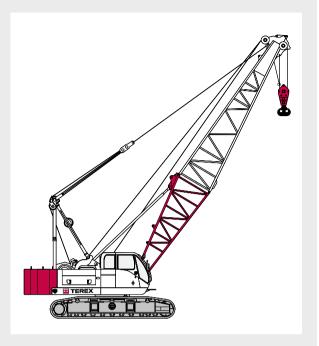
TEREX | AMERICAN

HC 80 | Hydraulic Crawler Crane 80 t Lifting Capacity



HYDRAULIC CRAWLER CRANE

- ▶ 80 (73 mt) tons maximum lifting capacity
- 200 ft (61 m) maximum length of main boom
- 170 + 60 ft (52 + 18 m) maximum boom and jib
- 240 ft (73 m) max. boom and luffing jib length
- Power up/down and freefall on main, auxiliary and optional third drum
- Quiet, spacious operator's cab
- Excellent visibility
- Two speed travel
- Superior transportability 88,000 lb (39 917 kg) transport weight includes side-frames and boom inner

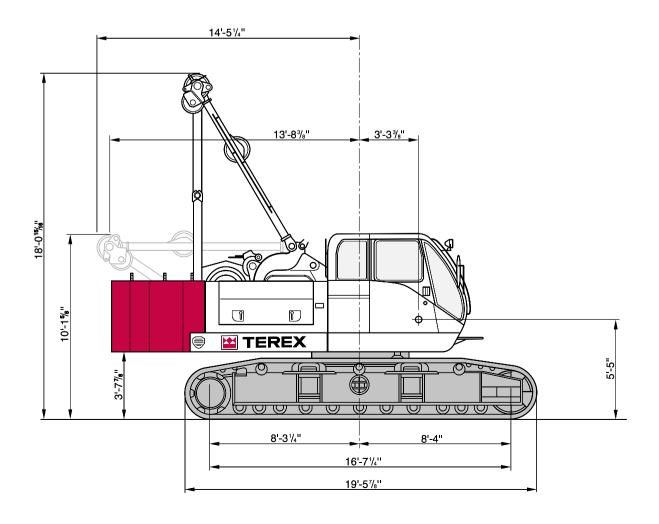


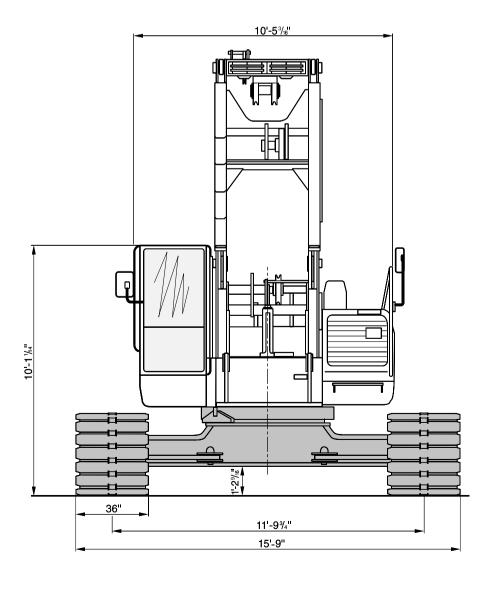
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Transport example for HC 80	



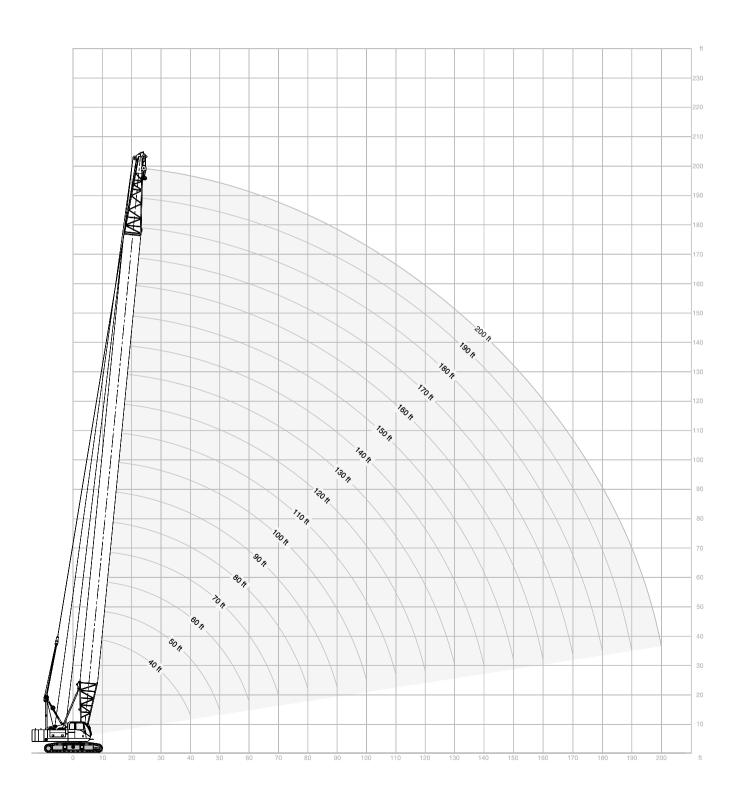
DIMENSIONS







RANGE DIAGRAM, 47HI BOOM



ANSI B 30.5

WITH 47HI OFFSET TIP BOOM

58,100 lb

40' (12.2 m)	Boom length		
	Boom	Side Frames	From Boom Pt.
Radius	Angle	Extended	to Ground
(Feet)	(Degrees)	(Pounds)	(Feet)
11	80.5	160,000*	45
12	79.0	160,000*	45
15	74.6	141,480	44
20	67.0	87,810	42
25	58.8	63,360	40
30	49.9	49,350	36
35	39.5	40,320	31
40	25.8	33,970	23

50' (15.2 m)	Boom length		
13	80.1	160,000*	55
15	77.8	141,440	54
20 25	71.8	87,750	53
25	65.6	63,280	51
30	59.1	49,250	48
35	52.0	40,220	45
40	44.2	33,860	40
50	22.9	25,540	25
50	22.9	25,540	25

60' (18.3 m)	Boom length		
14	80.8	145,370 *	65
15	79.8	141,380	64
20	74.9	87,660	63
25	69.9	63,170	62
30	64.7	49,120	60
35	59.2	40,100	57
40	53.4	33,730	54
50	40.2	25,400	44
60	20.8	20,230	27

70' (21.3 m)	Boom length		
16	80.5	125,040*	74
20	77.1	87,590	74
25	72.9	63,090	72
30	68.5	49,040	71
35	64.0	40,020	68
40	59.3	33,640	66
50	49.2	25,310	58
60	37.0	20,150	48
70	19.2	16,580	28

80' (24.4 m) Boom length		
Radius (Feet)	Boom Angle (Degrees)	Side Frames Extended (Pounds)	From Boom Pt. to Ground (Feet)
17	80.9	109,250*	84
20	78.8	87,470	84
25	75.1	62,960	83
30	71.3	48,880	81
35	67.5	39,870	79
40	63.5	33,480	77
50	55.1	25,140	71
60	45.8	20,000	63
70	34.5	16,430	51
80	17.9	13,830	30

360°

90' (27.4 m)	Boom length		
19	80.7	94,540	94
20	80.0	87,330	94
25	76.8	62,810	93
30	73.5	48,720	92
35	70.1	39,720	90
40	66.7	33,320	88
50	59.5	24,970	83
60	51.7	19,840	76
70	43.0	16,260	67
80	32.5	13,660	54
90	16.9	11,690	32

100' (30.5 n	n) Boom length		
21	80.4	80,910	104
25	78.1	62,690	103
30	75.2	48,580	102
35	72.2	39,590	101
40	69.1	33,190	99
50	62.8	24,840	94
60	56.1	19,720	88
70	48.9	16,130	81
80	40.7	13,540	71
90	30.7	11,560	56
100	16.0	10,010	33

110' (33.5 m)	Boom length		
22	80.8	72,040*	114
25	79.2	62,530	113
30	76.5	48,420	112
35	73.8	39,430	111
40	71.1	33,020	109
50	65.5	24,650	105
60	59.6	19,560	100
70	53.3	15,970	94
80	46.4	13,360	85
90	38.7	11,380	74
100	29.2	9,840	59
110	15.2	8,590	34

KEY

Counterweight

CB

Central ballast



360°

WITH 47HI OFFSET TIP BOOM

58,100 lb

120' (36.6 m) Boom length		
Radius (Feet)	Boom Angle (Degrees)	Side Frames Extended (Pounds)	From Boom Pt. to Ground (Feet)
24	80.6	60,160*	124
25	80.1	60,160*	124
30	77.7	48,260	123
35	75.2	39,260	121
40	72.7	32,850	120
50	67.6	24,470	116
60	62.3	19,390	112
70	56.8	15,800	106
80	50.8	13,190	98
90	44.3	11,210	89
100	37.0	9,660	78
110	28.0	8,410	62
120	14.5	7,390	36

130' (39.6 m) Boom length		
25	80.9	50,970*	134
30	78.6	48,100	133
35	76.4	39,120	132
40	74.1	32,700	130
50	69.4	24,320	127
60	64.7	19,240	123
70	59.6	15,650	118
80	54.4	13,040	111
90	48.7	11,060	103
100	42.5	9,510	93
110	35.4	8,250	81
120	26.8	7,230	64
130	13.9	6,380	37

140' (42.7 m	n) Boom length		
27	80.7	42,380*	144
30	79.5	42,370*	143
35	77.4	38,950	142
40	75.3	32,530	141
50	71.0	24,140	138
60	66.6	19,070	134
70	62.0	15,480	129
80	57.3	12,860	123
90	52.2	10,880	116
100	46.8	9,330	108
110	40.9	8,070	97
120	34.1	7,040	84
130	25.8	6,180	66
140	13.4	5,470	38

150' (45.7	m) Boom length		
Radius (Feet)	Boom Angle (Degrees)	Side Frames Extended (Pounds)	From Boom Pt. to Ground (Feet)
28	80.9	36,630 *	154
30	80.2	36,540 *	153
35	78.2	36,070 *	152
40	76.3	32,360	151
50	72.3	23,960	148
60	68.2	18,900	145
70	64.0	15,310	140
80	59.7	12,690	135
90	55.1	10,710	128
100	50.3	9,150	121
110	45.1	7,890	112
120	39.4	6,860	101
130	32.9	6,000	87
140	24.9	5,270	69
150	12.9	4,650	39

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160' (48.8	m) Boom length		
30	80.8	31,770*	163
35	79.0	31,370*	162
40	77.1	30,790*	161
50	73.4	23,800	159
60	69.7	18,750	155
70	65.8	15,150	151
80	61.8	12,530	146
90	57.6	10,550	141
100	53.2	8,990	134
110	48.6	7,730	125
120	43.6	6,690	116
130	38.1	5,830	104
140	31.8	5,100	90
150	24.1	4,480	71
160	12.5	3,950	40

170' (51.8 n	n) Boom length		
31	81.0	27,710*	173
35	79.6	27,340 *	173
40	77.9	26,810*	172
50	74.4	23,610	169
60	70.9	18,580	166
70	67.3	14,980	162
80	63.6	12,360	158
90	59.7	10,360	152
100	55.7	8,800	146
110	51.5	7,540	139
120	47.1	6,510	130
130	42.2	5,650	120
140	36.9	4,920	108
150	30.8	4,290	93
160	23.4	3,750	73
170	12.1	3,290	41

WITH 47HI OFFSET TIP BOOM

58 ,	58,100 lb					
180' (54.9	m) Boom length					
Radius (Feet)	Boom Angle (Degrees)	Side Frames Extended (Pounds)	From Boom Pt. to Ground (Feet)			
33	80.9	24,240 *	183			
35	80.2	24,110 *	183			
40	78.6	23,210 *	182			
50	75.3	20,080 *	180			
60	72.0	18,410	177			
70	68.6	14,800	173			
80	65.1	12,180	169			
90	61.6	10,190	164			
100	57.9	8,630	158			
110	54.0	7,360	151			
120	50.0	6,330	143			
130	45.7	5,460	134			
140	41.0	4,720	123			
150	35.8	4,100	111			
160	29.9	3,550	95			
170	22.7	3,080	75			
180	11.8	2,690	42			

U ·		AIN	131 6 30.5
200' (61.0 m)	Boom length		
	Boom	Side Frames	From Boom Pt.
Radius	Angle	Extended	to Ground
(Feet)	(Degrees)	(Pounds)	(Feet)
36	80.9	16,750*	203
40	79.7	16,230*	202
50	76.8	15,000*	200
60	73.8	13,800 *	198
70	70.8	12,770*	194
80	67.8	11,840	191
90	64.6	9,840	186
100	61.4	8,270	181
110	58.1	7,010	175
120	54.6	5,970	169
130	51.0	5,100	161
140	47.2	4,370	152
150	43.2	3,740	142
160	38.8	3,190	131
170	33.9	2,710	117
180	28.4	2,300	100
190	21.5	1,940	79
200	11.2	1,560 *	44

100! /E7.0 m	. Doom longth		
190' (57.9 m)	Boom length		
35	80.7	19,320*	193
40	79.2	18,660*	192
50	76.1	17,360 *	190
60	73.0	16,110*	187
70	69.8	14,640	184
80	66.5	12,010	180
90	63.2	10,020	175
100	59.8	8,460	170
110	56.2	7,200	163
120	52.5	6,160	156
130	48.5	5,290	148
140	44.4	4,550	138
150	39.8	3,930	127
160	34.8	3,390	114
170	29.1	2,910	98
180	22.1	2,500	77
190	11.5	2,150	43

TEREX AMERICAN

NOTES TO LIFTING CAPACITY

A 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 Bulliten #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.

BOOM HOIST LINE is 14 parts of 5/8 inch diameter EIPS wire rope with a minimum breaking strength of 41,200 pounds. PENDANT SUSPENSION LINE is 2 parts of 1-1/4 inch diameter MONOLAY wire rope with a minimum breaking strength of 172,800 pounds. MAIN LOAD LINE is 7/8 inch diameter EIPS wire rope with a minimum breaking strength of 79,600 pounds.

ERECTION

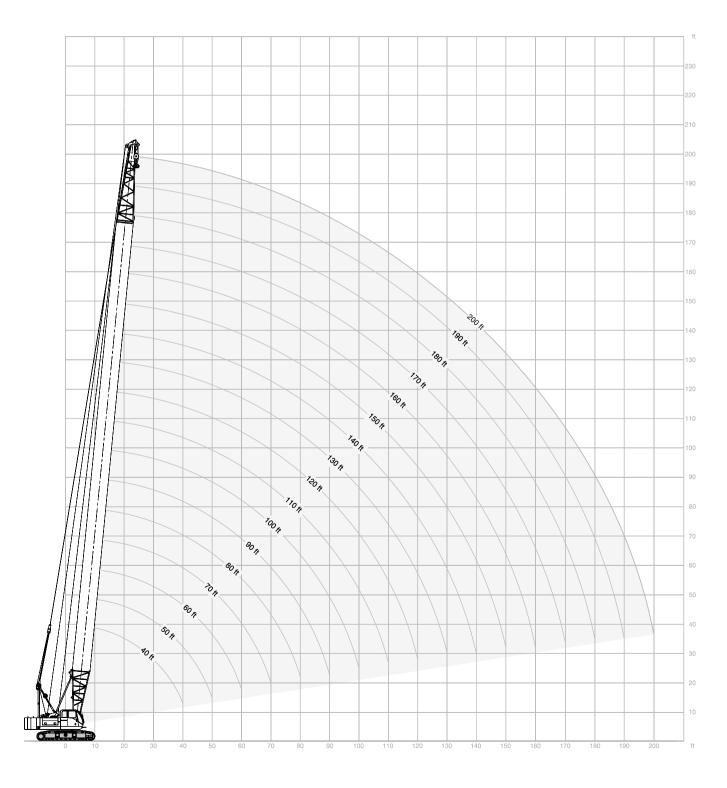
Erection is with the A-Frame fully raised. Erection "OVER THE END" is with the boom over the idler end. Erection "OVER THE SIDE" is with the boom 90°

to the sideframes and with the side frames extended. Blocks, slings and other load carrying devices must be on the ground during erection.

MAXIMUM BOOM & JIB SELF-ERECTION DATA						
	OVER THE END 8	OVER THE END & OVER THE SIDE				
	BOOM JIB LENGTH LENGTH (FEET) (FEET)					
#7HL JIB	200 170	0 60				
#9HL JIB	200 170	0 60				

47HI BOOM COMPOSITION CHART								
			BOOM SECT	TONS				
BOOM LENGTH (FEET)	20' 47HI INNER	47HI 47H 47H 47H 47						
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 1 1 1 1 1 1 1 1 1	0 1 0 1 0 0 1 0 0	0 0 1 0 0 1 0 0 1 0 0	0 0 1 1 1 2 2 2 3 3 3 4 4 4 4 5 5 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

LOAD HOISTING INFORMATION - 7/8 inch diameter EIPS wire rope					
MAXIMUM LIFTING	MINIMUM	MAXIMUM HOISTING DISTANCE - FEET			
CAPACITY - LBS.	PARTS OF LINE	MAIN - (RIGHT)	AUX (LEFT)		
160,000	8	73	73		
159,180	7	84	84		
136,440	6	98	98		
113,700	5	117	117		
90,960	4	147	147		
68,220	3	196	196		
45,480	2	294	294		
22,740	1	588	588		





Radius Angle (Feet) (Degrees) (Pounds) (Feet) (Feet) (Degrees) (Pounds) (Feet) (Feet) (Degrees) (Pounds) (Feet) (Feet) (Degrees) (Pounds) (Feet) (Feet) (Degrees) (Pounds) (Feet) (Feet) (Degrees) (Pounds) (Feet)	58,1	00 lb		3	60°		1A	1SI B 30
Radius Angle (Peet) (Degrees) (Pounds) (Feet) (Feet) (Degrees) (Pounds) (Feet) (Degrees) (Pounds) (Feet) (Feet) (Feet) (Degrees) (Pounds) (Feet) (Feet) (Feet) (Feet) (Degrees) (Pounds) (Feet) (Fee)' (12.2 m)	Boom length			80' (24.4 ı	m) Boom length		
Radius Angle (Peet) (Pounds) (Feet) (Feet) (Degrees) (Pounds) (Feet) (Peet) (Degrees) (Pounds) (Feet) (Peet) (Degrees) (Pounds) (Feet) (Feet) (Degrees) (Pounds) (Feet) (Feet) (Degrees) (Pounds) (Feet) (Feet) (Pounds) (Feet) (Feet) (Pounds) (Feet) (Feet) (Pounds) (Feet) (Feet) (Feet) (Pounds) (Feet) (F		Boom	360 Degree	From Boom Pt.		Boom	Side Frames	From Boom
Feet (Degrees) (Pounds) (Feet) (Feet) (Degrees) (Pounds) (Pou	dius	Angle		to Ground	Radius	Angle	Extended	to Gro
10	eet)		(Pounds)	(Feet)	(Feet)		(Pounds)	(Fe
2 77.9 160,000* 45 5 73.5 141,160 44 0 65.9 87,490 42 0 65.9 87,490 42 0 65.9 87,490 42 0 65.9 87,490 42 0 70.8 48,410 0 65.9 87,490 32 0 48.8 49,030 36 0 24.7 33,650 22 0 24.7 33,650 22 0 24.7 33,650 22 0 70.8 48,410 0 24.7 33,650 22 0 70.8 48,410 0 63.0 33,020 0 24.7 33,650 22 0 70.8 48,410 0 63.0 33,020 0 65.0 24.7 33,650 22 0 70.8 48,410 0 65.0 38,4 40,000 30 0 70.9 87,390 53 0 70.9 87,390 53 0 70.9 87,390 53 0 55.2 48,880 48 0 55.5 12 39,850 44 0 65.5 12 39,850 44 0 65.5 12 39,850 44 0 65.5 12 39,850 44 0 75.5 64.7 62,910 51 0 64.0 43,4 33,490 40 0 22.0 25,180 24 0 22.0 25,180 24 0 79.5 82,260* 24 0 79.5 82,260* 32 0 79.5 82,260* 32 0 79.5 82,260* 32 0 79.5 82,260* 32 0 79.5 82,260* 32 0 79.5 82,260* 32 0 79.5 82,260* 32 0 79.5 82,260* 32 0 79.5 82,260* 32 0 79.5 82,260* 32 0 79.5 82,260* 32 0 79.5 82,260* 32 0 79.5 82,260* 32 0 79.5 82,260* 32 0 79.6 84,440* 32 0 79.5 82,260* 32 0 79.6 84,50* 32 0 79.6 84,50* 32 0 79.6 84,50* 32 0 79.6 84,50* 32 0 79.6 84,50* 32 0 79.6 84,50* 32 0 79.8 84,50* 32 0 79.8 87,490 40 0 79.9 87,300 40 0 79.9 87,300 40 0 79.9 87,300 40 0 79.9 87,300 40 0 79.9 87,300 40 0 79.9 87	· ·	· - ·	. ,	, ,	` ,	· - ·	. ,	1 - 1
5								
0 65.9 87,490 42 30 70.8 48,410 55 57.7 63,040 39 35 66.9 39,400 30 48.8 49,030 36 40 63.0 33,020 50 24.7 33,650 22 57 54.6 24,670 50 76.9 128,430 54 55 34.2 28,790 34 55 34.2 28,790 34 55 53.4.2 28,790 34 55 56.5 34.2 28,790 34 55 56.5 34.2 28,790 34 55 56.5 34.2 28,790 34 55 56.5 34.2 28,790 34 55 56.5 34.2 28,790 34 55 56.5 34.2 28,790 34 55 56.5 34.2 28,790 34 55 56.5 34.2 28,790 34 55 56.5 34.2 28,790 34 55 56.5 34.2 28,790 34 55 56.5 34.2 28,790 34 55 56.5 34.2 28,790 34 55 56.5 34.2 38,850 44 55 56.5 34.2 38,850 44 55 56.5 34.2 38,850 44 55 56.5 34.2 38,850 44 55 56.5 34.2 38,850 44 55 56.5 34.2 38,850 44 55 56.5 34.2 38,850 44 55 56.5 34.2 38,850 44 55 56.5 34.2 38,850 44 55 56.5 34.2 38,850 44 56.5 34.2 34,850 44 56.5 34.2 34,8								
5 5.7.7 63.040 39 35 66.9 39.400 50 0 48.8 49.000 30 46 40 63.0 33.020 50 24.7 33.650 22 50 54.6 24.670 55 50.1 21.870 60 45.2 19.540 65 55.0 69.2 69.910 50 55.5 69.2 62.790 61 64.8 80.1 119.630 65 69.2 62.790 61 64.9 80.1 119.630 65 69.2 62.790 61 64.9 80.1 119.630 65 69.2 62.790 61 64.9 80.1 119.630 65 69.2 62.790 61 65.5 69.2 69.9 69.0 69.0 69.0 69.0 69.0 69.0 69.0								
0								
5								
50								
50		38.4	40,000				28,300	
50 15.2 m Boom length 2 80.4 138,490 * 55 60.4 45.2 19,540 65 76.9 128,430 * 54 70 34.0 15,970 70.9 87,399 53 80 17.4 13,370 75 64.7 62,910 51 65 51.2 39,850 44 65 51.2 239,850 44 65 54.2 28,790 34 20 79,5 82,260 * 22.0 25,180 24 25 76.3 62,300 30 73.0 48,210 35 69.6 39,200 40 66.2 32,810 45 65 69.2 67,90 61 65 47.0 17,390 65 55.2 21,680 60 51.2 19,330 68 65 31.1 22,200 36 46.4 28,630 49 46.4 46.4 28,630 49 46.4 46.		24.7	33,650	22	50	54.6	24,670	
0' (15.2 m) Boom length 60 45.2 19.540 2 80.4 138,490 * 55 5 76.9 128,430 * 54 6 6.7 62.910 51 5 6.4.7 62.910 51 6 51.2 39,850 44 6 34.2 28,790 34 6 34.2 28,790 34 6 22.0 25,180 24 7 22.0 25,180 24 80 117,070* 64 4 80.1 119,630* 65 5 79.1 117,070* 64 4 80.1 119,630* 65 5 79.1 117,070* 64 6 79.9 117,070* 64 6 69.2 62,790 61 6 69.2 62,790 61 6 54.0 48,740 59 55 55.2 <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td>21.870</td> <td></td>			,				21.870	
138,490 * 55 76.9 128,430 * 54 75 34.0 15,970 75 28.9 14,570 75 28.9 79.5 82,260 * * * * * * * * * * * * * * * * * * *) /15 2 m)	Doom longth						
70 34.0 15.970 70.9 87,390 53 6 64.7 62.910 51 6 55.2 48.880 48 6 5 51.2 39.850 44 6 6 34.4 33,490 40 7 6 34.2 28,790 34 7 6 34.0 79.5 82,260* 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8								
75								
17.0 17.0		76.9	128,430*					
1		70.9	87,390	53				
1		64.7	62,910	51	80	17.4	13,370	
5		58.2		48				
1					90' (27.4 ו	m) Boom length		
34.2 28,790 34 20 79.5 82,260*					18	80.8	84 440 *	
22.0 25,180 24 25 76.3 62,300								
0' (18.3 m) Boom length 1 80.1 119,630 * 65 69.6 39,200 6 79.1 117,070 * 64 50 59.0 24,460 6 69.2 62,790 61 65 59.0 24,460 6 69.2 62,790 61 65 55.5 22,1680 6 69.2 62,790 61 65 47.0 17,390 7 52.7 33,340 53 80.7 17,390 75 75 37.5 14,360 6 46.4 28,630 49 85 25.3 12,110 90 16.4 11,200 0' (21.3 m) Boom length 20 20.1 19,860 26 25.5 7.7 62,120 80.7 106,350 * 74 74 74 74 76.5 87,110 73 40 68.7 32,900 42.5 77.7 62,120 80.7 106,550 * 74								
35 69.6 39,200		22.0	23,100	24				
0' (18.3 m) Boom length 40 66.2 32,810 18.0.1 119,630* 65 79.1 117,070* 64 10 74.2 87,280 63 59.0 24,460 50 74.2 87,280 63 60 51.2 19,330 6 69.2 62,790 61 60 51.2 19,330 6 58.5 39,710 57 70 42.5 15,760 5 52.7 33,340 53 80 32.0 13,160 6 46.4 28,630 49 49 45 25.3 12,110 9 39.4 25,020 44 49 45 25.3 12,110 80 31.1 22,200 36 25 77.7 62,120 80.7 106,350* 74 74 74 74 74 74 74 74 74 74 74 74 74 74 74 74								
4 80.1 119,630* 65 79.1 117,070* 64 5 79.1 117,070* 64 5 69.2 87,280 63 6 69.2 62,790 61 6 64.0 48,740 59 6 58.5 39,710 57 70 42.5 15,760 75 37.5 14,360 80 32.0 13,160 80 32.0 13,160 80 32.0 13,160 80 32.0 13,160 80 32.0 13,160 80 32.0 13,160 80 32.0 13,160 80 32.0 13,160 80 32.0 13,160 80 85 25.3 12,110 90 16.4 11,200 100' (30.5 m) Boom length 20 80.6 75,930 * 25 77.7 62,120 30 74.7 48,010 35 71.7 39,020 40 68.7 32,620 4								
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1.00					55	55.2	21.680	
10								
70' (21.3 m) Boom length 70' (21.3 m) Boom length 80.7								
100 52.7 33,340 53 53 54,464 28,630 49 55 37.								
Solution								
Society					-			
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25 77.7 62,120 80.7 106,350* 74 76.5 87,110 73 72.2 62,610 72 67.9 48,550 70 63.4 39,530 68 58.7 33,150 65 58.7 33,150 65 53.8 28,440 62 48.5 24,820 58 42.8 22,000 53 36.4 19,660 47 28.8 17,720 39 18.6 16,100 28			,		100' (30.5	m) Boom length		
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80.7)' /21 3 m)	Room length						-
36.7 100,330 74 76.5 87,110 73 72.2 62,610 72 67.9 48,550 70 63.4 39,530 68 58.7 33,150 65 63.8 28,440 62 64.4 24,820 58 65.6 27,890 60.55.7 19,140 65.5 52.2 17,200 70.48.4 15,570 75.44.5 14,170 80.40.2 12,960 85.35.6 11,910 90.30.3 10,990 95.24.0 10,170	, (21.0 III)		100.050+	7.				-
72.2 62.610 72 67.9 48.550 70 63.4 39.530 68 58.7 33,150 65 53.8 28,440 62 48.5 24,820 58 64.4 19,660 47 28.8 17,720 39 18.6 16,100 28 40 68.7 32,620 45 65.6 27,890 50 62.4 24,260 55 59.1 21,490 60 55.7 19,140 65 52.2 17,200 70 48.4 15,570 75 44.5 14,170 80 40.2 12,960 85 35.6 11,910 90 30.3 10,990 95 24.0 10,170								1
67.9 48,550 70 63.4 39,530 68 58.7 33,150 65 53.8 28,440 62 48.5 24,820 58 42.8 22,000 53 36.4 19,660 47 28.8 17,720 39 18.6 16,100 28 45 65.6 27,890 50 62.4 24,260 55 59.1 21,490 60 55.7 19,140 65 52.2 17,200 70 48.4 15,570 75 44.5 14,170 80 40.2 12,960 85 35.6 11,910 90 30.3 10,990 95 24.0 10,170								
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85 35.6 11,910 90 30.3 10,990 95 24.0 10,170								
90 30.3 10,990 95 24.0 10,170								
95 24.0 10,170		18.6	16,100	28				
95 24.0 10,170								
100 166 0.460					100	15.5		
100 15.5 9,450					100	15.5	9,400	

WITH 46HI ANGLE BOOM, 4 SHEAVE TIP

58,100 lb			360° ANSI B 30.5				
110' (33.5 m)	Boom length			130' (39.6 m) Boom length			
	D	O: -I - F	F D Dt	Daam	0:-1-	F D Dt	

110' (33.5 m)	Boom length		
	Boom	Side Frames	From Boom Pt.
Radius	Angle	Extended	to Ground
(Feet)	(Degrees)	(Pounds)	(Feet)
21	80.9	68,930*	114
25	78.8	61,920	113
30	76.1	47,800	112
35	73.4	38,810	111
40	70.7	32,400	109
45	67.9	27,680	107
50	65.1	24,030	105
55	62.2	21,280	103
60	59.2	18,940	100
65	56.1	16,990	97
70	52.9	15,350	93
75	49.6	13,950	89
80	46.0	12,750	85
85	42.3	11,700	79
90	38.3	10,760	74
95	33.8	9,950	67
100	28.8	9,220	58
105	22.9	8,570	48
110	14.8	7,980	33

120' (36.6 m)	Boom length		
23	80.7	61,380*	124
25	79.7	60,000 *	123
30	77.3	47,630	122
35	74.8	38,640	121
40	72.4	32,230	120
45	69.8	27,500	118
50	67.3	23,850	116
55	64.7	21,120	114
60	62.0	18,760	111
65	59.2	16,820	109
70	56.4	15,180	105
75	53.5	13,780	102
80	50.5	12,570	98
85	47.3	11,520	94
90	44.0	10,590	89
95	40.4	9,770	83
100	36.6	9,040	77
105	32.4	8,380	70
110	27.6	7,790	61
115	21.9	7,260	50
120	14.2	6,780	35

130' (39.6 n	n) Boom length		
Radius (Feet)	Boom Angle (Degrees)	Side Frames Extended (Pounds)	From Boom Pt. to Ground (Feet)
24	81.0	55,570 *	134
25	80.6	55,210 *	134
30	78.3	47,410	133
35	76.0	38,430	132
40	73.8	32,020	130
45	71.4	27,280	129
50	69.1	23,630	127
55	66.7	20,900	125
60	64.3	18,560	123
65	61.8	16,610	120
70	59.3	14,960	117
75	56.7	13,570	114
80	54.0	12,350	111
85	51.3	11,300	107
90	48.4	10,370	103
95	45.3	9,550	98
100	42.2	8,820	93
105	38.8	8,160	87
110	35.1	7,570	80
115	31.1	7,030	72
120	26.5	6,540	63
125	21.0	6,100	52
130	13.6	5,700	36

140' (42.7 m)	Boom length		
26	80.8	49,960*	144
30	79.2	47,210	143
35	77.1	38,230	142
40	74.9	31,810	141
45	72.8	27,070	139
50	70.7	23,420	138
55	68.5	20,710	136
60	66.3	18,350	134
65	64.0	16,400	131
70	61.7	14,760	129
75	59.4	13,360	126
80	57.0	12,140	123
85	54.5	11,090	119
90	51.9	10,170	116
95	49.3	9,340	111
100	46.5	8,610	107
105	43.6	7,940	102
110	40.6	7,350	96
115	37.3	6,820	90
120	33.8	6,330	83
125	29.9	5,880	75
130	25.5	5,480	66
135	20.2	5,100	54
140	13.1	4,760	37



WITH 46HI ANGLE BOOM, 4 SHEAVE TIP

58,1	100 lb			360°
150' (45.7 ו	m) Boom length			10
Radius (Feet)	Boom Angle (Degrees)	Side Frames Extended (Pounds)	From Boom Pt. to Ground (Feet)	Ra (Fe
28	80.7	43,920 *	153	3
30	79.9	43,170 *	153	
35	77.9	38,020	152	3
40	76.0	31,590	151	
45	74.0	26,850	150	5
50	72.0	23,190	148	
55	70.0	20,490	146	5
60	67.9	18,130	144	6
65	65.9	16,190	142	6
70	63.8	14,540	140	7
75	61.6	13,130	137	
80	59.4	11,930	135	8
85	57.2	10,870	131	
90	54.8	9,940	128	9
95	52.5	9,110	124	
100	50.0	8,380	120	10
105	47.5	7,720	116	
110	44.8	7,130	111	11
115	42.1	6,590	106	11
120	39.1	6,100	100	12
125	36.0	5,650	94	
130	32.6	5,240	86	13
	28.9	4,860	78	13
140	24.6	4,510	68	14
145	19.5	4,190	56	14
150	12.7	3,900	38	15

160' (48.8	m) Boom length		
	Boom	Side Frames	From Boom Pt.
Radius	Angle	Extended	to Ground
(Feet)	(Degrees)	(Pounds)	(Feet)
29	80.9	39,530*	163
30	80.5	39,370*	163
35	78.7	37,830	162
40	76.9	31,410	161
45	75.0	26,650	160
50	73.2	22,990	159
55	71.3	20,310	157
60	69.4	17,950	155
65	67.4	16,000	153
70	65.5	14,350	151
75	63.5	12,950	149
80	61.5	11,730	146
85	59.4	10,680	143
90	57.3	9,750	140
95	55.2	8,920	137
100	53.0	8,190	133
105	50.7	7,530	129
110	48.3	6,930	125
115	45.9	6,390	120
120	43.3	5,900	115
125	40.7	5,450	110
130	37.8	5,040	104
135	34.8	4,660	97
140	31.5	4,310	89
145	27.9	3,990	80
150	23.8	3,690	70
155	18.9	3,420	57
160	12.3	3,160	39

ANSI B 30.5

NOTES TO LIFTING CAPACITY

A 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 Bulliten #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.

BOOM HOIST LINE - 14 parts of 5/8 inch diameter EIPS wire rope with a minimum breaking strength of 41,200 pounds.

PENDANT SUSPENSION LINE - 2 parts of 1-1/4 inch diameter MONOLAY wire rope with a minimum breaking strength of 172,800 pounds.

MAIN LOAD LINE - 7/8 inch diameter EIPS wire rope with a minimum breaking strength of 79,600 pounds.

ERECTION

Erection is with the A-Frame fully raised. Erection "OVER THE END" is with the boom over the idler end. Erection "OVER-THE-SIDE" is with the boom 90° to the sideframes and with the side frames extended. Blocks,

slings and other load carrying devices must be on the ground during erection.

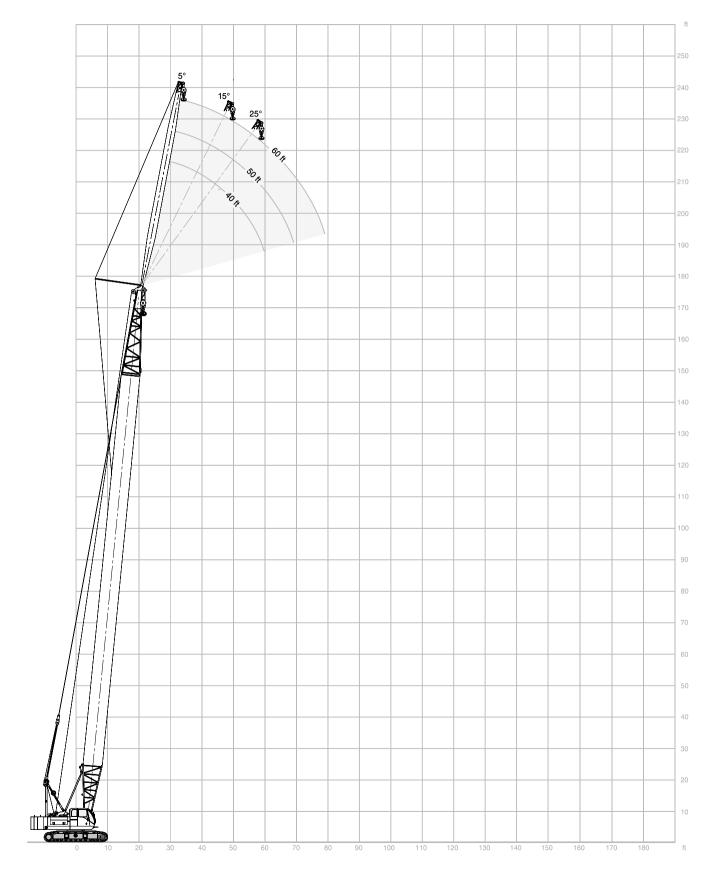
ı	BOOM COMPOSITION CHART - 46HI BOOM										
Ī			BOOM SECTIONS								
	BOOM LENGTH (FEET)	20' 46HI INNER	5' 46HR CENTER	10' 46HR CENTER	20' 46HR CENTER	40' 46HR CENTER	20' 46HR or 46HI OUTER				
	40 45 55 56 66 76 75 88 56 95 120 120 120 120 120 120 120 120 120 120		0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	00110000	0 0 0 1 1 1 0 0 0 1 1 1 0 0	000000000111111112222222222222222222222					

MAXIMUM BOOM & JIB SELF-ERECTION DATA - 46HI BOOM					
JIB	OVER-THE-END & OVER-THE-SIDE				
	BOOM LENGTH (FEET)	JIB LENGTH (FEET)			
#9	160	50			

LOAD HOISTING INFORMATION - 7/8 inch diameter EIPS wire rope						
MAXIMUM LIFTING	MINIMUM	MAXIMUM HOISTING DISTANCE - FEET				
CAPACITY - LBS.	PARTS OF LINE	MAIN - (RIGHT)	AUX (LEFT)			
160,000 159,180 136,440 113,700 90,960 68,220 45,480 22,740	8 7 6 5 4 3 2 1	73 84 98 117 147 196 294 588	73 84 98 117 147 196 294 588			



RANGE DIAGRAM, 47HI BOOM, #9HL JIB



WITH 47HI BOOM, #9HL JIB ANSI B 30.5 **■ 58,100 lb** 360° 40' (12.2 m) Jib length 5.0 Deg offset 15.0 Dea offset 25.0 Dea offset Jib 5.0 Deg offset 15.0 Dea offset 25.0 Dea offset .lih Radius Radius Boom Boom Rating Boom Rating Boom Rating Boom Boom Rating Boom Rating Boom Rating lenath (Feet) Angle (Pounds) Angle (Pounds) Angle (Pounds) lenath (Feet) Angle (Pounds) Angle (Pounds) Angle (Pounds) 80.7 22,550* 80.8 20,590* 30 36 78.6 22,550* 40 79.5 20,210* 35 20.980* 13,890* 40 76.5 22,190* 79.2 50 19,260* 78.4 17.060* 80.4 76.3 50 72.2 21,500* 74.9 20,440* 77.5 19,540* 60 73.0 18,250* 75.1 16,430* 77.0 13,6003 19,100* 70 13,2407 100 60 67.9 19,650 70.5 73.0 140' 69.6 15,280 71 7 15,280 19,650 73.6 (30.5 m) (42.7 m) 70 63.4 16,060 66.0 16,070 68.4 16,070 80 66.2 12,680 68.2 12,680 70.1 12,680 13,460 10,700 80 61.2 13,460 63.6 13,470 90 62.6 64 7 10,700 66.5 10,700 58.7 90 53.7 11,490 56.2 11,490 58.4 11,500 100 59.0 9,140 61.0 9,150 62.7 9,150 100 48.4 9,950 50.8 9,950 52.9 9,950 110 55.1 7.890 57.1 7.900 58.8 7,900 54.7 6,870 120 51.1 6,860 53.1 6,870 130 46.9 6.010 48.8 6.010 50.3 6.010 80.9 31 22,5303 140 42.3 5,280 45.5 5,280 44.1 5,290 35 79.3 22,530* 22,390* 40 77.4 79.9 21,090* 37 81.0 17,400* 50 73.5 21,670* 20,540* 78.3 19,630* 40 80.1 17,190* 76.0 19,440 50 16,300* 79.0 14.440* 80.9 11.750* 110' 60 69.4 71.9 19,440 74.2 19,190* 77.0 (33.5 m) 15,370* 75.9 13,860* 77.7 70 65.3 15,860 67.7 15,860 70.0 15,860 60 73.9 11,470* 11,070* 13,270 13,220* 80 61.0 13,270 65.6 13,270 70 70.7 14,480* 72.7 74.5 63.4 90 56.5 11,290 58.9 11,290 61.0 11,290 80 67.5 12,480 69.4 12,480 71.2 10,5803 100 51.7 9,740 54.1 9,740 56 1 9.740 150' 90 64.2 10,500 66 1 10.500 67.8 10.060* (45.7 m) 8,490 8,950 110 46.6 48.9 8,490 50.8 8,490 100 60.8 8,950 62.7 64.4 8,950 110 57.2 7,700 59.1 7,700 60.7 7,700 80.7 22,5203 33 120 53.5 6,670 55.4 6,670 57.0 6,670 35 80.0 22,520* 130 49.7 5.810 51.5 5.810 53.0 5,810 47.3 40 78.2 22,500* 80.6 21,150* 140 45.5 5,080 48.7 5,090 5,080 79.1 75.3 4,460 4,460 50 21,850* 19,480* 4,460 44.1 74.5 76.9 20,630* 150 41.1 42.8 60 120' 70.8 19,240 73.1 19,240 19,240 (36.6 m) 70 66.9 15,660 69.2 15,660 15,670 71.4 80 13,060 13,060 39 80.9 14,750* 62.9 65.2 67.3 13,060 90 58.8 11,080 61.1 11,080 63.1 11,080 40 80.6 14,670* 100 54.5 9,530 9,530 9,530 50 77.7 13,800* 79.6 12,290* 56.7 58.7 8,280 12,930* 76.6 110 49.9 8,280 52.1 8,280 53.9 60 74.7 11,740* 78.4 9,670* 7,250 11,100* 75.3 120 45.0 47.1 7,260 48.8 7,260 70 71.7 12,130* 73.6 9,260 11,330* 70.5 10,480* 72.2 80 68.7 8,8003 9.820* 69.1 160' 90 65.6 10,310 67.4 8.290* (48.8 m) 80.9 7,810* 34 22,500* 100 62.4 8,760 8,760 64.2 65.8 35 80.6 22,500* 110 59.1 7,510 60.9 7,510 62.4 7,320

120

130 52.1

140

150

160

55.6

48.3

44.3

40.0

6,480

5,620

4,890

4,270

3,720

57.4

53.8

50.0

46.0

41.6

6,480

5,620

4,890

4,270

3,720

58.9

55.3

51.4

47.3

42.8

6,480

5,620

4,900

4,270

3,730

40 78.9

50

60

70 68.3

80 64.7

90 60.9

100

110 52.7

120

130

130'

(39.6 m)

75.4

71.9

56.9

48.3

43.6

22,500*

19,060

15,480

12,870

10,900

9,350

8,100

7,070

6,220

22,020* 77.7

74.1

70.5

66.8

63.0

59.0

54.8

50.4

45.5

79.8

76.2

72.5

68.8

64.9

60.8

56.6

52.0

47.1

20,170*

19,060

15,480

12,880

10,900

9,350

8,100

7,080

6,220

16,440*

16,240*

15,480

12,880

10,910

9,360

8,110

7,080

6,220



15,410* 80.3

14,500* 77.3

74.3

71.3

68.1

64 9

61.6

58.1

54.5

50.7

46.7

13,690*

12,520

10,530

8,980

7,730

6.700

5,840

5,110

4,490

77.9

62.6

59.3

55.9

52.3

48.5

60 75.0

70 72.0

80 68.9

90 65.8

100

110

120

130

140

150 44.5

150'

18

(45.7 m)

13,300*

12,800*

12,280*

11,690*

10,540

8,980

7,730

6.700

5,840

5,110

4,490

79.6

76.5

73.4

70.2

67.0

63.6

60.1

56.4

52.5

48.4

10.310*

10,040*

9,660*

9,270*

8,810

7,730

6.700

5,850

5,120

4,490

WITH 47HI BOOM, #9HL JIB ANSI B 30.5 58,100 lb 360° 50' (15.2 m) Jib length 25.0 Deg offset 5.0 Deg offset 15.0 Deg offset 25.0 Dea offset Jib 5.0 Deg offset 15.0 Dea offset .lib Radius Boom Radius Boom Rating Boom Rating Boom Rating Boom Boom Rating Boom Rating Boom Rating (Pounds) lenath (Feet) Angle (Pounds) Angle Angle (Pounds) lenath (Feet) Angle (Pounds) Angle (Pounds) Angle (Pounds) 21,570* 13,810* 80.8 37 41 81.0 79.8 21,570* 13,090* 80.8 11,330* 40 50 78.5 12,280* 78.0 8.710* 60 10,860* 80.1 50 76.5 21,210* 79.2 18,370* 75.7 60 73.2 19,110 17,960* 78.3 14,430* 70 72.9 11,490* 75.1 10,330* 77.2 8,4203 75.9 10,770* 72.2 9,800* 14.230* 130' 70 69.9 15,520 72 5 15,520 74.9 80 70.0 74.3 8,050* 9,220* 71.3 (39.6 m) 10,080* 69.2 80 66.4 12,920 69.0 12,920 71.4 12,920 90 67.0 7,660* 8,680* 90 62.9 10,940 10,940 10,940 160 100 64.0 8,790 66.2 68.2 7,240* 65.5 67.8 (48.8 m) 100 59.2 9,380 61.8 9,390 64.0 9,390 110 60.9 7,540 63.1 7,540 65.0 6,830 110 55.4 8,130 57.9 8,140 60 1 8,140 120 57.7 6,510 59.9 6,510 61.8 6.410* 120 51.4 7,100 53.8 7,110 55.9 7,110 130 54.4 5,650 56.5 5,650 58.4 5,660 130 47.1 6,250 49.5 6,250 51.5 6,250 140 50.9 4,920 53.0 4,920 54.8 4,930 150 47.3 4,300 49.3 4,300 51.0 4,300 43.4 3,760 47.0 160 3,760 45.4 3,770 80.9 38 19,020* 40 80.3 19,010* 18,100* 79.8 50 77.3 15,5903 43 80.9 11,660* 17,210* 76.6 60 74.2 15,150* 79.0 12,140* 50 79.0 11,130* 140' 70 71.0 15,330 14,540* 75.8 11,930* 60 76.4 10,340* 78.5 9.190* 80.6 7.380* 73.5 (42.7 m) 9,620* 75.8 80 67.8 12,720 70.2 12,720 72.5 11,5703 70 73.7 8,650* 77.8 7,040* 8,940* 73.1 8,150* 75.0 90 64.4 10,740 66.9 10,740 69 1 10,740 80 70.9 6.670* 8,300* 70.3 7,600* 72.2 100 61.0 9,190 63.4 9,190 65.6 9,190 90 68.1 6,290* 110 7,710* 67.4 7,120* 57.5 7,940 59.9 7,940 62.0 7,940 170' 100 65.3 69.3 5.870* (51.8 m) 6,600* 7,120* 64.4 120 53.8 6,910 56.1 6,910 58.2 6,910 110 62.4 66.3 5,480* 6,050 6,150* 130 49.9 6.050 52.2 54.2 6.050 120 59.4 6.310 61.4 63.2 5.090* 140 45.8 48.0 5,310 49.9 5,320 5,460 4,690* 5,310 130 56.3 5,450 58.3 60.1 4,310 140 53.0 4,720 55.1 4,730 56.8 80.8 40 16,220* 150 49.7 51.6 4,100 53.3 3,920* 4,100

46.1

42.3

160

170

3,550

3,070

48.1

44.2

3,550

3,080

49.6

45.7

3,540*

3,080

HC 80

WITH 47HI BOOM, #9HL JIB 58.100.lb

<u></u> 58,100 ID	30U ⁻	ANSI B 30.5
COL (40.0 ms). It'le Ismooth		

	30,100 lb						
60' (18.3	m) Jib	length					
	Jib	5.0 D	.0 Deg offset 15.0 Deg		Dea offset	25.0 [Deg offset
Boom	Radius	Boom	Rating	Boom	Rating	Boom	Rating
length	(Feet)	Angle	(Pounds)	Angle	(Pounds)	Angle	(Pounds)
	42	80.9	15,150*	-	-	-	-
	50	78.7	14,500*	-	-	-	-
	60	75.9	13,720*	78.7	11,780*	-	-
	70	73.1	12,920*	75.8	11,350*	78.3	8,990*
150'	80	70.2	12,170*	72.9	10,860*	75.4	8,750*
(45.7 m)	90	67.3	10,580	69.9	10,340*	72.4	8,460*
	100	64.3	9,010	66.9	9,020	69.3	8,120*
	110	61.2	7,760	63.8	7,760	66.1	7,740*
	120	58.0	6,730	60.6	6,730	62.9	6,740
	130	54.6	5,870	57.2	5,870	59.4	5,880
	140	51.2	5,140	53.7	5,150	55.9	5,150
	150	47.5	4,520	50.0	4,520	52.1	4,520
	44	80.8	12,820*	-	-	-	-
	50	79.3	12,400*	-	-	-	-
	60	76.6	11,610*	79.2	10,040*	-	-
	70	73.9	10,890*	76.5	9,560*	78.9	7,600*
	80	71.1	10,220*	73.7	9,090*	76.1	7,340*
	90	68.4	9,570*	70.9	8,630*	73.3	7,020*
160'	100	65.5	8,830	68.0	8,130*	70.4	6,680*
(48.8 m)	110	62.6	7,580	65.1	7,580	67.4	6,310*
	120	59.6	6,540	62.1	6,550	64.3	5,960*
	130	56.5	5,680	58.9	5,690	61.1	5,600*
	140	53.3	4,950	55.7	4,960	57.8	4,960
	150	49.9	4,330	52.3	4,330	54.3	4,330
	160	46.3	3,790	48.7	3,790	50.6	3,800

	Jib		eg offset		Deg offset		Deg offset
Boom	Radius	Boom	Rating	Boom	Rating	Boom	Rating
length	(Feet)	Angle	(Pounds)	Angle	(Pounds)	Angle	(Pounds)
	45	81.0	10,920*	-	-	-	-
	50	79.7	10,520*	-	-	-	-
	60	77.2	9,830*	79.7	8,510*	-	-
	70	74.6	9,130*	77.1	8,060*	79.4	6,380*
	80	72.0	8,500*	74.5	7,580*	76.8	6,110*
	90	69.4	7,880*	71.8	7,140*	74.1	5,780*
170'	100	66.6	7,300*	69.1	6,660*	71.3	5,440*
(51.8 m)	110	63.9	6,780*	66.3	6,210*	68.5	5,090*
	120	61.1	6,270*	63.4	5,780*	65.6	4,740*
	130	58.1	5,490	60.5	5,370*	62.6	4,390*
	140	55.1	4,750	57.5	4,700	59.5	4,060*
	150	52.0	4,130	54.3	4,130	56.3	3,710*
	160	48.7	3,580	51.0	3,580	52.9	3,380*
	170	45.2	3,100	47.5	3,110	49.3	3,040*

NOTES TO LIFTING CAPACITY

A 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 Bulliten #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.

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.

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.

BOOM HOIST LINE is 14 parts of 5/8 inch diameter EIPS wire rope with a minimum breaking strength of 41,200 pounds. PENDANT SUSPENSION LINE is 2 parts of 1-1/4 inch diameter MONOLAY wire rope with a minimum breaking strength of 172,800 pounds. WHIP LINE is 7/8 inch diameter EIPS wire rope with a minimum breaking strength of 79,600 pounds.

ERECTION

Erection is with the A-Frame fully raised. Erection "OVER THE END" is with the boom over the idler end. Erection "OVER THE SIDE" is with the boom 90° to the sideframes and with the side frames extended. Blocks, slings and other load carrying devices must be on the ground during erection.

	BOOM SECTIONS						
BOOM LENGTH (FEET)	20' 47HI INNER	10' 47H CENTER	20' 47H CENTER	30' 47H CENTER	20' 47H or 47HI OUTER		
40	1	0	0	0	1		
50	1	1	0	0	1		
60	1	0	1	0	1		
70	1	0	0	1	1		
80	1	1	0	1	1		
90	1	0	1	1	1		
100	1	0	0	2	1		
110	1	1	0	2 2 2 3	1		
120	1	0	1 1	2	1		
130	1	0	0		1		
140	1	1	0	3	1		
150	1	0	1	3	1		
160	1	0	0	4	1		
170	1	1	0	4	1		

47HI BOOM COMPOSITION CHART

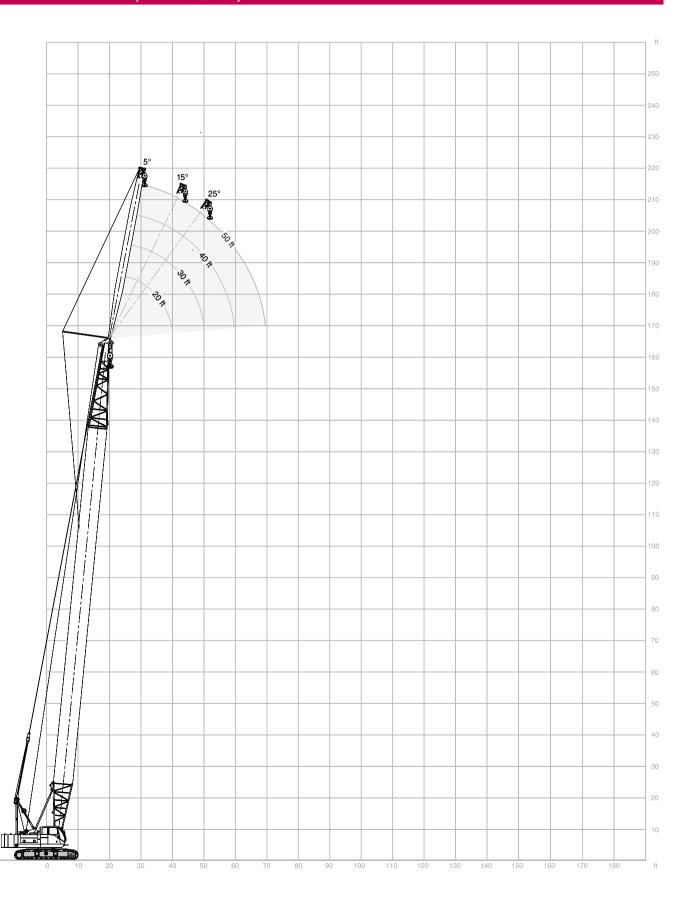
MAXIMUM	BOOM & JIB SELF-E	RECTION DATA							
	OVER THE END & OVER THE SIDE								
	BOOM LENGTH (FEET)	JIB LENGTH (FEET)							
#9HL JIB	200 170	0 60							

LOA	D HOISTING INFO	RMATION - 7/8" EIPS	ROPE								
MAXIMUM LIFTING	MINIMUM	MAXIMUM HOISTIN	G DISTANCE - FEET								
CAPACITY - LBS.	PARTS OF LINE	MAIN - (RIGHT)	AUX (LEFT)								
22,550											

	#9HL JIB COMPOSITION CHART												
JIB LENGTH	20'	10'	20'	20'	EFF. JIB WEIGHT		IB OFFSE A" IN FEE						
(FEET)	INNER	CENTER	CENTE R	OUTER	(POUNDS)	5°	15°	25°					
40 50 60	1 1 1	0 1 0	0 0 1	1 1 1	1,850 2.350 2,750	4.75' 5.50' 6.08'	9.75' 11.66' 13.50'	14.66' 17.83' 20.75'					

Note: The #9HL jib mounted on a 47Hl outer requires the use of a 47Hl /#9HL jib adaptor. Refer to the HC 80 Operators Manual for additional information.

RANGE DIAGRAM, 46HI BOOM, #9 ANGLE JIB





=== 58	3,100 II	b					3	60°					AN	SI B	30.5
20' (6.1 r	n) Jib l	ength													
,	Jib		eg offset	1500	Deg offset	25.01	Deg offset		1:1-			1501)	05.0.5)
Boom	Radius	Boom	Rating	Boom	Rating	Boom	Rating	Doom	Jib		eg offset		Deg offset		Deg offse
length	(Feet)	Angle	(Pounds)		(Pounds)	Angle	(Pounds)	Boom	Radius	Boom	Rating	Boom	Rating	Boom	Rati
iongui			. ,		(i danad)		(i duitad)	length	(Feet)	Angle	(Pounds)	Angle	(Pounds)	Angle	(Pound
	17	80.7	18,250*	-	-	-	-		26	81.0	18,250*	-	-	-	-
	20	78.2	18,250*		18,250*	-	-		30	79.2	18,250*	80.7	18,250*	-	-
50'	25	74.1	18,250*	76.7	18,250*	79.2	18,250*		35	77.0	18,250*	78.4	18,250*	79.8	18,25
(15.2 m)	30	69.8	18,250*	72.5	18,250*	74.9	18,250*		40	74.7	18,250*	76.2	18,250*	77.5	18,25
	35	65.5	18,250*	68.1	18,250*	70.5	18,250*	110'	50	70.2	18,250*	71.6	18,250*	72.9	18,25
	40	60.9	18,250*	63.5	18,250*	65.8	18,250*	(33.5 m)	60	65.4	18,250*	66.8	18,250*	68.1	18,25
	50	51.1	18,250*	53.6	18,250*	55.7	18,250*	(00:0 :::)	70	60.5	15,100	61.9	15,100	63.1	15,10
			10,200		,		10,200								
									80	55.3	12,500	56.7	12,500	57.8	12,50
	19	80.4	18,250*	-		-			90	49.8	10,520	51.1	10,520	52.2	10,52
				-	-	-	-		100	43.7	8,960	45.0	8,970	46.0	8,97
201	20	79.7	18,250*	70.4	10.050*	- 00.0	10.050*		110	36.9	7,720	38.1	7,720	38.9	7,72
60'	25	76.1	18,250*	78.4	18,250*	80.6	18,250*								
(18.3 m)	30	72.4	18,250*		18,250*		18,250*								
	35	68.7	18,250*	71.0	18,250*	73.1	18,250*		28	80.8	18,250*	-	-	-	-
	40	64.8	18,250*	67.1	18,250*		18,250*		30	80.0	18,250*	-	-	-	-
	50	56.7	18,250*	58.9	18,250*	60.8	18,250*		35	77.9	18,250*	79.3	18,250*	80.5	18,25
	60	47.6	18,250*	49.7	18,250*		18,250*		40	75.8	18,250*	77.2	18,250*	78.4	18,25
			10,200		,		10,200	100	50	71.6	18,250*	72.9	18,250*	74.1	
	20	80.8	18,250*	-	-	-	-	120' (36.6 m)							18,25
	25	77.6	18,250*	79.7	18,250*	_	_	(30.0 111)	60	67.3	18,250*	68.6	18,250*	69.7	18,25
70'	30	74.4	18,250*	76.5	18,250*		18,250*		70	62.8	14,890	64.1	14,890	65.2	14,90
(21.3 m)									80	58.1	12,290	59.4	12,290	60.4	12,29
(21.3 111)	35	71.1	18,250*		18,250*	75.1	18,250*		90	53.2	10,310	54.4	10,310	55.4	10,31
	40	67.7	18,250*	69.8	18,250*	71.6	18,250*		100	47.9	8,750	49.1	8,750	50.0	8,76
	50	60.7	18,250*	62.7	18,250*		18,250*		110	42.1	7,510	43.2	7,510	44.1	7,51
	60	53.2	18,250*	55.1	18,250*	56.8	18,250*		120	35.5	6,490	36.6	6,490	37.3	6,49
	70	44.7	16,020	46.6	16,020	48.1	16,020		_		,		-,		-, -
									30	80.7	18,250*	-	-	-	-
	22	80.6	18,250*	-	-	-	-		35	78.7	18,250*	80.0	18,250*	_	_
	25	78.9	18,250*	80.8	18,250*	-	-		40	76.8	18,250*	78.0	18,250*	79.2	18,25
	30	76.0	18,250*	77.8	18,250*	79.6	18,250*		50	72.9	18,250*	74.1	18,250*	75.2	18,25
	35	73.0	18,250*	74.9	18,250*	76.6	18,250*								
80'	40	70.0	18,250*	71.9	18,250*	73.6	18,000*		60	68.9	18,250*	70.1	18,250*	71.2	18,25
(24.4 m)	50	63.9	18,250*	65.7	18,250*	67.3	18,250*		70	64.7	14,660	65.9	14,660	67.0	14,66
(27.7 111)								130'	80	60.4	12,060	61.6	12,060	62.7	12,06
	60	57.3	18,250*	59.1	18,250*	60.6	18,250*	(39.6 m)	90	56.0	10,070	57.1	10,080	58.1	10,08
	70	50.3	15,820	52.0	15,820	53.4	15,820		100	51.2	8,520	52.4	8,520	53.3	8,52
	80	42.3	13,220	44.0	13,220	45.2	13,220		110	46.1	7,270	47.3	7,270	48.1	7,27
									120	40.6	6,230	41.6	6,230	42.4	6,24
									130	34.3	5,380	35.3	5,380	35.9	5,39
	23	80.9	18,250*	-	-	-	-			00	0,000	00.0	0,000	00.0	0,00
	25	79.9	18,250*	-	-	-	-								
	30	77.2	18,250*	79.0	18,250*	80.6	18,250*								
	35	74.6	18,250*		18,250*	77.9	18,250*		31	80.9	18,250*	-		_	
90'	40	71.9	18,250*	73.6	18,250*	75.1	18,250*				10,200		10.050*	-	
(27.4 m)	50	66.4	18,250*	68.0	18,250*	60.5	18,250*		35	79.4	18,250*		18,250*	70.0	- 10.05
(= r . - r . 111)			10,200	60.0	10,200	62.6			40	77.6	18,250*		18,250*		18,25
	60	60.6	18,250*		18,250*		18,250*		50	74.0	18,250*	75.1	18,250*		18,25
	70	54.5	15,570	56.0	15,570	57.4	15,580		60	70.2	18,030	71.4	18,030	72.4	18,03
	80	47.8	12,980	49.3	12,980	50.6	12,980		70	66.4	14,430	67.5	14,430	68.5	14,43
	90	40.3	11,000	41.7	11,000	42.8	11,000	140'	80	62.4	11,820	63.6	11,820	64.5	11,82
								(42.7 m)	90	58.3	9,840	59.4	9,840	60.4	9,84
	25	80.7	18,250*	-	-	-	-		100	54.0	8,290	55.1	8,290	56.0	8,29
	30	78.3	18,250*	79.9	18,250*	-	-		110	49.5	7,030	50.6	7,030	51.4	7,03
	35	75.9	18,250*		18,250*	78.9	18,250*		120	44.6	6,000	45.6	6,000	46.4	6,01
	40	73.4	18,250*		18,250*		18,250*								
100'	50	68.4	18,250*		18,250*		18,250*		130	39.2	5,150	40.2	5,150	40.9	5,15
(30.5 m)	60	63.2	18,250*	64.7	18,250*	66 1	18,250*		140	33.1	4,420	34.1	4,420	34.6	4,42
COIO III)															
	70	57.8	15,350	59.3	15,350	60.5	15,350								
	80	52.0	12,740	53.4	12,740	54.6	12,740								
	90	45.6	10,760	47.0	10,760	48.1	10,760								
	100	38.5	9,220	39.8	9,220	40.7	9,220								

WITH 46HI BOOM, #9 ANGLE JIB

				_		_		_	_	_	_	_	_		_	_
5	8,100 l	b						360	0°					AN	SI B	30.5
20' (6.1	m) Jib l	ength														
Boom length	Jib Radius (Feet)	5.0 D Boom Angle	eg offset Rating (Pounds)	15.0 E Boom Angle	Deg offset Rating (Pounds)	25.0 E Boom Angle	Deg offset Rating (Pounds)		Boom length	Jib Radius (Feet)	5.0 D Boom Angle	eg offset Rating (Pounds)	15.0 Boom Angle	Deg offset Rating (Pounds)	25.0 E Boom Angle	Deg offset Rating (Pounds)
	33 35	80.7 80.1	18,250* 18,250*	-	-	-	-			34 35	80.9 80.6	18,250* 18,250*	-	-	-	-
	40 50	78.4 74.9	18,250* 18,250*	79.5 76.0	18,250* 18,250*	80.5 77.0	18,250* 18,250*			40 50	79.0 75.8	18,250* 18,250*	80.1 76.8	18,250* 18,250*	- 77.8	- 16,580*
	60 70	71.4 67.8	17,790 14,200	72.5 68.9	17,790 14,200	73.5 69.9	17,790 14,200			60 70	72.5 69.1	17,580 13,990	73.5 70.2	17,580 13,990	74.5 71.1	15,770* 13,990
150' (45.7 m)	80 90	64.2 60.4	11,580 9,600	65.2 61.4	11,580 9,600	66.2 62.3	11,590 9,600		160' (48.8 m)	80 90	65.7 62.2	11,380 9,390	66.7 63.2	11,380 9,400	67.6 64.0	11,380 9,400
	100 110	56.4 52.3	8,040 6,790	57.5 53.3	8,040 6,790	58.3 54.1	8,040 6,790			100 110	58.5 54.7	7,830 6,580	59.5 55.7	7,830 6,580	60.3 56.5	7,840 6,590
	120 130	47.9 43.2	5,760 4,900	48.9 44.2	5,760 4,900	49.7 44.9	5,770 4,900			120 130	50.7 46.5	5,540 4,690	51.7 47.4	5,540 4,690	52.4 48.1	5,550 4,690
	140 150	38.0 32.1	4,170 3,550	38.9 33.0	4,170 3,560	39.6 33.5	4,180 3,560			140 150	41.9 36.9	3,950 3,330	42.8 37.8	3,950 3,330	43.5 38.3	3,950 3,330
										160	31.2	2,790	32.0	2,790	32.4	2,790

	Jib	5.0 D	eg offset	15.0 D	eq offset	25.0 E	eq offset
Boom	Radius	Boom	Rating	Boom	Rating	Boom	Rating
length	(Feet)	Angle	(Pounds)	Angle	(Pounds)	Angle	(Pounds)
	24	80.8	18,250*	-	-	-	-
	25	80.3	18,250*	-	-	-	-
	30	77.7	18,250*	80.3	18,250*	-	-
	35	75.0	18,250*	77.6	18,250*	80.0	18,250
80'	40	72.3	18,250*	74.9	18,250*	77.3	18,250
(24.4 m)	50	66.8	18,250*	69.3	18,250*	71.6	18,2503
	60	61.0	18,250*	63.5	18,250*	65.7	18,250
	70	54.9	15,910	57.3	15,920	59.4	15,920
	80	48.2	13,320	50.6	13,320	52.5	13,320
		20.0	10.050*				
	26	80.6	18,250*	-	-	-	-
	30	78.7	18,250*	- 70.7	10.050*	-	- 10.0507
	35	76.3	18,250*	78.7	18,250*	80.9	18,250
90'	40	73.8	18,250*	76.2	18,250*	78.4	18,250
90' (27.4 m)	50 60	68.8 63.6	18,250* 18,250*	71.2 65.9	18,250* 18,250*	73.3 68.0	18,250
(27.7111)	70	58.2	15,670	60.4	15,670	62.4	18,250° 15,670
	80	52.4	13,070	54.6	13,060	56.4	13,060
	90	46.0	11,080	48.1	11,080	49.9	11,080
	30	40.0	11,000	40.1	11,000	40.0	11,000
	27	80.9	18,250*	-	-	-	
	30	79.6	18,250*	_	_	_	-
	35	77.4	18,250*	79.5	18,250*	-	-
	40	75.1	18,250*	77.3	18,250*	79.3	18,2503
100'	50	70.5	18,250*	72.7	18,250*	74.7	18,250
(30.5 m)	60	65.8	18,250*	67.9	18,250*	69.8	18,250
	70	60.9	15,430	63.0	15,430	64.8	15,430
	80	55.7	12,820	57.7	12,820	59.5	12,820
	90	50.2	10,840	52.2	10,840	53.8	10,840
	100	44.1	9,290	46.0	9,300	47.6	9,300

Boom length	Jib Radius (Feet)	5.0 D Boom Angle	eg offset Rating (Pounds)	15.0 E Boom Angle	Deg offset Rating (Pounds)	25.0 E Boom Angle	Deg offset Rating (Pounds)
	29	80.7	18,250*	-	-	-	-
	30	80.3	18,250*	-	-	-	-
	35	78.3	18,250*	80.3	18,250*	-	-
	40	76.2	18,250*	78.2	18,250*	80.1	18,250*
110'	50	72.0	18,250*	74.0	18,250*	75.8	18,250*
(33.5 m)	60	67.6	18,250*	69.6	18,250*	71.4	18,250*
	70	63.1	15,180	65.1	15,180	66.8	15,190
	80	58.4	12,570	60.4	12,570	62.0	12,580
	90	53.5	10,590	55.4	10,590	57.0	10,60
	100	48.2	9,040	50.0	9,050	51.5	9,050
	110	42.4	7,790	44.2	7,790	45.6	7,790
	30	81.0	18,250*		_	_	
	35	79.1	18,250*	81.0	18,250*	-	
	40	77.1	18,250*	79.0	18,250*	80.8	18,250*
	50	73.2	18,250*	75.1	18,250*	76.8	18,250*
120'	60	69.2	18,250*	71.0	18,250*	72.7	18,250*
(36.6 m)	70	65.0	14,970	66.9	14,970	68.5	14,970
(00.0,	80	60.8	12,370	62.6	12,370	64.2	12,370
	90	56.3	10,380	58.1	10,390	59.6	10,390
	100	51.5	8,830	53.3	8,830	54.7	8,830
	110	46.5	7,580	48.2	7,580	49.5	7,580
	120	40.9	6,540	42.5	6,540	43.8	6,550
	00	00.0	10.050*				
	32	80.8	18,250*	-	-	-	-
	35	79.7 77.9	18,250* 18,250*	- 79.7	18,250*	-	-
	40 50	74.3	18,250*	79.7 76.0	18,250*	- 77.7	- 18,250*
130'	60	70.5	18,250*	70.0	18,250*	73.9	18,250*
(39.6 m)	70	66.7	14,730	68.4	14,730	70.0	14,740
(00.0 iii)	80	62.7	12,120	64.4	12,120	66.0	12,120
	90	58.6	10,140	60.3	10,140	61.8	10,140
	100	54.3	8,580	56.0	8,580	57.4	8,580
	110	49.8	7,330	51.4	7,330	52.7	7,330
	120	44.9	6,300	46.5	6,300	47.7	6,310
	130	39.5	5,440	41.0	5,440	42.2	5,440
	130	33.3	J, 44 U	41.0	J, 44 U	74.4	J, 44 U

TEREX | AMERICAN

WITH 46HI BOOM, #9 ANGLE JIB

58,100 lb	360°	ANSI B 30.5
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30' (9.1	m) Jib l	ength					
Boom length	Jib Radius (Feet)	5.0 D Boom Angle	eg offset Rating (Pounds)	15.0 [Boom Angle	Deg offset Rating (Pounds)	25.0 E Boom Angle	Deg offset Rating (Pounds)
	34 35	80.7 80.3	18,250* 18,250*	-	-	-	-
	40	78.6	18,250*	80.3	18,250*	-	-
	50	75.2	18,250*	76.9	18,250*	78.4	18,250*
	60	71.7	18,090	73.4	18,090	74.9	18,090
	70	68.1	14,500	69.8	14,500	71.2	14,500
140'	80	64.5	11,880	66.1	11,880	67.5	11,890
(42.7 m)	90	60.7	9,900	62.3	9,900	63.7	9,900
	100	56.7	8,350	58.3	8,350	59.6	8,350
	110	52.6	7,090	54.1	7,090	55.4	7,090
	120	48.2	6,060	49.7	6,060	50.9	6,070
	130	43.5	5,210	44.9	5,210	46.1	5,210
	140	38.3	4,470	39.7	4,480	40.7	4,480

	Jib	5.0 D	eg offset	15.0 [Deg offset	25.0 I	Deg offset
Boom	Radius	Boom	Rating	Boom	Rating	Boom	Rating
length	(Feet)	Angle	(Pounds)	Angle	(Pounds)	Angle	(Pounds)
	37	80.8	18,250*	_	-	-	-
	40	79.8	18,250*	_	-	-	-
	50	76.8	18,250*	78.3	17,840*	79.7	14,960*
	60	73.7	17,640	75.2	17,030*	76.5	14,430*
	70	70.5	14,050	72.0	14,050	73.3	13,770*
	80	67.3	11,430	68.8	11,430	70.1	11,440
160'	90	64.0	9,450	65.4	9,450	66.7	9,450
(48.8 m)	100	60.6	7,890	62.0	7,890	63.3	7,890
	110	57.1	6,640	58.5	6,640	59.7	6,640
	120	53.4	5,600	54.8	5,600	55.9	5,600
	130	49.5	4,740	50.9	4,740	52.0	4,740
	140	45.4	4,010	46.7	4,010	47.8	4,010
	150	41.0	3,380	42.3	3,380	43.2	3,380
	160	36.1	2,840	37.3	2,850	38.2	2,850

	35	80.9	18,250*	-	-	-	-
	40	79.3	18,250*	80.9	18,250*	-	-
	50	76.0	18,250*	77.6	18,250*	79.1	17,490*
	60	72.8	17,860	74.3	17,860	75.7	16,980*
	70	69.4	14,260	70.9	14,260	72.3	14,260
	80	66.0	11,650	67.5	11,650	68.9	11,650
150'	90	62.4	9,660	63.9	9,670	65.3	9,670
(45.7 m)	100	58.8	8,100	60.3	8,100	61.6	8,110
	110	55.0	6,850	56.5	6,850	57.7	6,860
	120	51.0	5,810	52.4	5,810	53.6	5,820
	130	46.8	4,960	48.2	4,960	49.3	4,960
	140	42.2	4,220	43.5	4,220	44.6	4,230
	150	37.2	3,600	38.5	3,600	39.4	3,600

40' (12.2	m) Jib	length					
	Jib	5.0 D	eg offset	15.0 [Deg offset	25.0 I	Deg offset
Boom	Radius	Boom	Rating	Boom	Rating	Boom	Rating
length	(Feet)	Angle	(Pounds)	Angle	(Pounds)	Angle	(Pounds)
	30	80.7	18,250*	-	-	-	-
	35	78.6	18,250*	-	-	-	-
	40	76.5	18,250*	79.3	18,250*	-	-
	50	72.3	18,250*	75.0	17,790*	77.5	16,310*
100'	60	68.0	18,250*	70.6	16,840*	73.1	15,650*
(30.5 m)	70	63.5	15,480	66.1	15,490	68.5	15,060*
	80	58.8	12,880	61.4	12,880	63.7	12,890
	90	53.9	10,900	56.4	10,900	58.6	10,910
	100	48.6	9,340	51.0	9,350	53.1	9,350
	31	80.9	18,250*	-	-	-	-
	35	79.4	18,250*	-	<u>-</u>	-	-
	40	77.4	18,250*	80.0	18,250*		-
	50	73.5	18,250*	76.0	17,950*	78.4	16,410*
110'	60	69.5	18,250*	72.0	17,070*	74.3	15,760*
(33.5 m)	70	65.4	15,240	67.8	15,240	70.1	15,200*
	80	61.1	12,630	63.5	12,630	65.7	12,630
	90	56.6	10,640	59.0	10,650	61.1	10,650
	100	51.9	9,090	54.2	9,090	56.2	9,090
	110	46.8	7,840	49.1	7,840	51.0	7,840

	Jib		eg offset		Deg offset		Deg offset
Boom	Radius	Boom	Rating	Boom	Rating	Boom	Rating
length	(Feet)	Angle	(Pounds)	Angle	(Pounds)	Angle	(Pounds)
	33	80.8	18,250*	-	-	-	-
	35	80.1	18,250*	-	-	-	-
	40	78.2	18,250*	80.6	18,250*	-	-
	50	74.6	18,250*	76.9	18,220*	79.1	16,560*
120'	60	70.8	18,250*	73.2	17,310*	75.3	15,890*
(36.6 m)	70	67.0	15,020	69.3	15,020	71.4	15,030
	80	63.1	12,410	65.3	12,410	67.4	12,410
	90	58.9	10,430	61.2	10,430	63.2	10,430
	100	54.6	8,870	56.9	8,870	58.8	8,870
	110	50.1	7,620	52.3	7,620	54.1	7,620
	120	45.2	6,590	47.3	6,590	49.0	6,600
			,				ŕ
	2.4	01 0	10 250*				

	34	81.0	18,250^	-	-	-	-
	35	80.6	18,250*	-	-	-	-
	40	78.9	18,250*	-	-	-	-
	50	75.5	18,250*	77.7	18,250*	79.8	16,640*
130'	60	72.0	18,250*	74.2	17,560*	76.3	16,060*
(39.6 m)	70	68.4	14,780	70.6	14,780	72.6	14,780
	80	64.8	12,160	66.9	12,160	68.9	12,170
	90	61.0	10,180	63.1	10,180	65.0	10,190
	100	57.0	8,630	59.1	8,630	61.0	8,630
	110	52.9	7,370	54.9	7,370	56.7	7,380
	120	48.5	6,340	50.5	6,340	52.2	6,350
	130	43.8	5,480	45.7	5,480	47.3	5,480

WITH 46HI BOOM, #9 ANGLE JIB

58,100 lb 360° ANSI B 30.5

	-,						
40' (12.2	2 m) Jib	length					
	Jib	5.0 D	eg offset	15.0 F	Deg offset	25.01	Deg offset
Boom	Radius	Boom	Rating	Boom	Rating	Boom Rating	
length	(Feet)	Angle	(Pounds)	Angle	(Pounds)	Angle	(Pounds)
3	36	80.8	18,250*	_	_	_	_
	40	79.6	18,250*	_	_	_	_
	50	76.3	18,250*	78.4	18,250*	80.4	16,720*
	60	73.0	18,140	75.1	17,770*	77.1	16,160*
140'	70	69.7	14,540	71.7	14,540	73.6	14,550
(42.7 m)	80	66.2	11,930	68.3	11,930	70.1	11,930
	90	62.7	9,940	64.7	9,950	66.5	9,950
	100	59.1	8,390	61.1	8,390	62.8	8,400
	110	55.3	7,130	57.2	7,130	58.9	7,140
	120	51.3	6,100	53.2	6,110	54.8	6,110
	130	47.0	5,250	48.9	5,250	50.5	5,250
	140	42.5	4,510	44.3	4,510	45.7	4,520
	38	80.7	18,250*	-	-	-	-
	40	80.1	18,250*	-	-	-	-
	50	77.0	18,250*	79.0	18,250*	80.9	15,440*
	60	73.9	17,900	75.9	17,900*	77.8	15,190*
	70	70.8	14,310	72.7	14,310	74.6	14,310
4501	80	67.6	11,690	69.5	11,690	71.3	11,700
150'	90	64.3	9,710	66.2	9,710	67.9	9,710
(45.7 m)	100	60.9	8,150	62.8	8,150	64.4	8,150
	110	57.3	6,890	59.2	6,890	60.8	6,890
	120	53.7	5,860	55.5	5,860	57.1	5,860
	130	49.8	5,000	51.6	5,000	53.1	5,000
	140	45.7	4,260	47.5	4,260	48.9	4,270
	150	41.3	3,640	43.0	3,640	44.3	3,640

Boom	Jib Radius	Boom	eg offset Rating	Boom	Deg offset Rating	Boom	Deg offset Rating
length	(Feet)	Angle	(Pounds)	Angle	(Pounds)	Angle	(Pounds)
	39	80.9	18,250*	-	-	-	-
	40	80.6	18,250*	-	-	-	-
	50	77.7	18,250*	79.6	16,450*	-	-
	60	74.8	17,480*	76.6	15,780*	78.4	12,960*
	70	71.8	14,090	73.6	14,090	75.4	12,510*
	80	68.7	11,480	70.6	11,480	72.3	11,480
160'	90	65.6	9,480	67.5	9,480	69.1	9,490
(48.8 m)	100	62.4	7,930	64.3	7,930	65.9	7,930
	110	59.2	6,670	61.0	6,670	62.5	6,670
	120	55.7	5,640	57.5	5,640	59.0	5,640
	130	52.2	4,770	53.9	4,770	55.4	4,770
	140	48.4	4,040	50.2	4,040	51.6	4,050
	150	44.5	3,410	46.1	3,420	47.5	3,420
	160	40.2	2,870	41.8	2,870	43.0	2,880

50' (15.2	m) Jib	length					
Boom length	Jib Radius (Feet)	5.0 D Boom Angle	leg offset Rating (Pounds)	15.0 I Boom Angle	Deg offset Rating (Pounds)	25.0 I Boom Angle	Deg offset Rating (Pounds)
	37	80.8	18,250*	-	-	-	-
	40	79.8	18,200*	-	-	-	-
	50	76.6	16,970*	79.2	14,740*	-	-
	60	73.3	15,830*	75.9	13,950*	78.4	12,580*
130'	70	69.9	14,810	72.5	13,290*	75.0	12,040*
(39.6 m)	80	66.5	12,200	69.1	12,200	71.5	11,630*
	90	63.0	10,210	65.5	10,220	67.8	10,220
	100	59.3	8,650	61.9	8,650	64.1	8,660
	110	55.5	7,400	58.0	7,400	60.2	7,410
	120	51.5	6,360	54.0	6,370	56.1	6,370
	130	47.3	5,510	49.7	5,510	51.7	5,510

	38	81.0	18,250*	-	-	-	-
	40	80.4	18,250*	-	-	-	-
	50	77.3	17,190*	79.8	14,830*	-	-
	60	74.2	16,110*	76.7	14,110*	79.0	12,6303
140'	70	71.0	14,580	73.5	13,440*	75.8	12,150*
(42.7 m)	80	67.8	11,960	70.3	11,960	72.5	11,760*
	90	64.5	9,980	66.9	9,980	69.1	9,980
	100	61.1	8,420	63.5	8,420	65.7	8,420
	110	57.6	7,170	60.0	7,170	62.0	7,170
	120	53.9	6,130	56.3	6,130	58.3	6,130
	130	50.1	5,270	52.3	5,270	54.3	5,270
	140	45.9	4,540	48.2	4,540	50.0	4,550

	Jib	5.0 D	eg offset	15.0 Deg offset		25.0 [Deg offset
Boom	Radius	Boom	Rating	Boom	Rating	Boom	Rating
length	(Feet)	Angle	(Pounds)	Angle	(Pounds)	Angle	(Pounds)
	40	80.9	18,250*	-	-	-	-
	50	77.9	17,430*	80.3	14,980*	-	-
	60	75.0	16,350*	77.4	14,280*	79.6	12,730*
	70	72.0	14,330	74.4	13,580*	76.6	12,230*
150'	80	69.0	11,720	71.3	11,720	73.5	11,720
(45.7 m)	90	65.9	9,730	68.2	9,730	70.3	9,740
	100	62.7	8,170	65.0	8,170	67.0	8,180
	110	59.4	6,920	61.7	6,920	63.7	6,920
	120	56.0	5,880	58.2	5,880	60.2	5,880
	130	52.4	5,020	54.6	5,020	56.5	5,020
	140	48.7	4,290	50.8	4,290	52.7	4,300
	150	44.7	3,660	46.8	3,670	48.5	3,670
	42	80.7	18,250*	-	-	-	-
	50	78.5	17,480*	80.8	14,960*	-	-
	60	75.7	16 500*	70 N	1/ 260*	00 1	11 5/0*

	42	80.7	18,250*	-	-	-	-
	50	78.5	17,480*	80.8	14,960*	-	-
	60	75.7	16,500*	78.0	14,360*	80.1	11,540*
	70	72.9	14,120	75.1	13,740*	77.2	11,230*
	80	70.0	11,500	72.3	11,500	74.3	10,820*
	90	67.1	9,510	69.3	9,510	71.3	9,510
160'	100	64.1	7,950	66.3	7,960	68.3	7,960
(48.8 m)	110	61.0	6,690	63.2	6,690	65.1	6,700
	120	57.8	5,660	60.0	5,660	61.8	5,670
	130	54.5	4,800	56.6	4,800	58.5	4,810
	140	51.1	4,060	53.1	4,060	54.9	4,070
	150	47.4	3,430	49.5	3,440	51.2	3,440
	160	43.5	2,890	45.5	2,890	47.1	2,900

NOTES TO LIFTING CAPACITY

A 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 Bulliten #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.

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.

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.

The weight of all suspended blocks, slings, or other load carrying devices including those at the main fall, are considered part of the jib load. The weight of standard hoisting ropes for the rating at a given radius has been calculated as part of the jib point dead load and need not be considered in determining net allowable loads. See Appendix A.

BOOM HOIST LINE - 14 parts of 5/8 inch diameter EIPS wire rope with a minimum breaking strength of 41,200 pounds.

PENDANT SUSPENSION LINE - 2 parts of 1-1/4 inch diameter MONOLAY wire rope with a minimum breaking strength of 172,800 pounds.

WHIP LINE – 7/8 inch diameter IPS wire rope with a minimum

breaking strength of 69,200 pounds.

JIB FRONTSTAY & BACKSTAY PENDANTS – 7/8 inch diameter IPS wire rope with a minimum breaking strength of 69,200 pounds.

ERECTION

Erection is with the A-Frame fully raised. Erection "OVER-THE-END" is with the boom over the idler end. Erection "OVER-THE-SIDE" is with the boom 90° to the sideframes and with the side frames extended. Blocks, slings and other load carrying devices must be on the ground during erection.

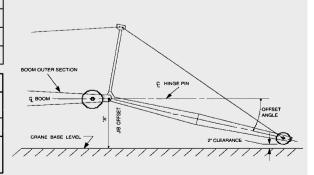
MAXIMUM BO	MAXIMUM BOOM & JIB SELF-ERECTION DATA - 46HI BOOM							
	OVER-THE END & OVER-THE-SIDE							
JIB	BOOM LENGTH (FEET)	JIB LENGTH (FEET)						
#9	160	50						

		46HI B	оом сомроз	ITION CHART		
			BOOM	M SECTIONS		
BOOM LENGTH (FEET)	20' 46HI INNER	5' 46HR CENTER	10' 46HR CENTER	20' 46HR CENTER	40' 46HR CENTER	20' 46HR or 46HI OUTER
40 45 55 66 65 75 86 85 95 106 115 122 120 120 140 150 150 160		0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1	0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 1 1 0 0 0 1 1 1 1 0 0 0 1 1 1 1 0 0 0 1 1 1 1 0 0 0 1 1 1 1 0 0 0 1 1 1 1 0 0 0 1 1 1 1 0 0 0 1 1 1 1 0 0 0 1 1 1 1 0 0 0 1 1 1 1 0 0 0 1 1 1 1 1 0 0 0 1 1 1 1 1 0 0 0 1 1 1 1 1 0 0 0 1 1 1 1 1 0 0 0 1 1 1 1 1 0 0 0 1 1 1 1 1 1 0 0 0 1	000000000000000000000000000000000000000	000000000000000000000000000000000000000	

LC	LOAD HOISTING INFORMATION - 7/8" diameter IPS wire rope								
MAXIMUM LIFTING	MINIMUM	MAXIMUM HOISTING DISTANCE - FEET							
CAPACITY - LBS.	PARTS OF LINE	MAIN - (RIGHT)	AUX (LEFT)						
18,250	1	588	588						

	#9 JIB COMPOSITION CHART									
JIB LENGTH	10'	10'	10'	EFF. JIB WEIGHT	JIB OFFSET "A" IN FEET					
(FEET)) INNER CENTER	CENTER	OUTER	(POUNDS)	5°	15°	25°			
20 30 40 50	1 1 1	0 1 2 3	1 1 1 1	1,550 2.100 2,800 3,600	3.75 3.50 5.08 5.33	6.00 7.83 9.67 11.58	8.50 11.58 14.50 17.75			

Note: The #9 jib mounted on a 46Hl outer requires the use of a 46Hl #9 jib adaptor. Refer to the HC 80 Operator's Manual for additional information.



NOTES	



TECHNICAL DESCRIPTION

HYDRAULIC CRAWLER CRANE

Maximum lifting capacity

80 tons (73 mt).

Boom systems

47 HI Boom with Offset Tip

- 200 ft (61 m) maximum boom length.
- 230 ft (70 m) maximum boom and jib combination length.
- 47 HI Tubular chord boom, pin connected.
- 20 ft inner and 20 ft outer and 10 ft / 20 ft / 30 ft available inserts provide boom compositions in 10 ft increments from 40 ft to 200 ft.

46 HR Angle Boom with 4 Sheave Tip

- 160 ft maximum boom length.
- 200 ft (61 m) maximum boom and jib combination length.
- 46 HR Angle Boom, pin connected.
- 20 ft inner and 20 ft outer and 10 ft / 20 ft / 30 ft available inserts provide boom compositions in 10 ft increments from 40 ft to 160 ft.

Robust engine

Cummins Model QSB 5.9 Turbocharged After Cooled diesel engine, 4 cycle, 6 cylinders, 359 cubic inch displacement, 5.9 liters, 185 BHP @ 2200 rpm,
 60 gallons fuel tank capacity.

Environmental operator's cab

- Designed to provide excellent viewing range and quiet, comfortable operation.
- 37 inch (0.91 m) wide cab has wide curve windows on both top and bottom.
- Easy-to-operate modular and ergonomically designed controls reduce operator fatigue and increase productivity.
- Load Moment Indicator with interactive screen features as shockless stop system. Operator can select from three display modes: loaded condition diagram, rated lifting curve or rated lifting load table.
- Adjustable operator's seat, radio, air conditioner, overhead window, sun visor, fan, overhead and front wipers and drum rotation indicators are standard.

Heavy duty carbody and crawlers

- Fabricated steel carbody is deep box constructed with square axles for the crawler side frames. Precision machined top supports anti-friction swing circle and multiple pass hydraulic swivel joint.
- Crawlers have high alloy steel tumbler yokes and rigid fabricated structures with sealed rollers.
- 36" (914 mm) crawler shoes.
- Travel mechanism is set within shoe width.
- Side frames extended or retracted by cylinders inside the carbody.
- Two travel speed settings 0.8 / 1.24 mph (1.3 / 2.0 km/h).
- 40 % (22°) gradeability.

Powerful, high-speed hoist system

- Identical inline, independent main and auxiliary load hoisting drums are grooved for 7/8 in. (22.4 mm) diameter rope. Line speed is 530 fpm (162 m/min.), line pull is 32,400 lb (14 697 kg).
- Each drum, including optional third, has power up/down and freefall. Load hoists are further controllable in stepless mode.
- Ample work space in front of the drums allows easy access for cable installation and maintenance.
- Internal expanding band clutch.
- 3.3 rpm swing speed.

High capacity, dependable hydraulic system

- Open circuit system has 2 variable displacement piston pumps with system capacity of 116 gpm (440 lpm).
- Hydraulic reservoir with 79 gallons (300 I) capacity and 10 micron filtration.
- $-\,$ Component working range is between -4 and 203° F (-20 and 95° C).
- Flip up doors provide easy access to engine and hydraulic components for service.

Three piece removable counterweight

- Three piece pin connected counterweight can be assembled or disassembled easily within minutes.
- Hydraulic counterweight removal system is standard and utilizes the "A" frame and crane auxiliary drum to make the HC 80 one of the most transportable cranes in its class.
- Moves on three trucks with full boom and #9HL jib. Carbody sideframes and boom weigh in at under 88,000 lb (39 917 kg). At 11 ft 9.75 in. (3.6 m) wide and 10 ft 2 in. (3.09 m) high, the HC 80 at working weight will transport on a standard lowboy trailer.

Options include

- Third drum
- Luffing jib attachment
- Automotive type lights
- 46HI angle boom
- Hydraulic power take off
- Single sheave extension
- Jib and jib inserts

TRANSPORT EXAMPLE FOR HC 80

170' 47HI BOOM AND 60' #9HL JIB

Loads based on 48 ft flatbed trailer. Loading information is an example only, specific loads will vary depending on crane options. Weights shown do **NOT** include blocking or tie-down material.

LOAD NO. 1

3 x 47 H 30' Boom Center Sections @ 2,045 # each	6,135 lbs
Inside Counterwieght	16,000 lbs
#9HL 20' Jib Center	385 lbs
Center Counterweight	21,000 lbs
1 x 47 H 10' Boom Center Sections	700 lbs
TOTAL LOAD	44,220 lbs

LOAD NO. 2

Outside Counterweight	21,000 lbs
47HI Boom Outer	2,225 lbs
47 H 30' Boom Center	2,045 lbs
#9HL Jib Inner	890 lbs
#9HL Jib Outer	665 lbs
Crate, Misc. Parts, Block & Ball	3,500 lbs
TOTAL LOAD	30 325 lbs

LOAD NO. 3

Basic Upper, including:

- a) Carbody
- b) Sideframes
- c) Boom Inner

KEY

Counterweight

CB Central ballast





The information contained in this brochure merely consists of general descriptions and a broad compilation of performance features which might not apply precisely as described under specific application conditions or which may change as a result of further product development.

The desired performance features only become binding once expressly agreed in the final contract.

Note: Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes. Crane operation is subject to the computer charts and operation manual both supplied with the crane.

Subject to change without notice.

03/06



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