AMERICAN CRANE CORPORATION 202 Raleigh Street · Wilmington · NC, 28412 USA

MODEL: 7460

RATING CHART COVER SHEET

For all adjustments, maintenance and other services, please refer to your Operator's Manual for complete instructions.

IMPORTANT LOAD LIFTING RESTRICTIONS AND REGULATIONS

Crawlers and Truck Cranes



Study the following carefully.

Failure to observe any of the following limitations may result in serious structural or mechanical failure or accidents.

Ratings have been established by American Crane on the basis of sound engineering methods and testing procedures. The machine complies with applicable U. S. Industry standards for stability and material strength factors. These standards require operation within rated capacities and in accordance with good operating practice, including the limitations shown on these pages and Page 100.

DO NOT EXCEED THE RATING OF THE MACHINE. Lifting loads greater than those shown on the rating chart or operation at positions not shown CAN CAUSE STRUCTURAL FAILURE, TIPPING OR COLLAPSE OF THE BOOM OR CRANE.

- 1. All ratings apply only to machines as originally manufactured and equipped but include machines on which repairs or replacements have been made in accordance with original specifications. American Crane shall have no responsibility for machines or components on which replacements have been made with parts or spares not manufactured by American Crane, or on which any unauthorized changes have been made, or which are operated after damage which has not been repaired. The safe handling of loads with a crane depends on ground conditions, boom length and radius. These factors as well as many others must be taken into consideration by the operator.
- 2. Ratings are based on the machine standing level on a firm, uniformly supporting surface. Level should be within 1/2% of true level and the supporting surface must be sufficiently firm to maintain this level under load. If the operating surface is not level, the crane should be

removed and the foundation leveled before making a lift. If the operating surface is not sufficiently firm and stable, crane mats should be used to reduce soil loadings. If operation is necessary under adverse conditions, contact American Crane for further information before attempting operation.

- 3. For operation of land-based cranes (truck, crawler or wagon mounted) from a barge or other floating platform the above listed level requirements must be maintained throughout the lift cycle. In addition, other factors such as securing the crane to the platform must be considered by the user. Contact American Crane for further information.
- 4. Under certain conditions cranes can be overturned without a load. This can be prevented by observing the rating chart and avoiding boom positions which show no load ratings.
- 5. The rating charts apply up to maximum wind speeds as indicated in the table below. This table lists the maximum wind velocity for which ratings apply. These wind speeds refer to steady winds or gusts where the maximum wind speeds reached are the magnitudes stated. Velocities must be measured at a point equivalent to the highest boom or jib elevation and should be taken at some location in close proximity to the crane. No account is taken of the wind force on the load. This effect, which is substantial for loads with large surface areas, must be considered by the user and ratings reduced accordingly. For more information contact American Crane.

WIND SPEED LIMITATIONS

Boom Size	Boom or Boom Plus Jib	Operation	No operation. Lower boom to 50-60 degrees. Position rear of crane into wind.	Lower or secure boom
37"	0-140'	0-30 mph	30-50 mph	Over 50 mph
	(0-42.3m)	(0-13.4 mps)	(13.4-22 mps)	(22.4 mps)
37"	Over 140'	0-20 mph	20-30 mph	Over 30 mph
	(0-42.3m)	(0-8.9 mps)	(8.9-13.4 mps)	(13.4 mps)
46"-47"	0-170'	0-30 mph	30-50 mph	Over 50 mph
	(0-51.8m)	(0-13.4 mps)	(13.4-22 mps)	(22.4 mps)
46"-47"	Over 170'	0-20 mph	20-30 mph	Over 30 mph
	(51.8m)	(0-8.9 mps)	(8.9-13.4 mps)	(13.4 mps)
58"-59"	0-220'	0-30 mph	30-50 mph	Over 50 mph
	(0-67.1m)	(0-13.4 mps)	(13.4-22 mps)	(22.4 mps)
58"-59"	Over 220'	0-30 mph	30-50 mph	Over 50 mph
	(67.1m)	(0-13.4 mps)	(13.4-22 mps)	(22.4 mps)
77"	0-290'	0-30 mph	30-50 mph	Over 50 mph
	(0-88.4m)	(0-13.4 mps)	(13.4-22 mps)	(22.4 mps)
77"	Over 290'	0-20 mph	20-30 mph	Over 30 mph
	(88.4m)	(0-8.9 mps)	(8.9-13.4 mps)	(13.4 mps)
92"-94"-118"	0-360'	0-30 mph	30-50 mph	Over 50 mph
	(0-109.8m)	(0-13.4 mps)	(13.4-22 mps)	(22.4 mps)
92"-94"-118"	Over 360'	0-20 mph	20-30 mph	Over 30 mph
	(109.8m)	(0-8.9 mps)	(8.9-13.4 mps)	(13.4 mps)
130"	0-400'	0-30 mph	30-50 mph	Over 50 mph
	(0-122m)	(0-13.4 mps)	(13.4-22 mps)	(22.4 mps)
130'	Over 400'	0-20 mph	20-30 mph	Over 30 mph
	(122m)	(0-8.9 mps)	(8.9-13.4 mps)	(13.4 mps)

- 6. Crawler sideframes and truck or wagon crane outriggers must be fully extended and set to maximum width to obtain ratings listed for such on the chart. When operating in the "FREE" condition without outriggers on a truck or wagon crane, the boom must never be operated at radii for which no ratings are shown in the "Outriggers Free-Over The Side" area of the chart. Tires must be in good condition and properly inflated for operation. For truck cranes equipped with a front outrigger jack, the ratings designated "Outriggers Set-Over Side" can be used for 360 degree rotation.
- 7. Do not lift over the front of a truck crane either with or without outriggers. See diagrams on next page for definition of working areas with various types of cranes. If such a lift is unavoidable, consult American Crane for special instructions and suitably reduced ratings.
- 8. NEVER SIDELOAD THE BOOM. Such sideloading can cause structural failure or collapse. Always keep the boom point directly over the load to avoid sideloading. Operating the crane while out of level or in high winds as well as dragging a load sideways by swinging or pulling on a load while it is partially or fully attached to a structure are all causes of sideloading ε must be avoided.

- 9. The A-Frame must be in the fully raised position for lifting all rated loads. (Sky Horse operation is an exception). Do not operate with the A-Frame in any intermediate (partially raised) position.
- 10. Check brakes, clutches, and rigging daily and before any heavy lifts. Brakes and clutches must be dry, well adjusted and free from oil. Do not lift load or bucket after the machine has been standing during damp weather without first riding the brakes to evaporate moisture. All wire rope should be checked for wear and stranding and should be replaced if it is defective.
- 11. Disengage the master clutch before leaving the machine.
- 12. Never lift or release a load when the boom is solid against the boom stops.
- 13. Do not leave the operator's seat with the bucket or load suspended. Cooling of the brakes and brake drum may release the brake bands allowing the load to fall. Avoid traveling with a suspended load. When such travel is necessary, keep the load from swinging. Keep feet on the brake pedals while propelling the machine. Jarring of the load may cause the brakes to slip. When the machine is equipped with spring-set, air-released auxiliary brake chambers, the control valve should be placed in the "Brake Set" position so the brakes are engaged by the springs when holding the load or traveling. Reduced ratings must be used when traveling on grades to compensate for changes in stability, load radius, and sideloading of the boom. When traveling uphill, lower the boom to prevent it from falling backward.
- 14. Lowering against the torque converter (whereby the load runs the machinery backwards) should only be used for inching down loads. Place the sprag clutch flipper valve in the "Sprag Out, Dog In" position and disconnect the tailshaft governor cable at the torque converter on machines so equipped. Excessive lowering speed must be controlled by increasing engine RPM. In extreme cases, it is possible to stall the engine and cause the load to free fall. Keep a foot on the hoist brake pedal and be prepared to apply the brake quickly and smoothly. Be sure to reconnect tailshaft governor cable for duty cycle operation.
- 15. Detailed instructions for operating and maintenance are given elsewhere in this manual. Read and study the operating instructions carefully.
- 16. Cranes can self-erect all boom or boom-jib combinations shown on the rating chart unless specifically stated otherwise. During erection the A-Frame must be fully raised and all load-carrying devices must be on the ground. On truck cranes the outriggers must be fully extended and set and the boom erected over the rear of the carrier to achieve maximum capability. On a crawler crane the boom must be erected directly over the idler end of the crawler sideframes with the idler tumblers securely blocked to achieve maximum

capability. When erecting over the side of a crawler the sideframes must be fully extended.

- 17. When two cranes are making a lift together, both cranes must be level. The rigging must be designed so that each crane is lifting a share of the load which is well within its rating. The swing brakes of both machines must be released so that the boom points are free to remain directly over their load attachment points at all times. This can be a dangerous procedure and should be attempted only after substantial planning.
 - 18. PERSONNEL LIFTING



THIS MACHINE IS NOT INTENDED TO BE USED AS A PERSONNEL HOIST! IF SUCH USE IS ALLOWED BY LOCAL, STATE OR FEDERAL REGULATIONS, THE OWNER OR USER IS RESPONSIBLE FOR COMPLYING WITH SUCH REGULATIONS AND ANY OTHER APPLICABLE REQUIREMENTS.

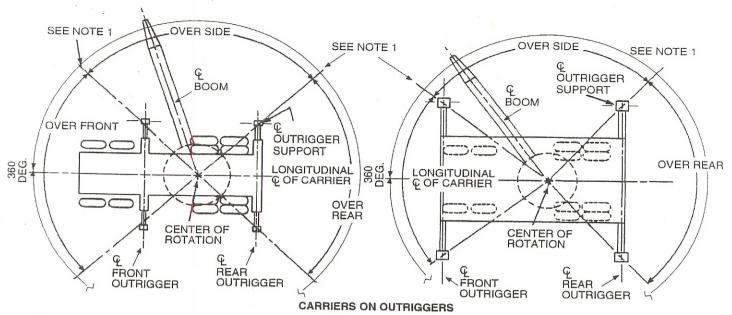
TO THE BEST OF OUR KNOWLEDGE, THIS WOULD REQUIRE THE CRANE TO BE EQUIPPED AS FOLLOWS TO MEET THE CURRENT ANSI/ASME B30.5-1982 OR LATEST REVISION.

- 1. OVERHOISTING DEVICE TO PREVENT THE LOAD BLOCK/OVERHAUL BALL FROM HITTING THE BOOM POINT.
- 2. SINGLE LEVER CONTROL TO PREVENT ANY POSSIBILITY OF FREEFALL
- 3. CONTROLLED LOAD LOWERING ON THE HOIST BEING UTILIZED TO LOWER THE MAN BASKET.
- 4. PERSONNEL SHALL NOT BE PERMITTED TO RIDE THE BARE HOOK OR LOAD SUSPENDED FROM THE HOOK.

IMPORTANT: THE TOTAL WEIGHT OF THE LIFTED LOAD (INCLUDING PERSONNEL) SHALL NOT EXCEED 50% OF THE CRANE RATING WITH MACHINE EQUIPPED AS ABOVE; IT IS THE RESPONSIBILITY OF USER OF THIS CRANE TO ASSURE THAT THE FOOTING UNDER ALL THE OUTRIGGERS/CRAWLERS IS ADEQUATE TO SUPPORT THE CRANE AS ANY POSSIBILITY OF FREEFALLING THE LOAD HAS BEEN ELIMINATED.

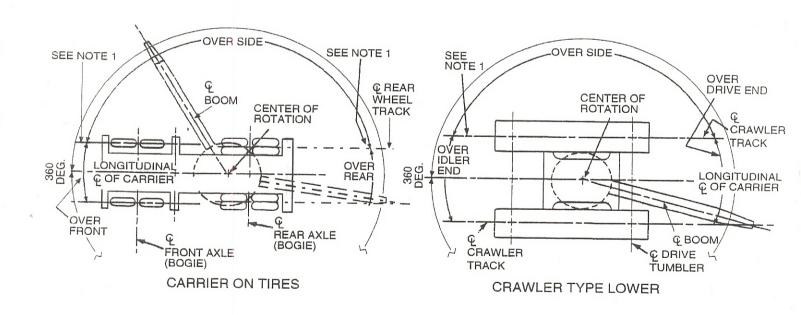
19. BE SAFE. For any clarification or answers to additional questions contact American Crane before attempting operation.

ALL SERIES IMPORTANT LOAD LIFTING RESTRICTIONS & REGULATIONS



FRONT OUTRIGGER BEHIND FRONT WHEELS

FRONT OUTRIGGER AHEAD OF FRONT WHEELS



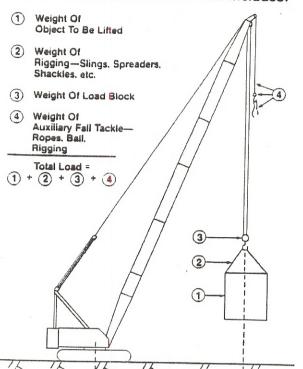
WORKING AREA DEFINITIONS

NOTE 1

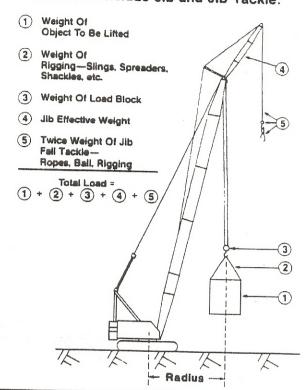
These lines determine the limiting position of any load for operation within working areas indicated.

CALCULATING TOTAL LOAD WEIGHT

Crane's Lifted Load on Main Fall Includes:

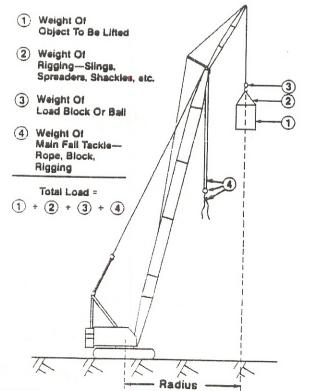


Crane's Lifted Load on Main Fall Must Also Include Jib and Jib Tackle:



Crane's Lifted Load on Jib Fall Includes:

Radius



NOTE: The weight of the minimum parts of line required to lift the rated load has already been considered in this chart. It need not be added to the load. This applies only to the load fall being used. If additional parts of line are reeved beyond the minimum required to handle a rated load, or if a second fall is in place but not used, the weight of these ropes should be added to the weight lifted. Refer to the Crane Rating Chart and the Rope Weight Table on the back of this page for rope weight reference data.

Printed in U.S.A. 3/85 (R1-12/85)

ROPE WEIGHT PER GIVEN LENGTH

Use the data in the table below when the total weight of the load being lifted is calculated according to one of the Total Load Formulas in Appendix "A", on the front side of this page.

For IPS, EIPS, or EEIPS Wire Ropes. For other ropes, consult specific chart or the rope manufacturer's own reference data or user's manual.

	DIAMETER	WEIGHT O	F ONE FOOT TER) OF ROPE
IN MILLIMETERS	IN INCHES	LBS./FT.	Kg/M
12.7	1/2	.46	.68
15.9	5/8	.72	1.07
19.1	3/4	1.04	1.55
22.2	7/8	1.42	2.11
25.4	1	1.85	2.75
28.6	1-1/8	2.34	3.48
31.8	1-1/4	2.89	4.30
34.9	1-3/8	3.50	5.21
38.1	1-1/2	4.16	6.19
41.3	1-5/8	4.88	7.26
44.5	1-3/4	5.67	8.44
47.6	1-7/8	6.50	9.67
50.8	2	7.39	11.00
54.0	2-1/8	8.35	12.42
57.2	2-1/4	9.36	13.93
63.5	2-1/2	11.60	17.26
69.9	2-3/4	14.00	20.83

MATERIAL	KG/CU. METER	KG/CU. FOOT	1 CU. YARD
Ashes - Piled Dry	560.70		T CO. YARD
Brick Bats	881.10	35	945
Cement - Portland	1505.88	55 94	1485
Charcoal	400.50		2538
Cinders	881.10	25	695
Clinker - Portland Cement	1361.70	55	1485
Clay - Dry, in Lumps	1009.26	85	2295
Clay - Compact, Natural Bed	1746.18	63	1701
Coal - Anthracite	897.12	109	2943
Coal - Bituminous R of M Piled	881.10	56	1512
Coal - Bituminous Slack, Piled	801.00	55	1485
Coke - Blast Furnace Size	432.54	50	1350
Coke - Foundry Size		27	729
Concrete - Ready to Pour	448.56 2370.96	28	756
Dolomite - Crushed Fine	1521.90	148	3996
Dolomite - Broken Lump		95	2565
Earth - Loamy, Dry Loose	1521.90	95	2565
Earth - Dry, Packed	1201.50 1521.90	75	2025
Earth - Wet (Mud)		95	2565
Flue Dust - Blast Furnace	1762.20	110	2970
Flue Dust - Blast Furnace, Wet	1842.30	115	3105
Gypsum - Crushed to 3"	2403.00	150	4050
Gypsum - Calcined	1521.90	95	2565
Gravel - Dry, Loose	961.20	60	1620
Gravel - Dry, Packed	1762.20	110	2970
Gravel - Wet, Packed	1810.26	113	3051
Iron Ore - 60% Iron	1922.40	120	3240
Iron Ore - 50% Iron	4806.00	300	8100
Iron Ore - 40 % Iron	4005.00	250	6750
Iron Punchings - Scrap	3204.00	200	5400
Iron Turnings - Scrap	4325.40	270	7290
Limestone - Run of Crushed	2803.50	175	4725
Limestone - Fines Out	1521.90	95	2565
Limestone - 1 1/2 or 2 Graded	1602.00	100	2700
Limestone - Above 2 Graded	1361.70	85	2295
Phosphate, Acid (Fertilizer)	1281.60	80	2160
Phosphate, Rock	1361.70	85	2295
Pyrites	1281.60	80	2160
Salt	2167.70	135	3645
Sand - Dry, Loose	929.16	58	1566
Sand - Wet, Packed	1521.90	95	2565
Scale - Rolling Mill, Wet	1922.40	120	3240
Shale - Broken	2114.64	132	3564
Slag - Blast Furnace, Broken	1361.70	85	2295
Slag - Open Hearth, Crushed	2210.76	138	3726
Slag - Granulated, Dry	1682.10	105	2835
Slag - Granulated, Dry	606.76	38	1026
Snow	929.16	58	1566
Sulphur - Broken	528.66	33	891
Guphur - Broken Timber - Green Cedar	528.66	60	1620
Douglas Fir	592.74	37	999
	606.76	38	1026
Hemlock	656.82	41	
Southern Pine	881.10	55	1107
pruce	576.72	36	1485
Redwood	801.00		972
linc Ore - Broken	2403.00	50 150	1350
	£700.00	150	4050

ALL SERIES FRACTION/DECIMAL CONVERSION

-			,		FF	RACTIO	WDECII	WAL (CONV	ERSIC	N				
4THS	8THS	16THS	32NDS	64THS	TO 4 PLACES	TO 3 PLACES	TO 2 PLACES	4THS	8THS	16THS	32NDS	64THS	TO 4 PLACES	TO 3 PLACES	TO 2 PLACE
				1/64	0.0156	0.016	0.02					33/64	0.5156	0.516	0.52
			1/32	1	0.0312	0.031	0.03				17/32	1	0.5312	0.531	0.53
				3/64	0.0469	0.047	0.05					35/64	0.5469	0.547	0.55
		1/16			0.0625	0.063	0.06			9/16			0.5625	0.563	0.56
				5/64	0.0781	0.078	0.08					37/64	0.5781	0.578	0.58
			3/32		0.0938	0.094	0.09				19/32		0.5938	0.594	0.59
				7/64	0.1094	0.109	0.11					39/64	0.6094	0.609	0.61
	1/8		-		0.1250	0.125	0.13		5/8				0.6250	0.625	0.63
				9/64	0.1406	0.141	0.14					41/64	0.6406	0.641	0.64
			5/32		0.1562	0.156	0.16				21/32		0.6562	0.656	0.66
				11/64	0.1719	0.172	0.17					43/64	0.6719	0.672	0.67
		3/16			0.1875	0.188	0.19			11/16			0.6875	0.688	0.69
				13/64	0.2031	0.203	0.20					45/64	0.7031	0.703	0.70
			7/32		0.2188	0.219	0.22				23/32		0.7188	0.719	0.72
				15/64	0.2344	0.234	0.23					47/64	0.7344	0.734	0.73
1/4					0.2500	0.250	0.25	3/4					0.7500	0.750	0.75
		-		17/64	0.2656	0.266	0.27					49/64	0.7656	0.766	0.77
			9/32		0.2812	0.281	0.28				25/32		0.7812	0.781	0.78
	.			19/64	0.2969	0.297	0.30					51/64	0.7969	0.797	0.80
		5/16			0.3125	0.313	0.31			13/16			0.8125	0.813	0.81
		-		21/64	0.3281	0.328	0.33					53/64	0.8281	0.828	0.83
			11/32		0.3438	0.344	0.34				27/32		0.8438	0.844	0.84
-				23/64	0.3594	0.359	0.36					55/64	0.8594	0.859	0.86
-	3/8				0.3750	0.375	0.38		7/8				0.8750	0.875	0.88
		-		25/64	0.3906	0.391	0.39					57/64	0.8906	0.891	0.89
			13/32		0.4062	0.406	0.41			2	29/32		0.9062	0.906	0.91
	_		1	27/64	0.4219	0.422	0.42				1	59/64	0.9219	0.922	0.92
		7/16	1		0.4375	0.438	0.44		1	5/16			0.9375	0.938	0.94
			. 2	29/64	0.4531	0.453	0.45				(61/64	0.9531	0.953	0.95
		1	5/32		0.4688	0.469	0.47			3	31/32		0.9688	0.969	0.97
			3	31/64	0.4844	0.484	0.48				(63/64	0.9844	0.984	0.98
/2					0.5000	0.500	0.50	1					1.0000		1.00

BOOM LENGT	1	US	BOOM ANGI				ON RES		OUT	RIG SET	GERS		FRO	
	 FEET) 		(DEG.		OVER SIDE (POUND	3	OVER REAR (POUND)		OVER SIDE (POUNDS)		OVER REAR (POUNDS)	POI TO GROU (FEE	INT O IND
40' (12.2M BOOM	11 12 15 20 25 30 35 40		82.8 81.3 77.0 69.6 61.7 53.1 43.3 30.9		28,100 23,930 20,720)*	102,480 98,490 87,990 59,690 44,740 35,510 29,200 24,660)*)*)*)*)*)*	180,000 180,000 163,530 126,060 96,660 71,590 56,510 46,470	*	180,000 180,000 174,470 134,640 99,560 74,550 59,260 48,980	0* 0* 0* 0* 0* 0*	4 4 4 4 3 3 3 3	7 7 6 5 9
50' (15.2M BOOM	13 15 20 25 30 35 40 50		81.9 79.6 73.8 67.7 61.3 54.5 47.0 27.4		27,870 23,710 20,550 15,720	*	94,240 87,690 59,600 44,650 35,430 29,110 24,600 18,390	* * * *	180,000* 163,390* 125,750* 96,770 71,660 56,530 46,510 33,870	-	180,000 174,330 134,270 99,650 74,610 59,270 49,010 35,950	*	57 56 55 54 51 48 44 30	
60' (18.3M) BOOM	14 15 20 25 30 35 40 50 60	8 7 7 6 6 5 4	32.3 31.3 76.5 71.6 66.4 11.1 5.5 2.6 4.8	2	27,660* 23,520* 20,390* 15,660	-	90,460* 87,260* 59,490* 44,540* 35,330* 29,010 24,520 18,330 14,320		172,810* 163,260* 125,830* 96,820 71,680 56,530 46,510 33,860 26,250	1 1	.80,000* .74,200* .33,800* .99,680 .74,600 .59,260 .48,990 .35,930 .28,010		67 67 66 64 62 60 57 48 32	
70' 21.3M) BOOM	15 20 25 30 35 40 50 60 70	78 74 70 65 61 51	2.6 8.4 4.3 0.0 5.6 1.0 0.3	2 2 2 1 1	2,770* 7,340* 3,200* 0,100* 5,440* 1,930 9,510		86,690* 59,290* 44,350* 35,150* 28,820 24,350 18,140 14,150 11,410		162,470* 125,370* 96,800 71,620 56,440 46,420 33,740 26,130 21,110	13 13 5 7 5 4 3	73,370* 33,280* 99,630 7,50 8,900 5,800 7,880 2,620		77 76 75 73 71 68 62 51 34	
80' 24.4M) BOOM	16 20 25 30 35 40	82 79 76 72 68 64	.9 .3 .6 .8	27 22	2,480* 7,080* 7,950* 7,880*		79,950* 59,110* 44,180* 35,000 28,660 24,200		149,990* 124,860* 96,750 -71,550 56,340 46,330	14 13 9 74 59	9,990* 3,210* 9,560 4,450 9,050 3,800		87 86 85 84 82 80	

	BOOM LENGTH	RADIU	JS BOOM ANGLE	T	ON IRES	TUO	RIGGERS SET	FROM BOOM	
		EET)	- (DEG.)	OVER SIDE (POUNDS)	OVER REAR (POUNDS)	OVER SIDE (POUNDS)	OVER REAR (POUNDS)	POINT TO GROUND (FEET)	
	80' (24.4M BOOM	50 60 70 80	56.6 47.5 36.6 21.3	15,230* 11,800 9,400 7,570	18,000 14,010 11,300 9,220	33,640 26,030 21,030 17,380	35,700 27,770 22,540 18,700	74 66 55 36	-
	90' (27.4M BOOM	17 20 25 30 35 40 50 60 70 80 90	82.9 81.0 77.8 74.5 71.2 67.8 60.8 53.1 44.6 34.4 20.0	32,080* 26,710* 22,590* 19,550* 14,910* 11,580 9,210 7,390 5,960	73,280* 58,880* 43,940* 34,770 28,430 23,990 17,780 13,790 11,110 9,040 7,430	131,560° 124,360° 96,670 71,440 56,210 46,190 33,480 25,850 20,870 17,230 14,470		97 96 95 94 92 91 86 79 70 58 38	
	100' (30.5M) BOOM	19 20 25 30 35 40 50 60 70 80 90 100	82.5 81.9 79.0 76.1 73.2 70.1 63.9 57.3 50.2 42.2 32.5 18.9	41,340* 39,370* 31,760* 26,410* 22,290* 19,270* 14,640* 11,380 9,050 7,220 5,800 4,680	62,880* 58,670* 43,730* 34,570 28,220 23,800 17,590 13,590 10,940 8,870 7,270 6,000	114,580* 114,430* 96,580 71,320 56,060 46,060 33,320 25,680 20,730 17,080 14,330 12,190	114,580* 114,430* 99,360 74,200 58,750 48,510 35,370 27,420 22,230 18,400 15,510 13,260	106 106 105 104 103 101 97 91 84 74 61 39	
(110' 33.5M) BOOM	20 25 30 35 40 50 60 70 80 90 100	82.7 80.0 77.4 74.7 72.0 66.4 60.6 54.4 47.7 40.1 31.0 18.0	38,140* 31,340* 26,020* 21,910* 18,920* 14,300* 11,120* 8,830 7,000 5,590 4,480 3,570	58,620* 43,480 34,320 27,970 23,570 17,350 13,350 10,710 8,650 7,060 5,800 4,770	99,420* 96,480 71,190 55,900 45,900 33,140 25,490 20,540 16,890 14,150 12,010 10,300	99,420* 99,240 74,050 58,580 48,340 35,180 27,220 22,040 18,210 15,320 13,070 11,260 *	116 115 113 112 108 103 97 88 78 64 41	

BOOM LENGTI	RADIU	S BOOM ANGLE		N RES 		IGGERS ET	FROM BOOM
	 'EET)	- (DEG.)	OVER SIDE (POUNDS)	OVER REAR (POUNDS)	OVER SIDE (POUNDS)	OVER REAR (POUNDS)	POINT TO GROUND (FEET)
120' (36.6M BOOM	1) 21 30 35 40 50 60 70 80 90 100 110 120	82.8 80.9 78.5 76.0 73.6 68.5 63.3 57.8 51.9 45.5 38.3 29.6 17.2	37,000* 31,020* 25,720* 21,610* 18,640* 14,020* 10,850* 8,640 6,820 5,400 4,290 3,390 2,650	54,680* 43,270 34,120 27,760 23,370 17,150 13,140 10,530 8,470 6,870 5,600 4,580 3,740	85,110* 85,110* 71,070 55,740 45,740 32,970 25,310 20,380 16,730 13,970 11,830 10,130 8,730	85,110* 85,110* 73,920 58,410 48,180 35,010 27,040 21,880 18,040 15,150 12,890 11,090 9,620	126 126 125 124 122 119 114 109 102 93 81 66 42
130' (39.6M) BOOM	22 25 30 35 40 50 60 70 80 90 100 110 120 130	82.9 81.6 79.3 77.1 74.8 70.2 65.5 60.5 55.3 49.7 43.6 36.7 28.4 16.5			72,780* 72,780* 70,930 55,580 45,570 32,780 25,310 20,190 16,520 13,770 11,630 9,920 8,520 7,350	72,780* 72,780* 72,780* 58,240 48,010 34,810 27,040 21,680 17,830 14,950 12,680 10,880 9,410 8,170	136 136 135 134 133 130 126 120 114 106 97 85 69 44
140' (42.7M) BOOM	24 25 30 35 40 50 60 70 80 90 100	82.6 82.2 80.1 78.0 75.9 71.7 67.3 62.8 58.1 53.1 47.8			63,690* 63,690* 55,410 45,410 32,590 25,140 20,000 16,330 13,580 11,440	63,690* 63,690* 63,690* 58,060 47,830 34,620 26,860 21,490 17,640 14,750 12,490	146 146 145 144 143 140 136 132 126 119

	BOOM LENGTH	RADIU;	S BOOM ANGLE	OI			 IGGERS ET	FROM BOOM
•	(F)		(DEG.)	OVER SIDE (POUNDS)	OVER REAR (POUNDS)	OVER SIDE (POUNDS)	OVER REAR (POUNDS)	POINT TO GROUND (FEET)
	140' (42.7M) BOOM	110 120 130 140	41.9 35.3 27.3 15.9			9,730 8,320 7,150 6,180	10,690 9,200 7,970 6,930	101 88 71 45
	150' (45.7M) BOOM	25 30 35 40 50 60 70 80 90 100 110 120 130 140 150	82.7 80.8 78.8 76.9 72.9 68.9 64.8 60.5 55.9 51.2 46.1 40.4 34.1 26.3 15.3			55,610* 55,610* 55,240 45,230 32,390 24,940 19,800 16,130 13,370 11,220 9,510 8,100 6,940 5,950 5,110	55,610* 55,610* 55,610* 47,650 34,410 26,660 21,290 17,430 14,530 12,270 10,460 8,980 7,750 6,710 5,820	156 155 154 153 151 147 143 138 131 124 115 104 91 73 46
	160' (48.8M) BOOM	26 30 35 40 50 60 70 80 90 100 110 120 130 140 150 160	82.8 81.4 79.6 77.7 74.0 70.3 66.4 62.5 58.3 54.0 49.4 44.5 39.1 32.9 25.5 14.8			47,820* 47,820* 47,820* 45,070 32,210 24,760 19,610 15,930 13,170 11,020 9,310 7,900 6,730 5,740 4,900 4,180	47,820* 47,820* 47,820* 47,480 34,220 26,470 21,100 17,240 14,340 12,070 10,270 8,780 7,540 6,500 5,600 4,840	166 165 164 161 158 154 149 143 137 129 119 108 94 76 48
(170' 51.8M) BOOM	27 30 35 40 50 60	82.9 81.9 80.2 78.5 75.0 71.5			42,390* 42,390* 42,390* 42,240* 32,010 24,570	42,390* 42,390* 42,390* 42,390* 42,240* 34,020 26,270	176 176 175 174 172 168

BOOM LENGTH	RADIUS	BOOM ANGLE	OI TII	N RES		RIGGERS SET	FROM BOOM	- 1
	 	(DEG.)	OVER SIDE (POUNDS)	OVER REAR (POUNDS)	OVER SIDE (POUNDS)	OVER REAR (POUNDS)	POINT TO GROUNI (FEET)	
170' (51.8M) BOOM	90 100 110 120 130 140 150 160 170	67.9 64.2 60.4 56.4 52.3 47.8 43.1 37.9 31.9 24.7 14.3			19,410 15,720 12,960 10,810 9,080 7,680 6,510 5,520 4,660 3,940 3,310	20,890 17,030 14,120 11,850 10,040 8,560 7,320 6,270 5,370 4,600 3,930	165 160 155 149 142 133 123 111 97 78 49	
180' (54.9M) BOOM	28 30 35 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180	83.0 82.3 80.7 79.1 75.8 72.6 69.2 65.7 62.2 58.5 54.7 50.7 46.4 41.8 36.7 31.0 24.0 13.9			37,610* 37,610* 37,610* 37,370* 31,810 24,370 19,210 15,520 12,750 10,600 8,870 7,460 6,290 5,300 4,450 3,720 3,090 2,530	37,610* 37,610* 37,610* 37,370* 33,810 26,080 20,690 16,820 13,910 11,640 9,830 8,330 7,100 6,050 5,150 4,380 3,710 3,120	186 186 185 184 182 179 176 171 166 161 154 146 138 127 115 100 80 50	

American Crane Corporation Wilmington, North Carolina 28412

Model 7460 Truck Crane - Ratings In Pounds 59S Tubular Boom with Hammerhead Tip 25,000 Pounds Counterweight - American Carrier

WARNING

This rating chart is invalid if the crane has been modified or altered by use of other than GENUINE AMERICAN PARTS as such modifications or alterations may affect its capacity or safe operation. See American Crane Corporation Service Bulletin #259.

Ratings in this chart are in POUNDS and do not exceed the percentage of tipping specified for this crane by ANSI B30.5. All ratings require that the crane be standing level on a firm uniformly supporting surface.

Do not lift loads in excess of those shown on this chart. Lifting loads in excess of those shown or operation not in accordance with good operating practice, including limitations shown on page 3499 of Operator's Manual, can cause tipping, structural damage or catastrophic failure.

Asterisk (*) areas on this chart indicate ratings which are limited by strength of material or factors other than stability (tipping).

" RADIUS IN FEET " is the horizontal distance at ground level from the crane centerline of rotation to a vertical line through the center of gravity of the suspended load.

When using the main boom fall with jib in place, the main fall ratings must be reduced by the jib effective weight shown on the jib rating chart plus twice the weight of all suspended blocks, slings, rope, etc., at the jib fall. See Appendix A.

When using the main boom fall with boom tip extension in place, the main fall ratings must be reduced by the weight of the boom tip extension plus twice the weight of all suspended blocks, slings, rope, etc., at the boom tip extension fall. See Appendix A.

Blocks, slings, buckets and other load carrying devices are considered part of the load. The weight of standard hoisting ropes for the rating at a given radius has been calculated as part of the boom point load and need not be considered in determining net allowable loads. See Appendix A.

This chart was developed exclusively for use with a boom only. Under no circumstances are these ratings to be interpreted for use with a jib.

Ratings shown on this chart make no allowance for such factors as out of plumb loads, wind, poor soil conditions, improper inflation of rubber tires and dynamic effects due to excessive operating speeds. The user (operator) must exercise judgement to make allowance for these conditions. See page 3499 of Operator's Manual for detailed information.

No account is taken of the wind force on the load. This effect, which can be substantial for loads with large surface areas, must be considered by the user. In any wind it is strongly recommended that taglines be used to control the load.

Combinations of boom or boom and jib with a total length exceeding 350' can be operated at full rated capacity only in wind speeds of 15 MPH or less. If lifts are to be performed in winds between 15 MPH and 25 MPH, ratings must be reduced 10%. No operation of the above combinations should be attempted in wind speeds over 25 MPH. The above limitations do not take into account loads with excessive surface area which are not restrained by tag lines.

Outriggers must be fully extended and set when using "OUTRIGGERS SET" ratings.

Printed in U.S.A. 12:35PM - 10/13/95 Rev 0 (CEL)

Page 6 of 8

SHEET 7460.33

American Crane Corporation Wilmington, North Carolina 28412

Model 7460 Truck Crane - Ratings In Pounds 59S Tubular Boom with Hammerhead Tip 25,000 Pounds Counterweight - American Carrier

For tire inflation pressure for ratings "FREE", see Operator's Manual. See Operator's Manual for recommended tire loading and tire pressure for travel speeds.

When operating "FREE", the boom must never be operated at radii for which no ratings are shown in this chart.

Do not make a lift over the front of a truck crane, either with or without outriggers unless equipped with a front bumper outrigger. If such a lift is unavoidable, consult American Crane for special instructions and reduced ratings. See back of page 3499 of Operator's Manual for definition of working areas on various types of cranes.

WARNING

Do not rotate the crane upperworks over the side of the truck carrier with any counterweight in place unless the outriggers are fully extended and set. When on tires with any counterweight in place, the crane may tip over backwards if swung to any position over the side.

BOOM HOIST LINE is 10 parts of .75 inch diameter 6 x 26, WS, FW, LAL, IWRC, EIPS wire rope with a minimum breaking strength of 58,800 pounds.

PENDANT SUSPENSION LINE is 2 parts of 1.375 inch diameter MONOLAY with a minimum breaking strength of 208,000 pounds.

MAIN LOAD LINE is 1.0 inch diameter 6 x 25, FW, RRL, IWRC, IPS wire rope with a minimum breaking strength of 89,800 pounds.

ERECTION

Erection over the rear or over the side must be done with A-Frame fully raised and the outriggers fully extended and set. Blocks, slings and other load-carrying devices must be on the ground during erection.

	MAXIMUM BOO	M & JIB SELF-E	RECTION DATA					
OVER THE END OVER THE SIDE								
	BOOM LENGTH (FT)	JIB LENGTH (FT)	BOOM LENGTH (FT)	JIB LENGTH (FT)				
9HL JIB 180 70 180 70								

LOAD HOISTING INFORMATION									
MAXIMUM LIFTING	MINIMUM	MAXIMUM HOISTING DISTANCE - F							
CAPACITY - LBS.	PARTS OF LINE	MAIN DRUM - C.L.L.	AUX. DRUM						
180,000 179,600 153,940 128,280 102,620 76,970 51,310 25,650	8 7 6 5 4 3 2 1	72 83 96 116 145 193 290 581	55 • 63 • 73 • 88 • 110 • 147 • 221 • 442						

	BOOM COMPOSITION CHART										
		BOOM SECTIONS									
BOOM LENGTH (FEET)	20' 59H INNER	10' 59S CENTER	20' 59S CENTER	40' 59S CENTER	20' 59SH OUTER	20' 59 HH TIP					
40 50 60 70 80 90 100 110 120 130 140 150 160 170 180	1 1 1 1 1 1 1 1 1 1 1	0 1 0 1 0 1 0 1 0 1 0	0 0 1 1 0 0 1 1 0 0 1 1 0	0 0 0 1 1 1 1 2 2 2 2 3 3	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1					