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Badius Boom



FI. From Boom Point

122 115 108

139 133

AMERICAN

MODEL 8460 165 TON TRUCK CRANE

77L HAMMERHEAD BOOM RATINGS

I CA E

With 68,000 Lb "A-B" Counterweight Extended Outriggers Set

Boom	Radius In	Boom Angle	Outrig	gers Set	Ft. From Boom		Boom	Radius In	Boom Angle	Outrig	pers Set
Length	Feet	Degrees	Over Side	Over Rear	Point	1	Length	Feet	Degrees	Over Side	Over Rear
	13	83.2	330000	330000	58			30	78.0	133980	158170
	14	82.0	300000	300000	58			35	75.3	107490	126080
	15	80.8	288350	300000	57			40	72.6	88490	101910
	20	75.0	230900	238040	56			50	67.1	63520	72740
50	25	69.0	190390	190390	55		110	60	61.3	48700	55740
feet	30	62.8	140010	158750	52	į –	feet	70	55.1	38750	44440
	35	56.0	109070	125710	49	[(cont.)	80	48.4	31680	36450
	40	48.7	88720	101810	45	ļ		90	40.9	26530	30630
	50	29.7	63660	72770	32			100	31.9	22390	25990
	15	82.4	287020	300000	68			110	19.4	19060	22270
	20	77.6	230460	237880	67	1		22	82.8	181640	212480
60	25 30	72.6	188720	190260	65			25	81.4	160110	189680
feet	30	67.6 62.3	140270	158650	63			30	79.0	132980	158070
ICCI	40	56.7	109260 88860	125950	61 58			35	76.5	106660	125930
	50	44.1	63790	72930	49		120	40	74.1	87920	101710
1	60	26.9	48890	55870	35		feet	50 60	69.1 63.8	63280 48440	72510
	16	82.6	272070	+	77		1661	70	58.4	38490	55500
	20	02.0 79.3	229820	297150 237730	77			80	52.5	31420	44190
	25	75.2	186600	190120	76			90	46.2	26280	30390
	30	70.9	139550	158550	70			100	39.0	22160	25760
70	35	66.5	109330	126060	72			110	30.5	18850	22060
feet	40	62.0	88890	102040	70			120	18.5	16120	19010
	50	52.1	63810	72970	63			23	82.9	172390	200460
	60	40.6	48940	55940	53			25	82.1	158720	189570
	70	24.7	39010	44660	37			30	79.8	131760	157980
	17	82.8	259020	279550	87			35	77.6	105820	125760
	20	80.7	229110	237580	87			40	75.3	87380	101720
	25	77.1	184360	189990	86			50	70.7	63000	72240
	30	73.4	138400	158450	85		130	60	66.0	48150	55220
80	35	69.6	109260	126020	83		feet	70	61.1	38180	43890
feet	40	65.7	88780	101960	81			80	55.9	31090	35880
	50	57.6	63670	72840	75	· .		90	50.3	25980	30090
	60	48.5	48810	55820	68			100	44.3	21850	25460
	70 80	37.8	38880	44550	57			110 120	37.4 29.2	18540	21760
		23.0	31790	36540	39			130	17.8	15840 13570	18730 16200
	18 20	83.0	247550	263790	97						
	20	81.7 78.5	228330	237430	97			25 30	82.6	157290	187440
	30	76.5	182070 137220	189860	96			35	80.6 78.5	130520	157880
90	35	71.9	108940	158360 125950	95 94			40	76.4	104940 86610	125570 101510
feet	40	68.6	88630	101840	94 92			50	72.2	62720	71980
	50	61.5	63500	72700	87			60	67.8	47860	54940
	60	54.0	48640	55670	81		140	70	63.3	37880	43590
	70	45.5	38720	44390	72		feet	80	58.6	30780	35570
	80	35.5	31640	36400	60			90	53.7	25680	29800
	90	21.6	26390	30480	41			100	48.4	21550	25170
	20	82.5	203450	237460	107			110	42.6	18240	21460
	25	79.7	162800	189900	106			120	36.0	15540	18440
	30	76.8	135210	158260	105			130	28.1	13280	15920
	35	73.8	108520	126200	104			140	17.1	11350	13770
100	40	70.8	88870	102080	102	[T	26	82.7	144050	144050
feet	50	64.6	63750	72950	98			30	81.2	129910	142380
	60	58.0	48930	55960	93			35	79.3	104250	125510
	70	51.0	39010	44690	85			40	77.3	86210	101460
	80	43.0	31940	36700	76		150	50	73.4	62680	71940
	90	33.6	26760	30850	63		feet	60	69.4	47840	54910
	100	20.4	22600	26190	42			70	65.2	37860	43570
110	21	82.7	192150	224670	117			80	60.9	30770	35560
feet	25	80.6	161470	189790	117	Ŀ		90	56.4	25690	29810

Boom	Radius In	Boom Angle	Outrig	gers Set	Fi. From Boom
Length	Feet	Degrees	Over Side	Over Rear	Point
150 feet (cont.)	100 110 120 130 140	51.7 46.6 41.0 34.7 27.1	21560 18270 15570 13310 11400	25180 21490 18470 15950 13820	126 117 106 93 76
	150	27.1 16.5	9760	11990	50
160 feet	27 30 35 40 50 60 70 80 90 100 110 120 130 140 150 160	82.8 81.7 79.9 78.1 70.7 66.9 62.9 58.8 54.5 49.9 45.0 39.7 33.6 26.2 15.9	132850 128720 103390 85470 62020 47550 37550 37550 30440 25390 21250 15250 15250 13000 11090 9450 8030	132850 132850 125350 101270 71670 54640 43280 35240 29510 24870 21170 18150 15640 13520 11690 10110	$\begin{array}{c} 167\\ 166\\ 166\\ 165\\ 165\\ 159\\ 155\\ 150\\ 145\\ 138\\ 130\\ 121\\ 110\\ 96\\ 78\\ 51\\ \end{array}$
170 feet	28 30 35 40 50 60 70 80 90 100 110 120 130 140 150 160 170	$\begin{array}{c} 82.9\\ 82.2\\ 80.5\\ 78.8\\ 75.4\\ 71.9\\ 68.3\\ 64.6\\ 60.8\\ 56.9\\ 52.7\\ 48.3\\ 43.6\\ 38.4\\ 32.5\\ 25.4\\ 15.4\\ \end{array}$	122330 122330 102520 84880 61490 37250 30120 20940 17640 14930 12680 10770 9140 7710 6470	122330 122330 122330 122330 101060 71410 54360 42980 34930 29210 24570 20870 17840 15330 13200 11380 9800 8420	177 176 176 175 173 170 166 162 156 150 143 135 125 113 99 80 52
180 feet	29 30 35 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180	83.0 82.7 81.1 79.5 76.2 72.9 69.6 66.1 62.6 58.9 55.1 46.9 42.3 37.3 31.6 24.7 14.9	111870 111870 101470 84120 60940 36910 29770 24740 20590 17290 14580 12330 10420 8790 7360 6120 5020	111870 111870 111870 100830 71120 54070 42660 34590 24230 20530 17500 12850 11040 9450 8070 6850	187 187 186 185 183 180 177 173 168 162 156 148 139 129 117 102 83 54
190 feet	31 35 40	82.8 81.5 80.0	102910 100640 83350	102910 102910 100610	197 196 195 tinued)

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TRUCK CRANES

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FORM NO. 8460-TR-1 P.167.51

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77L HAMMERHEAD BOOM RATINGS (Cont.)

Boom Angie Degrees

78.2

75.4

72.6

69.7

66.8

63.7

60.7 57.5

54.2

50.7 47.1

43.2

39.0 34.4

29.1

22.8

13.8

83.0

82.7

81.4

78.7

76.1

73.4

70.7

67.9

65.0

62.1 59.1

56.0 52.8 49.5

45.9

42.1 38.1

33.6

28.4

22.2

13.5

Badius

Outriggers Set

Over Rea

68920

23140

13850

4640

Over Side

23970

13790

45160

Ft. From

Point

170

140

155

With 68,000 Lb "A-B" Counterweight Extended

Beom	Aadius in	Boom Angle	Outrig	gers Set	Ft. From Boom	ה	800m	Radius
Length	Feet	Degrees	Over Side	Over Rear			Length	
190 feet (cont.)	50 60 70 80 90 100 110 120 130 140 150 160 170 180 190	76.9 73.8 70.7 67.4 64.1 60.7 57.2 53.5 49.7 45.5 41.1 36.2 30.7 24.0 14.5	60400 46450 36580 29430 20260 16940 14240 11980 10080 8440 7020 5780 4680 3700	70840 53770 42330 34250 28550 23900 20180 17160 14640 12510 10690 9110 7730 6520 5430	193 190 187 183 179 174 168 161 153 143 133 120 105 85 55		210 feet cont.	50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200
200 feet	32 35 40 50 60 70 80 90 100 110 120 130 140 150 160 170 170 180 190 200	82.8 82.0 80.5 77.6 74.7 71.7 68.6 65.5 62.3 59.0 55.6 55.6 55.1 48.3 44.3 40.0 35.6 29.9 23.3 14.1	78400 78400 78400 59980 46120 24290 24290 20140 16830 14120 11880 9960 8330 6920 5680 4580 3610 2740	78400 78400 78400 53620 42190 34110 28440 23780 20070 17040 14530 12400 9010 7640 6410 5330 4370	206 205 203 201 198 194 190 185 179 173 166 157 147 136 123 107 87 56		220 feet	210 34 35 40 50 60 90 100 110 120 130 140 150 160 170 180
210 eet	33 35 40	82.9 82.3 81.0	73670 73670 73670	73670 73670 73670	216 216 215			190 200 210 220

Radiu Boom Angle Degrees Outriggers Set Ft. From Boom Length in Feet Boom Point Over Side Over Real 82.8 81.8 79.2 63180 234 60 70 80 90 76.7 74.1 226 71.5 68.9 66.2 214 63.4 130 feet 60.6 57.7 11360 150 160 54.7 51.6 48.3 6570 44.8 41.2 37.2 32.8 3310 220 27.8 21.7 93 82.8 50 82.1 244 79.7 77.3 74.8 80 27140 72.3 22920 0 69.8 110 67.2 64.6 12740 feet 61.9 140 59.2 56.4 53.4 6910 7600 193 170 50.4 3110 2120 47.2 43.8 200 40.3 150 36.4 32.1

77L HAMMERHEAD BOOM RATINGS With 68,000 Lb "A-B" Ctwt. Retracted

Boom Length	Radius In	Boom Angle	Outrigg	ers Free	Ft. From Boom
Longin	Feet	Degrees	Over Side	Over Rear	Point
50 feet	50	29.7	16380	35130	32
60 feet	40 50 60	56.7 44.1 26.9	22400 16170 11890	46460 35120 26980	58 50 35
70 feet	40 50 60 70	62.0 52.1 40.6 24.7	22070 15890 11690 8520	45960 35020 26940 21260	70 63 53 37
80 feet	35 40 50 60 70 80	69.6 65.7 57.6 48.5 37.8 23.0	25690 21580 15440 11300 8170 5740	50670 45300 34770 26720 21060 16890	83 81 76 68 57 39
	Í				

Boom Length	In	Angle	i Outriggi	Ft. From Boom	
Longin	Feet	Degraes	Over Side	Over Rear	Point
	35	71.9	25190	50010	94
	40	68.6	21110	44680	92
90	50	61.5	14990	34510	87
feet	60	54.0	10900	26480	81
	70	45.5	7800	20830	72
	80	35.5	5410	16680	60
	90	21.6	3560	13540	41
Í	35	73.8	25440	50230	104
	40	70.8	21380	44930	103
100	50	64.6	15260	34740	98
feet	60	58.0	11210	26750	93
	70	51.0	8130	21110	86
	80	43.0	5750	16970	76
	90	33.6	3970	13900	63
	100	20.4	2390	11340	42
	[[
			1		1

Boom Length	Radius In	Boom Angle	Outrigg	ers Free	Ft. From Boom
	Feet	Degrees	Over Side	Over Rear	Point
	35	75.3	24840	49460	115
	40	72.6	20820	44200	113
	50	67.1	14730	34410	109
110	60	61.3	10720	26430	105
feet	70	55.1	7640	20790	98
	80	48.4	5290	16650	90
	90	40.9	3560	13620	80
	100	31.9	2010	11080	66
	110	19.4	710	9010	44
	30	79.0	29510	55130	126
	35	76.5	24280	48750	125
	40	74.1	20290	43540	124
	50	69.1	14220	34080	120
120	60	63.8	10230	26110	116
feet	70	58.4	7170	20470	110
	80	52.5	4830	16330	103
	90	46.2	3140	13330	95
	100	39.0	1620	10810	83

8460.03

8460.01

NOTE: Counterweight may be hydraulically extended or retracted. The normal operating condition is with the counterweight extended. When working over the side on rubber the counterweight may be retracted to improve back stability and enable the operator to work at shorter radii.

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TRUCK CRANES

AMERICAN

APA-113

A

BİGGE

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77L TAPERED TIP BOOM RATINGS

With 68,000 Lb "A-B" Counterweight Extended

Boom	Radius In	Boom Angle	Outrig	Outriggers Set		
Length	Feet	Degrees	Over Side	Over Rear	Boom Point	
	18	80.3	176410	176410	86	
	20	78.8	176410	176410	86	
	25	75.2	160640	160640	84	
	30	71.4	133880	133880	83	
80	35	67.6	111890	114800	81	
feet	40	63.7	91610		79	
	50 60 70	55.3 46.1	66770 52070	75920	73 65	
	70	35.0	42290	47940	53	
	80	19.3	35330	40070	34	
90	19	80.7	176300	176300	96	
	20	80.1	176300	176300	96	
	25	76.8	160520	160520	95	
	30	73.5	133780	133780	93	
	35	70.2	111770	114720	92	
	40	66.8	91440	100320	90	
feet	50	59.6	66560	75740	85	
	60	51.9	51870	58880	78	
	70	43.3	42060	47730	69	
	80	33.0	35090	39840	56	
·	90	18.2	29890	33980	ئ	
	21	80.5	176190	176190	106	
	25	78.2	160410	160410	105	
	30	75.2	133690	133690	104	
	35	72.2	110930	114640	102	
	40	69.2	91250	100240	101	
100	50	62.9	66350	75540	96	
feet	60	56.3	51660	58680	90	
	70	49.1	41840	47510	83	
	80	41.0	34850	39610	73	
	90	31.2	29630	33730	59	
	100	17.3	25660	29250	37	
	22 25 30 35	80.8 79.3 76.6 73.9	176080 160300 133590 110040	176080 160300 133590 114560	116 115 114	
110 feet	40 50 60	71.2 65.6 59.7	90990 66060 51360	100170 75260 58400	113 111 107 102	
	70	53.5	41530	47210	95	
	80	46.7	34540	39300	87	
	90	39.0	29320	33420	76	
	100	29.8	25370	28970	62	
	110	16.4	22110	25310	38	
	24 25 30 35	80.6 80.2 77.7 75.3	166900 160180 133500 109140	166900 160180 133500 114490	125 125 124	
120 feet	40 50 60	72.8 67.7 62.5	90350 65770 51080	100090 74990 58120	123 122 118 113	
	70 80	56.9 51.0	41220	46920 39000	108 100	
	90	44.6	29140	33250	91	
	100	37.3	25080	28680	80	
	110	28.5	21820	25030	64	
	120	15.7	19160	22050	64 40	
	25	80.9	160070	160070	135	
	30	78.7	133400	133400	135	
	35	76.4	108500	114410	133	
	40 50 60	74.2 69.5 64.7	90010 65810 51140	100010 75030 58100	132 129	
130 feet	50 70 80	64.7 59.7 54.5	51140 41290 34290	58190 46980 39060	125 119	
	90 100	54.5 48.9 42.7	34290 29240 25170	39060 33350 28780	113 105 95	
	110 120	35.8	21920 19260	25130 22150	95 83 67	
	130	27.3 15.1	17050	19680	41	

n Boom t Length		Angle	1	jers Set
Cengin	In Feet	Degrees	Over Side	Over Rea
	130	45.8	15620	18270
180	140	41.2 36.1	13750 12140	16170
feet	160	30.2	10750	12840
cont.	170	23.2	9550	11490
L	180	12.8	8490	10310
	35	80.8	94590	94590
	40	79.2	86070 63220	94590 73420
	60	73.0	49440	56540
1	70	69.8	39520	45260
	80 90	66.6 63.3	32470	37280
100	100	59.8	27520	31650
190 feet	110	56.3	20160	23390
1001	120	52.6	17490	20400
	130 140	48.7 44.5	15270 13390	17920
	140	44.5	11780	15820 14030
	160	35.1	10400	12490
	170	29.4	9190	11130
	180 190	22.5	8120 7170	9950
	36	12.5 80.9		8900
	40	79.8	88140 85260	88140 88140
	50	76.9	62650	73110
	60	73.9	49020	56230
	70 80	70.9	39190	44930
	90	67.8 64.7	32120 27180	36940 31330
	100	61.5	23090	26720
200	110	58.2	19820	23060
feet	120 130	54.7 51.1	17150	20060
	140	47.4	14920 13040	17570 15480
	150	43.3	11440	13690
	160	39.0	10050	12140
	170 180	34.2 28.7	8830	10780
	190	22.0	7760 6810	9590 8540
	200	12.2	5980	7600
	38	80.8	81380	81380
	40	80.3	81380	81380
	50 60	77.5	62060 48490	72790 55910
	70	71.8	38830	44590
	80	68.9	31750	36580
	90	66.0	26830	30980
	100 110	63.0 59.8	22720 19440	26360 22690
210 feet	120	56.6	16780	19700
feet	130	53.3	14550	17210
	140	49.8	12660	15100
	150 160	46.1 42.2	11060 9660	13310
	170	38.0	8440	11760 10400
	180	33.3	7380	9210
	190	28.0	6430	8150
			5580	7210 6380
				75480
	40	80.7		75480
	50	78.1	61480	72480
	60	75.4	47960	55580
220		12.1 69.0	38470	44240 36220
teet	90	67.1	26470	30630
	100	64.3	22360	26010
	110	61.3	19080	22330
				19330 16850
	feet	200 210 39 40 50 60 70 80 100 110 120 130	200 21.4 210 11.9 39 81.0 40 80.7 50 78.1 60 75.4 70 72.7 feet 90 67.1 100 64.3 110 61.3 120 58.3	200 21.4 5580 210 11.9 4830 39 81.0 75480 40 80.7 75480 50 78.1 61480 60 75.4 47960 220 70 72.7 38470 90 67.1 26470 100 100 64.3 22360 110 110 61.3 19080 120 120 58.3 16400 130 55.2 14180

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AMERICAN

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Ft. From Boom Point

113 98

47

140

80

192

177 170

144

167

122

50

217

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TRUCK CRANES

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77L TAPERED TIP BOOM RATINGS (Cont.) With 68,000 Lb "A-B" Counterweight Exten

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--
--|---|--|--|---|--|--|--|
| Radius
In | Boom
Angle |
 |

 | Ft. From
Boom | Boom | Radius | Boom
 | Outrig | gers Sei
 | Ft. From | Boom | Radius | Boom | Outrigg | ers Set | Ft. From
 |
| | |
 |

 | Point | - sign | Feet | Degrees
 | Over Side | Over Rear
 | Point | Length | Feet | Angle
Degrees | Over Side | Over Rear | Boem
Point
 |
| 150
160
170
180
190
200
210 | 48.6
45.0
41.2
37.1
32.5
27.3
20.9 | 10680
9290
8070
6990
6040
5200
4440
 | 12940
11380
10030
8830
7770
6830
5980

 | 172
163
152
140
125
108
86 | 250 | 80
90
100
110
120
130
140
150 | 72.4
70.0
67.5
65.0
62.5
59.9
57.2
54.4
 | 30430
25630
21500
18220
15530
13300
11410
9790 | 35340
29800
25160
21470
18470
15970
13860
12060
 | 245
242
238
234
229
223
217
210 | 270
feet
cont. | 170
180
190
200
210
220
230
240 | 52.2
49.5
46.6
43.6
40.4
37.0
33.4
29.3 | 6980
5900
4950
3320
2630
2000
1420 | 8950
7750
6680
5730
4880
4110
3420
2780 | 220
212
203
193
182
170
156
139
 |
| 41 | <u> </u> | -
 |

 | | feet | 160 | 51.5
48.5
 | 8400
7180 | 10510
 | 203 | | 250 | 24.6 | - | 2200 | 119
 |
| 50
60
70
80
90
100
110
120 | 78.6
76.0
73.5
70.8
68.2
65.5
62.7
59.9 | 57520
47570
38200
31200
26310
22190
18920
16240
 | 57520
55380
44040
36030
30460
25840
22160
19170

 | 233
230
228
224
221
216
211 | Cont. | 180
190
200
210
220
230
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With 68,000 Lb "A-B" Ctwt. Retracted **DM RATINGS**

Boom	n n	Angie	OUTRIGG	ERS FREE	Ft. From Boom
Length	Feet	Degrees	Over Side	Over Rear	Point
80	70	35.0	12440	24530	53
feet	80	19.3	10120	20460	34
	60	51.9	15000	29780	78
90	70	43.3	11990	24230	69
feet	80	33.0	9680	20160	56
	90	18.2	7920	17120	35
	60	56.3	14560	29500	90
	70	49.1	11560	23950	83
100	80	41.0	9260	19870	73
feet	90	31.2	7540	16860	59
	100	<u> 17.3 </u>	6060	14400	37

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Boom	Radius In	Boom Angle	OUTRIGG	Ft. From	
Length	Feet	Degrees	Over Side	Over Rear	Boom Point
120 feet	50 60 70 80 90 100 110 120	67.7 62.5 56.9 51.0 44.6 37.3 28.5 15.7	17370 13490 10510 8250 6600 5150 3930 2900	36620 28780 23220 19150 16190 13740 11730 10080	118 114 108 101 91 80 64 40

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Radius In Feet

50 60

70 80 90 53.5 46.7

100 110

Boom Length

110

feet

Boom Angle Degrees

65.6 59.7

39.0

29.8

16.4

OUTRIGGERS FREE

Over Side Over Rear

36990

29130

23580

19510 16530

14060

12050

17920

14010

11020

8740 7070

5590

4360

Ft. From Boom Point

107

102 96 87

76 62

38

APA-113

Bigge





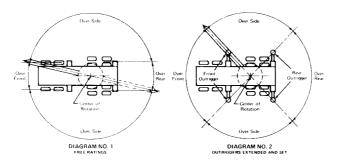
CRANE RATING DATA

Load ratings are in pounds and do not exceed 85% of the load which would cause tipping with crane standing level on firm uniformly supporting surface. Safe loads depend on ground conditions, boom length, radius of operation, condition and inflation (130 PSI) of tires and proper handling, all of which must be taken into consideration by user. Ratings in shaded areas are based on structural limitations rather than stability. Approved working areas "Free Over Side" and "Free Over Rear" are shown under Diagram No. 1. Approved working areas "Outriggers Extended and Set Over Side or Rear" are shown under Diagram No. 2. Lifting is approved only in those areas for which ratings are shown in the rating chart.

"Radius in feet" is the horizontal distance at crane base level from center pin to a vertical line through the center of gravity of the suspended load. Blocks, slings, buckets, and other load carrying devices are considered part of the load. The weight of standard hoisting ropes has been calculated as part of the boom point dead load and need not be considered in determining net allowable loads. Retractable Aframe must be in fully raised position for all ratings.

Main load line is 1 inch diameter with a minimum breaking strength of 103,400 pounds. Boom suspension line 3/4 inch diameter with minimum breaking strength of 58,800 lb. Boom suspension pendants 1-1/4 inch diameter with minimum breaking strength of 175,800 lb.

Compliance to B30.5 based on American Carrier Mounting.



BOOM AND JIB ERECTION⁺

With Front Bumper Counterweight 18,000 Pounds

BOOM LENGTH	NO. 16HL JIB	NO. 9HL JIB
280 77L Tapered Tip		
270 77L Tapered Tip	80'	80'
260 77L Tapered Tip	100	80'
240 77L Hammerhead		- 1
230 77L Hammerhead	70'	80'
220' 77L Hammerhead	80`	80

Without Front Bumper Counterweight

BOOM LENGTH	NO. 16HL JIB	NO. 9HL JIB
280° 77L Tapered Tip		
260° 77L Tapered Tip	_	40'
250° 77L Tapered Tip	50'	60
240 77L Tapered Tip	80'	80'
230' 77L Hammerhead		
210 [°] 77L Hammerhead	60'	70'
200 [°] 77L Hammerhead	80'	80'

Front bumper counterweight to be used for erection only. †Self-erection over the rear with "A-B" (68,500 lb) counterweight extended and outriggers extended and set.

PERFORMANCE

SWING SPEED 3.5 RPM Maximum
SINGLE LINE SPEED:
Main and Auxiliary Hoist Drums
Low speed — bottom layer
Low speed — top laver 142 FPM
High speed — bottom layer 189 FPM
High speed — top layer 282 FPM
Auxiliary Third Drum
Low speed — bottom layer
Low speed — top layer 192 FPM
High speed — bottom layer
High speed — top layer 368 FPM
SINGLE LINE PULL:
Main and Auxiliary Hoist Drums
Low speed — bottom layer 45,000 lbs. SLP
Low speed — top layer
High speed — bottom layer 22,500 lbs. SLP
High speed — top layer 15,000 lbs. SLP
Auxiliary Third Drum
Low speed — bottom layer 37,300 lbs. SLP
Low speed — top layer $\dots 29.600$ lbs, SLP
High speed — bottom layer 18,650 lbs. SLP
High speed — top layer 14,800 lbs. SLP
BOOM SPEED:
Time to raise 50 ft. boom from ground

to minimum radius 1.9 minutes

Time to lower 50 ft. boom from minimum radius to ground ... 1.67 minutes

BOOM COMPOSITION

771 Tubular Hammerhead Boom

Boom Length In Feet	30 F1 77L Inner	10 FL 77S Center	20 Ft. 77S Center	SO Ft. 77L Center	20 Ft. 77L Outer Base	Kammerhea
50	1	_			1	1
60	1	1	_	_	1	1
70	1		1		1	1
80	1	1	1	_	1	1
90	1	-	2	-	1	1
100	1		_ '	1	1	1
110	1	1		1	1	1
120	1 -	-	1.	1	1	1
130	1	1	1	1	1	1
140	1	_	2	1	1	1
150	1	_	- 1	2	1	1
160	1	1 .		2	1	1
170	1	-	1	2	1	1
180	1	1	1	2	1	1
190	1	_	2	2	1	1
200	1	_	- 1	3	1	1
210	1	1	- 1	3	1	1
220	1	~	1	3	1	1
230	1	1	1	2 2 2 3 3 3 3 3 3	1	1
240	1		2	3	1	1

77L Tubular Tapered Tip Boom

		apered	110 00	<u>v</u>		
Boom Length In Feel	30 Fl. 77L Inner	10 F1. 77S Center	20 Fl. 77S Center	50 FL 77L Center	20 Fl. 77L Outer Base	30 Ft. 77L Tapered Tip
80	1	_	_	_	1	1
90	1	1			1	1
100	1	_	1		1	1
110	1	1	1	_	1	1
120	1	_	2	_	1	1
130	1	-	-	1	1	1
140	1	1	_	1	1	1
150	1		1	1	1	1
160	1	1	1	1	1	1
170	1	-	2	1	1	1
180	1		_	2	1	1
190	1	1	_	2	1	1
200	1	-	1	2	1	1
210	1	1	1	2	1	1
220	1		2	2	1	1
230	1	-	-	3	1	1
240	1	1	-	3	1	1
250	1		1	3	1	1
260	1	1	1	3	1	1
270		- 1	2	2 2 3 3 3 3 3 4	1	1
280				4	1	1

NOTE: In accordance with varying material situations, and the Company's policy of constant product improvement, these specifications subject to change without notice and without incutring responsibility to units previously sold.

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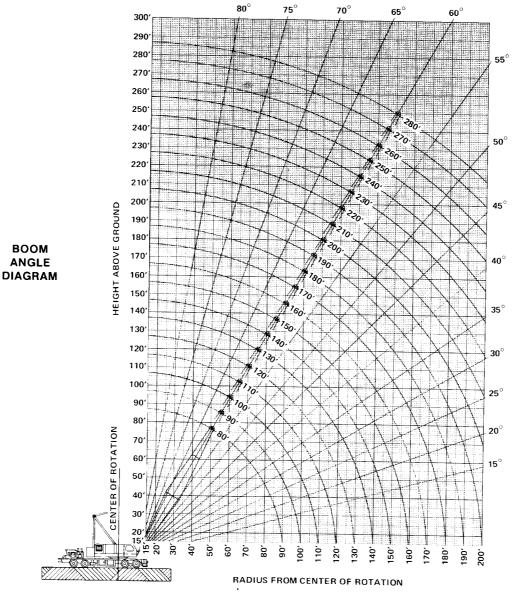
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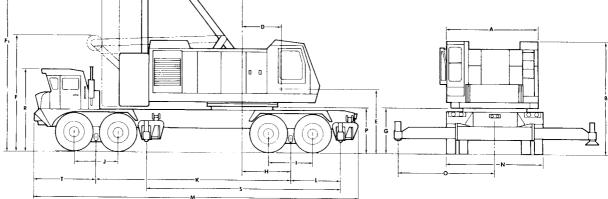
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GENERAL DIMENSIONS

А.	Width of cab 10' 4"
В.	Height to top of cab 13' 0''
C.	Tailswing – Ctwt. Retracted 14' 0"
C₁.	Tailswing – Ctwt. Extended 16' 0"
D.	Centerline of rotation to centerline of boom foot
E.	Ground to centerline boom foot 7' 2-3/4"
F.	Height over A-Frame (lowered) 13' 2"
F1.	Height over A-Frame (raised)
G.	Ground to bottom of counterweight
·Η.	Centerline of rotation to centerline of rear bogie
۱.	Distance between rear axles
J.	Distance between front axles

К.	Centerline of rear bogie to centerline of front bogie
L.	Centerline of rear bogie to
	centerline of rear outrigger
Μ.	Overall length
N.	Overall width 11' 0''
0.	Outriggers extended
Ρ.	Height over mounting plate 5' 0-1/2"
R.	Height over carrier cab 9' 4"
S.	Centerline or rear outrigger to
	centerline of front outrigger 22' 0"
Т.	Distance from Front Bogie to Front
	Bumper
	Turning radius
	Clearance (under rear equalizing beam) . 7-1/2"
	Clearance (under rear differential) 12"

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X = IN PLACE

8460 TRAVELING WEIGHTS

O = REMOVED									
				BOOM REAL	RWARD*	•			
A TAPER TIP FOLDED	B BLOCK	C OUTER BOOM HAMMERHEAD	D INNER BOOM	E COUNTER- WEIGHT	F FRONT OUTRIGGER	G REAR OUTRIGGER	FRONT TANDEM (LB)	REAR TANDEM (LB)	GROSS WEIGHT (LB)
0	X	X	<u>x</u>	x	×	х	77410	136080	213500
0	0	x	X	X	×	x	81870		211490
<u>×</u>	0	0	x	×	x	х	91760		207950
0	x	X	X	0	x	x	21960		145000
0	0	x	x	0	x	x	26410		142990
X	0	0	x	0	x	x	36310		139460
0	x	X	x	0	0	x	14250	119940	134190
0	0	x	x	0	0	x	18710		132200
<u> </u>	0	0	x	0	0	x	28610		128660
0	x	x	x	0	x	0	25050		134190
0	. 0	<u> </u>	x	0	x	0	29510		132200
<u> </u>	0	0	x	0	х	0	39410	89250	128660
0	x	x	X	0	0	0	17350	106040	123390
••	0	X	x	0	0	0	21810	99590	121400
×	0	0	x	0	0	0	31700	86150	117850
0	0	0	X	x	x	x	97680	106130	203810
0	0	0	x	0	x	x	42220	93090	135310
0	_ 0	0	x	0	0	x	34520	89990	124510
0	0	0	x	0	x	0	45320	79190	124510
0	0	0	x	0	0	0	37620	76090	113710
0	0	0	0	x	x	x	105350	89260	194610
0	0	0	0	0	x	x	49890	76220	126110
0	0	0	0	0	0	x	42190	73120	115310
	0	0	0	0	x	0	52990	62320	115310
	0	0	0	0	0	0	45290	59220	104510

45290 59220 104510 *NOTE: In all conditions the traveling weights for the front and rear tandem are more equally balanced with the boom foot facing the rear of weight 104,510.

NOTE: Due to back stability, full counterweight must not be swung over side of machine without outriggers extended and set.

ADDITIONAL WEIGHT REDUCTION

	TOTAL EFFECT PER ITEM				[1	T
ITEM	WEIGHT ADJUSTMENT (LB)	FRONT TANDEM (LB)	REAR TANDEM (LB)	ITEMS REMOVED	FRONT TANDEM (LB)	REAR TANDEM (LB)	GROSS WEIGHT (LB)
H–Counterweight Beams Rollers and Pins	2,380	-1560	- 820	A thru H	43,730	58,400	102,130
J–Laggings and Ropes, Main Hoist Drums	4,770	-1430	-3340	A thru J	42.300	55,060	
K-Retractable A-Frame	4,700	-4070	- 630	A thru K	38,230		97,360
L–25% Full Upper Fuel Tank Was 50% Full	200	- 130	- 70	A thru L	38,100	54,430	92,660
M-Modular Operator's Cab	470	- 0	- 470	A thru M	38,100	54,360 53,890	92,460 91,990
Carrier with outriggors and an	dana ta sa t				·		
Carrier with outriggers and swing bearing – less upper 27525 49555 77080							
Carrier with swing bearing – less upper and outriggers275254955577080229203256055480							

NOTE: Because of variable manufacturing tolerances a variance of \pm 3% should be allowed on these weights.

SEE OPERATOR'S MANUAL FOR MAXIMUM MPH TRAVEL SPEED RESTRICTIONS AS LIMITED BY TIRE LOADS.

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8460 CARRIER SPECIFICATIONS

Specifications for AMERICAN MODEL 8460, 165 ton, 264" wheelbase, 8 x 4 carrier.

FRAME: Box welded frame members designed and manufactured to provide adequate support for crane weight and capacities; high strength alloy steel used throughout the construction of the carrier; tow bars are provided front and rear.

HYDRAULIC OUTRIGGERS: Two independent housings fabricated from 100,000 PSI yield steel; outrigger beams with horizontal and vertical hydraulic movements; automatic check and manual shutoff valves in hydraulic jacks to assure maximum safety for all lifts; hardened chrome plated rams, fitted with 42" dia. spun high strength steel floats, pin connected and removable; maximum stroke of vertical jacks is 12 inches; maximum lift under floats is 7 inches; outrigger controls for RH outriggers on RH side of carrier and controls for LH outriggers on LH side.

ENGINE: Detroit Diesel (GM) 8V-71-N Model No. 7087-7040 diesel engine, 8 cylinder, 4-1/4" bore x 5" stroke, 568 cu. in. displacement, rated 318 HP at 2100 RPM.

OPTIONAL ENGINE: Cummins NTC-350 diesel engine, 6 cylinder, 5-1/2" borex 6" stroke, 855 cu. in. displacement, rated 350 HP at 2100 RPM thermostatically controlled radiator shutters.

FUEL TANK: One 125 (U.S.) gallon safety fuel tank.

ELECTRICAL: 12 volt system; 500 watt alternator; 2 - 8D 12 volt batteries.

POWER STEERING: Garrison twin-ram hydraulic power steering with Ross cam, 20" dia. steering wheel.

CLUTCH: Spicer AS 1402, two plate. dry type, angle spring clutch hydraulically actuated.

MAIN TRANSMISSION: Fuller Model T955ALL modified to give 5 + 1 speeds forward and 1 + 1 reverse.

RATIOS:

Low	Fourth 1.16:1
First 6.35:1	Fifth 1.00:1
Second 3.75:1	Reverse 6.48:1
Third 2.04:1	Reverse Low . 27.09:1

 $\ensuremath{\textbf{AUXILIARY}}$ TRANSMISSION: Spicer Model 1241C, Four Speed.

RATIOS:	First 2.37:1
	Second 1.24:1
	Third 1.00:1
	Fourth 0.81:1

FRONT AXLES: Shuler FTCA-34-L-30 in tandem. 48,000# highway capacity.

REAR AXLES: Clark planetary 91000 tandem assembly, non-spin differential on leading axle; ratio 9.00:1

SUSPENSION: Hendrickson solid mount with rubber bushed torque rods front and rear.

PROPEL SHAFT: Spicer 1710 Series and 1810 Series.

SERVICE BRAKES: Air on all wheels with 14.5 C.F.M. air compressor and two reservoirs; lining area 20" x 7" (1000 sq. in.) rear; 17-1/2" x 4" (495 sq. in.) front; 1495 sq. in. total lining area.

EMERGENCY BRAKES: Spring set, air release system on both rear axles with operator's control on dash panel; air reservoir for release of spring set chambers.

WHEELS: Cast spoke front; rear integrally cast with axles; $10.00 \ge 24$ rims.

TIRES: Michelin 14:00 x 24 XRB - Three Star.

CAB: One man cab 32" wide; fully enclosed offset to left side; hinged and removable panel for engine access; air cushion driver's seat.

STANDARD EQUIPMENT: West Coast type mirrors, air windshield wiper, windshield washer, heater, defroster, sealed beam oval headlights, front and rear directional signals, combination stop and taillights, backup lights, clearance lights on cab top and side, electrical and air horns, seat belts, dome light, indirect lighted instrument panel, speedometer, ammeter, fuel gauge, engine temperature indicator, air pressure gauge, oil pressure gauge, low air pressure warning signal, and tachometer.

OPTIONAL ACCESSORIES:

- A. Remote control
- B. Ether cold weather starting kit
- C. Spare tire & rim
- D. Engine brake
- E. Full length fenders
- F. Side mounted storage box
- G. Float racks
- H. Heavy duty front axles

PERFORMANCE:

 Maximum Governed Speed
 45 MPH

 Minimum Speed (1000 RPM)
 0.26 MPH

 Maximum Gradeability (Off Highway With CTWT)
 25%

NOTE: In accordance with varying material situations, and the Company's policy of constant product improvement, these specifications subject to change without notice and without incurring responsibility to units previously sold.

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