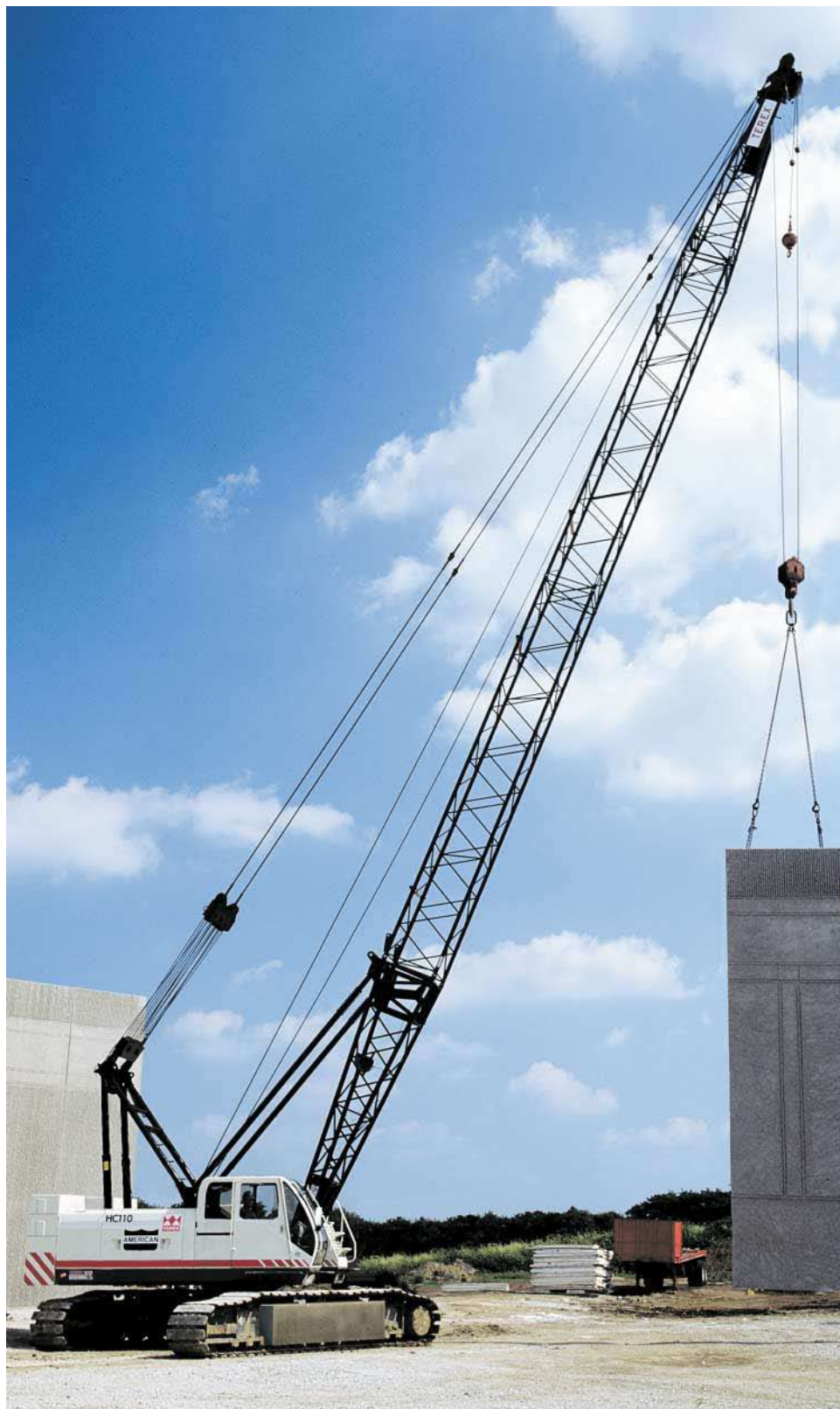




HC 110

Hydraulic Crawler Crane



FEATURES

- **110 tons (100 mt) max lift capacity**
- **230 ft. (70 m) max main boom length**
- **200+70 ft. (61+21 m) max lift crane boom & jib length**
- Power up/down and freefall on main and auxiliary drums
- 40,640 lbs. (18 435 kg) max single line pull, 565 fpm (172 mpm) max line speed
- Quiet, comfortable operator's cab with excellent viewing range
- Shockless stop system gradually retards operating speed to reduce shocks when crane approaches lifting load or boom limits
- Two speed travel allows operator to select the best speed and power control for any condition
- Superior transportability:
11 ft. (3.35 m) width
11 ft. 3 in. (3.43 m) height
- 99,400 lbs. (45 100 kg) transport weight including sideframes and boom inner. Transports with full boom and jib on only 4 trucks
- Hydraulic counterweight removal system simplifies installation and removal

THE ULTIMATE CRANE™

Machines shown may have optional equipment.



HC 110

Hydraulic Crawler Crane

59 HI Boom

LIFT RATINGS IN POUNDS

With 59HI Offset Tip Boom and 52,900 Pound Counterweight

Boom Length	Radius (Feet)	Boom Angle (Degrees)	Side Frames Extended (Pounds)	From Boom Pt. to Ground (Feet)
50' (15.2M)	13	79.9	220,000*	56
	15	77.6	190,080	55
	20	71.6	123,590	54
	25	65.4	87,980	52
	30	58.9	67,950	49
	35	51.9	55,210	46
	40	44.1	46,320	41
60' (18.3M)	50	22.7	34,800	26
	14	80.7	203,570*	66
	15	79.7	189,950*	65
	20	74.8	123,410	64
	25	69.7	87,800	63
	30	64.5	67,740	61
	35	59.1	55,020	58
70' (21.3M)	40	53.3	46,110	54
	50	40.0	34,570	45
	60	20.6	27,460	27
	16	80.3	177,910*	75
	20	77.0	123,260	75
	25	72.8	87,640	73
	30	68.4	67,570	71
80' (24.4M)	35	63.9	54,860	69
	40	59.2	45,940	67
	50	49.0	34,380	59
	60	36.9	27,290	48
	70	19.0	22,410	29
	17	80.8	162,150	85
	20	78.7	123,050	85
90' (27.4M)	25	75.0	87,450	84
	30	71.2	67,340	82
	35	67.4	54,640	80
	40	63.4	45,710	78
	50	55.0	34,140	72
	60	45.7	27,070	64
	70	34.4	22,170	52
100' (30.5M)	80	17.7	18,640	31
	19	80.6	133,760	95
	20	79.9	122,900	95
	25	76.7	87,300	94
	30	73.4	67,190	93
	35	70.0	54,480	91
	40	66.6	45,540	89
110' (33.5M)	50	59.4	33,960	84
	60	51.6	26,900	77
	70	42.9	22,010	68
	80	32.3	18,460	55
	90	16.7	15,780	32
	20	80.9	122,700	105
	25	78.0	87,090	104
120' (36.6M)	30	75.1	66,960	103
	35	72.1	54,260	102
	40	69.0	45,310	100
	50	62.7	33,720	95
	60	56.0	26,670	89
	70	48.8	21,770	82
	27	80.7	91,970	125
130' (39.6M)	25	80.1	86,700	125
	30	77.6	66,510	124
	35	75.2	53,830	122
	40	72.7	44,860	121
	50	67.6	33,250	117
	60	62.3	26,230	113
	70	56.7	21,320	107
140' (42.7M)	80	50.8	17,750	99
	90	44.3	15,060	90
	100	36.9	12,950	78
	110	27.9	11,260	62
	120	14.4	9,880	36
	25	80.8	86,510	135
	30	78.6	66,320	134
150' (45.7M)	35	76.3	53,640	133
	40	74.0	44,680	131
	50	69.4	33,040	128
	60	64.6	26,030	124
	70	59.6	21,110	118
	80	54.3	17,560	112
	90	48.6	14,850	104
160' (48.8M)	100	42.4	12,740	94
	110	35.4	11,040	82
	120	26.7	9,660	65
	130	13.8	8,510	37
	27	80.7	76,990	145
	30	79.4	66,090	144
	35	77.3	53,410	143
170' (51.8M)	40	75.2	44,440	142
	50	70.9	32,790	139
	60	66.5	25,800	135
	70	62.0	20,870	130
	80	57.2	17,300	124
	90	52.2	14,610	117
	100	46.8	12,490	108
180' (54.9M)	110	40.8	10,790	98
	120	34.0	9,400	85
	130	25.7	8,240	67
	140	13.3	7,270	39
	27	80.7	76,990	145
	30	79.4	66,090	144
	35	77.3	53,410	143
190' (51.8M)	40	75.2	44,440	142
	50	70.9	32,790	139
	60	66.5	25,800	135
	70	62.0	20,870	130
	80	57.2	17,300	124
	90	52.2	14,610	117
	100	46.8	12,490	108
200' (60.9M)	110	40.8	10,790	98
	120	34.0	9,400	85
	130	25.7	8,240	67
	140	13.3	7,270	39
	27	80.7	76,990	145
	30	79.4	66,090	144
	35	77.3	53,410	143
210' (64.0M)	40	75.2	44,440	142
	50	70.9	32,790	139
	60	66.5	25,800	135
	70	62.0	20,870	130
	80	57.2	17,300	124
	90	52.2	14,610	117
	100	46.8	12,490	108
220' (67.0M)	110	40.8	10,790	98
	120	34.0	9,400	85
	130	25.7	8,240	67
	140	13.3	7,270	39
	27	80.7	76,990	145
	30	79.4	66,090	144
	35	77.3	53,410	143
230' (70.1M)	40	75.2	44,440	142
	50	70.9	32,790	139
	60	66.5	25,800	135
	70	62.0	20,870	130
	80	57.2	17,300	124
	90	52.2	14,610	117
	100	46.8	12,490	108
240' (73.1M)	110	40.8	10,790	98
	120	34.0	9,400	85
	130	25.7	8,240	67
	140	13.3	7,270	39
	27	80.7	76,990	145
	30	79.4	66,090	144
	35	77.3	53,410	143
250' (76.2M)	40	75.2	44,440	142
	50	70.9	32,790	139
	60	66.5	25,800	135
	70	62.0	20,870	130
	80	57.2	17,300	124
	90	52.2	14,610	117
	100	46.8	12,490	108
260' (79.2M)	110	40.8	10,790	98
	120	34.0	9,400	85
	130	25.7	8,240	67
	140	13.3	7,270	39
	27	80.7	76,990	145
	30	79.4	66,090	144
	35	77.3	53,410	143
270' (82.3M)	40	75.2	44,440	142
	50	70.9	32,790	139
	60	66.5	25,800	135
	70	62.0	20,870	130
	80	57.2	17,300	124
	90	52.2	14,610	117
	100	46.8	12,490	108
280' (85.3M)	110	40.8	10,790	98
	120	34.0	9,400	85
	130	25.7	8,240	67
	140	13.3	7,270	39
	27	80.7	76,990	145
	30	79.4	66,090	144
	35	77.3	53,410	143
290' (88.4M)	40	75.2	44,440	142
	50	70.9	32,790	139
	60	66.5	25,800	135
	70	62.0	20,870	130
	80	57.2	17,300	124
	90	52.2	14,610	117
	100	46.8	12,490	108
300' (91.4M)	110	40.8	10,790	98
	120	34.0	9,400	85
	130	25.7	8,240	67
	140	13.3	7,270	39
	27	80.7	76,990	145
	30	79.4	66,090	144
	35	77.3	53,410	143
310' (94.5M)	40	75.2	44,440	142
	50	70.9	32,790	139
	60	66.5	25,800	135
	70	62.0	20,870	130
	80	57.2	17,300	124
	90	52.2	14,610	117
	100	46.8	12,490	108
320' (97.5M)	110	40.8	10,790	98
	120	34.0	9,400	85
	130	25.7	8,240	67
	140	13.3	7,270	39
	27	80.7	76,990	145
	30	79.4	66,090	144
	35	77.3	53,410	143
330' (100.6M)	40	75.2	44,440	142
	50	70.9	32,790	139
	60	66.5	25,800	135
	70	62.0	20,870	130
	80	57.2	17,300	124
	90	52.2	14,610	117
	100	46.8	12,490	108
340' (103.6M)	110	40.8	10,790	98
	120	34.0	9,400	85
	130	25.7	8,240	67
	140	13.3	7,270	39
	27	80.7	76,990	145
	30	79.4	66,090	144
	35	77.3	53,410	143
350' (106.7M)	40	75.2	44,440	142
	50	70.9	32,790	139
	60	66.5	25,800	135
	70	62.0	20,870	130
	80	57.2	17,300	124
	90	52.2	14,610	117
	100	46.8	12,490	108
360' (109.7M)	110	40.8	10,790	98
	120	34.0	9,400	85
	130	25.7	8,240	67
	140	13.3	7,270	39
	27	80.7	76,990	145
	30	79.4	66,090	144
	35	77.3	53,410	143
370' (112.8M)	40	75.2	44,440	142
	50	70.9	32,790	139
	60	66.5	25,800	135
	70	62.0	20,870	130
	80	57.2	17,300	124
	90	52.2	14,610	117
	100	46.8	12,490	108
380' (115.8M)	110	40.8	10,790	98
	120	34.0	9,400	85
	130	25.7	8,240	67
	140	13.3	7,270	39
	27	80.7	76,990	145
	30	79.4	66,090	144
	35	77.3	53,410	143
390' (118.9M)	40	75.2	44,440	142
	50	70.9	32,790	139
	60	66.5	25,800	135
	70	62.0	20,870	130
	80	57.2	17,300	124
	90	52.2	14,610	117
	100	46.8	12,490	108
400' (121.9M)	110	40.8	10,790	98
	120	34.0	9,400	85
	130	25.7	8,240	67
	140	13.3	7,270	39
	27	80.7	76,990	145
	30	79.4	66,090	144
	35	77.3	53,410	143
410' (125.0M)	40	75.2	44,440	142
	50	70.9	32,790	139
	60	66.5	25,800	135
	70	62.0	20,870	130
	80	57.2	17,300	124
	90	52.2	14,610	117
	100	46.8	12,490	108
420' (128.0M)	110	40.8	10,790	98
	120	34.0	9,400	85
	130	25.7	8,240	67
	140	13.3	7,270	39
	27	80.7	76,990	145
	30	79.4	66,090	144
	35	77.3	53,410	143
430' (131.1M)	40	75.2	44,440	142
	50	70.9	32,790	139
	60	66.5	25,800	135
	70	62.0	20,870	130
	80	57.2	17,300	124
	90	52.2	14,610	117
	100	46.8	12,490	108
440' (134.2M)	110	40.8	10,790	98
	120	34.0	9,400	85
	130	25.7	8,240	67
	140	13.3	7,270	39
	27	80.7	76,990	145
	30	79.4	66,090	144
	35	77.3	53,410	143
450' (137.3M)	40	75.2	44,440	142
	50	70.9	32,790	139
	60	66.5	25,800	135
	70	62.0	20,870	130
	80	57.2	17,300	124
	90	52.2	14,610	117
	100	46.8	12,490	108
460' (140.3M)	110	40.8	10,790	98
	120	34.0	9,400	85
	130	25.		

**LIFT RATINGS IN POUNDS (continued)****With 59HI Offset Tip Boom and 52,900 Pound Counterweight**

Boom Length	Radius (Feet)	Boom Angle (Degrees)	Side Frames Extended (Pounds)	From Boom Pt. to Ground (Feet)	Boom Length	Radius (Feet)	Boom Angle (Degrees)	Side Frames Extended (Pounds)	From Boom Pt. to Ground (Feet)	Boom Length	Radius (Feet)	Boom Angle (Degrees)	Side Frames Extended (Pounds)	From Boom Pt. to Ground (Feet)
180' (con't)	110	54.0	9,820	152	200' (con't)	80	67.7	15,890	191	220' (67.1M)	39	80.9	36,510*	224
	120	49.9	8,420	144		90	64.6	13,170	187		40	80.7	36,220*	223
	130	45.6	7,240	135		100	61.4	11,040	182		50	78.0	30,880	222
	140	41.0	6,250	124		110	58.0	9,330	176		60	75.3	23,990	219
	150	35.8	5,410	112		120	54.6	7,920	169		70	72.6	19,020	216
	160	29.9	4,680	96		130	51.0	6,740	162		80	69.8	15,430	213
	170	22.6	4,040	76		140	47.2	5,750	153		90	67.1	12,700	209
	180	11.7	3,510	43		150	43.1	4,900	143		100	64.2	10,570	204
190' (57.9M)	34	81.0	52,570*	194		160	38.8	4,160	132		110	61.3	8,840	199
	35	80.7	52,320	194		170	33.9	3,520	118		120	58.2	7,440	193
	40	79.2	43,310	193		180	28.3	2,960	101		130	55.1	6,260	187
	50	76.1	31,610	191		190	21.5	2,470	80		140	51.9	5,260	179
	60	72.9	24,680	188		200	11.1	2,050	45		150	48.5	4,400	171
	70	69.7	19,720	185	210' (64.0M)	38	80.8	41,580*	214		160	44.9	3,650	162
	80	66.5	16,140	181		40	80.2	40,870*	213		170	41.0	3,010	151
	90	63.2	13,420	176		50	77.4	31,130	211		180	36.9	2,450	138
	100	59.7	11,300	170		60	74.6	24,220	209		190	32.3	1,940	124
	110	56.2	9,580	164		70	71.7	19,260	206		200	27.0	1,510	106
	120	52.4	8,170	157		80	68.8	15,670	202	230' (70.1M)	41	80.8	31,890*	233
	130	48.5	7,000	149		90	65.9	12,950	198		50	78.5	28,280*	232
	140	44.3	6,010	139		100	62.9	10,820	193		60	76.0	23,760	230
	150	39.8	5,160	128		110	59.7	9,100	188		70	73.4	18,790	227
	160	34.8	4,420	115		120	56.5	7,690	182		80	70.8	15,190	224
	170	29.1	3,790	99		130	53.2	6,510	174		90	68.1	12,470	220
	180	22.0	3,230	78		140	49.7	5,520	166		100	65.4	10,320	215
	190	11.4	2,760	44		150	46.0	4,660	157		110	62.6	8,600	211
200' (61.0M)	36	80.9	46,920*	204		160	42.0	3,920	147		120	59.8	7,190	205
	40	79.7	43,070	203		170	37.8	3,270	135		130	56.8	6,010	199
	50	76.8	31,360	201		180	33.0	2,710	121		140	53.8	5,010	192
	60	73.8	24,440	198		190	27.6	2,220	104		150	50.6	4,150	184
	70	70.8	19,480	195		200	20.9	1,780	81		160	47.3	3,410	175

LIFT RATINGS IN POUNDS**With 59HI Offset Tip Boom, #9HL Jib and 52,900 Pound Counterweight**

Boom and Jib Length	Jib Radius (Feet)	5.0 Deg Offset		15.0 Deg Offset		25.0 Deg Offset		Boom and Jib Length	Jib Radius (Feet)	5.0 Deg Offset		15.0 Deg Offset		25.0 Deg Offset	
		Boom Angle	Ratings (Pounds)	Boom Angle	Ratings (Pounds)	Boom Angle	Ratings (Pounds)			Boom Angle	Ratings (Pounds)	Boom Angle	Ratings (Pounds)	Boom Angle	Ratings (Pounds)
40' (12.2M) JIB & 100' (30.5M) BOOM	30	80.7	22,540*					40' (con't)	90	59.0	15,350	61.3	15,350	63.2	15,350
	35	78.6	22,540*						100	54.7	13,230	56.9	13,230	58.8	13,230
	40	76.6	22,510*	79.3	21,260*				110	50.2	11,530	52.3	11,530	54.2	11,530
	50	72.3	21,720*	75.0	20,730*	77.5	19,820*		120	45.3	10,120	47.4	10,120	49.1	10,130
	60	68.0	21,090*	70.7	20,190*	73.1	19,490*	40' (12.2M) JIB & 130' (39.6M) BOOM	34	81.0	22,500*				
	70	63.5	20,520*	66.1	19,780*	68.5	18,380*		35	80.6	22,500*				
40' (12.2M) JIB & 110' (33.5M) BOOM	80	58.9	18,580	61.4	18,580	63.7	17,020*		40	78.9	22,500*				
	90	53.9	15,880	56.5	15,880	58.7	15,860*		50	75.5	22,240*	77.7	21,010*	79.8	20,020*
	100	48.7	13,760	51.1	13,760	53.2	13,770		60	72.0	21,690*	74.2	20,530*	76.3	19,670*
									70	68.5	21,100*	70.6	20,130*	72.6	19,390*
									80	64.8	17,820	66.9	17,820	68.9	17,830
									90	61.0	15,120	63.1	15,120	65.0	15,120
40' (12.2M) JIB & 120' (36.6M) BOOM	31	80.9	22,530*					40' (12.2M) JIB & 140' (42.7M) BOOM	100	57.1	13,000	59.2	13,000	61.0	13,000
	35	79.4	22,530*	80.0	21,400*				110	52.9	11,290	55.0	11,290	56.8	11,290
	40	77.5	22,530*	76.0	20,830*	78.4	19,920*		120	48.6	9,890	50.6	9,890	52.3	9,900
	50	73.5	21,920*	72.0	20,370*	74.3	19,500*		130	43.9	8,710	45.8	8,720	47.4	8,720
	60	69.5	21,280*	67.9	19,910*	70.1	18,850*								
	70	65.4	20,780*	63.6	18,330	65.7	17,510*								
40' (12.2M) JIB & 120' (36.6M) BOOM	80	61.1	18,320	59.1	15,620	61.2	15,630		36	80.8	22,490*				
	90	56.7	15,620	54.3	13,500	56.3	13,510		40	79.6	22,490*				
	100	52.0	13,500	49.2	11,800	51.1	11,800		50	76.3	22,380*	78.4	21,090*	80.4	20,080*
	110	46.9	11,800						60	73.0	21,830*	75.1	20,690*	77.1	19,760*
40' (12.2M) JIB & 120' (36.6M) BOOM	33	80.8	22,520*					40' (12.2M) JIB & 140' (42.7M) BOOM	70	69.7	21,140	71.8	20,300*	73.7	19,410*
	35	80.1	22,520*						80	66.3	17,560	68.3	17,560	70.2	17,560
	40	78.2	22,520*	80.6	21,460*				90	62.8	14,850	64.8	14,850	66.6	14,860
	50	74.6	22,080*	76.9	20,940*	79.2	19,960*		100	59.1	12,730	61.1	12,730	62.9	12,740
40' (12.2M) JIB & 120' (36.6M) BOOM	60	70.9	21,520*	73.2	20,440*	75.4	19,580*		110	55.3	11,020	57.3	11,020	59.0	11,030
	70	67.0	20,980*	69.3	20,010*	71.5	19,290*		120	51.3	9,610	53.3	9,610	54.9	9,620
40' (12.2M) JIB & 120' (36.6M) BOOM	80	63.1	18,060	65.4	18,060	67.4	17,960*								

**LIFT RATINGS IN POUNDS (continued)****With 59HI Offset Tip Boom, #9HL Jib and 52,900 Pound Counterweight**

Boom and Jib Length	Jib Radius (Feet)	5.0 Deg Offset		15.0 Deg Offset		25.0 Deg Offset	
		Boom Angle	Ratings (Pounds)	Boom Angle	Ratings (Pounds)	Boom Angle	Ratings (Pounds)
40' (12.2M) JIB & 150' (45.7M) BOOM	130	47.1	8,440	49.0	8,450	50.5	8,450
	140	42.6	7,450	44.4	7,450	45.8	7,460
	38	80.7	22,470*				
	40	80.1	22,470*				
	50	77.1	22,470*	79.1	21,190*	80.9	20,100*
	60	74.0	21,980*	75.9	20,770*	77.8	19,810*
	70	70.8	20,890	72.8	20,390*	74.6	19,510*
	80	67.6	17,310	69.5	17,310	71.3	17,310
	90	64.3	14,600	66.2	14,600	67.9	14,600
	100	60.9	12,470	62.8	12,480	64.5	12,480
	110	57.4	10,760	59.3	10,760	60.9	10,770
	120	53.7	9,360	55.6	9,370	57.1	9,370
	130	49.9	8,180	51.7	8,190	53.2	8,190
40' (12.2M) JIB & 160' (48.8M) BOOM	140	45.8	7,200	47.5	7,200	49.0	7,200
	150	41.4	6,340	43.1	6,350	44.4	6,350
	39	80.9	22,460*				
	40	80.6	22,460*				
	50	77.7	22,460*	79.6	21,280*	81.4	20,190*
	60	74.8	22,110*	76.7	20,840*	78.4	19,830*
	70	71.8	20,630	73.7	20,470*	75.4	19,530*
	80	68.8	17,040	70.6	17,050	72.3	17,050
	90	65.7	14,330	67.5	14,330	69.2	14,340
	100	62.5	12,210	64.3	12,210	65.9	12,210
	110	59.2	10,500	61.0	10,500	62.6	10,500
	120	55.8	9,100	57.6	9,100	59.1	9,100
	130	52.3	7,920	54.0	7,920	55.5	7,920
40' (12.2M) JIB & 170' (51.8M) BOOM	140	48.5	6,920	50.2	6,920	51.6	6,920
	150	44.5	6,070	46.2	6,070	47.5	6,080
	160	40.3	5,330	41.9	5,330	43.1	5,340
	41	80.8	22,450*				
	50	78.3	22,450*	80.1	21,300*	81.9	20,210*
	60	75.5	22,180*	77.3	20,930*	79.0	19,860*
	70	72.7	20,390	74.5	20,400	76.1	19,650*
	80	69.8	16,820	71.6	16,820	73.2	16,820
	90	66.9	14,100	68.6	14,100	70.2	14,100
	100	63.9	11,970	65.6	11,970	67.2	11,980
	110	60.8	10,260	62.5	10,260	64.0	10,260
	120	57.6	8,860	59.3	8,860	60.8	8,860
	130	54.3	7,680	56.0	7,680	57.4	7,680
40' (12.2M) JIB & 180' (54.9M) BOOM	140	50.9	6,680	52.5	6,680	53.9	6,690
	150	47.3	5,830	48.9	5,830	50.2	5,840
	160	43.4	5,090	45.0	5,090	46.2	5,090
	170	39.2	4,440	40.8	4,450	41.9	4,450
	42	80.9	22,430*				
	50	78.8	22,430*	80.6	21,320*	82.4	20,230*
	60	76.2	22,320*	77.9	21,000*	79.5	19,970*
	70	73.5	20,140	75.2	20,140	76.8	19,660*
	80	70.8	16,550	72.5	16,560	74.0	16,560
	90	68.0	13,840	69.7	13,840	71.2	13,840
	100	65.2	11,710	66.8	11,710	68.3	11,710
	110	62.3	9,990	63.9	10,000	65.4	10,000
	120	59.3	8,590	60.9	8,590	62.3	8,600
40' (12.2M) JIB & 190' (57.9M) BOOM	130	56.2	7,410	57.8	7,410	59.2	7,420
	140	53.0	6,410	54.6	6,410	55.9	6,420
	150	49.6	5,560	51.2	5,570	52.5	5,570
	160	46.1	4,820	47.6	4,820	48.9	4,820
	170	42.3	4,170	43.8	4,170	45.0	4,180
	180	38.3	3,600	39.7	3,600	40.8	3,610
	44	80.8	22,280*				
	50	79.3	21,610*	81.0	20,000*	82.7	18,890*
	60	76.8	20,450*	78.4	19,210*	80.0	17,960*
	70	74.2	19,360*	75.9	18,380*	77.4	17,390*
	80	71.6	16,310	73.3	16,310	74.7	16,310
	90	69.0	13,590	70.6	13,600	72.1	13,600
	100	66.3	11,460	67.9	11,460	69.3	11,470
40' (12.2M) JIB & 200' (61.0M) BOOM	110	63.6	9,750	65.1	9,750	66.5	9,750
	120	60.7	8,340	62.3	8,340	63.7	8,340
	130	57.8	7,150	59.4	7,160	60.7	7,160
	140	54.8	6,160	56.4	6,170	57.7	6,170
	150	51.7	5,300	53.2	5,310	54.5	5,310
	160	48.5	4,560	50.0	4,560	51.2	4,560
	170	45.0	3,910	46.5	3,910	47.6	3,920
	180	41.4	3,350	42.8	3,350	43.9	3,350
	190	37.4	2,830	38.8	2,840	39.7	2,840
	45	81.0	19,380*				
	50	79.8	18,840*				
	60	77.3	17,740*	78.9	16,740*	80.4	15,650*
	70	74.9	16,670*	76.5	15,890*	77.9	15,050*
	80	72.4	15,640*	74.0	15,050*	75.4	14,440*
40' (12.2M) JIB & 210' (64.0M) BOOM	90	69.9	13,330	71.5	13,330	72.9	13,330
	100	67.4	11,190	68.9	11,200	70.3	11,200
	110	64.7	9,480	66.3	9,480	67.6	9,490
	120	62.1	8,070	63.6	8,070	64.9	8,070
	130	59.3	6,900	60.8	6,900	62.1	6,900
	140	56.5	5,900	58.0	5,900	59.3	5,900
	150	53.6	5,040	55.1	5,040	56.3	5,040
	160	50.6	4,290	52.0	4,290	53.2	4,290
	170	47.4	3,640	48.8	3,640	49.9	3,650
	180	44.0	3,070	45.4	3,080	46.5	3,080
	190	40.4	2,560	41.8	2,560	42.8	2,570
	200	36.6	2,110	37.9	2,110	38.8	2,120
	47	80.9	16,660*				
40' (12.2M) JIB & 210' (64.0M) BOOM	50	80.2	16,360*				
	60	77.9	15,300*	79.4	14,480*	80.8	13,600*
	70	75.5	14,320*	77.0	13,710*	78.4	13,020*
	80	73.1	13,360*	74.6	12,910*	76.0	12,390*
	90	70.7	12,440*	72.2	12,080*	73.6	11,700*
	100	68.3	10,960	69.8	10,960	71.1	10,960
	110	65.8	9,250	67.3	9,250	68.6	9,250
	120	63.3	7,830	64.7	7,830	66.0	7,840
	130	60.7	6,650	62.1	6,650	63.4	6,660
	140	58.0	5,650	59.4	5,650	60.7	5,650
	150	55.3	4,790	56.7	4,790	57.9	4,790
	160	52.4	4,050	53.8	4,050	55.0	4,060
	170	49.5	3,400	50.8	3,400	51.9	3,410
50' (15.2M) JIB & 130' (39.6M) BOOM	180	46.4	2,820	47.7	2,830	48.8	2,830
	190	43.1	2,320	44.4	2,320	45.4	2,330
	200	39.6	1,870	40.9	1,870	41.8	1,870
	210	35.8	1,460	37.0	1,470	37.9	1,470
	37	80.8	20,630*				
	40	79.8	20,390*				
	50	76.6	19,680*	79.2	17,960*		
	60	73.3	19,030*	75.9	17,540*	78.4	16,230*
	70	70.0	18,400*	72.6	17,050*	75.0	15,960*
	80	66.5	17,800*	69.1	16,630*	71.5	15,630*
	90	63.0	15,210	65.6	15,210	67.9	14,590*
	100	59.4	13,090	61.9	13,090	64.1	13,100
	110	55.6	11,380	58.1	11,380	60.2	11,390
50' (15.2M) JIB & 140' (42.7M) BOOM	120	51.6	9,980	54.0	9,980	56.1	9,990
	130	47.4	8,800	49.8	8,810	51.8	8,810
	38	81.0	20,560*				
	40	80.4	20,420*				
	50	77.3	19,820*	79.8	17,980*		
	60	74.2	19,120*	76.7	17,600*	79.0	16,260*
	70	71.1	18,500*	73.5	17,100*	75.8	15,970*
	80	67.9	17,660	70.3	16,710*	72.5	15,700*
	90	64.6	14,950	67.0	14,950	69.2	14,950*
	100	61.2	12,820	63.6	12,830	65.7	12,830
	110	57.6	11,110	60.0	11,120	62.1	11,120
	120	54.0	9,710	56.3	9,720	58.3	9,720
	130	50.1	8,530	52.4	8,540	54.4	8,540
50' (15.2M) JIB & 150' (45.7M) BOOM	140	46.0	7,540	48.3	7,540	50.1	7,550
	40	80.9	20,460*				
	50	78.0	19,880*	80.3	17,970*		
	60	75.0	19,230*	77.4	17,590*	79.6	16,260*
	70	72.0	18,670*	74.4	17,220*	76.6	15,980*
	80	69.0	17,410	71.3	16,780*	73.5	15,720*
	90	65.9	14,700	68.2	14,700	70.3	14,710
	100	62.7	12,570	65.0	12,570	67.1	12,570
	110	59.4	10,860	61.7	10,860	63.7	10,860
	120	56.0	9,460	58.3	9,460	60.2	9,460
	130	52.5	8,280	54.7	8,280	56.6	8,280
	140	48.8	7,290	50.9	7,290	52.7	7,300
	150	44.8	6,430	46.9	6,430	48.6	6,440

**LIFT RATINGS IN POUNDS (continued)****With 59HI Offset Tip Boom, #9HL Jib and 52,900 Pound Counterweight**

Boom and Jib Length	Jib Radius (Feet)	5.0 Deg Offset		15.0 Deg Offset		25.0 Deg Offset	
		Boom Angle	Ratings (Pounds)	Boom Angle	Ratings (Pounds)	Boom Angle	Ratings (Pounds)
50' (15.2M) JIB & 160' (48.8M) BOOM	42	80.7	20,310*				
	50	78.5	19,870*	80.8	17,940*		
	60	75.7	19,320*	78.0	17,630*	80.1	16,180*
	70	72.9	18,770*	75.2	17,260*	77.2	15,980*
	80	70.1	17,150	72.3	16,830*	74.3	15,720*
	90	67.1	14,440	69.3	14,440	71.3	14,440
	100	64.1	12,300	66.3	12,300	68.3	12,310
	110	61.0	10,590	63.2	10,590	65.1	10,600
	120	57.9	9,190	60.0	9,190	61.9	9,190
	130	54.6	8,010	56.7	8,010	58.5	8,010
	140	51.1	7,010	53.2	7,010	55.0	7,020
50' (15.2M) JIB & 170' (51.8M) BOOM	150	47.5	6,160	49.5	6,160	51.2	6,170
	160	43.6	5,420	45.6	5,420	47.2	5,420
	43	80.9	20,250*				
	50	79.1	19,850*				
	60	76.4	19,340*	78.6	17,560*	80.6	16,120*
	70	73.7	18,800*	75.9	17,240*	77.9	15,940*
	80	71.0	16,910	73.1	16,900*	75.1	15,750*
	90	68.2	14,200	70.3	14,200	72.3	14,210
	100	65.4	12,070	67.5	12,070	69.4	12,070
	110	62.5	10,350	64.6	10,360	66.4	10,360
	120	59.5	8,940	61.5	8,940	63.4	8,950
50' (15.2M) JIB & 180' (54.9M) BOOM	130	56.4	7,770	58.4	7,770	60.2	7,780
	140	53.2	6,770	55.2	6,770	56.9	6,780
	150	49.9	5,910	51.8	5,920	53.5	5,920
	160	46.3	5,180	48.3	5,180	49.8	5,180
	170	42.6	4,530	44.5	4,530	45.9	4,540
	45	80.8	20,050*				
	50	79.5	19,860*				
	60	77.0	19,310*	79.1	17,550*		
	70	74.4	18,820*	76.5	17,210*	78.4	15,850*
	80	71.8	16,660	73.9	16,660	75.8	15,690*
	90	69.2	13,930	71.2	13,940	73.1	13,940
50' (15.2M) JIB & 190' (57.9M) BOOM	100	66.5	11,800	68.5	11,800	70.3	11,810
	110	63.8	10,090	65.8	10,090	67.5	10,090
	120	61.0	8,690	62.9	8,690	64.7	8,690
	130	58.1	7,500	60.0	7,510	61.7	7,510
	140	55.1	6,500	57.0	6,510	58.6	6,510
	150	51.9	5,640	53.8	5,650	55.4	5,650
	160	48.7	4,910	50.6	4,910	52.1	4,910
	170	45.2	4,260	47.1	4,260	48.5	4,270
	180	41.6	3,690	43.4	3,690	44.7	3,690
	46	80.9	19,910*				
	50	80.0	19,720*				
50' (15.2M) JIB & 200' (61.0M) BOOM	60	77.6	19,250*	79.5	17,490*		
	70	75.1	18,530*	77.1	17,180*	78.9	15,740*
	80	72.6	16,400	74.6	16,410	76.4	15,530*
	90	70.1	13,690	72.1	13,690	73.8	13,690
	100	67.6	11,560	69.5	11,560	71.2	11,560
	110	64.9	9,840	66.9	9,840	68.6	9,850
	120	62.3	8,430	64.2	8,430	65.9	8,430
	130	59.5	7,250	61.4	7,250	63.1	7,250
	140	56.7	6,250	58.6	6,250	60.2	6,250
	150	53.8	5,400	55.6	5,400	57.2	5,400
	160	50.8	4,650	52.6	4,650	54.1	4,650
50' (15.2M) JIB & 200' (61.0M) BOOM	170	47.6	4,000	49.4	4,000	50.8	4,010
	180	44.2	3,420	46.0	3,430	47.4	3,430
	190	40.6	2,920	42.3	2,920	43.6	2,930
	48	80.8	18,250*				
	50	80.4	18,030*				
	60	78.1	16,970*	80.0	15,670*		
	70	75.7	15,980*	77.6	14,990*	79.4	13,870*
	80	73.3	15,030*	75.2	14,250*	77.0	13,410*
	90	70.9	13,420	72.8	13,430	74.5	12,850*
	100	68.5	11,290	70.3	11,290	72.0	11,300
	110	66.0	9,580	67.9	9,580	69.5	9,580
50' (15.2M) JIB & 200' (61.0M) BOOM	120	63.5	8,160	65.3	8,160	66.9	8,170
	130	60.9	6,980	62.7	6,980	64.3	6,990
	140	58.2	5,980	60.0	5,980	61.6	5,990
	150	55.5	5,130	57.2	5,130	58.8	5,140
	160	52.6	4,380	54.4	4,380	55.8	4,390
	170	49.7	3,730	51.4	3,730	52.8	3,740
	180	46.6	3,150	48.3	3,160	49.6	3,160
	190	43.3	2,650	44.9	2,650	46.2	2,660
	200	39.8	2,200	41.4	2,200	42.6	2,200
	49	80.8	15,080*				
	50	80.6	15,030*				
60' (18.3M) JIB & 150' (45.7M) BOOM	60	78.3	14,550*				
	70	75.9	14,110*	80.5	12,960*		
	80	73.5	13,690*	78.2	12,680*	80.3	11,470*
	90	71.1	13,310*	75.8	12,360*	77.9	11,220*
	100	68.7	11,640	73.4	12,050*	75.5	10,900*
	110	66.2	9,930	70.9	11,640	73.0	10,660*
	120	63.7	8,510	68.4	9,930	70.4	9,930
	130	61.1	7,330	65.9	8,520	67.9	8,520
	140	58.4	6,340	63.3	7,330	65.2	7,340
	150	55.7	5,480	60.6	6,340	62.5	6,350
	160	52.8	4,730	57.8	5,480	59.7	5,490
60' (18.3M) JIB & 180' (54.9M) BOOM	170	49.9	4,080	54.9	4,730	56.7	4,740
	180	46.8	3,500	51.9	4,080	53.7	4,090
	190	43.5	3,000	48.8	3,510	50.5	3,510
	44	80.8	15,230*				
	50	79.8	14,980*				
	60	77.2	14,470*	79.7	12,950*		
	70	74.7	13,990*	77.1	12,650*	79.5	11,430*
	80	72.1	13,580*	74.5	12,230*	76.8	11,120*
	90	69.4	13,130*	71.9	11,810*	74.1	10,780*
	100	66.7	12,150	69.2	11,440*	71.4	10,520*
	110	64.0	10,440	66.4	10,440	68.6	10,260*
60' (18.3M) JIB & 180' (54.9M) BOOM	120	61.2	9,040	63.5	9,040	65.7	9,040
	130	58.3	7,850	60.6	7,860	62.7	7,860
	140	55.3	6,850	57.6	6,860	59.6	6,860
	150	52.2	5,990	54.5	6,000	56.4	6,000
	160	48.9	5,260	51.2	5,260	53.1	5,260
	170	45.5	4,610	47.7	4,610	49.5	4,620
	47	80.9	15,160*				
	50	80.2	15,010*				
	60	77.8	14,540*	80.1	12,950*		
	70	75.3	14,080*	77.7	12,640*	79.9	11,500*
	80	72.8	13,660*	75.2	12,350*	77.4	11,180*
60' (18.3M) JIB & 190' (57.9M) BOOM	90	70.3	13,210*	72.7	11,940*	74.8	10,860*
	100	67.8	11,900	70.1	11,530*	72.2	10,610*
	110	65.2	10,170	67.5	10,170	69.5	10,180
	120	62.5	8,770	64.8	8,770	66.8	8,780
	130	59.7	7,590	62.0	7,590	64.0	7,590
	140	56.9	6,590	59.2	6,590	61.1	6,590
	150	54.0	5,740	56.2	5,740	58.1	5,740
	160	51.0	4,990	53.2	4,990	55.0	5,000
	170	47.8	4,340	49.9	4,340	51.7	4,350
	180	44.4	3,770	46.5	3,770	48.2	3,770
	49	80.8	15,080*				
	50	80.6	15,030*				
60' (18.3M) JIB & 190' (57.9M) BOOM	60	78.3	14,550*	80.5	12,960*		
	70	75.9	14,110*	78.2	12,680*	80.3	11,470*
	80	73.5	13,690*	75.8	12,360*	77.9	11,220*
	90	71.1	13,310*	73.4	12,050*	75.5	10,900*
	100	68.7	11,640	70.9	11,640	73.0	10,660*
	110	66.2	9,930	68.4	9,930	70.4	9,930
	120	63.7	8,510	65.9	8,520	67.9	8,520
	130	61.1	7,330	63.3	7,330	65.2	7,340
	140	58.4	6,340	60.6	6,340	62.5	6,350
	150	55.7	5,480	57.8	5,480	59.7	5,490
	160	52.8	4,730	54.9	4,730	56.7	4,740
60' (18.3M) JIB & 200' (61.0M) BOOM	170	49.9	4,080	51.9	4,080	53.7	4,090
	180	46.8	3,500	48.8	3,510	50.5	3,510
	190	43.5	3,000	45.5	3,000	47.1	3,010
	44	80.9	15,230*				
	50	79.8	14,980*				
	60	77.2	14,470*	79.7	12,950*		
	70	74.7	13,990*	77.1	12,650*	79.5	11,430*
	80	72.1	13,580*	74.5	12,230*	76.8	11,120*
	90	69.4	13,130*	71.9	11,810*	74.1	10,780*
	100	66.7	12,150	69.2	11,440*	71.4	10,520*
	110	64.0	10,440	66.4	10,440	68.6	10,260*

**LIFT RATINGS IN POUNDS (continued)****With 59HI Offset Tip Boom, #9HL Jib and 52,900 Pound Counterweight**

Boom and Jib Length	Jib Radius (Feet)	5.0 Deg Offset		15.0 Deg Offset		25.0 Deg Offset	
		Boom Angle	Ratings (Pounds)	Boom Angle	Ratings (Pounds)	Boom Angle	Ratings (Pounds)
60' (18.3M) JIB & 200' (61.0M) BOOM	50	80.9	14,980*				
	60	78.7	14,550*	80.9	12,900*		
	70	76.5	14,130*	78.7	12,670*	80.7	11,330*
	80	74.2	13,770*	76.4	12,410*	78.4	11,260*
	90	71.9	13,380*	74.1	12,090*	76.1	10,980*
	100	69.6	11,380	71.7	11,390	73.7	10,710*
	110	67.2	9,660	69.3	9,660	71.3	9,670
	120	64.8	8,250	66.9	8,250	68.8	8,250
	130	62.3	7,070	64.4	7,080	66.3	7,080
	140	59.8	6,070	61.8	6,070	63.7	6,080
	150	57.2	5,210	59.2	5,210	61.0	5,220
	160	54.5	4,460	56.5	4,460	58.3	4,470
70' (21.3M) JIB & 180' (54.9M) BOOM	170	51.7	3,810	53.7	3,820	55.4	3,820
	180	48.8	3,240	50.8	3,240	52.5	3,240
	190	45.8	2,730	47.7	2,730	49.3	2,740
	200	42.6	2,270	44.5	2,280	46.0	2,280
	50	80.8	11,870*				
	60	78.5	11,420*				
	70	76.1	11,000*	78.8	9,560*		
	80	73.7	10,530*	76.4	9,190*	78.9	8,190*
	90	71.3	10,060*	74.0	8,820*	76.4	7,940*
	100	68.9	9,600*	71.5	8,520*	73.9	7,710*
	110	66.4	9,220*	69.0	8,240*	71.4	7,470*
	120	63.9	8,830	66.4	7,980*	68.8	7,290*
130' (40.2M) JIB & 160' (48.8M) BOOM	130	61.3	7,650	63.8	7,650	66.1	7,140*
	140	58.6	6,650	61.1	6,650	63.4	6,660
	150	55.9	5,800	58.4	5,800	60.6	5,810
	160	53.0	5,050	55.5	5,050	57.6	5,060
	170	50.0	4,400	52.5	4,400	54.6	4,410
	180	46.9	3,820	49.4	3,830	51.4	3,830

Boom and Jib Length	Jib Radius (Feet)	5.0 Deg Offset		15.0 Deg Offset		25.0 Deg Offset	
		Boom Angle	Ratings (Pounds)	Boom Angle	Ratings (Pounds)	Boom Angle	Ratings (Pounds)
70' (21.3M) JIB & 190' (57.9M) BOOM	51	80.9	11,850*				
	60	78.9	11,460*				
	70	76.7	11,060*	79.2	9,620*		
	80	74.4	10,680*	76.9	9,240*	79.3	8,200*
	90	72.1	10,180*	74.6	8,900*	77.0	7,980*
	100	69.7	9,740*	72.3	8,590*	74.6	7,750*
	110	67.4	9,360*	69.9	8,320*	72.2	7,520*
	120	65.0	8,580	67.4	8,040*	69.7	7,340*
	130	62.5	7,400	64.9	7,410	67.2	7,180*
	140	60.0	6,400	62.4	6,410	64.6	6,410
	150	57.4	5,540	59.8	5,540	61.9	5,550
	160	54.7	4,800	57.1	4,800	59.2	4,810
70' (21.3M) JIB & 200' (61.0M) BOOM	170	51.9	4,140	54.3	4,150	56.3	4,150
	180	49.0	3,580	51.3	3,580	53.3	3,580
	190	46.0	3,060	48.3	3,060	50.2	3,070
	53	80.8	11,790*				
	60	79.3	11,490*				
	70	77.2	11,110*	79.6	9,660*		
	80	75.0	10,720*	77.4	9,310*	79.7	8,230*
	90	72.8	10,290*	75.2	8,980*	77.5	8,010*
	100	70.5	9,860*	73.0	8,670*	75.2	7,790*
	110	68.3	9,470*	70.7	8,380*	72.9	7,580*
	120	65.9	8,320	68.3	8,130*	70.5	7,380*
	130	63.6	7,140	66.0	7,140	68.1	7,150
140' (42.7M) JIB & 170' (51.8M) BOOM	140	61.2	6,140	63.5	6,140	65.7	6,140
	150	58.7	5,270	61.1	5,280	63.1	5,280
	160	56.2	4,530	58.5	4,540	60.5	4,540
	170	53.6	3,870	55.9	3,880	57.8	3,880
	180	50.8	3,310	53.1	3,310	55.0	3,320
	190	48.0	2,790	50.3	2,790	52.1	2,800
	200	45.0	2,340	47.3	2,350	49.0	2,350

JIB COMPOSITION CHART**#9HL Jib Composition**

Jib Length Feet	20' Inner	10' Center	20' Outer	20' Outer
40	1	0	0	1
50	1	1	0	1
60	1	0	1	1
70	1	1	1	1

MAXIMUM BOOM & JIB SELF-ERECTION DATA

	Over The End		Over The Side (with Extenders in place)	
	Boom Length Ft.	Jib Length Ft.	Boom Length Ft.	Jib Length Ft.
#9HL JIB	230	0	-	-
	220	0	220	0
	210	20	210	0
	200	40	200	50

LOAD HOISTING INFORMATION

7/8" Diameter EIPS Wire Rope		
Maximum Lifting Capacity (Pounds)	Minimum Parts of Line	Maximum Auxiliary Hoisting Distance (Feet)
181,900	8	78
159,200	7	89
136,450	6	104
113,700	5	125
90,950	4	156
68,200	3	208
45,450	2	313
22,700	1	626

1" Diameter EIPS Wire Rope		
Maximum Lifting Capacity (Pounds)	Minimum Parts of Line	Maximum Main Hoisting Distance (Feet)
220,000	8	130
206,800	7	148
177,250	6	173
147,700	5	208
118,150	4	260
88,600	3	346
59,050	2	520
29,500	1	1,040

BOOM COMPOSITION CHART

Boom Length Feet	Boom Sections				
	25' 59HI Inner	10' 59H Center	20' 59H Center	40' 59H Center	25' 59HI Outer
50	1	0	0	0	1
60	1	1	0	0	1
70	1	0	1	0	1
80	1	1	1	0	1
90	1	0	0	1	1
100	1	1	0	1	1
110	1	0	1	1	1
120	1	1	1	1	1
130	1	0	0	2	1
140	1	1	0	2	1
150	1	0	1	2	1
160	1	1	1	2	1
170	1	0	0	3	1
180	1	1	0	3	1
190	1	0	1	3	1
200	1	1	1	3	1
210	1	0	0	4	1
220	1	1	0	4	1
230	1	0	1	4	1



HOIST DRUM PERFORMANCE

THIRD DRUM – 3/4" Diameter Rope			
Rope Layer	Line Speed (Feet per Minute)	Single Line Pull	Total Rope Length
1st*	225	18,000	108
2nd*	245	17,222	224
3rd*	262	16,094	348
4th*	279	15,104	480
5th*	296	14,230	620
6th**	314	N/A	769
7th**	331	N/A	925

6 x 25 RRL, EIPS, IWRC, 58,800# MBS; Part No. 809387

AUXILIARY DRUM – 7/8" Diameter Rope					
Rope Layer	High Range		Low Range		Total Rope Length
	Line Speed (Feet per Minute)	Single Line Pull	Line Speed (Feet per Minute)	Single Line Pull	
1st*	348	26,140	241	37,670	64
2nd*	377	24,100	262	34,720	128
3rd*	407	22,360	282	32,210	204
4th*	433	20,860	303	30,040	278
5th*	466	19,540	323	28,150	364
6th*	495	18,380	343	26,450	449
7th*	524	17,350	364	24,990	545
8th*	553	16,430	384	23,670	640
9th**	583	15,600	404	22,450	747
10th**	612	14,850	425	21,400	852

**Single Line Pull reflects the maximum hydraulic capacity of the hoist unit at the given layer and range setting. The allowable single line pull may be limited by the strength of the hoist rope. See load hoisting table for rope limitations.

MAIN HOIST – 1" Diameter Rope					
Rope Layer	High Range		Low Range		Total Rope Length
	Line Speed (Feet per Minute)	Single Line Pull	Line Speed (Feet per Minute)	Single Line Pull	
1st*	322	28,210	224	40,640	105
2nd*	350	26,010	243	37,470	212
3rd*	377	24,130	261	34,760	335
4th*	404	22,500	281	32,420	459
5th*	431	21,080	299	30,370	599
6th*	459	19,830	318	28,570	741
7th*	486	18,720	337	26,960	898
8th*	513	17,720	357	25,530	1,056
9th**	540	16,830	375	24,240	1,232
10th**	568	16,020	394	23,080	1,407

* = Working Layers • ** = Storage Layers

SPECIFICATIONS

Swing Speed 3.00 RPM
 Travel Speed 87 MPH High Range
 0.6 MPH Low Range
 Gradeability 30% (approximately 17°)

CRANE RATING DATA



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 Cooperation Service Bulletin #259.

The ratings in this chart are for planning purposes only. Only those ratings specifically assigned to a crane and mounted in the operator's cab or in the Operator's Manual should be used for actual operation.

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.

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.

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 12 parts of 3/4 inch diameter IPS wire rope with a minimum breaking strength of 51,200 pounds.

PENDANT SUSPENSION LINE is 2 parts of 1-3/8 inch diameter EIPS wire rope with a minimum breaking strength of 211,000 pounds.

JIB BACKSTAY AND FRONTSTAY LINES are 2 parts of 0.875 inch diameter IPS wire rope with a minimum breaking strength of 69,200 pounds.

MAIN LOAD LINE is 1.000 inch diameter EIPS wire rope with a minimum breaking strength of 103,400 pounds.

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

ERECTION

Erection "OVER THE END" is with the boom over the idler end with idler tumblers blocked (See operator's manual for blocking instructions). Erection "OVER THE SIDE" is with the boom 90° to the sideframes and with the side frames extended. Blocks, slings and other carrying devices must be on the ground during erection.

**LOADS FOR TRANSPORT – HC110 Machine with 200ft 59”H Boom & 70 ft Jib**

Loads required as follows (weights shown do not include blocking or tie-down material):

Load No. 1 – Step Deck**Lbs.**

2x Crawler Side Frame Counterweights (11,500 lbs each)	23,000
1x 40ft Boom Center Section with Pendants	2,670
1x 20ft Jib Inner	890
1x Upper Counterweight	4,400

Total Load**30,960****Load No. 2 – Step Deck****Lbs.**

Middle Portion of Counterweight	12,100
1x 40ft Boom Center Section	2,670
1x 20ft Jib Inner	480
1x Upper Counterweight	4,400

Total Load**19,650****Load No. 3 – Step Deck****Lbs.**

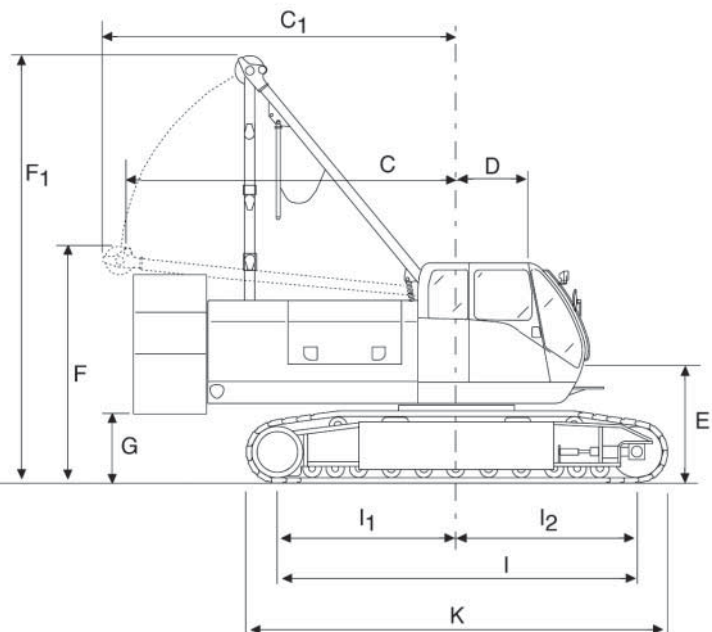
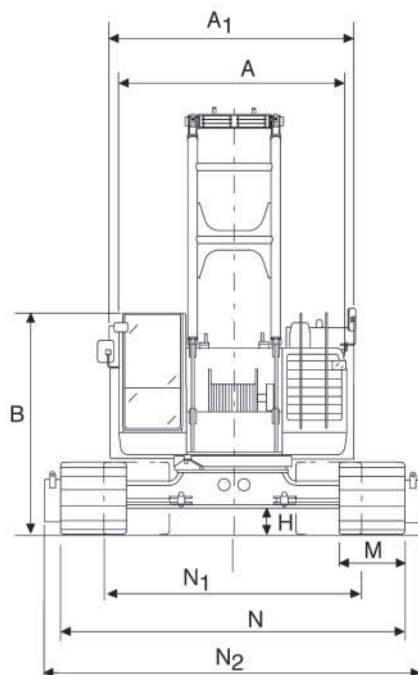
Lower Portion of Counterweight	32,000
1x 25ft Boom Outer Section	4,200
1x 20ft Boom Center Section with Pendants	1,975
Main Load Block	1,500
Overhaul Ball	650

Total Load**40,325****Load No. 4 – Step Deck****Lbs.**

1x 10ft Boom Center Section	1,060
1x 40ft Boom Center Sections	2,670
10ft Jib Center Section	190
20ft Jib Center Section	385

Total Load**4,305****Load No. 5 – Basic Crane**

- Complete Upper Structure
- Carbody & Sideframes
- Retractable A-Frame
- Boom Inner Section and Boom Stops
- Third Drum

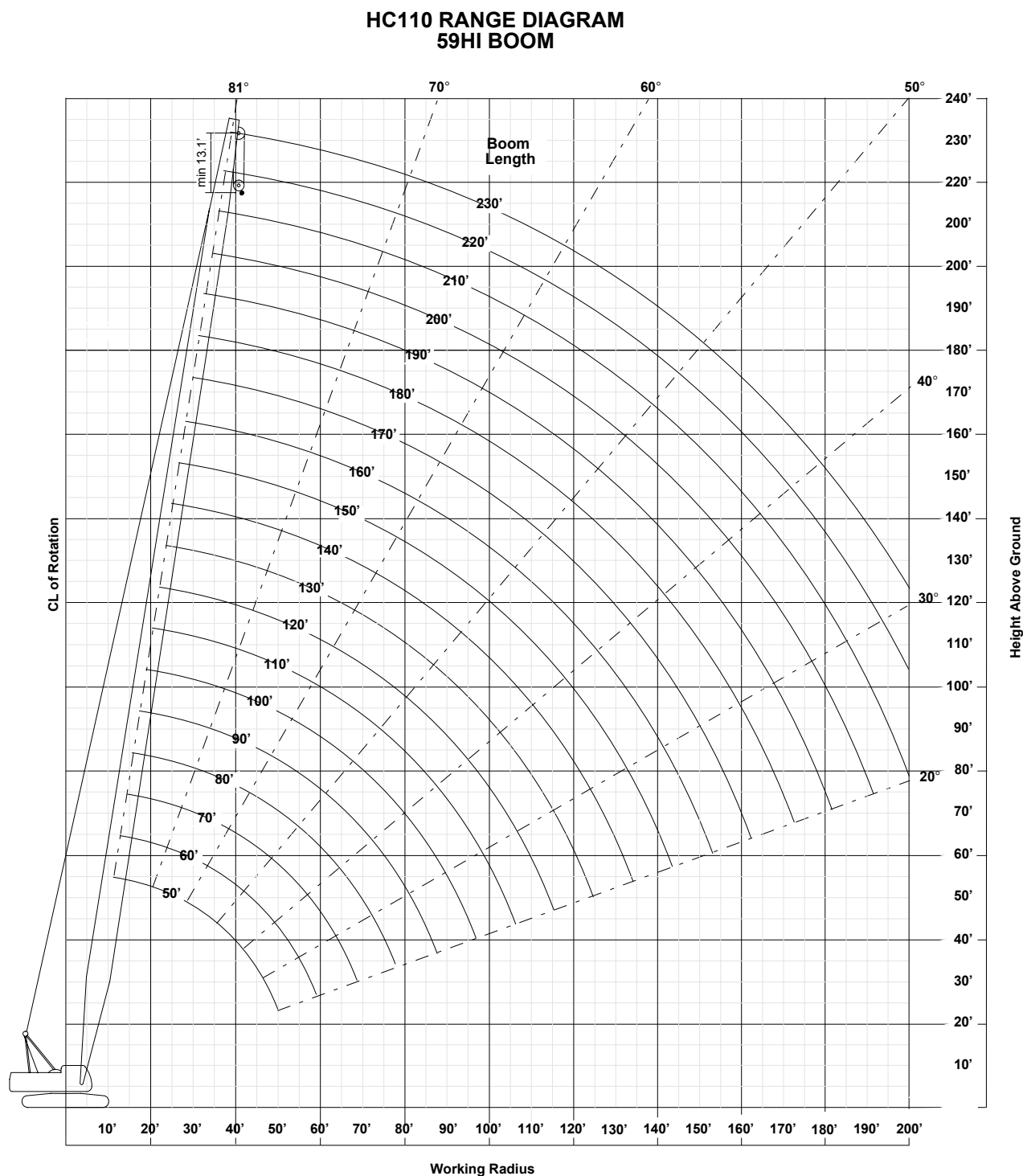
Total Weight of Basic Crane, Etc.**105,000 Lbs.**

	FT	MM
A Width of machinery cab	11'-5/8"	3,369
A ₁ Width of counterweight	11'-9 3/4"	3,423
B Height over operator's cab	11'-0"	3,353
C Tail swing	16'-4 7/8"	5,001
C ₁ Center rotation to end of A-frame lowered	17'-5 7/8"	5,331
D Center rotation to boom foot	3'-7 1/4"	1,100
E Ground to center of boom foot	6'-4 1/2"	1,943
F Height over A-Frame lowered	11'-5 5/8"	3,496
F ₁ Height over A-Frame raised	21'-9 1/8"	6,633
G Ground to bottom of counterweight	3'-9"	1,143
H Minimum ground clearance	1'-5"	432

	FT	MM
I Center to center of crawler tumbler	17'-11"	5,461
I ₁ Center of drive tumbler to center of rotation	8'-11 1/2"	2,731
I ₂ Center of idler tumbler to center of rotation	8'-11 1/2"	2,731
K Overall length of crawlers	20'-10 3/4"	6,370
M Width of tread shoe (standard)	36"	915
N Overall width of crawlers, Shoes Extended (Type A) ...	16'-2 5/8"	4,943
Overall width of crawlers, Shoes Extended (Type B)	17'-1/2"	5,195
N ₁ Shoes Retracted	11'-9 3/4"	3,600
N ₂ Width over sideframe counterweights extended		
Type A	17'-9 5/8"	5,655
Type B	18'-7 3/8"	5,675



AMERICAN MODEL HC 110 WORKING RANGES WITH 59HI BOOM





Hydraulic Crawler Crane 59 HI Boom





Hydraulic Crawler Crane 59 HI Boom



AMERICAN HC 110

Hydraulic Crawler Crane

Max. Lifting Capacity:
110 tons (80 mt)

230 ft. (70 m) MAXIMUM LIFT CRANE BOOM

- 59HI tubular chord boom, pin connected.
- 25 ft. (7.6 m) inner and outer and 10/20/40 ft. (3/6/12 m) available inserts provide boom compositions in 10 ft. (3 m) increments from 50 ft. (15.2 m) to 230 ft. (70 m).

ENVIRONMENTAL OPERATOR'S CAB

- Designed to provide excellent viewing range and quiet, comfortable operation.
- 37 in. (.91 m) wide cab has wide curved 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 a shockless stop system. Operator can select from three display modes: loaded condition diagram, rated lifting curve, and rated lifting load table.
- Adjustable operator's seat, radio, air conditioner, overhead window, sun visor, fan, overhead and front wipers, and drum rotation indicators 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.



Environmental operator's cab

- Crawlers have high alloy steel tumbler yokes and rigid fabricated structures with built-in sealed automatic lubrication system.
- 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 – 0.60/0.87 mph (0.96/1.4 km/h).
- 30% (17°) gradeability.

POWERFUL, HIGH-SPEED HOIST SYSTEM

- Independent main and auxiliary load hoisting drums. Main drum is grooved for 1 in. (25 mm) diameter rope. Max line speed is 513 fpm (156 m/min), max single line pull is 40,640 lbs. (18 435 kg). Rated single line pull is 29,500 lbs. (13 381 kg). Auxiliary drum is grooved for 7/8 in. (22.4 mm) diameter rope. Max line speed is 553 fpm (168 m/min), max single line pull is 37,670 lbs. (17 086 kg). Rated single line pull is 22,700 lbs. (10 297 kg). Freefall on main and auxiliary drums.
- Each drum, including optional third, has power up/down. Load hoists are further controllable in stepless mode.
- Ample work space in front of drums allows easy access for cable installation and maintenance.
- External contracting brake.
- Internal expanding band clutch.
- 3.0 rpm swing speed.



Hydraulic removable counterweight system

HIGH CAPACITY, DEPENDABLE HYDRAULIC SYSTEM

- Open circuit system has 5 variable displacement piston pumps with system capacity of 183 gpm (692 lpm).
- Hydraulic reservoir with 79 gal. (300 l) capacity and 10 micron filtration.
- Component working range is between -4 and 203° F (-20 and 95° C).
- 230 HP (171 kW) @ 2000 RPM Cummins 6CTA 8.3 turbocharged diesel engine. Fuel tank capacity is 105 gal. (397 l).

FOUR PIECE REMOVABLE COUNTERWEIGHT

- Four piece pin connected counterweight can be assembled or disassembled easily within minutes.
- Hydraulic counterweight removal system is standard and makes the HC 110 one of the most transportable cranes in its class.
- Moves on four trucks with full boom and #9HL jib. At 17 ft. 0.5 in. (5.2 m) wide and 11 ft. (3.35 m) high, the basic HC 110 will transport on a standard lowboy trailer.

OPTIONS INCLUDE:

- Third drum.
- Automotive type lights.
- Hydraulic power take off.
- Jib and jib inserts.



TEREX®

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