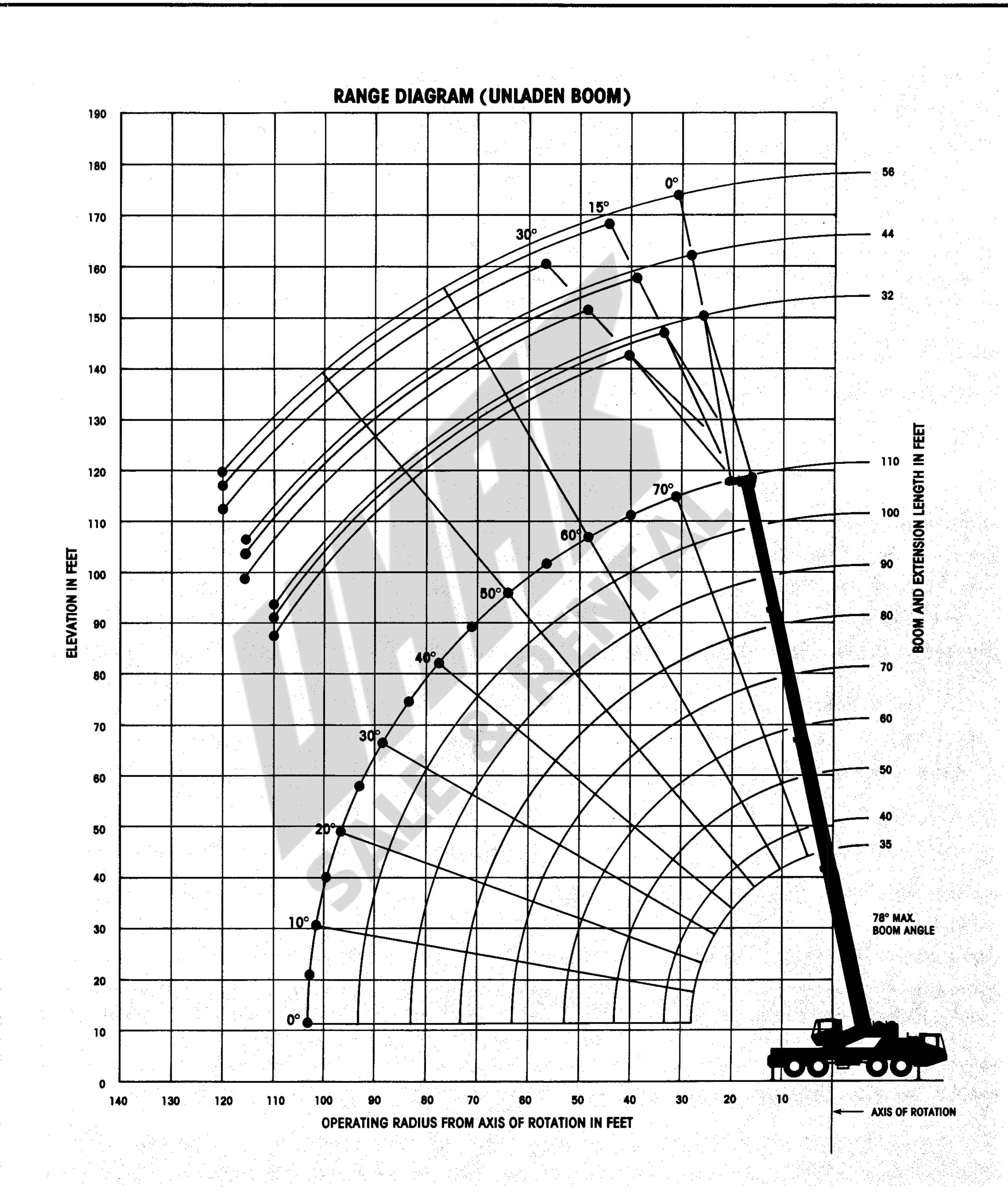


# AT700B

All-terrain hydraulic crane/85% Domestic



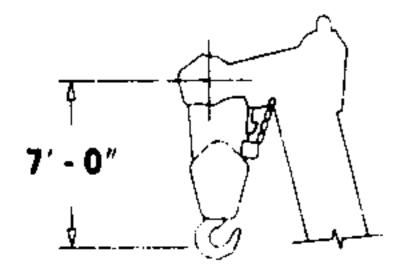
#### 32 FT. FIXED LENGTH BOOM EXTENSION ON OUTRIGGERS - 360°

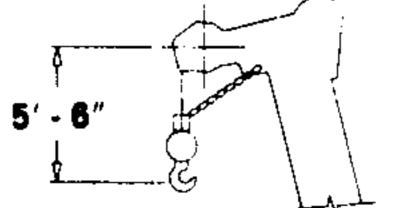
ON OUTHIODERS - DOO					
Radius in Feet	0° OFFSET	15° OFFSET	30° OFFSET		
30	9,880 (78)				
35	9,090	17,880			
	(76)	(78)			
40	8,380	7,450	°6,180		
	(74)	(75.5)	:-(78)		
45	7,720	7,140	6,070		
	(71.5)	(73.5)	(76)		
50	7,120	6,850	5,820		
	(69.5)	(71.5)	(73.5)		
55	6,570	6,590	5,590		
	(67)	(69)	(71.5)		
60	5,880	6,350	5,390		
	(65)	(67)	(69)		
65	5,230	5,660	5,200		
	(62.5)	(64.5)	(67)		
70	4,650	5,050	5,030		
	(60)	(62)	(64.5)		
75	4,120	4,490	4,800		
	(57.5)	(59.5)	(62)		
80	3,640	3,980	4,260		
	(55)	(57)	(59.5)		
85	3,190	3,500	3,760		
	(52.5)	(54.5)	(57)		
90	2,790	3,070	3,300		
	(49.5)	(52)	(54)		
95	2,410	2,670	2,870		
	(47)	(49)	(51)		
100	2,070	2,300	2,480		
	(43.5)	(46)	(48)		
105	1,750	1,960	2,110		
	(40.5)	(42.5)	(45)		
110	1,450	1,630	1,760		
1	(37)	(39)	(41.5)		

A6-829-009600A

NOTE: ( ) Boom angles are in degrees.

\*This capacity is based upon the maximum boom angle.





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

# 32 FT.-56 FT. TELE. BOOM EXTENSION

#### RATED LIFTING CAPACITIES (POUNDS) 35 FT.-110 FT. 4-SECTION BOOM ON OUTRIGGERS FULLY EXTENDED - 360°

Radius			<del></del>		oom Length	<del>''</del> 1	· · · · · · · · · · · · · · · · · · ·		_
n Feet	35	40	50	.60	70	80	90	100	110
9	@100,000		·						
	(67.5)					·		<u> </u>	: : ·
9	90,000								
	(67.5)				. <u> </u>				·
10	80,000	68,000	58,150	·			: :		the second
	(66)	(69.5)	(74)				· .		
12	67,400	63,800	55,450	44,600					
	(62)	(66)	(71.5)	(75)			_		
15	56,500	54,500	48,050	42,250	35,600	33,000			
	(56)	(61)	(67.5)	(71.5)	(74.5)	(77)		·	
20	44,000	43,000	39,400	33,600	30,500	28,000	25,500	23,300	
	(44.5)	(52)	(61)	(66.5)	(70.5)	(73.5)	(75.5)	(77.5)	
25	33,500	33,000	32,400	27,750	25,200	23,800	22,000	20,400	18,50
	(28.5)	(41.5)	(54)	(61)	(66)	(69.5)	(72)	(74.5)	(76)
30		26,500	26,500	23,350	21,100	20,400	19,300	17,550	15,75
		(27)	(46)	(55)	(61)	(65.5)	(68.5)	(71.5)	(73.5
35			21,500	20,000	18,050	17,400	16,400	15,200	13,65
,35			(36.5)	(49)	(56)	(61.5)	(65)	(68)	(70.5
					ļ				
40			16,650	16,150	15,650	15,050	14,150	13,300	12,00
	<u> </u>		(24)	(41.5)	(50.5)	(57)	(61.5)	(65)	(68)
45	1			12,700	13,600	13,200	12,350	11,550	10,60
		····		(33)	(45)	(52.5)	(57.5)	(61.5)	(65)
50		•		10,100	10,950	11,600	10,850	10,100	9,500
				(21.5)	(38.5)	(47.5)	(53.5)	(58.5)	(62)
55					8,840	9,520	9,630	8,950	8,470
		**			(31)	(42)	(49.5)	(54.5)	(58.5
60					7,140	7,820	8,410	7,950	7,500
					(20)	(36)	(45)	(51)	(55.5
65		4				6,430	7,040	7,080	6,670
	·	4				(29)	(40)	(47)	··· (52)
70			<u> </u>			5,270	5,900	6,250	5,940
, 0						(19)	(34)	(42.5)	(48.5
75							4,930	5,270	5,30
							(27.5)	(38)	(45)
90							4,100	4,420	4,700
80							(18)	(32.5)	(40.5
95						**.		3,700	3,97
85		1//			/ . A			(26)	(36)
90								3,060	3,330
70								(17)	(31)
95				7					2,76
73									(25)
100			-					<del></del>	2,26
100									(16)
nim.	hoom cools	(dea ) for in	disated last	ath (no lood		L	<u> </u>	L	n
mmum I	boom angle		g, boom ar						110

ength is with inner-mid extended and outer-mid & fly retracted.

capacity of 100,000 lbs. over rear only within defined arc of 6° either side of centerline.

#### WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

32 FT56 FT. TI	ELE
†Stowed -	876 lbs.
Erected (retracted) -	6,368 lbs.
†Erected (extended) -	8,460 lbs.

32 FT. FIXED OF	FSETTABLE
†Stowed -	693 lbs.
†Erected	4,250 lbs.

†Reduction of main boom capacities.

HOOKBLOCKS:	<del>. ,</del>
45 Ton	1,095 lbs.
15 Ton	380 lbs.
Auxiliary Boom Head	
10 Ton Headache Ball	560 lbs.
7 1/2 Ton Headache Ball	338 lbs.

#### NO LOAD STABILITY ON RUBBER

	No Load Stability Data	Main Boom 110 ft.
Rear	Min. boom angle (deg.) for indicated length	9
(No Load)	Max. boom length (ft.) at 0 deg. boom angle	100
360 Deg.	Min. boom angle (deg.) for indicated length	<b>57</b>
(No Load)	Max. boom length (ft.) at 0 deg. boom angle	50

Dadius is		22 # 1ENGTH	· · · · · ·	<u>-</u>	GERS			56 ff. LENGTH	Max. lifting
Radius in Feet	0 OFFSET	15 OFFSET	30 OFFSET	0° OFFSET	44 ft. LENGTH	30 OFFSET	0 OFFSET	15 OFFSET	30' OFFSET
. 30	9,500	13 OFFSET	30 OFFSET	U OFFSET	13 OFFSET	30 Orraci	O OITSET	15 Olyger	- 30 O113E1
. 30	(78)								
35	8,710	17,500		7,320	<del>!                                    </del>				
••	(76)	(78)		(77.5)					
40	8,000	7,070	15,800	6,880		1. 1	5,560		
	(74)	(75.5)	(78)	(75.5)			(77)	:	
45	7,340	6,760	5,690	6,490	*5,060		5,250		
	(71.5)	(73.5)	(76)	(74)	(77.5)		(75.5)		
50	6,740	6,470	5,440	6,140	4,840	3,770	4,970	3,900	
	(69.5)	(71.5)	(73.5)	(72)	(75.5)	(78)	(73.5)	(78)	, ,
<b>5</b> 5	6,190	6,210	5,210	5,820	4,650	3,600	4,710	3,740	
	(67)	(69)	(71.5)	(69.5)	(73.5)	(76)	(72)	(76)	
60	5,500	5,970	5,010	5,530	4,460	3,450	4,480	3,600	2,650
	(65)	(67)	(69)	(67.5)	(71.5)	(74)	(70)	(74.5)	(78)
65	4,850	5,280	4,820	5,220	4,300	3,320	4,270	3,410	2,540
	(62.5)	(64.5)	(67)	(65.5)	(69.5)	(72)	(68)	(72.5)	(76)
70	4,270	4,670	4,650	4,640	4,140	3,190	4,070	3,220	2,430
	(60)	(62)	(64.5)	(63.5)	(67.5)	(70)	(66.5)	(70.5)	(74)
75	3,740	4,110	4,420	4,110	3,940	3,070	3,890	3,050	2,340
	(57.5)	(59.5)	(62)	(61.5)	(65)	(67.5)	(64.5)	(68.5)	(72.5)
80	3,260	3,600	3,880	3,640	3,750	2,970	3,720	2,890	2,250
	(55)	(57)	(59.5)	(59)	(63)	(65.5)	(62.5)	(66.5)	(70)
85	2,810	3,120	3,380	3,200	3,570	2,870	3,530	2,750	2,170
	(52.5)	(54.5)	(57)	(57)	(61)	(63)	(60.5)	(64.5)	(68)
90	2,410	2,690	2,920	2,800	3,190	2,780	3,130	2,620	2,100
	(49.5)	(52)	(54)	(54.5)	(58.5)	(60.5)	(58.5)	(62.5)	(66)
95	2,030	2,290	2,490	2,430	2,790	2,700	2,760	<b>2,50</b> 0	2,030
	(47)	(49)	(51)	(52)	(56)	(58)	(56.5)	(60.5)	(64)
100	1,690	1,920	2,100	2,080	2,420	2,630	2,420	2,390	1,970
	(43.5)	(46)	(48)	(49.5)	(53.5)	(55.5)	(54.5)	(58.5)	(61.5)
105	1,370	1,580	1,730	1,770	2.070	2,320	2,110	2,290	1,910
	(40.5)	(42.5)	(45)	(47)	(51)	(52.5)	(52)	(56)	(59.5)
110	1,870	1,250	1,380	1,470	1,750	1,970	1,820	2,180	1,860
•	(37)	(39)	(41.5)	(44)	(48.5)	(50)	(49.5)	(54)	(57)
115				1,200	1,450	1,640	1,540	1,880	1,810
				(41)	(45.5)	(46.5)	(47.5)	(51.5)	(54)
120					<u> </u>		1,290	1,600	1,670
	and the second	1			;		(45)	(48.5)	(51.5)

NOTE: ( ) Boom angles are in degrees. 'This capacity is based upon maximum boom angle. A6-829-009539A

## 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 have been tested to and meet minimum requirements of SAE J1063 OCT80 Cantilevered Boom Crane Structures Method of Test, and do not exceed 85% of the tipping load on outriggers (75% on rubber) as determined by SAE J765 OCT80 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 and tipping should not be relied upon as a 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 fully extended with tires raised free of ground before raising the boom or lifting loads.
- 7. Tires shall be inflated to the recommended pressure before lifting on rubber.
- 8. Defined Arc  $\pm$  6° on either side of longitudinal centerline of machine.
- 9. With boom extension in working position and main boom length greater than 80 ft., boom angle must not be less than 35°, since loss of stability will occur causing a tipping condition.

Constant improvement and engineering progress makes 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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Sunderland SR4 6TT, England
Europe, Africa, Middle East, Near East

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# RATED LIFTING CAPACITIES (POUNDS) ON RUBBER (PICK & CARRY - BOOM CENTERED OVER REAR) 16.00R21 AND 17.5R25 TIRES

Radius in	Main Boom Length in Feet								
Feet	35	40	50	.90	70	80	90		
10	45,500	45,500			· .				
	(66)	(69.5)							
12	39,400	39,400	39,400						
	(62.5)	(66.5)	(71.5)						
15	32,450	32,450	32,450	•					
	(56.5)	(61.5)	(67.5)						
20	24,550	24,550	24,550	24,550					
1	(45)	(52.5)	(61)	(66.5)			:		
25	19,250	19,250	19,250	19,250	17,200	10,050	5,180		
	(29.5)	(42)	(54)	(61)	(65.5)	(69)	(71.5)		
30		14,900	14,900	14,900	14,900	10,050	5,180		
		(28)	(46.5)	(55)	(61)	(65)	(68)		
35			11,450	11,450	11,450	10,050	5,180		
:			(37)	(49)	(56)	(61)	(64.5)		
40			9,230	9,230	9,230	9,230	5,180		
			(24)	(41.5)	(50.5)	(57)	(61)		
45				7,630	7,630	7,630	5,180		
į				(33)	(45)	(52.5)	(57.5)		
50				5,960	ó, <b>44</b> 0	6,440	5,180		
:				(21.5)	(38.5)	(47.5)	(53.5)		
55					5,240	5,520	5,180		
!					(30.5)	(42.5)	(49)		
60					4,170	4,560	4,560		
					(20)	(36.5)	(44.5)		
65			<del></del>			3,580	3,580		
	$\mathcal{A}$				}	(29)	(39.5)		
70		<u> </u>				2,570	2,570		
$\mathcal{A}$						(19)	(34)		
75							1,530		
			1		<b>j</b>		(27.5)		

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#### ON RUBBER (STATIONARY - DEFINED ARC OVER REAR)

adius in	Main Boom Length in Feet							
Feet	35	40	50	.90	70	80	-90	
10	40,000	40,000						
	(66)	(69.5)						
12	32,150	32,150						
	(62.5)	(66.5)						
15	24,900	24,900	24,900					
	(56.5)	(61.5)	(67.5)					
20	18,200	18,200	18,200	18,200	11,700	8,310		
	(45)	(52.5)	(61)	(66.5)	(70)	(73)		
25	14,350	14,350	14,350	14,350	11,700	8,310		
	(29.5)	(42)	(54)	(61)	(65.5)	(69)		
30		11,600	11,600	11,600	11,600	8,310		
	$\wedge \wedge$	(28)	(46.5)	(55)	(61)	(65)		
35			9,220	9,220	9,220	8,310		
. 4		~	(37)	(49)	(56)	(61)		
40			7,400	7,400	7,400	7,400	5,180	
6			(24)	(41.5)	(50.5)	(57)	(61)	
45				5,970	5,970	5,970	5,180	
				(33)	(45)	(52.5)	(57.5	
50				4,810	4,810	4,810	4,810	
				(21.5)	(38.5)	(47.5)	(53.5	
55					3,650	3,650	3,650	
					(30.5)	(42.5)	(49)	
60			<u> </u>		2,630	2,630	2,630	
	·				(20)	(36.5)	(44.5	
65		<u> </u>				1,920	1,920	
						(29)	(39.5	
70						1,400	1,400	
				1		(19)	(34)	
75	- · <del>- · · ·</del>						1,000	
- <del>-</del>							(27.5	

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#### ON RUBBER (STATIONARY - 360°)

Radius in		Main Boom L	ength in Feet	
Feet	35	40	50	.60
10	31,650	31,650	·	
	(66)	(69.5)		
12	21,350	21,350		
	(62.5)	(66.5)		
15	14,300	14,300	14,300	
	(56.5)	(61.5)	(67.5)	·
20	9,220	9,220	9,220	9,220
	(45)	(52.5)	(61)	(66.5)
25	6,760	6,760	6,760	6,760
	(29.5)	(42)	(54)	(61)
30		4,260	4,260	4,260
		(28)	(46.5)	(55)
35			2,150	2,150
			(37)	(49)
40			1,060	1,060
			(24)	(41.5)

Note: ( ) Boom angles are in degrees.

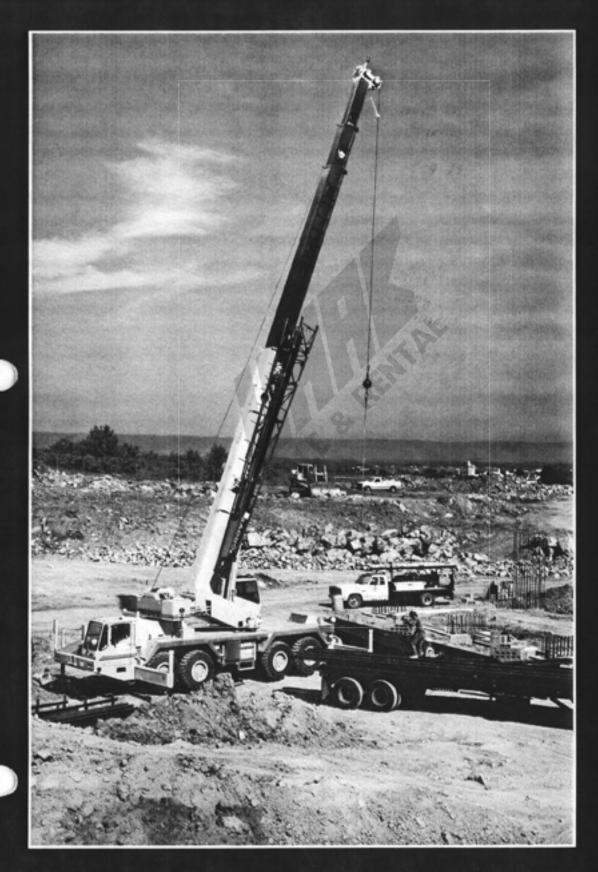
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# AI/OUB

All-Terrain Hydraulic Crane Specifications





### Superstructure specifications

Boom	35 ft. to 110 ft. (10.6m - 33.5m) four section trapezoidal full power boom. Telescoping is sequenced-synchronized with single lever control. Telescopic sections slide on replaceable Nylatron	HYDRAULIC SY Pumps	6 section driven	6 section, combined capacity 193 G.P.M. (730 lpm driven by carrier engine through P.T.O. Standard pump disconnect for travel.			
Telescopic Swingaway	wear pads. Maximum Tip Height: 118 ft. (35.9m).  32 ft. to 44 ft. or 56 ft. (9.8m to 13.4m or 17.1m) telescopic lattice swingaway extension with integral		trol val	on four way double actives, 3 individual valves control of multiple cr	banks permit simul-		
Extension	offset mechanism, offsettable at 0°, 15° or 30°. Stows alongside base boom section when not in use. Maximum Tip Height - 173 ft. (52.7m).	Filter	and ser	line type, full flow with rvice indicator. Replacea filtration rating of 5/1	able cartridge with		
Optional Fixed Swingaway Extension	32 ft. (9.8m) lattice swingaway boom extension with integral offset mechanism, offsettable at 0°, 15°, or 30°. Stows alongside base boom section when not in use. Maximum Tip Height -	Reservoir	externa	llon (825 L) with spin-out sight gauge, oil temperess, strap mounted to f	erature gauge, clean		
	149 ft. (45.4m).	Oil Cooler		e mounted with thermo motor driven fan.	statically controlled		
Boom Nose	Four sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards.  *Optional removable auxiliary boom nose with	Pressure Check Panel		pressure test panel wit	h quick release		
Boom Elevation	One double acting hydraulic cylinder with integral holding valve provides elevation from -3° to 78°.	HOIST SPECIF	Power tion wi	up and down equal spe th automatic spring app	olied multi-disc brake.		
Load Moment & Anti-Two Block System	Standard load moment and anti-two block system with audio-visual warning and control lever lockout to alert operator of impending two-block condition. Electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load and load indication is provided.	Make/Model Maximum	Bottom layer	nic hoist drum rotation  Main and *Auxili  Grove HO30  High Range  470 FPM	ary Hoist		
Cab	Full vision, all steel fabricated with accoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrest mounted hydraulic joystick controls. Dash panel incorporates gauges for all engine functions. Front steer indicator and rear	single line speed	Intermediate layer Top layer	(143m/min) 510 FPM (155m/min) 560 FPM (171m/min)	(72m/min) 255 FPM (78m/min) 280 FPM (85m/min)		
	steer lock indicator. Other standard features include: telescoping tilt steering wheel, sliding side and rear windows, electric windshield wash/wipe. circulating air fan, opening skylight with electric skylight wiper, fire extinguisher, seat belt, and ashtray and complete driving controls.	Maximum single line pull	Bottom layer Intermediate layer Top layer	7,818 lbs. (3546 kg) 6,832 lbs. (3099 kg) 5,986 lbs. (2715 kg)	15,636 lbs. (7092 kg) 13,664 lbs. (6198 kg) 11,972 lbs. (5430 kg)		
Swing	Ball bearing swing circle with 360° continuous rotation. Grove planetary glide-swing with foot applied multi-disc wet brake. Spring applied hydraulically released parking brake and plunger type, 2 position,	Maximum permissible s line pull w/5:1 Strengt		12,920 lbs. (5860 kg) 3/4 in. (19mm) 18:	v19 class		
	mechanical house lock operated from cab. Maximum	Maximum		508 ft. (155m)			
Counterweight	speed: 2.5 RPM.  Integral with superstructure.	rope stowage		3/4 in. (19mm) 52.4m) length of wire	rope supplied with		
			basic standard u	•			

### Carrier specifications

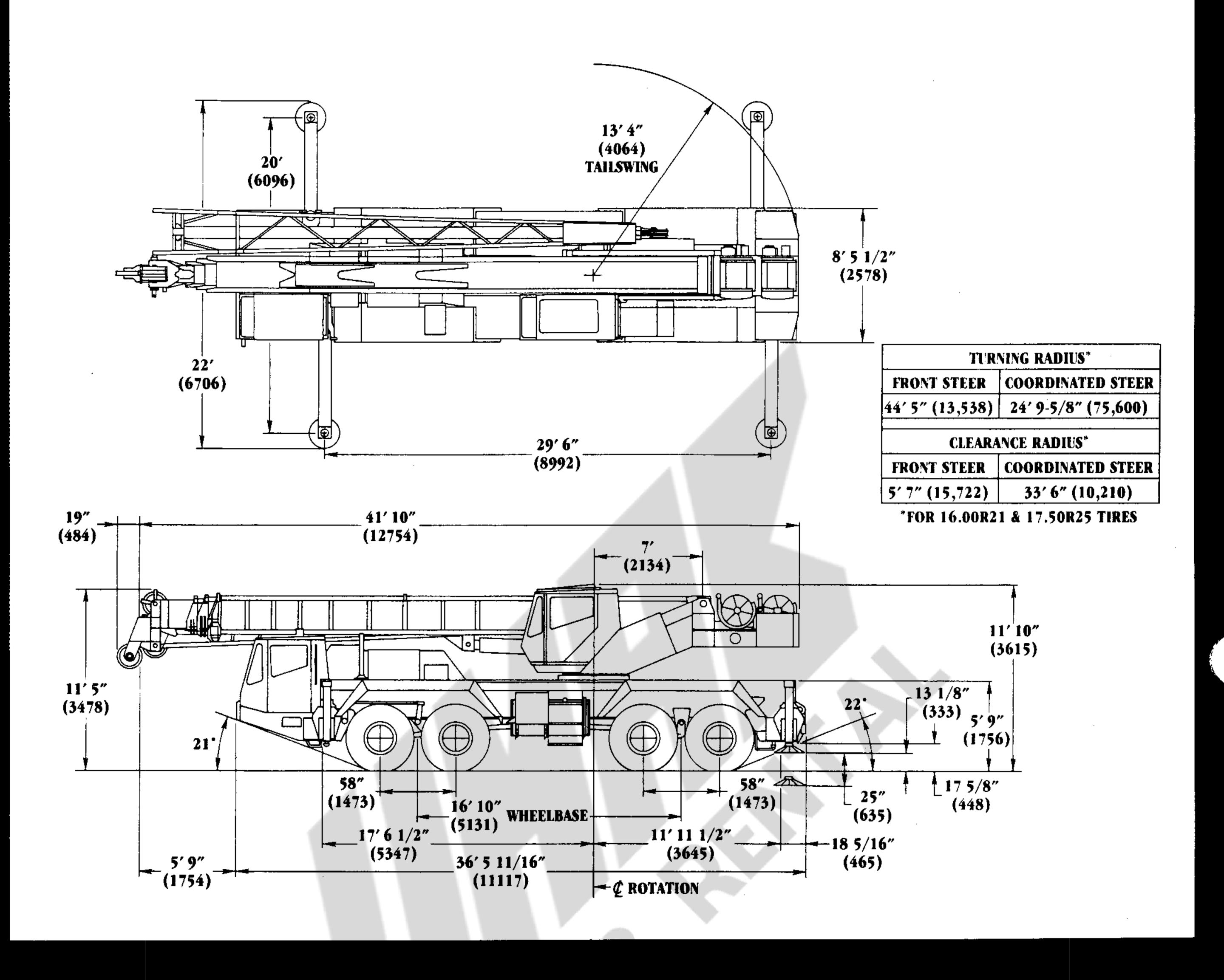
•				
Frame	High strength alloy steel all welded parallel box section design with integral outrigger housings and front/rear lifting, towing and tie down lugs.			
Outrigger System	Hydraulic single stage double box telescopic beam and 'inverted' jack outriggers with integral holding valves. Quick release type outrigger floats, 24" (610mm) diameter.			
Outrigger Controls	Located in the superstructure cab on front dash panel and both sides of carrier requires two hand operation. Crane level indicator (sight bubble) adjacent.			
Engine	Cummins LTA10-C325 six cylinder turbo charged and aftercooled diesel - 10 L (611 cu. in.), 325 bhp (242 kw) (Gross) @ 2,100 RPM. Maximum torque 975 ft. lbs. (1450.8 kg/m) @ 1,300 RPM.			
Fuel Tank Capacity	(1) 100 gallons (379 L)			
Electrical System	Two 12 volt - maintenance free batteries, 1050 CCA each. 12 volt lighting/24 volt starting.			
Drive	8 x 8			
Steering	Fully independent power steering:  Front: Mechanical with hydraulic power assist controlled by steering wheel, (dual circuit).  Rear: Full hydraulic hand lever controlled provides infinite variations of 4 main steering modes - front only, rear only, crab and coordinated. Mechanically locked for highway travel.			
Transmission	Powershift with 12 forward and 6 reverse speeds.  Engine mounted torque converter with lockup for highway travel. Front axle disconnect for 8x4 travel.			
Axles	Front: (2) Drive-steer with differential and planetary reduction hubs and differential locks.  Rear: (2) Drive-steer with differential and planetary reduction hubs and differential locks.			
Brakes	Dual line air system operating on all wheels. Spring- applied, air released. Parking brake acting on rear axles. Air dryer, Jacobs engine brake.			
Tires	16.00R21-22PR on/off highway radials front and rear.			

Optional Tires	17.5x25 radials.
Suspension	Hydrogas front and rear, hydraulic lockout and automatic leveling system operated from cab.
Lights	Full lighting package including turn indicators, head, tail, brake and hazard warning lights.
Cab	One man design, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe fabric covered fully adjustable seat. Complete driving controls and engine instrumentation including tilt telescope steering wheel, tachometer, speedometer, voltmeter, water temp. oil pressure, transmission temp., fuel level, dual air pressure gauges with A/V warning, engine high temp./low oil pressure A/V warning, suspension controls, and rear steering control. Other standard items include hot water heater/defroster, electric windshield wash/wipe, fire extinguisher, seat belt and door and window locks.
Maximum Speed	55 MPH (90 kph)
Maximum Gradeability	50% (Theoretical based on 80,000 lb. (36,000 kg) GVW).
Gross Vehicle Weight	Basic Standard Machine: G.V.W. 81,000 lbs. (36,740 kgs).
Miscellaneous Standard Equipment	Full width steel fenders, dual rear view mirrors, electronic back-up alarm, light package, sling/tool box, pump disconnect, engine distress A/V warning, tire inflation kit, worklights, air cleaner restriction indicator.
Optional Equipment	* Auxiliary hoist  * 360° rotating beacon  * Cab spotlight  * Engine block heater  * Hookblocks  * Spare wheel assembly and stowage rack  * Tool kit  * Pintle hook rear

\*Denotes optional equipment.

#### Dimensions

#### AT700B Series





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