

# AMERICAN

# TRUCK CRANE MODEL 7150

With 59H Tubular Chord Lattice Boom with Open Throat Tip and "A-B-C"  
Counterweight (42,000 lbs.) and Bumper Counterweight (13,600 lbs.)

Axle #1 = 17,000  
Axle #2 = 17,100  
Axle #3 = 22,300  
Axle #4 = 21,300  
Total 77,600 Pounds

Boom Length in Feet	Radius in Feet	Boom Angle Degrees	Free On Tires Over Rear	Outriggers Set		Ft. From Boom Point To Ground
				360 Degrees	Over Rear	
50 feet	12	81.0	90,370 *	250,000 *	250,000 *	57
	15	77.5	81,140 *	213,130 *	215,960 *	57
	20	71.5	69,040 *	159,510 *	164,530 *	55
	25	65.3	60,120 *	127,080 *	132,310 *	53
	30	58.8	53,160 *	94,800 *	110,280 *	50
	35	51.7	47,460 *	74,570 *	94,570 *	47
	40	43.9	40,120 *	61,190 *	82,280 *	42
	50	22.3	30,310 *	44,500 *	58,090 *	26
60 feet	14	80.6	83,120 *	226,610 *	228,710 *	67
	15	79.6	80,490 *	212,800 *	214,640 *	67
	20	74.7	68,750 *	159,200 *	163,750 *	66
	25	69.6	59,600 *	126,810 *	132,220 *	64
	30	64.4	52,710 *	94,900 *	110,200 *	62
	35	59.0	47,110 *	74,630 *	94,500 *	59
	40	53.2	40,040 *	61,240 *	80,600 *	56
	50	39.8	30,280 *	44,580 *	60,100 *	46
60	20.3	23,980 *	34,560 *	46,620 *	28	
70 feet	16	80.3	77,300 *	199,260 *	201,380 *	77
	20	76.9	68,340 *	158,990 *	163,330 *	76
	25	72.7	59,480 *	126,620 *	131,710 *	75
	30	68.3	52,390 *	94,970 *	110,120 *	73
	35	63.8	46,820 *	74,680 *	92,800 *	70
	40	59.1	40,000 *	61,280 *	79,190 *	68
	50	48.9	30,250 *	44,620 *	60,150 *	60
	60	36.7	23,990 *	34,630 *	46,880 *	49
70	18.8	19,630 *	27,960 *	37,900 *	30	
80 feet	17	80.8	74,280 *	187,000 *	189,220 *	87
	20	78.6	67,720 *	158,580 *	162,650 *	86
	25	74.9	58,910 *	126,250 *	131,350 *	85
	30	71.1	51,830 *	94,910 *	109,600 *	83
	35	67.3	46,320 *	74,590 *	91,070 *	82
	40	63.3	39,810 *	61,180 *	77,780 *	79
	50	54.9	30,080 *	44,510 *	59,330 *	73
	60	45.5	23,810 *	34,500 *	46,760 *	65
70	34.2	19,460 *	27,340 *	37,970 *	52	
80	17.5	16,290 *	23,080 *	31,130 *	31	
90 feet	19	80.5	69,550 *	166,880 *	170,100 *	97
	20	79.9	67,430 *	158,350 *	162,000 *	96
	25	76.6	58,660 *	126,050 *	130,700 *	95
	30	73.3	51,770 *	94,900 *	108,910 *	94
	35	69.9	46,070 *	74,570 *	90,510 *	92
	40	66.5	39,730 *	61,150 *	76,780 *	90
	50	59.3	30,020 *	44,480 *	58,690 *	85
	60	51.5	23,750 *	34,470 *	45,410 *	78
70	42.8	19,420 *	27,820 *	37,950 *	69	
80	32.2	16,290 *	23,080 *	31,650 *	55	
90	16.5	13,820 *	19,550 *	26,280 *	33	
100 feet	20	80.9	66,870 *	158,060 *	160,650 *	107
	25	78.0	57,980 *	125,640 *	130,090 *	106
	30	75.0	51,130 *	94,810 *	107,360 *	104
	35	72.0	45,740 *	74,440 *	89,370 *	103
	40	69.0	39,510 *	61,010 *	75,850 *	101
	50	62.7	29,800 *	44,310 *	57,820 *	96
	60	56.0	23,540 *	34,280 *	45,740 *	90
	70	48.7	19,190 *	27,620 *	37,750 *	83
80	40.5	16,100 *	22,870 *	31,400 *	72	
90	30.5	13,640 *	19,390 *	26,490 *	58	
100	15.6	11,680 *	16,590 *	22,530 *	34	

Boom Length in Feet	Radius in Feet	Boom Angle Degrees	Free On Tires Over Rear	Outriggers Set		Ft. From Boom Point To Ground
				360 Degrees	Over Rear	
110 feet	22	80.7	62,470 *	142,930 *	145,700 *	116
	25	79.1	57,710 *	125,290 *	129,410 *	116
	30	76.4	50,760 *	94,680 *	105,110 *	115
	35	73.7	45,260 *	74,300 *	88,310 *	113
	40	71.0	39,320 *	60,860 *	74,730 *	112
	50	65.3	29,630 *	44,160 *	57,120 *	108
	60	59.4	23,350 *	34,110 *	45,220 *	102
	70	53.2	19,010 *	27,440 *	37,370 *	96
	80	46.3	15,940 *	22,700 *	31,100 *	87
	90	38.5	13,480 *	19,240 *	26,360 *	76
	100	29.0	11,540 *	16,460 *	22,670 *	61
110	14.8	9,970 *	14,220 *	19,270 *	36	
120 feet	23	81.0	54,900 *	136,050 *	137,280 *	126
	25	80.0	54,900 *	124,870 *	128,040 *	126
	30	77.6	60,260 *	94,570 *	104,860 *	125
	35	75.1	44,640 *	74,140 *	87,220 *	124
	40	72.6	39,090 *	60,700 *	73,770 *	122
	50	67.5	29,390 *	43,970 *	55,320 *	119
	60	62.2	23,110 *	33,900 *	45,190 *	114
	70	56.7	18,760 *	27,220 *	36,790 *	108
	80	50.7	15,710 *	22,590 *	30,740 *	100
	90	44.2	13,250 *	19,010 *	25,960 *	91
	100	36.8	11,320 *	16,230 *	22,650 *	79
110	27.8	9,750 *	14,010 *	19,390 *	63	
120	14.2	8,440 *	12,180 *	16,460 *	37	
130 feet	25	80.8	49,190 *	123,660 *	123,650 *	136
	30	78.5	49,190 *	94,410 *	103,960 *	135
	35	76.3	44,410 *	73,980 *	86,440 *	134
	40	74.0	38,910 *	60,530 *	73,090 *	133
	50	69.3	29,320 *	43,810 *	55,790 *	129
	60	64.5	22,950 *	33,740 *	44,790 *	125
	70	59.5	18,600 *	27,050 *	36,410 *	120
	80	54.2	15,560 *	22,440 *	30,440 *	113
	90	48.6	13,110 *	18,860 *	25,750 *	105
	100	42.4	11,180 *	16,080 *	22,560 *	95
	110	35.3	9,610 *	13,870 *	19,360 *	83
120	26.6	8,320 *	12,050 *	16,670 *	66	
130	13.6	7,230 *	10,530 *	14,260 *	38	
140 feet	27	80.6		111,470 *	111,470 *	146
	30	79.4		94,290 *	102,900 *	145
	35	77.3		73,820 *	85,490 *	144
	40	75.2		60,370 *	72,240 *	143
	50	70.9		43,610 *	55,050 *	140
	60	66.5		33,520 *	44,130 *	136
	70	61.9		26,810 *	35,810 *	131
	80	57.2		22,200 *	29,910 *	125
	90	52.1		18,620 *	25,270 *	118
	100	46.7		15,840 *	22,150 *	109
	110	40.8		13,620 *	19,020 *	99
120	34.0		11,800 *	16,430 *	86	
130	25.6		10,280 *	14,210 *	68	
140	13.1		8,990 *	12,200 *	39	
150 feet	28	80.8		97,550 *	97,550 *	156
	30	80.1		94,110 *	96,900 *	156
	35	78.1		73,630 *	84,720 *	155
	40	76.2		60,180 *	71,540 *	153
	50	72.2		43,410 *	54,460 *	151
	60	68.1		33,300 *	43,600 *	147
	70	63.9		26,590 *	35,330 *	142

**With 59H Tubular Chord Lattice Boom with Open Throat Tip and "A-B-C" Counterweight and Bumper Counterweight**

Boom Length in Feet	Radius in Feet	Boom Angle Degrees	Free On Tires Over Rear	Outriggers Set		Ft. From Boom Point To Ground
				360 Degrees	Over Rear	
150 feet (cont.)	80	59.6		21,990	29,480 *	137
	90	55.0		18,410	24,870 *	131
	100	50.2		15,620	21,810 *	123
	110	45.0		13,410	18,720 *	114
	120	39.3		11,580	16,160 *	102
	130	32.8		10,070	14,010 *	89
	140	24.8		8,790	12,160 *	70
150	12.7		7,690	10,460 *	40	
160 feet	30	80.7		84,250 *	84,250 *	166
	35	78.9		73,480	82,940 *	165
	40	77.1		59,990	70,760 *	164
	50	73.3		43,210	53,760 *	161
	60	69.6		33,070	42,950 *	158
	70	65.7		26,340	34,730 *	153
	80	61.7		21,750	28,930 *	148
	90	57.5		18,160	24,360 *	143
	100	53.2		15,370	21,340 *	136
	110	48.5		13,140	18,270 *	127
	120	43.5		11,320	15,750 *	118
	130	38.0		9,810	13,650 *	106
	140	31.7		8,520	11,850 *	91
150	24.0		7,430	10,280 *	72	
160	12.3		6,470	8,850 *	41	
170 feet	31	80.9		73,490 *	73,490 *	176
	35	79.6		72,520 *	72,520 *	175
	40	77.8		59,780	70,230 *	174
	50	74.3		43,000	53,300 *	171
	60	70.8		32,860	42,540 *	168
	70	67.2		26,130	34,350 *	164
	80	63.5		21,550	28,590 *	160
	90	59.6		17,960	24,040 *	154
	100	55.6		15,170	21,040 *	148
	110	51.4		12,940	18,000 *	140
	120	47.0		11,120	15,500 *	132
	130	42.1		9,610	13,410 *	122
	140	36.8		8,320	11,630 *	109
150	30.7		7,230	10,110 *	94	
160	23.2		6,280	8,750 *	74	
170	11.9		5,450	7,510 *	42	
180 feet	33	80.8		63,970 *	63,970 *	186
	35	80.1		63,510 *	63,510 *	185
	40	78.5		59,600	62,460 *	184
	50	75.2		42,790	52,640 *	182
	60	71.9		32,630	41,910 *	179
	70	60.5		25,890	33,760 *	175
	80	65.1		21,310	28,040 *	171
	90	61.5		17,710	23,510 *	166
	100	57.8		14,910	20,530 *	160
	110	53.9		12,690	17,510 *	153
	120	49.9		10,850	15,030 *	145
	130	45.6		9,340	12,970 *	136
	140	40.9		8,050	11,210 *	125
150	35.7		6,960	9,710 *	113	
160	29.8		6,000	8,400 *	97	
170	22.5		5,170	7,250 *	76	
180	11.5		4,450	6,190 *	43	
190 feet	34	81.0		56,330 *	56,330 *	196
	35	80.7		56,040 *	56,040 *	195
	40	79.1		55,140 *	55,140 *	194
	50	76.0		42,570	52,110 *	192
	60	72.9		32,400	41,410 *	189
	70	69.7		25,640	33,290 *	186
	80	66.5		21,070	27,610 *	182
	90	63.1		17,470	23,100 *	177
	100	59.7		14,680	20,130 *	172
	110	56.1		12,430	17,120 *	165
	120	52.4		10,610	14,650 *	158
	130	48.5		9,100	12,610 *	150
	140	44.3		7,810	10,060 *	140
150	39.8		6,710	9,300 *	129	
160	34.8		5,750	8,080 *	116	
170	29.0		4,930	6,950 *	99	
180	21.9		4,200	5,950 *	78	
190	11.2		3,560	5,030 *	44	
200 feet	36	80.8		49,550 *	49,550 *	205
	40	79.7		48,810 *	48,810 *	205
	50	76.7		42,360	46,360 *	202
	60	73.8		32,160	40,800 *	200
	70	70.8		25,390	32,700 *	197
	80	67.7		20,830	27,060 *	193
	90	64.6		17,210	22,560 *	188

Boom Length in Feet	Radius in Feet	Boom Angle Degrees	Free On Tires Over Rear	Outriggers Set		Ft. From Boom Point To Ground
				360 Degrees	Over Rear	
200 feet (cont.)	100	61.3		14,410	19,600 *	183
	110	58.0		12,170	16,610 *	177
	120	54.6		10,340	14,160 *	171
	130	51.0		8,820	12,120 *	163
	140	47.2		7,530	10,400 *	154
	150	43.1		6,420	8,920 *	144
	160	38.7		5,470	7,650 *	132
	170	33.8		4,640	6,530 *	119
	180	28.3		3,910	5,550 *	102
	190	21.4		3,270	4,690 *	80
200	10.9		2,690	3,910 *	45	
210 feet	38	80.7		43,470 *	43,470 *	215
	40	80.2		43,200 *	43,200 *	215
	50	77.4		40,370 *	40,370 *	213
	60	74.6		31,930	37,830 *	210
	70	71.7		25,160	32,330 *	207
	80	68.8		20,600	26,710 *	204
	90	65.9		16,990	22,480 *	199
	100	62.8		14,180	19,280 *	194
	110	59.7		11,940	16,300 *	189
	120	56.5		10,110	13,850 *	183
	130	53.1		8,590	11,820 *	176
	140	49.6		7,300	10,100 *	168
	150	46.0		6,200	8,630 *	158
160	42.0		5,250	7,360 *	148	
170	37.7		4,420	6,250 *	136	
180	33.0		3,690	5,280 *	122	
190	27.5		3,040	4,410 *	104	
200	20.8		2,460	3,640 *	82	
210	10.7		1,950	2,950 *	46	
220 feet	39	80.9		38,600 *	38,600 *	225
	40	80.6		38,460 *	38,460 *	225
	50	78.0		35,810 *	35,810 *	223
	60	75.3		31,700	33,580 *	221
	70	72.6		24,810	31,060 *	218
	80	69.8		20,360	26,180 *	214
	90	67.0		16,740	22,460 *	210
	100	64.2		13,930	18,750 *	206
	110	61.2		11,580	15,780 *	200
	120	58.2		9,840	13,350 *	195
	130	55.1		8,320	11,320 *	188
	140	51.8		7,020	9,610 *	181
	150	48.4		5,920	8,150 *	172
160	44.8		4,970	6,900 *	163	
170	41.0		4,130	5,790 *	152	
180	36.8		3,400	4,830 *	139	
190	32.2		2,750	3,980 *	125	
200	26.9		2,170	3,230 *	107	
210	20.4		1,650	2,560 *	84	
220	10.4		1,190	1,970 *	47	
230 feet	41	80.8		34,150 *	34,150 *	235
	50	78.5		32,110 *	32,110 *	233
	60	75.9		29,660 *	29,660 *	231
	70	73.4		24,660	27,630 *	228
	80	70.7		20,120	25,740 *	225
	90	68.1		16,500	22,040 *	221
	100	65.4		13,670	18,330 *	217
	110	62.6		11,430	15,370 *	212
	120	59.7		9,590	12,950 *	206
	130	56.8		8,070	10,940 *	200
140	53.8		6,770	9,230 *	193	
150	50.6		5,670	7,780 *	185	
160	47.3		4,710	6,520 *	177	
170	43.8		3,870	5,420 *	167	
180	40.0		3,140	4,460 *	155	
190	36.0		2,490	3,610 *	143	
240 feet	42	80.9		29,940 *	29,940 *	245
	50	79.0		27,520 *	27,520 *	243
	60	76.5		25,470 *	25,470 *	241
	70	74.1		23,600 *	23,600 *	239
	80	71.6		19,860	21,700 *	235
	90	69.0		16,240	19,100 *	232
	100	66.4		13,420	17,800 *	228
	110	63.8		11,160	14,850 *	223
	120	61.1		9,320	12,430 *	218
	130	58.3		7,790	10,430 *	212
140	55.5		6,490	8,730 *	205	
150	52.5		5,380	7,280 *	198	
160	49.5		4,420	6,030 *	190	
170	46.2		3,580	4,940 *	181	
180	42.8		2,850	3,990 *	171	

All ratings require that the front bumper counterweight be in place.

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