59)	29,050 (64)	29,250 (67.5)	29,300 (70.5)	29,250 (72.5)	24,550 (75)	*23,700 (76.5)
35		23,900 (26)	23,350 (44.5)	22,250 (53.5)	22,300 (59.5)	22,700 (64)	22,900 (67)	23,050 (69.5)	21,700 (72)	21,900 (74)
40			17,650 (35.5)	17,200 (47.5)	17,400 (54.5)	17,900 (60)	18,250 (63.5)	18,550 (66.5)	18,550 (69.5)	18,550 (71.5)

13,600 (49.5)

10,450

(44)

5,970 (30)

14,300 (55.5)

11,450

(51.5)

6,940 (41.5)

4,020

(28.5)

15,050 (63.5)

12,350

(60.5)

8,310 (53.5)

5,410

(46)

3,170 (37)

1,490 (25.5)

14,700

(60)

11,900

(56.5)

7,840 (48.5)

4,840

(39)

2,630 (27)

15,150 (66.5)

12,450

(64)

8,500 (58)

5,700

(51.5)

3,620 (44.5)

2,000

(36)

13,400 (23)

13,000 (40.5)

9,850

(32.5)

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

NOTE: ( ) Boom angles are in degrees.

\*Based on maximum obtainable boom angle.

A6-829-011802A

15,250

(69)

12,600

(66.5)

8,700 (61.5)

5,930

(55.5)

3,870 (49.5)

2,280

(42.5)

1,020

(34.5) 27.5

105

Boom Angle	40	45	55	65	75	85	95	
<b>0</b> °	22,800 (32.3)	18,250 (37.8)	11,500 (47.8)	6,220 (57.8)	3,740 (67.8)	2,350 (77.8)	1,300 (87.8)	
NOTE:	() Reference	radii are in fe	eet.					
								A6-82





0%



40 - 125 ft.

60

40 - 125 ft. (12 - 38 m)		16 kg)	0% 10' 4" Spr	ead	360°					
							Pounds			
Feet	40	45	55	65	75	85	95	105	115	125
10	91,900 (70)	86,850 (72.5)								
12	70,100 (67)	66,600 (70)	61,200 (74)							
15	50,500 (61.5)	48,150 (65.5)	44,550 (70.5)	41,550 (74)						
20	31,200 (52.5)	30,950 (58)	28,900 (65)	26,950 (69)	26,600 (72.5)	26,600 (75)				
25	20,850 (41.5)	20,550 (49.5)	19,900 (58.5)	18,500 (64.5)	18,500 (68.5)	18,800 (71.5)	18,950 (73.5)	19,050 (75.5)		
30	14,650 (26)	14,350 (39.5)	13,850 (52)	12,950 (59)	13,850 (64)	13,650 (67.5)	13,950 (70.5)	14,200 (72.5)	14,200 (75)	*14,200 (76.5)
35		10,200 (26)	9,750 (44.5)	9,090 (53.5)	9,370 (59.5)	9,970 (64)	10,350 (67)	10,700 (69.5)	10,750 (72)	10,850 (74)
40			6,810 (35.5)	6,190 (47.5)	6,550 (54.5)	7,200 (60)	7,660 (63.5)	8,070 (66.5)	8,200 (69.5)	8,350 (71.5)
45			4,600 (23)	3,950 (40.5)	4,350 (49.5)	5,040 (55.5)	5,540 (60)	5,990 (63.5)	6,170 (66.5)	6,360 (69)
50				2,170 (32.5)	2,610 (44)	3,320 (51.5)	3,850 (56.5)	4,330 (60.5)	4,540 (64)	4,750 (66.5)
							. ,			. ,

1,300

(48.5)

1,820

(53.5)

2,070

(58)

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

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

NOTE: ( ) Boom angles are in degrees.

\*Based on maximum obtainable boom angle.

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2,320

(61.5)

51

65

Boom Angle	40	45	55
<b>0</b> °	12,550	8,440	3,610
	(32.3)	(37.8)	(47.8)

NOTE: ( ) Reference radii are in feet.









100%



360

40 - 125 ft.

2 - 38 m)		0 kg)	100%		360°					
							Pounds			
Feet	40	45	55	65	75	85	95	105	115	125
10	121,500 (70)	105,000 (72.5)								
12	105,000 (67)	104,500 (70)	94,600 (74)							
15	86,050 (61.5)	85,550 (65.5)	84,900 (70.5)	71,050 (74)						
20	65,000 (52.5)	64,550 (58)	63,900 (65)	60,400 (69)	55,250 (72.5)	48,150 (75)				
25	47,550 (41.5)	46,950 (49.5)	46,150 (58.5)	45,600 (64.5)	46,350 (68.5)	41,700 (71.5)	38,000 (73.5)	33,350 (75.5)		
30	36,250 (26)	35,750 (39.5)	35,000 (52)	34,450 (59)	35,200 (64)	36,200 (67.5)	33,300 (70.5)	30,750 (72.5)	24,550 (75)	*23,700 (76.5)
35		28,000 (26)	27,350 (44.5)	26,850 (53.5)	27,550 (59.5)	28,550 (64)	29,300 (67)	27,300 (69.5)	21,700 (72)	21,900 (74)
40			21,750 (35.5)	21,250 (47.5)	22,000 (54.5)	22,950 (60)	23,650 (63.5)	24,250 (66.5)	19,350 (69.5)	20,300 (71.5)
45			16,200 (23)	15,900 (40.5)	16,750 (49.5)	17,900 (55.5)	18,900 (60)	19,650 (63.5)	17,450 (66.5)	18,800 (69)
50				11,600 (32.5)	12,500 (44)	13,900 (51.5)	15,000 (56.5)	15,700 (60.5)	15,800 (64)	17,050 (66.5)
60					6,630 (30)	8,120 (41.5)	9,600 (48.5)	10,250 (53.5)	10,900 (58)	11,450 (61.5)
70						4,620 (28.5)	5,870 (39)	6,540 (46)	7,210 (51.5)	7,820 (55.5)
80							3,240 (27)	3,910 (37)	4,590 (44.5)	5,240 (49.5)
90								2,000 (25.5)	2,660 (36)	3,290 (42.5)
100									1,230 (25)	1,790 (34.5)
Minimur	m boom angl	le (deg.) for i	ndicated leng	th (no load)				V		22
Maximu	m boom leng	gth (ft. ) at 0 o	degree boom	angle (no lo	ad)					105
		loc are in der								

NOTE: () Boom angles are in degrees.

\*Based on maximum obtainable boom angle.

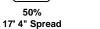
A6-829-012262

Boom Angle	40	45	55	65	75	85	95		
<b>0</b> °	22,800 (32.3)	18,250 (37.8)	12,200 (47.8)	6,760 (57.8)	4,000 (67.8)	2,660 (77.8)	1,680 (87.8)		
NOTE:	() Reference	radii are in f	eet.						
								A	6-829-012283











							Pounds			
Feet	40	45	55	65	75	85	95	105	115	125
10	116,000 (70)	105,000 (72.5)								
12	102,500 (67)	102,000 (70)	94,600 (74)							
15	84,600 (61.5)	80,100 (65.5)	73,300 (70.5)	67,700 (74)			_			
20	50,200 (52.5)	47,750 (58)	44,200 (65)	41,250 (69)	40,300 (72.5)	39,850 (75)				
25	33,550 (41.5)	32,250 (49.5)	29,800 (58.5)	27,800 (64.5)	27,550 (68.5)	27,700 (71.5)	27,650 (73.5)	27,550 (75.5)		
30	23,200 (26)	22,750 (39.5)	21,200 (52)	19,700 (59)	19,750 (64)	20,150 (67.5)	20,350 (70.5)	20,550 (72.5)	20,400 (75)	*20,300 (76.5)
35		16,350 (26)	15,500 (44.5)	14,250 (53.5)	14,450 (59.5)	15,000 (64)	15,350 (67)	15,650 (69.5)	15,700 (72)	15,700 (74)
40			11,400 (35.5)	10,300 (47.5)	10,650 (54.5)	11,300 (60)	11,750 (63.5)	12,100 (66.5)	12,200 (69.5)	12,300 (71.5)
45			8,300 (23)	7,400 (40.5)	7,780 (49.5)	8,484 (55.5)	8,970 (60)	9,420 (63.5)	9,570 (66.5)	9,730 (69)
50				5,120 (32.5)	5,530 (44)	6,260 (51.5)	6,790 (56.5)	7,270 (60.5)	7,460 (64)	7,660 (66.5)
60					2,250 (30)	3,010 (41.5)	3,580 (48.5)	4,100 (53.5)	4,340 (58)	4,580 (61.5)
70							1,330 (39)	1,870 (46)	2,130 (51.5)	2,410 (55.5)
Minimu	um boom ang	le (deg.) for i	ndicated len	gth (no load)					44	
Maxim	um boom len	gth (ft. ) at 0	degree boon	n angle (no lo	ad)					68

360

NOTE: () Boom angles are in degrees.

\*Based on maximum obtainable boom angle.

Boom Angle	40	45	55	65
<b>0</b> °	19,600	13,550	6,750	2,550
	(32.3)	(37.8)	(47.8)	(57.8)

NOTE: () Reference radii are in feet.

A6-829-012283





(0 kg)



0%

40 - 125 ft. (12 - 38 m)

							Pounds			
Feet	40	45	55	65	75	85	95	105	115	125
10	65,200 (70)	61,200 (72.5)								
12	49,000 (67)	46,200 (70)	41,900 (74)							
15	34,400 (61.5)	32,500 (65.5)	29,550 (70.5)	27,150 (74)						
20	21,050 (52.5)	19,900 (58)	17,950 (65)	16,400 (69)	16,300 (72.5)	16,600 (75)				
25	13,550 (41.5)	12,850 (49.5)	11,300 (58.5)	10,100 (64.5)	10,300 (68.5)	10,850 (71.5)	11,150 (73.5)	11,400 (75.5)		
30	9,070 (26)	8,320 (39.5)	7,030 (52)	6,040 (59)	6,360 (64)	6,990 (67.5)	7,420 (70.5)	7,800 (72.5)	7,900 (75)	*8,000 (76.5)
35		5,190 (26)	4,020 (44.5)	3,140 (53.5)	3,550 (59.5)	4,240 (64)	4,740 (67)	5,180 (69.5)	5,350 (72)	5,520 (74)
40					1,450 (54.5)	2,180 (60)	2,720 (63.5)	3,200 (66.5)	3,410 (69.5)	3,620 (71.5)
45							1,140 (60)	1,650 (63.5)	1,890 (66.5)	2,130 (69)
Minimu	um boom ang	le (deg.) for i	indicated len					61.5		
Maxim	um boom leng	gth (ft. ) at 0	degree boon	n angle (no lo					55	

360

NOTE: () Boom angles are in degrees.

\*Based on maximum obtainable boom angle.

Boom Angle	40	45	
<b>0</b> °	7,540 (32.3)	3,970 (37.8)	

NOTE: ( ) Reference radii are in feet.

A6-829-012264

35 ft.	11,500 lbs. 100%	<b>Q</b> 360°
(10.6 m)	(5216 kg)	
		Pounds
Feet	2° OFFSET	30° OFFSET
40	*12,900 (77)	
45	11,900 (75.5)	
50	11,200 (73.5)	
55	10,600 (71.5)	*7,800 (77)
60	10,050 (69.5)	7,530 (74.5)
65	9,650 (67.5)	7,410 (72.5)
70	9,110 (65.5)	7,280 (70.5)
75	8,700 (63.5)	7,160 (68)
80	8,330 (61.5)	7,050 (66)
85	7,990 (59)	6,950 (64)
90	7,330 (57)	6,850 (61.5)
95	6,330 (54.5)	6,330 (59)
100	5,450 (52.5)	5,450 (56.5)
105	4,660 (50)	4,660 (54)
110	3,950 (47.5)	3,950 (51.5)
115	3,310 (44.5)	3,310 (48.5)
120	2,730 (41.5)	2,730 (45.5)
125	2,200 (38.5)	2,200 (42.5)
130	1,710 (35.5)	1,710 (38.5)
135	1,270 (31.5)	1,270 (34.5)

35 ft. (10.6 m)	11,500 lbs. (5216 kg) 17' 4" Spread	360° Pounds
Feet	2° OFFSET	30° OFFSET
40	*12,900 (77)	
45	11,900 (75.5)	
50	11,200 (73.5)	
55	10,500 (71.5)	*7,800 (77)
60	8,830 (69.5)	7,530 (74.5)
65	7,400 (67.5)	7,400 (72.5)
70	6,180 (65.5)	6,180 (70.5)
75	5,110 (63.5)	5,110 (68)
80	4,190 (61.5)	4,190 (66)
85	3,370 (59)	3,370 (64)
90	2,640 (57)	2,640 (61.5)
95	1,990 (54.5)	1,990 (59)
100	1,400 (52.5)	1,400 (56.5)

35 ft. 0 lbs. 100% 360° (10.6 m) (0 kg)	
Pounds	
Feet 2° OFFSET 30° OFFSET	
40 *12,900 (77)	
45 11,900 (75.5)	
50 11,200 (73.5)	
55 10,600 *7,800 (71.5) (77)	
60 10,050 7,530 (69.5) (74.5)	
65 9,650 7,410 (67.5) (72.5)	
70 9,110 7,280 (65.5) (70.5)	
75 7,960 7,160 (63.5) (68)	
80 6,690 <u>6,690</u> (61.5) (66)	
85 5,580 5,580 (59) (64)	
90 4,630 4,630 (57) (61.5)	
95 3,780 3,780 (54.5) (59)	
100 3,030 3,030 (52.5) (56.5)	
105 2,360 2,360 (50) (54)	
110 1,760 1,760 (47.5) (51.5)	
115 1,220 (44.5) (48.5)	
NOTE: () Boom angles are in degrees.	
*This capacity is based upon maximum boom angle.	
A6-82	9-012289

			Ω	
35 - 60 ft. (10.6 - 18.2 m)	11,500 lbs. (5216 kg)	100%	360°	
			Pounds	
Feet	2° OFFSET	30° OFFSET	2° OFFSET	30° OFFSET
40	*12,900 (77)			
45	11,600 (75.5)			
50	10,900 (73.5)		*6,700 (77)	
55	10,300 (71.5)	*7,500 (77)	6,320 (75)	
60	9,750 (69.5)	7,250 (74.5)	6,000 (73.5)	
65	9,250 (67.5)	7,110 (72.5)	5,630 (71.5)	
70	8,810 (65.5)	6,980 (70.5)	5,260 (70)	
75	8,400 (63.5)	6,860 (68)	4,900 (68.5)	*4,000 (77)
80	8,030 (61.5)	6,750 (66)	4,630 (66.5)	3,700 (74.5)
85	7,690 (59)	6,650 (64)	4,360 (65)	3,500 (73)
90	6,840 (57)	6,560 (61.5)	4,100 (63)	3,350 (71)
95	5,840 (54.5)	5,840 (59)	3,800 (61)	3,270 (69)
100	4,950 (52.5)	4,950 (56.5)	3,640 (59.5)	3,210 (67)
105	4,160 (50)	4,160 (54)	3,490 (57.5)	3,150 (65)
110	3,450 (47.5)	3,450 (51.5)	3,350 (55.5)	3,100 (63)
115	2,810 (44.5)	2,810 (48.5)	3,220 (53.5)	3,050 (61)
120	2,230 (41.5)	2,230 (45.5)	3,100 (51)	3,010 (58.5)
125	1,700 (38.5)	1,700 (42.5)	2,990 (49)	2,970 (56.5)
130	1,210 (35.5)	1,210 (38.5)	2,770 (47)	2,770 (54)
135			2,290 (44.5)	2,290 (51.5)
140			1,850 (42)	1,850 (48.5)
145			1,450 (39.5)	1,450 (46)
150			1,070 (36.5)	1,070 (42.5)

A6-829-011806A

35 - 60 ft.	11,500 lbs.	50%	<b>360°</b>		
(10.6 - 18.2 m)	(5216 kg)	17' 4" Spread	Pounds		
Feet	2° OFFSET *12,900	30° OFFSET	2° OFFSET	30° OFFSET	
40	(77)				
45	11,600 (75.5)				
50	10,900 (73.5)		*6,700 (77)		
55	9,880 (71.5)	*7,500 (77)	6,320 (75)		
60	8,190 (69.5)	7,250 (74.5)	6,000 (73.5)		
65	6,760 (67.5)	6,760 (72.5)	5,630 (71.5)		
70	5,530 (65.5)	5,530 (70.5)	5,260 (70)		
75	4,470 (63.5)	4,470 (68)	4,900 (68.5)	*4,000 (77)	
80	3,540 (61.5)	3,540 (66)	4,630 (66.5)	3,700 (74.5)	
85	2,720 (59)	2,720 (64)	4,090 (65)	3,500 (73)	
90	1,990 (57)	1,990 (61.5)	3,360 (63)	3,350 (71)	
95	1,340 (54.5)	1,340 (59)	2,710 (61)	2,710 (69)	
100			2,130 (59.5)	2,130 (67)	
105			1,600 (57.5)	1,600 (65)	
110			1,120 (55.5)	1,120 (63)	

A6-829-011807A

			Pounds		
eet .	2° OFFSET	30° OFFSET		30° OFFSET	
0	*12,900 (77)				
5	11,600 (75.5)				
0	10,900 (73.5)		*6,700 (77)		
5	10,300	*7,500	6,320		
60	(71.5) 9,750	(77) 7,250	(75) 6,000		
	(69.5) 9,250	(74.5) 7,110	(73.5) 5,630		
5	(67.5) 8,810	(72.5) 6,980	(71.5) 5,260		
0	(65.5)	(70.5)	(70)	**	
5	7,400 (63.5)	6,860 (68)	4,900 (68.5)	*4,000 (77)	
0	6,070 (61.5)	6,070 (66)	4,630 (66.5)	3,700 (74.5)	
5	4,930 (59)	4,930 (64)	4,360 (65)	3,500 (73)	
0	3,930 (57)	3,930 (61.5)	4,100 (63)	3,350 (71)	
5	3,050	3,050	3,800	3,270	
	(54.5) 2,270	(59) 2,270	(61) 3,640	(69) 3,210	
00	(52.5) 1,580	(56.5) 1,580	(59.5) 3,490	(67) 3,150	
)5	(50)	(54)	(57.5)	(65) 3,100	
10			3,240 (55.5)	(63)	
15			2,530 (53.5)	2,530 (61)	
20			1,880 (51)	1,880 (58.5)	
25			1,300 (49)	1,300 (56.5)	
ſhis capacity i	angles are in degrees. s based upon maximum b	poom angle.			A6-829-0

40 - 125 ft.









33.25 x 29

38 m)	(5216 kg)	(32 Ply) Stationary	300				
					Pounds		
Feet	40	45	55	65	75	85	95
10	66,250 (70.5)	63,400 (73)					
12	51,800 (67.5)	51,500 (70.5)	50,900 (74.5)				
15	35,850 (62.5)	35,450 (66)	33,500 (71)	30,800 (74.5)			
20	21,500 (53.5)	21,200 (58.5)	20,650 (65)	18,950 (69.5)	21,250 (72.5)	18,200 (75)	
25	14,050 (42.5)	13,800 (50)	13,300 (59)	12,850 (64.5)	13,650 (68.5)	14,800 (71.5)	13,950 (74)
30	9,430 (28)	8,920 (40)	8,590 (52)	8,260 (59.5)	8,470 (64)	8,920 (68)	9,980 (70.5)
35		5,750 (26.5)	5,100 (44.5)	4,460 (54)	5,000 (59.5)	6,060 (64)	6,500 (67.5)
40			3,000 (35.5)	2,160 (47.5)	3,260 (55)	3,870 (60)	4,100 (64)
45							2,330 (60.5)

360

NOTE: ( ) Boom angles are in degrees.

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Boom Angle	40	45
<b>0</b> °	7,420 (32.3)	4,770 (37.8)

NOTE: () Reference radii are in feet.







33.25 x 29





40 - 125 ft. (12 - 38 m)

(12 - 38 m)	(5216 kg)	(32 Ply) Stationary	Over Front ±6°				
					Pounds		
Feet	40	45	55	65	75	85	95
10	86,100 (70.5)	72,250 (73)					
12	76,400 (67.5)	61,250 (70.5)	51,600 (74.5)				
15	63,250 (62.5)	49,350 (66)	44,300 (71)	42,950 (74.5)			
20	47,850 (53.5)	36,450 (58.5)	34,700 (65)	33,300 (69.5)	34,300 (72.5)	20,150 (75)	13,950 (77)
25	32,650 (42.5)	28,150 (50)	27,400 (59)	26,150 (64.5)	26,700 (68.5)	20,150 (71.5)	13,950 (74)
30	23,200 (28)	22,400 (40)	21,600 (52)	20,550 (59.5)	20,950 (64)	20,150 (68)	13,950 (70.5)
35		16,850 (26.5)	16,500 (44.5)	16,100 (54)	16,500 (59.5)	16,750 (64)	13,950 (67.5)
40			12,250 (35.5)	11,950 (47.5)	12,550 (55)	13,350 (60)	13,950 (64)
45			9,140 (23.5)	8,870 (41)	9,450 (50)	9,980 (56)	11,050 (60.5)
50				6,510 (32.5)	7,070 (44)	7,790 (51.5)	8,620 (56.5)
60					3,620 (30)	4,400 (41.5)	4,770 (48.5)
70						1,910 (28.5)	2,740 (39.5)

NOTE: () Boom angles are in degrees.

Boom Angle	40	45	55	65	75		
<b>0</b> °	20,050 (32.3)	14,300 (37.8)	7,750 (47.8)	3,570 (57.8)	1,300 (67.8)		

NOTE: () Reference radii are in feet.

A6-829-012282

A6-829-012278

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.











40 - 125 ft. (12 - 38 m)

(12 - 38 m)	(5216 kg)	Pick & Cari Up to 2.5 MI		1			
					Pounds		
Feet	40	45	55	65	75	85	95
10	87,650 (70.5)	84,400 (73)					
12	76,500 (67.5)	74,250 (70.5)	69,200 (74.5)				
15	63,700 (62.5)	63,500 (66)	56,400 (71)	52,100 (74.5)			
20	48,850 (53.5)	48,650 (58.5)	43,700 (65)	38,300 (69.5)	38,300 (72.5)	30,100 (75)	21,400 (77)
25	32,650 (42.5)	32,400 (50)	31,900 (59)	30,100 (64.5)	30,100 (68.5)	27,150 (71.5)	21,400 (74)
30	23,200 (28)	22,950 (40)	22,250 (52)	22,100 (59.5)	22,850 (64)	24,000 (68)	21,400 (70.5)
35		16,850 (26.5)	16,500 (44.5)	16,100 (54)	16,750 (59.5)	17,850 (64)	18,900 (67.5)
40			12,250 (35.5)	11,950 (47.5)	12,550 (55)	13,550 (60)	14,500 (64)
45			9,140 (23.5)	8,870 (41)	9,450 (50)	10,350 (56)	11,300 (60.5)
50				6,510 (32.5)	7,070 (44)	7,950 (51.5)	8,840 (56.5)
60					3,650 (30)	4,470 (41.5)	5,290 (48.5)
70						2,180 (28.5)	2,870 (39.5)
80							1,120 (27)

NOTE: () Boom angles are in degrees.

A6-829-012280

Boom Angle	40	45	55	65	75	
<b>0</b> °	20,050 (32.3)	14,300 (37.8)	7,750 (47.8)	3,770 (57.8)	1,900 (67.8)	

NOTE: () Reference radii are in feet.

## Rated lifting capacities

#### NOTES FOR LIFTING CAPACITIES

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 meet ANSI/ASME B30.5, Mobile and Locomotive Cranes. Testing and development were performed to SAEJ1063, Cantilevered Boom Crane Structures - Method of Test, and SAEJ765 Crane Stability Test Code.

2. Rated loads include the weight of hookblock, slings and auxiliary lifting devices and their weights shall be subtracted from the listed rating to obtain the net load to be lifted. When more than the minimum required hoist reeving is used, the additional rope weight shall be considered part of the load to be handled.

3. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.

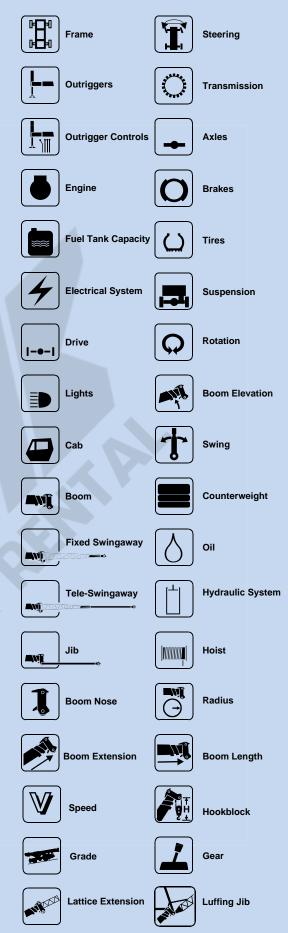
4. The machine shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.

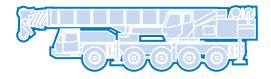
5. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or next longer or shorter boom length shall be used.

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

7. For outrigger operation, outriggers shall be properly extended with tires raised free of crane weight before operating the boom or lifting loads.

## Symbols Glossary

















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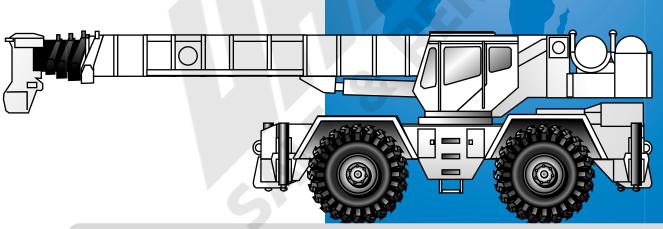
#### http://www.groveworldwide.com

Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment, and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment.

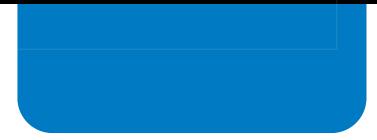
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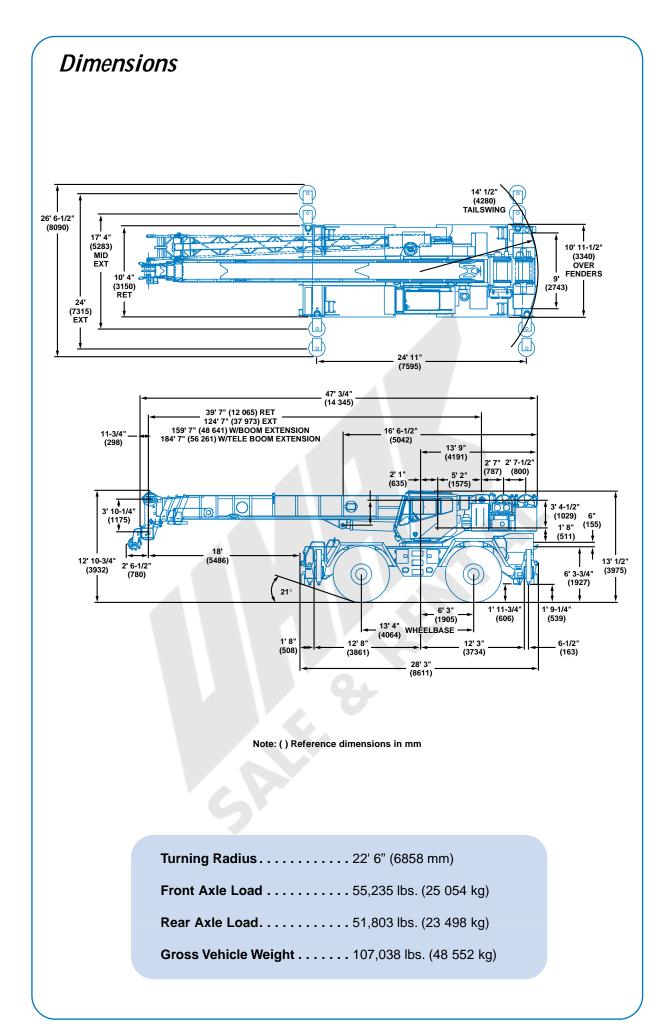




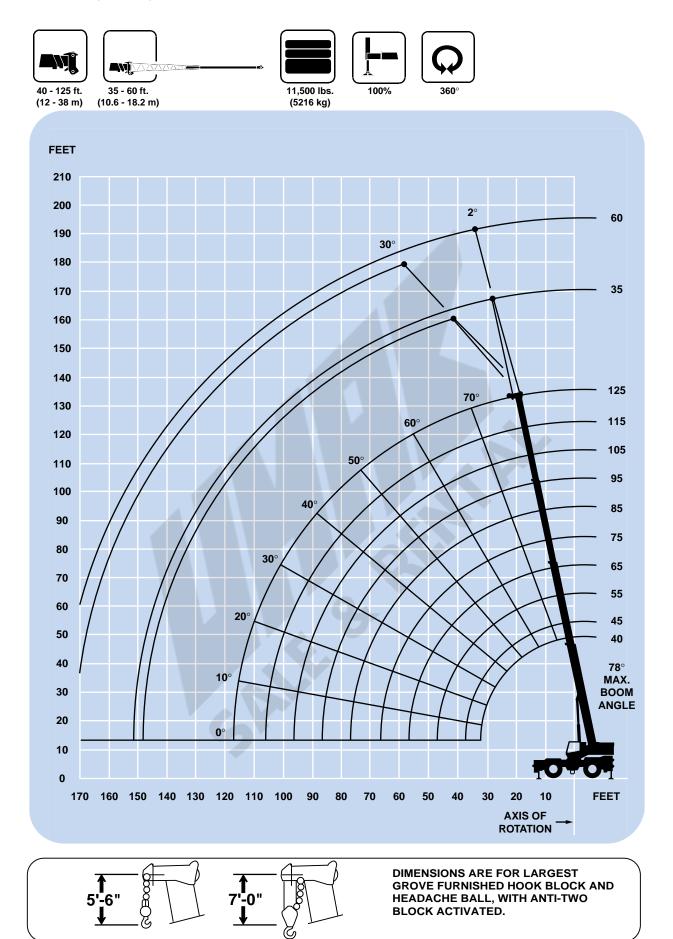


# **Rough Terrain Hydraulic Crane**





## Working range



#### Boom

40 ft. - 125 ft. (12 m - 38 m) four-section, full power boom. Maximum tip height: 135 ft. (41 m).

#### **Lattice Extension**

35 ft. - 60 ft. (10.6 m - 18.2 m) telescoping lattice swingaway extension offsettable at 2° or 30°. Stows alongside base boom section. Maximum tip height: 193 ft. (59 m).

#### **\*Optional Lattice Extension**

35 ft. (10.6 m) lattice swingaway extension. Offsettable at 2° or 30°. Stows alongside base boom section. Maximum tip height: 169 ft. (51.5 m).

#### **Boom Nose**

Six Nylatron sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeving type boom nose. 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°.

#### 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, boom length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition.

## Cab

Full vision, all galvanealed steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat with armrest mounted hydraulic single axis controllers. Dash panel incorporates gauges for all engine functions. Other standard features include: skylight screen, hydraulic oil cab heater/defroster, telescoping tilt wheel, sliding side and rear windows, opening skylight, electric windshield wash-wipe, electric skylight wipers, fire extinguisher, seat belt, ashtray and level indicator.

#### Swing

Planetary swing with foot applied multi-disc wet brake. Spring applied, hydraulically released swing brake, 360° positive swing lock (N.Y.C. style) and 1 position mechanical house lock, operated from cab. Maximum speed: 2.0 RPM.

#### Counterweight

Removable: 11,500 lbs. (5216 kg). 2,155 lbs. (977 kg) slab I.P.O. auxiliary hoist.

#### **Hydraulic System**

Seven main pumps with a combined capacity of 199.2 GPM (754 LPM). 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.

200 gallon (757 L) reservoir.

Remote mounted oil cooler with thermostatically controlled hydraulic motor driven fan/air to oil.

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

### Hoist Specifications Main and Auxiliary Hoist

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

Maximum Single	16,969 lbs.
Line Pull:	(7697 kg)
Maximum Single	517 FPM
Line Speed:	(157 m/min)
Maximum Permissible	12,920 lbs.
Line Pull:	(5860 kg)
Rope Diameter:	3/4" (19 mm)
Rope Length:	650 ft. (198 m)
Maximum Rope Stowage:	1,163 ft. (354.5 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 outrigger floats, 30.5" (775 mm) diameter. Maximum outrigger pad load: 95,817 lbs. (43 462 kg).

### **Outrigger Controls**

Controls and crane level indicator located in cab.

#### Engine

Cummins 6CTA 8.3L diesel, six cylinders, turbocharged, 250 bhp (191 kW) (Gross) @ 2,500 RPM. Maximum torque: 650 ft. lbs. (881 Nm) @ 1,800 RPM.

### **\*Optional Engine**

Caterpillar 3116TA diesel, six cylinders, turbocharged, 250 bhp (191 kW) (Gross) @ 2,500 RPM. Maximum torque: 642 ft. lbs. (870 Nm) @ 1,600 RPM.

#### **Fuel Tank Capacity**

80 gallons (303 L)

#### **Transmission**

Full powershift with 6 forward and 6 reverse speeds. Rear axle disconnect for  $4 \times 2$  travel.

#### **Electrical System**

Two 12 V - maintenance free batteries. 24 V starting and lighting.

#### **Drive**

4 x 4.

#### Steering

Fully 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 indicator gauge.

## 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 air split circuit operating on all wheels. Springapplied, air released parking brake operating on front and rear axles.

#### **Tires**

Std. 33.25 x 29 - 32PR earthmover type. \*Optional: 33.25R29 radial.

## Lights

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

### **Maximum Speed**

25 MPH (40 kph).

## **Gradeability (Theoretical)**

87% (Based on 104,031 lbs. [47 188 kg] GVW) 33.25 x 29 tires, pumps disengaged, 125 ft. (38 m) boom, plus 35 ft. (10.6 m) swingaway.

### **Miscellaneous Standard Equipment**

Full width steel fenders, dual rear view mirrors, hookblock tiedown, electronic back-up alarm, light package, front stowage well, tachometer/hourmeter, cold start aid (less canister), rear wheel position indicator, hydraulic cab heater, hoist mirrors, engine distress A/V warning system, tire inflation kit.

## **\*Optional Equipment**

\*Boom mounted worklights \*360° flashing light \*Cab spotlights remote mounted \*Engine block heater \*Hookblock (quick reeving type) \*Tow winch - front mounted maximum pull: 15,000 lbs.(6804 kg); maximum speed: 92 ft/min. (28 m/min). \*Spare tire & wheel assembly \*Tool kit \*Pintle hook front/rear \*High speed glide system

\*Air conditioning \*Dual axis joystick controllers \*Auxiliary oil cooler \*Emergency steer pump \*Propane heater \*T/T lube system \*Hoist mounted work light \*Counterweight removal system \*3rd wrap indicators (main or auxiliary) \*LMI light bar \*Cross axle differential locks \*Oscillation lockout override control

\*Denotes optional equipment



(12 - 38 m)



11,500 lbs. (5216 kg)



\_\_\_\_\_

100%

						F	Pounds			
Feet	40	45	55	65	75	85	95	105	115	125
10	130,000 (70)	105,000 (72.5)								
12	111,000 (67)	105,000 (70)	94,600 (74)							
15	91,450 (61.5)	91,000 (65.5)	88,250 (70.5)	71,050 (74)						
20	69,550 (52.5)	69,050 (58)	68,400 (65)	60,400 (69)	55,250 (72.5)	48,150 (75)				
25	55,050 (41.5)	54,600 (49.5)	53,950 (58.5)	53,450 (64.5)	47,950 (68.5)	41,700 (71.5)	38,000 (73.5)	33,350 (75.5)		
30	42,950 (26)	42,450 (39.5)	41,700 (52)	41,200 (59)	41,950 (64)	36,700 (67.5)	33,300 (70.5)	30,750 (72.5)	24,550 (75)	*23,700 (76.5)
35		33,700 (26)	33,000 (44.5)	32,500 (53.5)	33,250 (59.5)	32,600 (64)	29,550 (67)	27,300 (69.5)	21,700 (72)	21,900 (74)
40			26,650 (35.5)	26,150 (47.5)	26,900 (54.5)	27,850 (60)	26,450 (63.5)	24,450 (66.5)	19,350 (69.5)	20,300 (71.5)
45			21,750 (23)	21,300 (40.5)	22,050 (49.5)	23,000 (55.5)	23,700 (60)	22,000 (63.5)	17,450 (66.5)	18,800 (69)
50				17,500 (32.5)	18,250 (44)	19,150 (51.5)	19,900 (56.5)	19,850 (60.5)	15,800 (64)	17,050 (66.5)
60					12,400 (30)	13,250 (41.5)	14,100 (48.5)	14,650 (53.5)	13,250 (58)	14,150 (61.5)
70						9,190 (28.5)	9,910 (39)	10,400 (46)	10,850 (51.5)	11,350 (55.5)
80							6,930 (27)	6,740 (37)	7,850 (44.5)	8,290 (49.5)
90								5,170 (25.5)	5,600 (36)	6,010 (42.5)
100									3,880 (25)	4,250 (34.5)
110										2,840 (24)
Minimu	m boom angl	le (deg.) for ir	ndicated leng	th (no load)						0
Maximu	ım boom leng	gth (ft. ) at 0 c	legree boom	angle (no lo	ad)					125

NOTE: () Boom angles are in degrees.

\*Based on maximum obtainable boom angle.

#### Boom 45 55 65 75 105 115 Angle 40 85 95 12,200 (47.8) 7,990 (57.8) 2,380 (97.8) 1,570 (107.8) 5,720 (67.8) 3,210 (87.8) 22,800 18,250 4,320 **0**° (32.3) (37.8) (77.8)

NOTE: () Reference radii are in feet.

A6-829-012282

A6-829-011801A



45

50

60

70

80

90

100









40 - 125 ft. (12 - 38 m)

(12 - 38 m)		16 kg)	17' 4" Spre	ead	500					
							Pounds			
Feet	40	45	55	65	75	85	95	105	115	125
10	116,000 (70)	105,000 (72.5)								
12	102,500 (67)	102,000 (70)	94,600 (74)							
15	86,800 (61.5)	86,350 (65.5)	85,800 (70.5)	71,050 (74)						
20	67,250 (52.5)	64,850 (58)	60,550 (65)	56,950 (69)	55,250 (72.5)	48,150 (75)				
25	45,750 (41.5)	44,950 (49.5)	42,050 (58.5)	39,700 (64.5)	39,100 (68.5)	38,900 (71.5)	38,000 (73.5)	33,350 (75.5)		
30	32,500 (26)	32,050 (39.5)	31,000 (52)	29,250 (59)	29,050 (64)	29,250 (67.5)	29,300 (70.5)	29,250 (72.5)	24,550 (75)	*23,700 (76.5)
35		23,900 (26)	23,350 (44.5)	22,250 (53.5)	22,300 (59.5)	22,700 (64)	22,900 (67)	23,050 (69.5)	21,700 (72)	21,900 (74)
40			17,650 (35.5)	17,200 (47.5)	17,400 (54.5)	17,900 (60)	18,250 (63.5)	18,550 (66.5)	18,550 (69.5)	18,550 (71.5)

13,600 (49.5)

10,450

(44)

5,970 (30)

14,300 (55.5)

11,450

(51.5)

6,940 (41.5)

4,020

(28.5)

15,050 (63.5)

12,350

(60.5)

8,310 (53.5)

5,410

(46)

3,170 (37)

1,490 (25.5)

14,700

(60)

11,900

(56.5)

7,840 (48.5)

4,840

(39)

2,630 (27)

15,150 (66.5)

12,450

(64)

8,500 (58)

5,700

(51.5)

3,620 (44.5)

2,000

(36)

13,400 (23)

13,000 (40.5)

9,850

(32.5)

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

NOTE: ( ) Boom angles are in degrees.

\*Based on maximum obtainable boom angle.

A6-829-011802A

15,250

(69)

12,600

(66.5)

8,700 (61.5)

5,930

(55.5)

3,870 (49.5)

2,280

(42.5)

1,020

(34.5) 27.5

105

Boom Angle	40	45	55	65	75	85	95	
<b>0</b> °	22,800 (32.3)	18,250 (37.8)	11,500 (47.8)	6,220 (57.8)	3,740 (67.8)	2,350 (77.8)	1,300 (87.8)	
NOTE:	() Reference	radii are in fe	eet.					
								A6-82





0%



40 - 125 ft.

60

40 - 125 ft. (12 - 38 m)		16 kg)	0% 10' 4" Spr	ead	360°					
							Pounds			
Feet	40	45	55	65	75	85	95	105	115	125
10	91,900 (70)	86,850 (72.5)								
12	70,100 (67)	66,600 (70)	61,200 (74)							
15	50,500 (61.5)	48,150 (65.5)	44,550 (70.5)	41,550 (74)						
20	31,200 (52.5)	30,950 (58)	28,900 (65)	26,950 (69)	26,600 (72.5)	26,600 (75)				
25	20,850 (41.5)	20,550 (49.5)	19,900 (58.5)	18,500 (64.5)	18,500 (68.5)	18,800 (71.5)	18,950 (73.5)	19,050 (75.5)		
30	14,650 (26)	14,350 (39.5)	13,850 (52)	12,950 (59)	13,850 (64)	13,650 (67.5)	13,950 (70.5)	14,200 (72.5)	14,200 (75)	*14,200 (76.5)
35		10,200 (26)	9,750 (44.5)	9,090 (53.5)	9,370 (59.5)	9,970 (64)	10,350 (67)	10,700 (69.5)	10,750 (72)	10,850 (74)
40			6,810 (35.5)	6,190 (47.5)	6,550 (54.5)	7,200 (60)	7,660 (63.5)	8,070 (66.5)	8,200 (69.5)	8,350 (71.5)
45			4,600 (23)	3,950 (40.5)	4,350 (49.5)	5,040 (55.5)	5,540 (60)	5,990 (63.5)	6,170 (66.5)	6,360 (69)
50				2,170 (32.5)	2,610 (44)	3,320 (51.5)	3,850 (56.5)	4,330 (60.5)	4,540 (64)	4,750 (66.5)
							. ,			. ,

1,300

(48.5)

1,820

(53.5)

2,070

(58)

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

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

NOTE: ( ) Boom angles are in degrees.

\*Based on maximum obtainable boom angle.

A6-829-011927A

2,320

(61.5)

51

65

Boom Angle	40	45	55
<b>0</b> °	12,550	8,440	3,610
	(32.3)	(37.8)	(47.8)

NOTE: ( ) Reference radii are in feet.









100%



360

40 - 125 ft.

2 - 38 m)		0 kg)	100%		360°					
							Pounds			
Feet	40	45	55	65	75	85	95	105	115	125
10	121,500 (70)	105,000 (72.5)								
12	105,000 (67)	104,500 (70)	94,600 (74)							
15	86,050 (61.5)	85,550 (65.5)	84,900 (70.5)	71,050 (74)						
20	65,000 (52.5)	64,550 (58)	63,900 (65)	60,400 (69)	55,250 (72.5)	48,150 (75)				
25	47,550 (41.5)	46,950 (49.5)	46,150 (58.5)	45,600 (64.5)	46,350 (68.5)	41,700 (71.5)	38,000 (73.5)	33,350 (75.5)		
30	36,250 (26)	35,750 (39.5)	35,000 (52)	34,450 (59)	35,200 (64)	36,200 (67.5)	33,300 (70.5)	30,750 (72.5)	24,550 (75)	*23,700 (76.5)
35		28,000 (26)	27,350 (44.5)	26,850 (53.5)	27,550 (59.5)	28,550 (64)	29,300 (67)	27,300 (69.5)	21,700 (72)	21,900 (74)
40			21,750 (35.5)	21,250 (47.5)	22,000 (54.5)	22,950 (60)	23,650 (63.5)	24,250 (66.5)	19,350 (69.5)	20,300 (71.5)
45			16,200 (23)	15,900 (40.5)	16,750 (49.5)	17,900 (55.5)	18,900 (60)	19,650 (63.5)	17,450 (66.5)	18,800 (69)
50				11,600 (32.5)	12,500 (44)	13,900 (51.5)	15,000 (56.5)	15,700 (60.5)	15,800 (64)	17,050 (66.5)
60					6,630 (30)	8,120 (41.5)	9,600 (48.5)	10,250 (53.5)	10,900 (58)	11,450 (61.5)
70						4,620 (28.5)	5,870 (39)	6,540 (46)	7,210 (51.5)	7,820 (55.5)
80							3,240 (27)	3,910 (37)	4,590 (44.5)	5,240 (49.5)
90								2,000 (25.5)	2,660 (36)	3,290 (42.5)
100									1,230 (25)	1,790 (34.5)
Minimur	m boom angl	le (deg.) for i	ndicated leng	th (no load)				V		22
Maximu	m boom leng	gth (ft. ) at 0 o	degree boom	angle (no lo	ad)					105
		loc are in der								

NOTE: () Boom angles are in degrees.

\*Based on maximum obtainable boom angle.

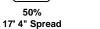
A6-829-012262

Boom Angle	40	45	55	65	75	85	95		
<b>0</b> °	22,800 (32.3)	18,250 (37.8)	12,200 (47.8)	6,760 (57.8)	4,000 (67.8)	2,660 (77.8)	1,680 (87.8)		
NOTE:	() Reference	radii are in f	eet.						
								A	6-829-012283











							Pounds			
Feet	40	45	55	65	75	85	95	105	115	125
10	116,000 (70)	105,000 (72.5)								
12	102,500 (67)	102,000 (70)	94,600 (74)							
15	84,600 (61.5)	80,100 (65.5)	73,300 (70.5)	67,700 (74)			_			
20	50,200 (52.5)	47,750 (58)	44,200 (65)	41,250 (69)	40,300 (72.5)	39,850 (75)				
25	33,550 (41.5)	32,250 (49.5)	29,800 (58.5)	27,800 (64.5)	27,550 (68.5)	27,700 (71.5)	27,650 (73.5)	27,550 (75.5)		
30	23,200 (26)	22,750 (39.5)	21,200 (52)	19,700 (59)	19,750 (64)	20,150 (67.5)	20,350 (70.5)	20,550 (72.5)	20,400 (75)	*20,300 (76.5)
35		16,350 (26)	15,500 (44.5)	14,250 (53.5)	14,450 (59.5)	15,000 (64)	15,350 (67)	15,650 (69.5)	15,700 (72)	15,700 (74)
40			11,400 (35.5)	10,300 (47.5)	10,650 (54.5)	11,300 (60)	11,750 (63.5)	12,100 (66.5)	12,200 (69.5)	12,300 (71.5)
45			8,300 (23)	7,400 (40.5)	7,780 (49.5)	8,484 (55.5)	8,970 (60)	9,420 (63.5)	9,570 (66.5)	9,730 (69)
50				5,120 (32.5)	5,530 (44)	6,260 (51.5)	6,790 (56.5)	7,270 (60.5)	7,460 (64)	7,660 (66.5)
60					2,250 (30)	3,010 (41.5)	3,580 (48.5)	4,100 (53.5)	4,340 (58)	4,580 (61.5)
70							1,330 (39)	1,870 (46)	2,130 (51.5)	2,410 (55.5)
Minimu	um boom ang	le (deg.) for i	ndicated len	gth (no load)						44
Maxim	um boom len	gth (ft. ) at 0	degree boon	n angle (no lo	ad)					68

360

NOTE: () Boom angles are in degrees.

\*Based on maximum obtainable boom angle.

Boom Angle	40	45	55	65
<b>0</b> °	19,600	13,550	6,750	2,550
	(32.3)	(37.8)	(47.8)	(57.8)

NOTE: () Reference radii are in feet.

A6-829-012283





(0 kg)



0%

40 - 125 ft. (12 - 38 m)

							Pounds			
Feet	40	45	55	65	75	85	95	105	115	125
10	65,200 (70)	61,200 (72.5)								
12	49,000 (67)	46,200 (70)	41,900 (74)							
15	34,400 (61.5)	32,500 (65.5)	29,550 (70.5)	27,150 (74)						
20	21,050 (52.5)	19,900 (58)	17,950 (65)	16,400 (69)	16,300 (72.5)	16,600 (75)				
25	13,550 (41.5)	12,850 (49.5)	11,300 (58.5)	10,100 (64.5)	10,300 (68.5)	10,850 (71.5)	11,150 (73.5)	11,400 (75.5)		
30	9,070 (26)	8,320 (39.5)	7,030 (52)	6,040 (59)	6,360 (64)	6,990 (67.5)	7,420 (70.5)	7,800 (72.5)	7,900 (75)	*8,000 (76.5)
35		5,190 (26)	4,020 (44.5)	3,140 (53.5)	3,550 (59.5)	4,240 (64)	4,740 (67)	5,180 (69.5)	5,350 (72)	5,520 (74)
40					1,450 (54.5)	2,180 (60)	2,720 (63.5)	3,200 (66.5)	3,410 (69.5)	3,620 (71.5)
45							1,140 (60)	1,650 (63.5)	1,890 (66.5)	2,130 (69)
Minimu	um boom ang	le (deg.) for i	indicated len	gth (no load)	)					61.5
Maxim	um boom leng	gth (ft. ) at 0	degree boon	n angle (no lo	oad)					55

360

NOTE: () Boom angles are in degrees.

\*Based on maximum obtainable boom angle.

Boom Angle	40	45	
<b>0</b> °	7,540 (32.3)	3,970 (37.8)	

NOTE: ( ) Reference radii are in feet.

A6-829-012264

35 ft.	11,500 lbs. 100%	<b>Q</b> 360°
(10.6 m)	(5216 kg)	
		Pounds
Feet	2° OFFSET	30° OFFSET
40	*12,900 (77)	
45	11,900 (75.5)	
50	11,200 (73.5)	
55	10,600 (71.5)	*7,800 (77)
60	10,050 (69.5)	7,530 (74.5)
65	9,650 (67.5)	7,410 (72.5)
70	9,110 (65.5)	7,280 (70.5)
75	8,700 (63.5)	7,160 (68)
80	8,330 (61.5)	7,050 (66)
85	7,990 (59)	6,950 (64)
90	7,330 (57)	6,850 (61.5)
95	6,330 (54.5)	6,330 (59)
100	5,450 (52.5)	5,450 (56.5)
105	4,660 (50)	4,660 (54)
110	3,950 (47.5)	3,950 (51.5)
115	3,310 (44.5)	3,310 (48.5)
120	2,730 (41.5)	2,730 (45.5)
125	2,200 (38.5)	2,200 (42.5)
130	1,710 (35.5)	1,710 (38.5)
135	1,270 (31.5)	1,270 (34.5)

35 ft. (10.6 m)	11,500 lbs. (5216 kg) 17' 4" Spread	360° Pounds
Feet	2° OFFSET	30° OFFSET
40	*12,900 (77)	
45	11,900 (75.5)	
50	11,200 (73.5)	
55	10,500 (71.5)	*7,800 (77)
60	8,830 (69.5)	7,530 (74.5)
65	7,400 (67.5)	7,400 (72.5)
70	6,180 (65.5)	6,180 (70.5)
75	5,110 (63.5)	5,110 (68)
80	4,190 (61.5)	4,190 (66)
85	3,370 (59)	3,370 (64)
90	2,640 (57)	2,640 (61.5)
95	1,990 (54.5)	1,990 (59)
100	1,400 (52.5)	1,400 (56.5)

35 ft. 0 lbs. 100% 360° (10.6 m) (0 kg)	
Pounds	
Feet 2° OFFSET 30° OFFSET	
40 *12,900 (77)	
45 11,900 (75.5)	
50 11,200 (73.5)	
55 10,600 *7,800 (71.5) (77)	
60 10,050 7,530 (69.5) (74.5)	
65 9,650 7,410 (67.5) (72.5)	
70 9,110 7,280 (65.5) (70.5)	
75 7,960 7,160 (63.5) (68)	
80 6,690 <u>6,690</u> (61.5) (66)	
85 5,580 5,580 (59) (64)	
90 4,630 4,630 (57) (61.5)	
95 3,780 3,780 (54.5) (59)	
100 3,030 3,030 (52.5) (56.5)	
105 2,360 2,360 (50) (54)	
110 1,760 1,760 (47.5) (51.5)	
115 1,220 (44.5) (48.5)	
NOTE: () Boom angles are in degrees.	
*This capacity is based upon maximum boom angle.	
A6-82	9-012289

			Ω	
35 - 60 ft. (10.6 - 18.2 m)	11,500 lbs. (5216 kg)	100%	360°	
			Pounds	
Feet	2° OFFSET	30° OFFSET	2° OFFSET	30° OFFSET
40	*12,900 (77)			
45	11,600 (75.5)			
50	10,900 (73.5)		*6,700 (77)	
55	10,300 (71.5)	*7,500 (77)	6,320 (75)	
60	9,750 (69.5)	7,250 (74.5)	6,000 (73.5)	
65	9,250 (67.5)	7,110 (72.5)	5,630 (71.5)	
70	8,810 (65.5)	6,980 (70.5)	5,260 (70)	
75	8,400 (63.5)	6,860 (68)	4,900 (68.5)	*4,000 (77)
80	8,030 (61.5)	6,750 (66)	4,630 (66.5)	3,700 (74.5)
85	7,690 (59)	6,650 (64)	4,360 (65)	3,500 (73)
90	6,840 (57)	6,560 (61.5)	4,100 (63)	3,350 (71)
95	5,840 (54.5)	5,840 (59)	3,800 (61)	3,270 (69)
100	4,950 (52.5)	4,950 (56.5)	3,640 (59.5)	3,210 (67)
105	4,160 (50)	4,160 (54)	3,490 (57.5)	3,150 (65)
110	3,450 (47.5)	3,450 (51.5)	3,350 (55.5)	3,100 (63)
115	2,810 (44.5)	2,810 (48.5)	3,220 (53.5)	3,050 (61)
120	2,230 (41.5)	2,230 (45.5)	3,100 (51)	3,010 (58.5)
125	1,700 (38.5)	1,700 (42.5)	2,990 (49)	2,970 (56.5)
130	1,210 (35.5)	1,210 (38.5)	2,770 (47)	2,770 (54)
135			2,290 (44.5)	2,290 (51.5)
140			1,850 (42)	1,850 (48.5)
145			1,450 (39.5)	1,450 (46)
150			1,070 (36.5)	1,070 (42.5)

A6-829-011806A

35 - 60 ft.	11,500 lbs.	50%	<b>360°</b>		
(10.6 - 18.2 m)	(5216 kg)	17' 4" Spread	Pounds		
Feet	2° OFFSET *12,900	30° OFFSET	2° OFFSET	30° OFFSET	
40	(77)				
45	11,600 (75.5)				
50	10,900 (73.5)		*6,700 (77)		
55	9,880 (71.5)	*7,500 (77)	6,320 (75)		
60	8,190 (69.5)	7,250 (74.5)	6,000 (73.5)		
65	6,760 (67.5)	6,760 (72.5)	5,630 (71.5)		
70	5,530 (65.5)	5,530 (70.5)	5,260 (70)		
75	4,470 (63.5)	4,470 (68)	4,900 (68.5)	*4,000 (77)	
80	3,540 (61.5)	3,540 (66)	4,630 (66.5)	3,700 (74.5)	
85	2,720 (59)	2,720 (64)	4,090 (65)	3,500 (73)	
90	1,990 (57)	1,990 (61.5)	3,360 (63)	3,350 (71)	
95	1,340 (54.5)	1,340 (59)	2,710 (61)	2,710 (69)	
100			2,130 (59.5)	2,130 (67)	
105			1,600 (57.5)	1,600 (65)	
110			1,120 (55.5)	1,120 (63)	

A6-829-011807A

			Pounds		
eet .	2° OFFSET	30° OFFSET		30° OFFSET	
0	*12,900 (77)				
5	11,600 (75.5)				
0	10,900 (73.5)		*6,700 (77)		
5	10,300	*7,500	6,320		
60	(71.5) 9,750	(77) 7,250	(75) 6,000		
	(69.5) 9,250	(74.5) 7,110	(73.5) 5,630		
5	(67.5) 8,810	(72.5) 6,980	(71.5) 5,260		
0	(65.5)	(70.5)	(70)	**	
5	7,400 (63.5)	6,860 (68)	4,900 (68.5)	*4,000 (77)	
0	6,070 (61.5)	6,070 (66)	4,630 (66.5)	3,700 (74.5)	
5	4,930 (59)	4,930 (64)	4,360 (65)	3,500 (73)	
0	3,930 (57)	3,930 (61.5)	4,100 (63)	3,350 (71)	
5	3,050	3,050	3,800	3,270	
	(54.5) 2,270	(59) 2,270	(61) 3,640	(69) 3,210	
00	(52.5) 1,580	(56.5) 1,580	(59.5) 3,490	(67) 3,150	
)5	(50)	(54)	(57.5)	(65) 3,100	
10			3,240 (55.5)	(63)	
15			2,530 (53.5)	2,530 (61)	
20			1,880 (51)	1,880 (58.5)	
25			1,300 (49)	1,300 (56.5)	
ſhis capacity i	angles are in degrees. s based upon maximum b	poom angle.			A6-829-0

40 - 125 ft.	









33.25 x 29

38 m)	(5216 kg)	(32 Ply) Stationary	300				
					Pounds		
Feet	40	45	55	65	75	85	95
10	66,250 (70.5)	63,400 (73)					
12	51,800 (67.5)	51,500 (70.5)	50,900 (74.5)				
15	35,850 (62.5)	35,450 (66)	33,500 (71)	30,800 (74.5)			
20	21,500 (53.5)	21,200 (58.5)	20,650 (65)	18,950 (69.5)	21,250 (72.5)	18,200 (75)	
25	14,050 (42.5)	13,800 (50)	13,300 (59)	12,850 (64.5)	13,650 (68.5)	14,800 (71.5)	13,950 (74)
30	9,430 (28)	8,920 (40)	8,590 (52)	8,260 (59.5)	8,470 (64)	8,920 (68)	9,980 (70.5)
35		5,750 (26.5)	5,100 (44.5)	4,460 (54)	5,000 (59.5)	6,060 (64)	6,500 (67.5)
40			3,000 (35.5)	2,160 (47.5)	3,260 (55)	3,870 (60)	4,100 (64)
45							2,330 (60.5)

360

NOTE: ( ) Boom angles are in degrees.

A6-829-012279

Boom Angle	40	45
<b>0</b> °	7,420 (32.3)	4,770 (37.8)

NOTE: () Reference radii are in feet.













40 - 125 ft. (12 - 38 m)

(12 - 38 m)	(5216 kg)	(32 Ply) Stationary	Over Front ±6°				
					Pounds		
Feet	40	45	55	65	75	85	95
10	86,100 (70.5)	72,250 (73)					
12	76,400 (67.5)	61,250 (70.5)	51,600 (74.5)				
15	63,250 (62.5)	49,350 (66)	44,300 (71)	42,950 (74.5)			
20	47,850 (53.5)	36,450 (58.5)	34,700 (65)	33,300 (69.5)	34,300 (72.5)	20,150 (75)	13,950 (77)
25	32,650 (42.5)	28,150 (50)	27,400 (59)	26,150 (64.5)	26,700 (68.5)	20,150 (71.5)	13,950 (74)
30	23,200 (28)	22,400 (40)	21,600 (52)	20,550 (59.5)	20,950 (64)	20,150 (68)	13,950 (70.5)
35		16,850 (26.5)	16,500 (44.5)	16,100 (54)	16,500 (59.5)	16,750 (64)	13,950 (67.5)
40			12,250 (35.5)	11,950 (47.5)	12,550 (55)	13,350 (60)	13,950 (64)
45			9,140 (23.5)	8,870 (41)	9,450 (50)	9,980 (56)	11,050 (60.5)
50				6,510 (32.5)	7,070 (44)	7,790 (51.5)	8,620 (56.5)
60					3,620 (30)	4,400 (41.5)	4,770 (48.5)
70						1,910 (28.5)	2,740 (39.5)

NOTE: ( ) Boom angles are in degrees.

Boom Angle	40	45	55	65	75		
<b>0</b> °	20,050 (32.3)	14,300 (37.8)	7,750 (47.8)	3,570 (57.8)	1,300 (67.8)		

NOTE: () Reference radii are in feet.

A6-829-012282

A6-829-012278

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.











40 - 125 ft. (12 - 38 m)

12 - 38 m)	(5216 kg)	Pick & Carry Up to 2.5 MPH	Over Fro	nt			
					Pounds		
Feet	40	45	55	65	75	85	95
10	87,650 (70.5)	84,400 (73)					
12	76,500 (67.5)	74,250 (70.5)	69,200 (74.5)				
15	63,700 (62.5)	63,500 (66)	56,400 (71)	52,100 (74.5)			
20	48,850 (53.5)	48,650 (58.5)	43,700 (65)	38,300 (69.5)	38,300 (72.5)	30,100 (75)	21,400 (77)
25	32,650 (42.5)	32,400 (50)	31,900 (59)	30,100 (64.5)	30,100 (68.5)	27,150 (71.5)	21,400 (74)
30	23,200 (28)	22,950 (40)	22,250 (52)	22,100 (59.5)	22,850 (64)	24,000 (68)	21,400 (70.5)
35		16,850 (26.5)	16,500 (44.5)	16,100 (54)	16,750 (59.5)	17,850 (64)	18,900 (67.5)
40			12,250 (35.5)	11,950 (47.5)	12,550 (55)	13,550 (60)	14,500 (64)
45			9,140 (23.5)	8,870 (41)	9,450 (50)	10,350 (56)	11,300 (60.5)
50				6,510 (32.5)	7,070 (44)	7,950 (51.5)	8,840 (56.5)
60					3,650 (30)	4,470 (41.5)	5,290 (48.5)
70						2,180 (28.5)	2,870 (39.5)
80							1,120 (27)

NOTE: ( ) Boom angles are in degrees.

A6-829-012280

Boom Angle	40	45	55	65	75	
<b>0</b> °	20,050 (32.3)	14,300 (37.8)	7,750 (47.8)	3,770 (57.8)	1,900 (67.8)	

NOTE: () Reference radii are in feet.

## Rated lifting capacities

#### NOTES FOR LIFTING CAPACITIES

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 meet ANSI/ASME B30.5, Mobile and Locomotive Cranes. Testing and development were performed to SAEJ1063, Cantilevered Boom Crane Structures - Method of Test, and SAEJ765 Crane Stability Test Code.

2. Rated loads include the weight of hookblock, slings and auxiliary lifting devices and their weights shall be subtracted from the listed rating to obtain the net load to be lifted. When more than the minimum required hoist reeving is used, the additional rope weight shall be considered part of the load to be handled.

3. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.

4. The machine shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.

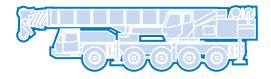
5. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or next longer or shorter boom length shall be used.

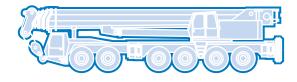
6. Tires shall be inflated to the recommended pressure before lifting on rubber.

7. For outrigger operation, outriggers shall be properly extended with tires raised free of crane weight before operating the boom or lifting loads.

## Symbols Glossary

















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