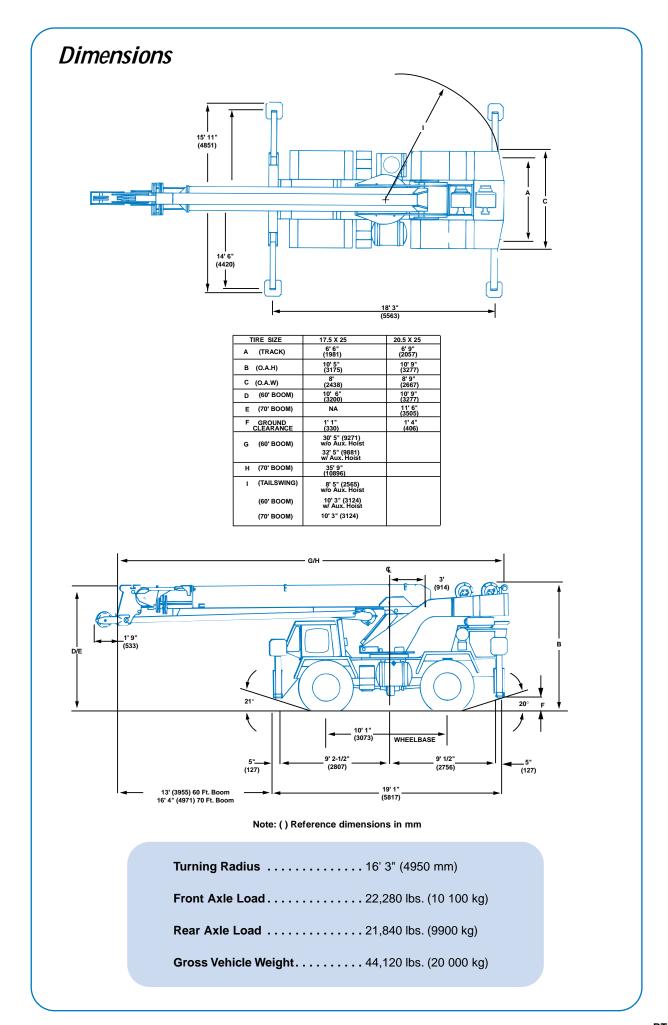
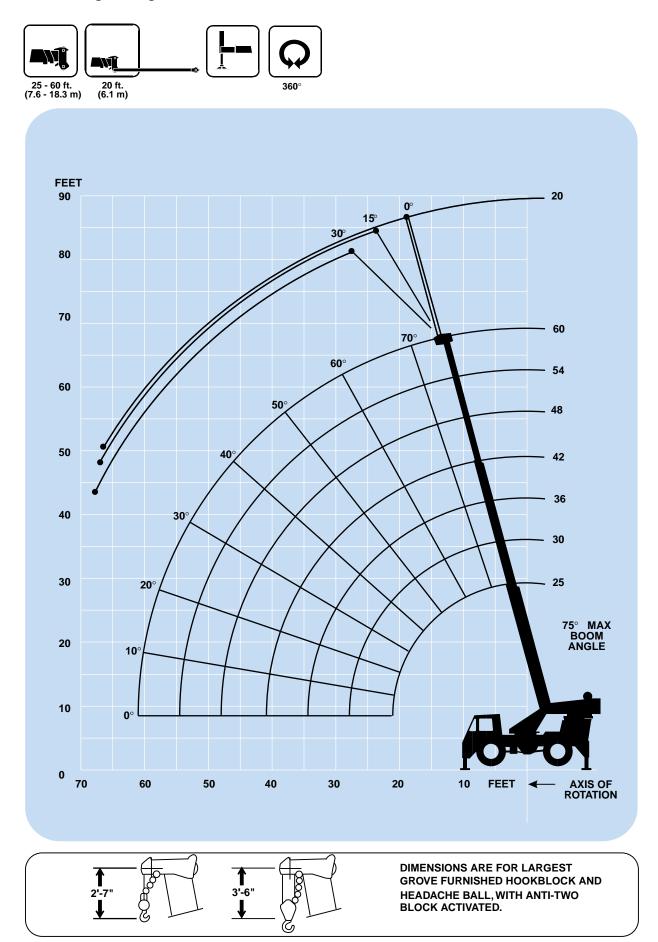


Rough Terrain Hydraulic Crane



Working Range



Superstructure specifications

Boom

25 ft. - 60 ft. (7.6 m - 18.3 m) three-section full power boom. Maximum Tip Height: 66 ft. (20.1 m).

*Optional Jib (60 ft. Boom)

20 ft. (6.1 m) "A frame" jib offsettable at 0°, 15° or 30°. Stows beneath base boom section. Maximum Tip Height: 85 ft. (25.9 m).

***Optional Boom**

28 ft.- 70 ft. (8.6 m - 21.2 m) three-section full power boom. Maximum Tip Height: 76 ft. (23.2 m).

*Optional Jib (70 ft. Boom)

23 ft. (7.0 m) "A frame" jib offsettable at 0°, 15° or 30°. Stows beneath base boom section. Maximum Tip Height: 98 ft. (29.9 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

Two double acting hydraulic cylinders with integral holding valve provides elevation from -0° to 75°.

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 frame mounted with tinted safety glass throughout. Deluxe adjustable seat. Dash mounted control levers, gauges, for engine functions. Other standard features include: sliding side doors, electric windshield wash-wipe, circulating air fan, dome light, fire extinguisher, seat belt.

Swing

Ball bearing swing circle with 360° continuous rotation. Grove planetary drive with automatic multi-disc swing brake and plunger type mechanical house lock. Maximum speed: 2.9 RPM.

Counterweight

Bolted to turntable mast. 60 ft. (18.3 m) Boom: With main only: 7,470 lbs. (3388 kg) With main & aux.: 5,710 lbs (2590 kg) 70 ft. (21.2 m) Boom: All configurations: 10,170 lbs. (4613 kg)

Hydraulic System

Three main pumps with a combined capacity 112.5 GPM (426 LPM). Driven by carrier engine through P.T.O. Maximum operating pressure: 2500 PSI (172 BAR). *Optional pump disconnect with engine jogging switch.

Hoist Specifications Main and *Auxiliary Hoist

Power up and down equal speed, grooved drum, planetary reduction with automatic brake and hoist cable followers. Electronic hoist drum rotation indicators and wire rope.

Maximum Single Line Pull:	9,640 lbs. (4372 kg)
Maximum Single Line Speed:	429 FPM (131 m/min)
Maximum Permissible Line Pull:	8,496 lbs. (3853 kg)
Rope Diameter:	5/8 in. (16 mm)
Rope Length:	350 ft. (106 m)
Maximum Rope Stowage:	486 ft. (148 m)

Carrier specifications

Chassis

Steel all welded box-type construction. Integral outrigger housings and front/rear towing and tie down lugs.

Outrigger System

Cantilever arm type at all four corners with integral check valves on each extension cylinder. Integral all steel outrigger float pads 13.5 in. (343 mm) square. Maximum outrigger pad load: 36,787 lbs. (16 687 kg).

Outrigger Controls

Controls and crane level indicator located in cab.

Engine

Cummins BT5.9L six cylinders, turbocharged, water cooled diesel, 125 bhp (93 kW) (Gross) @ 2,800 RPM. Maximum torque: 325 ft. lbs. (441 Nm) @ 1,700 RPM.

Fuel Tank Capacity

60 gallons (227 L)

Transmission

Remote mounted powershift with 6 forward and 6 reverse speeds, 3 in high range, 3 in low range. Rear axle disconnect for 4×2 travel.

Electrical System

Two 12 V - maintenance free batteries. 625 CCA@ 0°F 12 V starting.

Drive

4 x 4 or 4 x 2.

Steering

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

Axles

- Front: Drive steer with differential and planetary reduction hubs rigid mounted to chassis.
- Rear: Drive/steer with differential and planetary reduction hubs pivot mounted at center of chassis. Automatic full hydraulic lockouts on rear axle. *No-spin differential on rear axle.

Oscillation Lockouts

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

Tires

Std. 17.5 x 25 - 20PR earthmover type, tubless. *Optional: 20.5 x 25 -20PR., earthmover type, tubeless.

Lights

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

Maximum Speed

24 MPH (38.0 kph).

Gradeability (Theoretical)

96.7% (Theoretical based 49,000 lbs. [22 226 kg] GVW)

Miscellaneous Standard Equipment

Full width steel fenders, electronic back-up alarm, light package, hourmeter, fire extinguisher, seat belts, air cleaner service indicator.

*Optional Equipment

*Auxiliary hoist w/wire	*Spare wheel
rope	*Tool kit
*Boom mounted	*LMI light bar
worklights	*Cold start aid
*360° flashing light	(less canister)
*Spotlights	*Tachometer
*Hot water heater	*A/V warning system, low
*Hookblock/Headache ball	oil pressure, high water
*Tow winch - front	temperature.
mounted maximum pull:	*360° positive swing lock
15,000 lbs. (6804 kg);	*Integral toolboxes
maximum speed: 72	
ft/min. (22 m/min).	
•	

*Denotes optional equipment









100%

(Pounds)

4,820 (45)

6,140 (39) 3,850 (51)

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(Feet)	25	30	36	42	48	54	60
10	40,000 (60)	36,000 (66)	36,000 (70.5)	36,000 (74)			
12	34,500 (54.5)	34,500 (62)	34,500 (67.5)	34,500 (71)	34,500 (74)		
15	28,000 (45)	28,000 (55)	28,000 (62)	28,000 (66.5)	28,000 (70)	28,000 (73)	25,000 (75.5)
20	19,600 (23.5)	19,600 (41.5)	19,600 (52)	19,600 (59)	19,600 (63.5)	19,600 (67.5)	19,600 (70.5)
25		13,300 (23)	13,300 (41)	13,300 (50.5)	13,300 (56.5)	13,300 (61.5)	13,300 (65)
30			9,730 (25.5)	9,730 (40.5)	9,730 (49)	9,730 (55)	9,730 (59.5)
35				7,440 (27.5)	7,440 (40)	7,440 (48)	7,440 (53.5)
40					5,880 (28.5)	5,880 (40)	5,880 (47)
45						4,820 (30)	4,820 (39.5)
50						4,000 (13.5)	4,000 (30)
55							3,350 (16.5)
Minimum boon	n angle (degrees)	for indicated leng	gth (no load)				0
Maximum boo	m length (ft.) at 0	degree boom ang	le (no load)				60
Note: () Boom	angles are in deg	jrees.					
Boom Angle	25	30	36	42	48	54	60

Note: () Reference radii in feet.

0°

6

15,150 (21.8) 11,550 (27) 8,250 (33)

A6-829-004149

2,970 (56.6)









100%



25 - 60 ft. (7.6 - 18.3 m) 7,470 lbs. (3388 kg)

(,	(******3)						
					(Pounds)		
(Feet)	25	30	36	42	48	54	60
10	40,000 (60)	36,000 (66)	36,000 (70.5)	36,000 (74)			
12	34,500 (54.5)	34,500 (62)	34,500 (67.5)	34,500 (71)	34,500 (74)		
15	28,000 (45)	28,000 (55)	28,000 (62)	28,000 (66.5)	28,000 (70)	28,000 (73)	25,000 (75.5)
20	22,200 (23.5)	22,200 (41.5)	22,200 (52)	22,200 (59)	22,200 (63.5)	22,200 (67.5)	21,500 (70.5)
25		17,400 (23)	17,400 (41)	17,400 (50.5)	17,400 (56.5)	17,400 (61.5)	17,400 (65)
30			14,100 (25.5)	14,100 (40.5)	14,100 (49)	14,100 (55)	14,100 (59.5)
35				11,320 (27.5)	11,320 (40)	11,320 (48)	11,320 (53.5)
40					9,010 (28.5)	9,010 (40)	9,010 (47)
45						7,470 (30)	7,470 (39.5)
50						6,200 (13.5)	6,200 (30)
55							5,100 (16.5)
Minimum boon	n angle (degrees)	for indicated leng	th (no load)				0
Maximum boo	m length (ft.) at 0 o	degree boom ang	le (no load)				60

Note: () Boom angles are in degrees.

A6-829-004152A

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.





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20 ft. (6.1 m)







		(Pounds)	
Boom Angle	0°	15°	30°
	OFFSET	OFFSET	OFFSET
75	9,500	6,100	4,200
	(21.5)	(25.8)	(28.9)
70	8,400	5,450	3,870
	(27.8)	(31.9)	(34.8)
65	7,140	4,850	3,660
	(33.9)	(37.8)	(40.5)
60	5,440	4,400	3,500
	(39.7)	(43.4)	(45.9)
55	4,210	3,770	3,330
	(45.3)	(48.6)	(50.8)
50	3,410	3,200	3,200
	(50.5)	(53.6)	(55.4)
45	2,810	2,730	2,700
	(55.2)	(58.1)	(59.6)
40	2,440	2,360	2,360
	(59.6)	(62.1)	(63.2)
35	2,150	2,040	2,040
	(63.5)	(65.6)	(66.4)
30	1,890	1,810	1,810
	(66.9)	(68.6)	(69.1)

Note: () Reference radii in feet.

A6-829-003405C

ЛĴ, 25 - 60 ft. (7.6 m - 18.3 m)





360°	
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				(Pounds)		
(Feet)	25	30	36	42	48	54
10	16,280 (60)					
12	13,000 (54.5)	10,000 (62)	10,000 (67.5)	10,000 (71)	10,000 (74)	
15	9,000 (45)	7,600 (55)	7,600 (62)	7,600 (66.5)	7,600 (70)	
20	5,290 (23.5)	5,000 (41.5)	5,000 (52)	5,000 (59)	5,000 (63.5)	5,000 (67.5)
25		3,440 (23)	3,440 (41)	3,440 (50.5)	3,440 (56.5)	3,440 (61.5)
30			2,440 (25.5)	2,440 (40.5)	2,440 (49)	2,440 (55)
35				1,780 (27.5)	1,700 (40)	1,700 (48)
40					1,220 (28.5)	1,100 (40)
45						820 (30)
Note: () Boom	angles are in degre	es.				

Note: () Reference radii in feet.

8

A6-829-009191A







Stationary 17.5 X 25 - 20PR Tires



					(Pounds)		
(Feet)	25	30	36	42	48	54	60
10	24,100 (60)						
12	22,060 (54.5)	16,000 (62)	16,000 (67.5)	16,000 (71)	10,000 (74)		
15	17,380 (45)	13,000 (55)	13,000 (62)	13,000 (66.5)	10,000 (70)		
20	11,340 (23.5)	9,600 (41.5)	9,600 (52)	9,600 (59)	9,600 (63.5)	9,600 (67.5)	
25		7,650 (23)	7,650 (41)	7,500 (50.5)	7,500 (56.5)	7,500 (61.5)	
30			5,660 (25.5)	5,660 (40.5)	5,660 (49)	5,660 (55)	5,660 (59.5)
35				4,340 (27.5)	4,340 (40)	4,340 (48)	4,340 (53.5)
40					3,410 (28.5)	3,410 (40)	3,410 (47)
45						2,750 (30)	2,750 (39.5)
50						2,180 (13.5)	2,150 (30)
55							1,600 (16.5)
Note: () E	Boom angles are ir	n degrees.					

Boom Angle	25	30	36	42	48	54	60
0 °	9,880	6,680	4,820	3,570	2,750	2,750	1,480
	(21.8)	(27)	(33)	(39)	(45)	(51)	(56.6)

Note: () Reference radii in feet.

A6-829-009166A















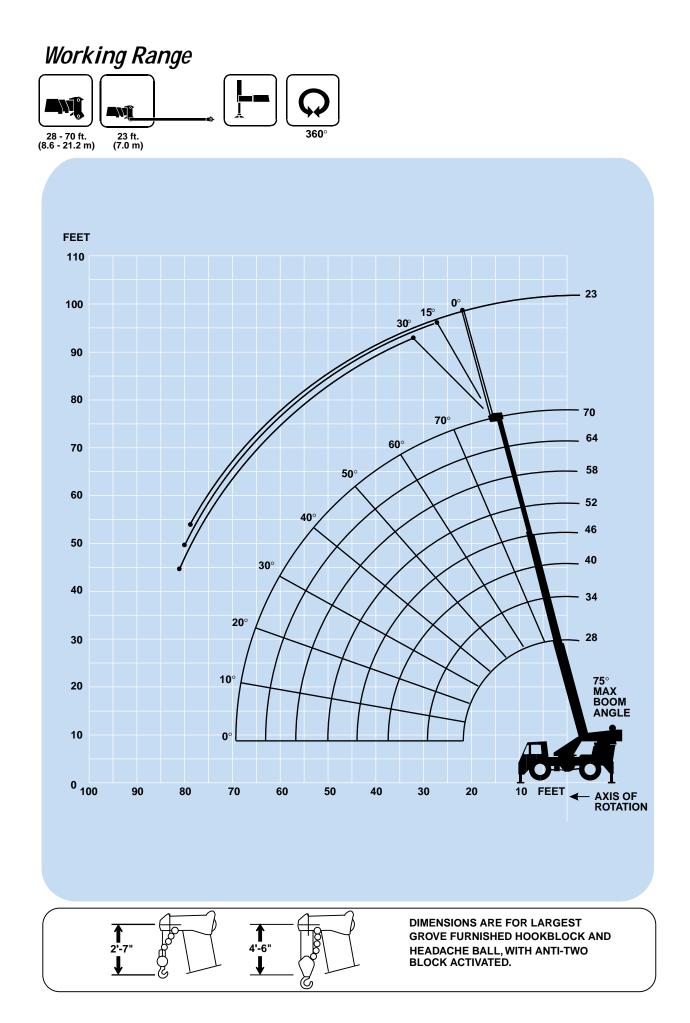
		17.5 X 25 - 2	20PR Tires				
					(Pounds)		
(Feet)	25	30	36	42	48	54	60
10	24,750 (60)						
12	21,030 (54.5)	13,700 (62)	13,700 (67.5)				
15	16,830 (45)	11,100 (55)	11,100 (62)	11,100 (66.5)	11,100 (70)		
20	11,340 (23.5)	8,670 (41.5)	8,670 (52)	8,300 (59)	8,300 (63.5)		
25		7,650 (23)	7,650 (41)	6,400 (50.5)	6,400 (56.5)	6,400 (61.5)	
30			5,410 (25.5)	5,000 (40.5)	5,000 (49)	5,000 (55)	5,000 (59.5)
35				4,340 (27.5)	4,000 (40)	4,000 (48)	4,000 (53.5)
40					3,410 (28.5)	3,100 (40)	3,100 (47)
45						2,750 (30)	2,500 (39.5)
50						2,180 (13.5)	2,000 (30)
55							1,600 (16.5)

Note: () Boom angles are in degrees.

Boom Angle	25	30	36	42	48	54	60	
0 °	9,880 (21.8)	5,990 (27)	4,750 (33)	3,570 (39)	2,750 (45)	2,060 (51)	1,480 (56.6)	

Note: () Reference radii in feet.

A6-829-009192A











100%



28 - 70 ft. (8.6 - 21.2 m)

					(Pou	nds)		
(Feet)	28	34	40	46	52	58	64	70
10	40,000 (64)	36,000 (69)	36,000 (73)					
12	35,000 (59.5)	35,000 (65.5)	35,000 (70)	35,000 (73)				
15	28,400 (51.5)	28,400 (59.5)	28,400 (65)	28,400 (69)	28,400 (72)	28,400 (74.5)		
20	21,100 (36.5)	21,100 (49)	21,100 (57)	21,100 (62)	21,100 (66)	21,100 (69.5)	21,100 (72)	20,500 (74)
25		15,450 (36)	15,450 (47.5)	15,450 (54.5)	15,450 (60)	15,450 (64)	15,450 (67)	15,450 (69.5)
30		11,270 (15.5)	11,270 (36.5)	11,270 (46.5)	11,270 (53)	11,270 (58)	11,270 (62)	11,270 (65)
35			8,660 (20)	8,660 (36.5)	8,660 (45.5)	8,660 (51.5)	8,660 (56.5)	8,660 (60)
40				6,940 (23)	6,940 (36.5)	6,940 (45)	6,940 (50.5)	6,940 (55)
45					5,550 (25)	5,550 (37)	5,550 (44.5)	5,550 (49.5)
50						4,500 (26.5)	4,500 (37)	4,500 (43.5)
55							3,600 (28)	3,600 (37)
60							2,850 (13)	2,850 (28.5)
65								2,260 (15.5)
Minimum be	oom angle (deg	rees) for indicat	ed length (no lo	oad)				0

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

Note: () Boom angles are in degrees.

Boom Angle	28	34	40	46	52	58	64	70	
0 °	14,910 (25.1)	10,610 (31)	7,910 (37)	6,060 (43)	4,690 (49)	3,600 (55)	2,710 (61)	2,110 (66.6)	

Note: () Reference radii in feet.

A6-829-004361

70











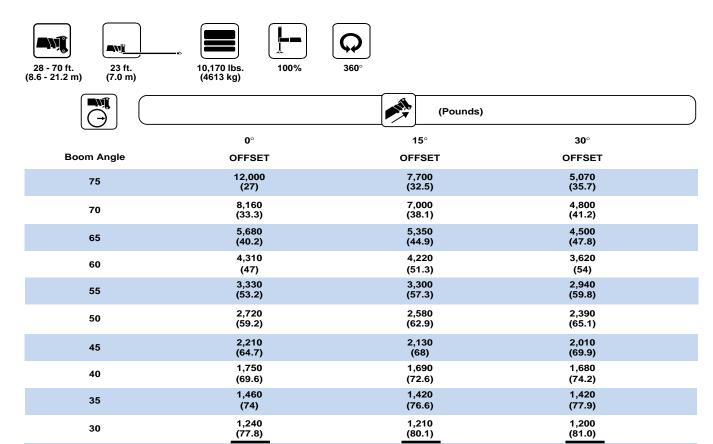
28 - 70 ft. (8.6 - 21.2 m)

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					(Pou	nds)		
(Feet)	28	34	40	46	52	58	64	70
10	40,000 (64)	36,000 (69)	36,000 (73)					
12	35,000 (59.5)	35,000 (65.5)	35,000 (70)	35,000 (73)				
15	28,400 (51.5)	28,400 (59.5)	28,400 (65)	28,400 (69)	28,400 (72)	28,400 (74.5)		
20	21,100 (36.5)	21,100 (49)	21,100 (57)	21,100 (62)	21,100 (66)	21,100 (69.5)	21,100 (72)	20,500 (74)
25		17,200 (36)	17,200 (47.5)	17,200 (54.5)	17,200 (60)	17,200 (64)	17,200 (67)	17,200 (69.5)
30		14,050 (15.5)	14,050 (36.5)	14,050 (46.5)	14,050 (53)	14,050 (58)	14,050 (62)	14,050 (65)
35			11,650 (20)	11,650 (36.5)	11,650 (45.5)	11,650 (51.5)	11,650 (56.5)	11,650 (60)
40				9,760 (23)	9,760 (36.5)	9,760 (45)	9,760 (50.5)	9,760 (55)
45					8,160 (25)	8,160 (37)	8,160 (44.5)	8,160 (49.5)
50						6,870 (26.5)	6,870 (37)	6,870 (43.5)
55							5,740 (28)	5,740 (37)
60							4,770 (13)	4,770 (28.5)
65								3,910 (15.5)
Minimum bo	oom angle (degr	ees) for indicat	ed length (no lo	oad)				0
Maximum b	oom length (ft.)	at 0 degree boo	om angle (no lo	ad)				70

Note: () Boom angles are in degrees.

A6-829-004358



Note: () Reference radii in feet.





360°

28 - 70 ft. (8.6 - 21.2 m)

(4613 kg) 20 X 25 - 20PR Tires

					(Pounds)		
(Feet)	28	34	40	46	52	58	64
10	24,710 (64)	15,000 (69)	14,500 (73)				
12	18,450 (59.5)	13,500 (65.5)	12,100 (70)	12,100 (73)			
15	12,610 (51.5)	12,100 (59.5)	9,450 (65)	9,450 (69)	9,450 (72)		
20	7,290 (36.5)	7.290 (49)	6,350 (57)	6,100 (62)	6,100 (66)	6,100 (69.5)	6,100 (72)
25	4,780 (6)	4,780 (36)	4,780 (47.5)	4,250 (54.5)	4,250 (60)	4,250 (64)	4,250 (67)
30		3,350 (15.5)	3,350 (36.5)	3,350 (46.5)	3,000 (53)	3,000 (58)	3,000 (62)
35			2,410 (20)	2,410 (36.5)	2,410 (45.5)	2,050 (51.5)	2,050 (56.5)
40				1,690 (23)	1,690 (36.5)	1,690 (45)	1,300 (50.5)
45					1,050 (25)	1,050 (37)	1,050 (44.5)
					()	()	

Note: () Boom angles are in degrees.

NOTE: () Reference radii in feet.

A6-829-009270

A6-829-004378D

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.









Defined Arc Over Front

						(Pounds)		
(Feet)	28	34	40	46	52	58	64	70
10	31,300 (64)	20,500 (69)	18,500 (73)					
12	27,500 (59.5)	18,500 (65.5)	16,500 (70)	16,500 (73)				
15	22,300 (51.5)	16,500 (59.5)	14,000 (65)	14,000 (69)	14,000 (72)			
20	13,940 (36.5)	13,940 (49)	10,500 (57)	10,500 (62)	10,500 (66)	10,500 (69.5)	10,500 (72)	
25	9,160 (6)	9,160 (36)	8,000 (47.5)	8,000 (54.5)	8,000 (60)	8,000 (64)	8,000 (67)	
30		6,850 (15.5)	6,850 (36.5)	6,250 (46.5)	6,250 (53)	6,250 (58)	6,250 (62)	6,250 (65)
35			5,180 (20)	5,180 (36.5)	4,950 (45.5)	4,950 (51.5)	4,950 (56.5)	4,950 (60)
40				4,020 (23)	4,020 (36.5)	3,900 (45)	3,900 (50.5)	3,900 (55)
45					3,140 (25)	3,140 (37)	3,050 (44.5)	3,050 (49.5)
50						2,430 (26.5)	2,430 (37)	2,350 (43.5)
55						1,860 (3.5)	1,860 (28)	1,750 (37)
60							1,440 (13)	1,440 (28.5)
65								1,140 (15.5)

Note: () Boom angles are in degrees.

Boom Angle	28	34	40	46	52	58	64	70	
0 °	9,120 (25.1)	6,460 (31)	4,670 (37)	3,470 (43)	2,560 (49)	1,860 (55)	1,400 (61)	990 (66.6)	

NOTE: () Reference radii in feet.

A6-829-009269



28 - 70 ft. (8.6 - 21.2 m)







((111113)	20 X 25 - 20	PR Tires					
					(Pounds)			
(Feet)	28	34	40	46	52	58	64	
10	28,470 (64)	18,000 (69)	18,000 (73)					
12	24,550 (59.5)	15,500 (65.5)	15,500 (70)	15,500 (73)				
15	20,420 (51.5)	12,500 (59.5)	12,500 (65)	12,500 (69)	12,500 (72)			
20	13,940 (36.5)	10,500 (49)	8,500 (57)	8,500 (62)	8,500 (66)	8,500 (69.5)	8,500 (72)	
25	9,160 (6)	9,160 (36)	6,500 (47.5)	6,500 (54.5)	6,500 (60)	6,500 (64)	6,500 (67)	
30		5,670 (15.5)	5,670 (36.5)	4,950 (46.5)	4,950 (53)	4,950 (58)	4,950 (62)	
35			4,430 (20)	4,430 (36.5)	3,900 (45.5)	3,900 (51.5)	3,900 (56.5)	
40				3,510 (23)	3,050 (36.5)	3,050 (45)	3,050 (50.5)	
45					2,760 (25)	2,350 (37)	2,350 (44.5)	
50						2,120 (26.5)	1,750 (37)	
55						1,580 (3.5)	1,580 (28)	
60							1,180 (13)	
Note: () Boom	n angles are in degr	ees.						

Boom Angle	28	34	40	46	52	58	64	
0 °	9,120 (25.1)	5,400 (31)	4,020 (37)	3,040 (43)	2,240 (49)	1,580 (55)	1,110 (61)	

NOTE: () Reference radii in feet.

A6-829-009271

23 FT. A-FRAME JIB WITH 28 FT 70 FT. BOOM						
*Stowed - *Erected -	381 lbs. 1,950 lbs.					
23 - 38 FT. TELE. JIB WITH 28 FT 70 FT. BOOM						
*Stowed - *Erected (Retracted) -	604 lbs. 3,659 lbs.					
*Erected (Extended) -	4,583 lbs.					

*Reduction of main boom capacities

AUXILIARY BOOM HEAD	100 lbs.
HOOKBLOCKS and HEADACHE BALLS:	
12 Ton, 1 Sheave	268 lbs.+
15 Ton, 2 Sheave	290 lbs.+
22 Ton, 3 Sheave	455 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 SAEJ1063 NOV93 Cantilevered Boom Crane Structures - Method of Test, and do not exceed 85% of the tipping load on outriggers (75% of the tipping load on rubber) as determined by SAEJ765 OCT. 90 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. Capacities appearing above the bold line are based on structural strength. Tipping should never be used to indicate capacity limitation.

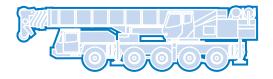
4. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.

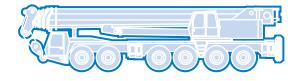
5. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.

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

Symbols Glossary

















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