



# 900 SERIES SKY HORSE RATINGS

## MODEL 9310

**MODEL 9310 SKY HORSE RATINGS** With 92H Boom and 77M Mast;  
135,000 lbs. (61240 Kg.) Cwt. and 138,000 lbs. (62600 Kg.) Trailing Cwt.

Boom & Mast Length (Feet)	Radius In Feet	Boom Angle Degrees	Lift Over Slide (Lbs.)	Lift Over End (Lbs.)	Ft. From Boom Point
150' Boom & 100' Mast	27	82.2	330000	330000	154
	30	81.0	328790	328790	154
	35	79.1	269310	271000	153
	40	77.1	224170	227430	152
	50	73.1	166610	168840	149
	60	69.1	131630	133310	146
	70	64.9	108160	109500	142
	80	60.6	91040	92150	137
	90	56.1	78430	79370	131
	100	51.3	68340	69170	124
	110	46.2	60250	60980	115
	120	40.8	53620	54270	105
	130	34.2	40000	40680	92
	140	26.5	43400	43940	75
	150	15.5	39500	40000	48
160' Boom & 100' Mast	28	82.3	322420	322420	164
	30	81.6	316260	316260	164
	35	79.8	268930	270240	163
	40	77.9	223780	227040	162
	50	74.2	166180	168410	160
	60	70.5	131180	132860	157
	70	66.6	107710	109050	153
	80	62.6	90570	91680	148
	90	58.5	77970	78910	143
	100	54.1	67870	68700	136
	110	49.6	59770	60500	129
	120	44.6	53120	53780	119
	130	39.2	47580	48170	108
	140	33.0	42890	43430	95
	150	25.6	39030	39530	77
160	15.0	35500	35960	50	
170' Boom & 100' Mast	29	82.4	294620	294620	174
	30	82.1	293220	293220	174
	35	80.4	269020	270080	173
	40	78.6	223850	227120	172
	50	75.2	166230	168470	170
	60	71.7	131220	132900	167
	70	68.0	107750	109100	164
	80	64.4	90600	91720	159
	90	60.5	78010	78960	154
	100	56.6	67900	68730	148
	110	52.4	59790	60520	141
	120	48.0	53140	53790	133
	130	43.2	47580	48170	123
	140	38.0	42880	43430	112
	150	32.0	39060	39560	98
160	24.8	35520	35990	79	
170	14.5	32430	32860	51	
180' Boom & 100' Mast	31	82.2	274480	274480	184
	35	80.9	268760	268830	183
	40	79.3	223580	226850	182
	50	76.0	165940	168180	180
	60	72.7	130940	132630	178
	70	69.3	107470	108810	174
	80	65.9	90300	91420	170
	90	62.3	77730	78680	166
	100	58.6	67610	68440	160
	110	54.8	59490	60220	154
	120	50.8	52840	53490	146
	130	46.5	47280	47870	137
	140	41.9	42570	43110	127
	150	36.9	38780	39280	115

### METRIC

Boom & Mast Length (Meters)	Radius In Meters	Boom Angle Degrees	Lift Over Slide (Kg.)	Lift Over End (Kg.)	M From Boom Point
45.7 m Boom & 30.5 m Mast	8.2	82.2	149690	149690	46.9
	9.1	81.0	149140	149140	46.9
	10.7	79.1	122160	122930	46.6
	12.2	77.1	101680	103160	46.3
	15.2	73.1	75570	76590	45.4
	18.3	69.1	59710	60470	44.5
	21.3	64.9	49060	49670	43.3
	24.4	60.6	41300	41800	41.8
	27.4	56.1	35580	36000	39.9
	30.5	51.3	31000	31380	37.8
	33.5	46.2	27330	27860	35.1
	36.6	40.6	24320	24620	32.0
	39.6	34.2	21810	22080	28.0
	42.7	26.5	19690	19930	22.9
	45.7	15.5	17920	18140	14.6
48.8 m Boom & 30.5 m Mast	8.5	82.3	146250	146250	50.0
	9.1	81.6	143460	143460	50.0
	10.7	79.8	121990	122580	49.7
	12.2	77.9	101510	102990	49.4
	15.2	74.2	75380	76390	48.8
	18.3	70.5	59500	60270	47.9
	21.3	66.6	48860	49470	46.6
	24.4	62.6	41080	41590	45.1
	27.4	58.5	35370	35790	43.6
	30.5	54.1	30790	31180	41.5
	33.5	49.6	27110	27440	39.3
	36.6	44.6	24100	24390	36.3
	39.6	39.2	21580	21850	32.9
	42.7	33.0	19450	19700	29.0
	45.7	25.6	17700	17930	23.5
48.8	15.0	16100	16310	15.2	
51.8 m Boom & 30.5 m Mast	8.8	82.4	133640	133640	53.0
	9.1	82.1	133000	133000	53.0
	10.7	80.4	122030	122510	52.7
	12.2	78.6	101540	103020	52.4
	15.2	75.2	75400	76420	51.8
	18.3	71.7	59520	60280	50.9
	21.3	68.0	48880	49490	50.0
	24.4	64.4	41100	41600	48.5
	27.4	60.5	35390	35820	46.9
	30.5	56.6	30800	31180	45.1
	33.5	52.4	27120	27450	43.0
	36.6	48.0	24100	24400	40.5
	39.6	43.2	21580	21850	37.5
	42.7	38.0	19450	19700	34.1
	45.7	32.0	17720	17940	29.9
48.8	24.8	16110	16330	24.1	
51.8	14.5	14710	14910	15.5	
54.9 m Boom & 30.5 m Mast	9.4	82.2	124500	124500	56.1
	10.7	80.9	121910	121940	55.8
	12.2	79.3	101420	102900	55.5
	15.2	76.0	75270	76290	54.9
	18.3	72.7	59390	60160	54.3
	21.3	69.3	48750	49360	53.0
	24.4	65.9	40960	41470	51.8
	27.4	62.3	35260	35690	50.6
	30.5	58.6	30670	31040	48.8
	33.5	54.8	26980	27320	46.9
	36.6	50.8	23970	24260	44.5
	39.6	46.5	21450	21710	41.8
	42.7	41.9	19310	19550	38.7
	45.7	36.9	17590	17820	35.1

(Continued)

# MODEL 9310 SKY HORSE RATINGS (cont.) With 92H Boom and 77M Mast; 135,000 lbs. (61240 Kg.) and 138,000 (62600 Kg.) Trailing Cwt.

Boom & Mast Length (Feet)	Radius In Feet	Boom Angle Degrees	Lift Over Side (Lbs.)	Lift Over End (Lbs.)	Ft. From Boom Point
180'/100' cont.	160	31.1	35240	35700	100
	170	24.1	32150	32580	81
	180	14.1	29410	29810	52
190' Boom & 100' Mast	32	82.3	260890	260890	194
	35	81.4	253200	253200	193
	40	79.9	223110	226390	193
	50	76.8	165460	167700	191
	60	73.6	130460	132140	188
	70	70.5	107000	108350	185
	80	67.2	89820	90930	181
	90	63.9	77260	78210	177
	100	60.5	67140	67970	172
	110	56.9	59020	59750	166
	120	53.2	52350	53010	159
	130	49.3	46790	47380	151
	140	45.2	42070	42610	142
	150	40.7	38310	38810	131
	160	35.8	34770	35240	119
	170	30.2	31680	32110	103
	180	23.4	28940	29340	83
190	13.7	26490	26870	53	
200' Boom & 100' Mast	33	82.4	238720	238720	204
	35	81.8	227490	235980	203
	40	80.4	222800	226080	203
	50	77.4	165140	167380	201
	60	74.5	130140	131830	198
	70	71.5	106690	108030	195
	80	68.4	89500	90620	192
	90	65.3	76960	77910	188
	100	62.1	66840	67670	183
	110	58.8	58700	59440	177
	120	55.4	52030	52690	171
	130	51.8	46470	47070	164
	140	48.0	41740	42290	155
	150	44.0	38020	38520	146
	160	39.7	34480	34940	135
	170	34.9	31380	31810	122
	180	29.4	28640	29050	106
190	22.8	26200	26590	85	
200	13.4	24020	24360	54	
210' Boom & 130' Mast	34	82.5	217840	217840	214
	35	82.2	217840	217840	214
	40	80.8	215610	215610	213
	50	78.1	163600	165840	211
	60	75.2	128770	130460	209
	70	72.4	105460	106810	206
	80	69.5	88340	89460	203
	90	66.6	75880	76840	199
	100	63.5	65790	66630	194
	110	60.4	57700	58440	189
	120	57.2	51060	51720	183
	130	53.9	45510	46110	176
	140	50.4	40810	41350	169
	150	46.8	37120	37620	160
	160	42.9	33610	34070	150
	170	38.7	30510	30940	138
	180	34.0	27790	28190	125
190	28.7	25350	25730	108	
200	22.2	23170	23530	87	
210	13.0	21210	21550	56	
220' Boom & 130' Mast	36	82.3	194860	194860	223
	40	81.3	194860	194860	223
	50	78.6	163500	165750	221
	60	75.9	128690	130380	219
	70	73.2	105380	106730	216
	80	70.5	88250	89370	213
	90	67.7	75810	76760	210
	100	64.8	65710	66540	205
	110	61.9	57610	58340	200
	120	58.9	50960	51620	195
	130	55.8	45410	46010	188
	140	52.6	40700	41250	181
	150	49.2	37050	37550	173
	160	45.6	33520	33990	164
	170	41.8	30440	30870	154
	180	37.7	27710	28110	142
	190	33.2	25270	25650	128
200	28.0	23090	23450	111	
210	21.7	21120	21460	89	
220	12.7	19340	19670	57	

## METRIC

Boom & Mast Length (Meters)	Radius In Meters	Boom Angle Degrees	Lift Over Side (Kg.)	Lift Over End (Kg.)	M From Boom Point
54.9 m 30.5 m cont.	48.8	31.1	15980	16190	30.5
	51.8	24.1	14580	14780	24.7
	54.9	14.1	13340	13520	15.8
57.9 m Boom & 30.5 m Mast	9.8	82.3	116340	116340	59.1
	10.7	81.4	114850	114850	58.8
	12.2	79.9	101200	102690	58.8
	15.2	76.8	75050	76070	58.2
	18.3	73.6	59180	59940	57.3
	21.3	70.5	48540	49150	56.4
	24.4	67.2	40740	41250	55.2
	27.4	63.9	35050	35480	53.9
	30.5	60.5	30450	30830	52.4
	33.5	56.9	26770	27100	50.6
	36.6	53.2	23750	24050	48.5
	39.6	49.3	21220	21490	46.0
	42.7	45.2	19080	19330	43.3
	45.7	40.7	17380	17600	39.9
	48.8	35.8	15770	15980	36.3
	51.8	30.2	14370	14570	31.4
	54.9	23.4	13130	13310	25.3
57.9	13.7	12020	12190	16.2	
61.0 m Boom & 30.5 m Mast	10.1	82.4	108280	108280	62.2
	10.7	81.8	103190	107040	61.9
	12.2	80.4	101060	102550	61.9
	15.2	77.4	74910	75920	61.3
	18.3	74.5	59030	59800	60.4
	21.3	71.5	48390	49000	59.4
	24.4	68.4	40600	41110	58.5
	27.4	65.3	34910	35340	57.3
	30.5	62.1	30320	30700	55.8
	33.5	58.8	26630	26960	53.9
	36.6	55.4	23600	23900	52.1
	39.6	51.8	21080	21350	50.0
	42.7	48.0	18930	19180	47.2
	45.7	44.0	17250	17470	44.5
	48.8	39.7	15840	15850	41.1
	51.8	34.9	14230	14430	37.2
	54.9	29.4	12990	13180	32.3
57.9	22.8	11880	12060	25.9	
61.0	13.4	10900	11050	16.5	
64.0 m Boom & 39.6 m Mast	10.4	82.5	98810	98810	65.2
	10.7	82.2	98810	98810	65.2
	12.2	80.8	97800	97800	64.9
	15.2	78.1	74210	75230	64.3
	18.3	75.2	58410	59180	63.7
	21.3	72.4	47840	48450	62.8
	24.4	69.5	40070	40580	61.9
	27.4	66.6	34420	34850	60.7
	30.5	63.5	29840	30220	59.1
	33.5	60.4	26170	26510	57.6
	36.6	57.2	23160	23460	55.8
	39.6	53.9	20640	20940	53.6
	42.7	50.4	18510	18760	51.5
	45.7	46.8	16840	17060	48.8
	48.8	42.9	15250	15450	45.7
	51.8	38.7	13840	14030	42.1
	54.9	34.0	12610	12790	38.1
57.9	28.7	11500	11670	32.9	
61.0	22.2	10510	10670	26.5	
64.0	13.0	9620	9780	17.1	
67.1 m Boom & 39.6 m Mast	11.0	82.3	88390	88390	68.0
	12.2	81.3	88390	88390	68.0
	15.2	78.6	74160	75180	67.4
	18.3	75.9	58370	59140	66.8
	21.3	73.2	47800	48410	65.8
	24.4	70.5	40030	40540	64.9
	27.4	67.7	34390	34820	64.0
	30.5	64.8	29810	30180	62.5
	33.5	61.9	26130	26460	61.0
	36.6	58.9	23120	23410	59.4
	39.6	55.8	20600	20870	57.3
	42.7	52.6	18460	18710	55.2
	45.7	49.2	16810	17030	52.7
	48.8	45.6	15200	15420	50.0
	51.8	41.8	13810	14000	46.9
	54.9	37.7	12570	12750	43.3
	57.9	33.2	11460	11630	39.0
61.0	28.0	10470	10640	33.8	
64.0	21.7	9580	9730	27.1	
67.1	12.7	8770	8920	17.4	

**MODEL 9310 SKY HORSE RATINGS (cont.)** With 92 H Boom  
and 77M Mast; 135,000 lbs. (61240 Kg.) and 138,000 (62600 Kg.) Trailing Ctwt.

**METRIC**

Boom & Mast Length (Feet)	Radius In Feet	Boom Angle Degrees	Lift Over Side (Lbs.)	Lift Over End (Lbs.)	Ft. From Boom Point
230' Boom & 130' Mast	37	82.4	178360	178360	233
	40	81.6	178360	178360	233
	50	79.1	163160	165410	231
	60	76.6	128350	130040	229
	70	74.0	105050	106400	227
	80	71.4	87910	89030	224
	90	68.7	75490	76440	220
	100	66.0	65390	66220	216
	110	63.2	57280	58020	212
	120	60.4	50640	51300	206
	130	57.5	45070	45670	200
	140	54.5	40370	40920	194
	150	51.3	36730	37240	186
	160	48.0	33210	33670	178
	170	44.6	30110	30550	168
180	40.9	27390	27790	158	
190	36.9	24950	25330	145	
200	32.4	22770	23130	131	
210	27.4	20800	21140	113	
220	21.2	19030	19350	91	
230	12.4	17390	17700	58	
240' Boom & 130' Mast	38	82.5	170030	170030	243
	40	82.0	170030	170030	243
	50	79.6	162680	164930	242
	60	77.1	127870	129560	240
	70	74.7	104580	105930	237
	80	72.2	87440	88560	234
	90	69.6	75020	75980	231
	100	67.1	64920	65760	227
	110	64.4	56810	57550	223
	120	61.7	50150	50810	218
	130	59.0	44600	45190	212
	140	56.1	40340	40890	206
	150	53.2	36280	36780	199
	160	50.2	32750	33220	191
	170	46.9	29660	30090	182
180	43.6	26920	27330	172	
190	40.0	24490	24870	161	
200	36.0	22310	22670	149	
210	31.7	20340	20680	134	
220	26.8	18560	18880	116	
230	20.8	16930	17230	93	
240	12.2	15450	15700	59	
250' Boom & 130' Mast	40	82.3	157630	157630	253
	50	80.0	147840	147840	252
	60	77.6	127510	129210	250
	70	75.3	104240	105590	248
	80	72.9	87090	88210	245
	90	70.5	74690	75650	242
	100	68.0	64590	65420	238
	110	65.5	56470	57210	234
	120	63.0	49810	50470	229
	130	60.4	44250	44850	224
	140	57.7	40020	40570	218
	150	54.9	35950	36460	211
	160	52.0	32430	32890	204
	170	49.1	29330	29770	196
	180	45.9	26600	27000	187
190	42.6	24170	24550	176	
200	39.1	21980	22340	165	
210	35.3	20010	20330	152	
220	31.1	18230	18370	138	
230	26.2	16610	16610	118	
240	20.3	15040	15040	95	
250	11.9	13660	13660	60	
260' Boom & 130' Mast	41	82.4	145730	145730	263
	50	80.4	140340	144120	262
	60	78.1	127000	128700	260
	70	75.9	103750	105100	258
	80	73.6	86580	87710	255
	90	71.3	74210	75170	252
	100	68.9	64100	64940	249
	110	66.5	55980	56720	245
	120	64.1	49320	49980	240
	130	61.6	43750	44350	235
	140	59.1	39550	40100	229
	150	56.5	35490	36000	223
	160	53.8	31960	32420	216
	170	51.0	28860	29300	209
	180	48.0	26130	26540	200
190	45.0	23690	24070	191	
200	41.8	21510	21740	180	
210	38.3	19540	19540	168	

Boom & Mast Length (Meters)	Radius In Meters	Boom Angle Degrees	Lift Over Side (Kg.)	Lift Over End (Kg.)	M From Boom Point
70.1 m Boom & 39.6 m Mast	11.3	82.4	80900	80900	71.0
	12.2	81.6	80900	80900	71.0
	15.2	79.1	74010	75030	70.4
	18.3	76.6	58220	58990	69.8
	21.3	74.0	47650	48260	69.2
	24.4	71.4	39880	40380	68.3
	27.4	68.7	34240	34670	67.1
	30.5	66.0	29660	30040	65.8
	33.5	63.2	25980	26320	64.6
	36.6	60.4	22970	23270	62.8
	39.6	57.5	20440	20720	61.0
	42.7	54.5	18310	18560	59.1
	45.7	51.3	16660	16890	56.7
	48.8	48.0	15060	15270	54.3
	51.8	44.6	13600	13860	51.2
54.9	40.9	12420	12610	48.2	
57.9	36.9	11320	11490	44.2	
61.0	32.4	10330	10490	39.9	
64.0	27.4	9430	9590	34.4	
67.1	21.2	8630	8780	27.7	
70.1	12.4	7890	8030	17.7	
73.2 m Boom & 39.6 m Mast	11.6	82.5	77130	77130	74.1
	12.2	82.0	77130	77130	74.1
	15.2	79.6	73790	74810	73.8
	18.3	77.1	58000	58770	73.2
	21.3	74.7	47440	48050	72.2
	24.4	72.2	39660	40170	71.3
	27.4	69.6	34030	34460	70.4
	30.5	67.1	29450	29830	69.2
	33.5	64.4	25770	26100	68.0
	36.6	61.7	22750	23050	66.4
	39.6	59.0	20230	20500	64.6
	42.7	56.1	18300	18550	62.8
	45.7	53.2	16460	16680	60.7
	48.8	50.2	14860	15070	58.2
	51.8	46.9	13450	13650	55.5
54.9	43.6	12210	12400	52.4	
57.9	40.0	11110	11280	49.1	
61.0	36.0	10120	10280	45.4	
64.0	31.7	9230	9380	40.8	
67.1	26.8	8420	8560	35.4	
70.1	20.8	7680	7820	28.3	
73.2	12.2	7010	7120	18.0	
76.2 m Boom & 39.6 m Mast	12.2	82.3	71500	71500	77.1
	15.2	80.0	67060	67060	76.8
	18.3	77.6	57840	58610	76.2
	21.3	75.3	47280	47900	75.6
	24.4	72.9	39500	40010	74.7
	27.4	70.5	33880	34310	73.8
	30.5	68.0	29300	29670	72.5
	33.5	65.5	25610	25950	71.3
	36.6	63.0	22590	22890	69.8
	39.6	60.4	20070	20340	68.3
	42.7	57.7	18150	18400	66.4
	45.7	54.9	16310	16540	64.3
	48.8	52.0	14710	14920	62.2
	51.8	49.1	13300	13500	59.7
	54.9	45.9	12070	12250	57.0
57.9	42.6	10960	11140	53.6	
61.0	39.1	9970	10130	50.3	
64.0	35.3	9080	9220	46.3	
67.1	31.1	8270	8330	41.5	
70.1	26.2	7530	7590	36.0	
73.2	20.3	6820	6820	29.0	
76.3	11.9	6200	6200	18.3	
79.2 m Boom & 39.6 m Mast	12.5	82.4	66100	66100	80.2
	15.2	80.4	63660	65370	79.9
	18.3	78.1	57610	58380	79.2
	21.3	75.9	47060	47670	78.6
	24.4	73.6	39270	39790	77.7
	27.4	71.3	33660	34100	76.8
	30.5	68.9	29080	29460	75.9
	33.5	66.5	25390	25730	74.7
	36.6	64.1	22370	22670	73.2
	39.6	61.6	19850	20120	71.6
	42.7	59.1	17940	18190	69.8
	45.7	56.5	16100	16330	68.0
	48.8	53.8	14500	14710	65.8
	51.8	51.0	13090	13290	63.7
	54.9	48.0	11850	12040	61.0
57.9	45.0	10750	10920	58.2	
61.0	41.8	9760	9860	54.9	
64.0	38.3	8860	8860	51.2	

# MODEL 9310 SKY HORSE RATINGS (cont.) With 92 H Boom and 77M Mast; 135,000 lbs. (61240 Kg.) and 138,000 (62600 Kg.) Trailing Cwt.

Boom & Mast Length (Feet)	Radius In Foot	Boom Angle Degrees	Lift Over Side (Lbs.)	Lift Over End (Lbs.)	Ft. From Boom Point
280' Boom & 130' Mast cont.	220	34.6	17580	17580	155
	230	30.4	15800	15800	139
	240	25.7	14210	14210	120
	250	19.9	12780	12780	97
	260	11.7	11540	11540	61
270' Boom & 150' Mast	42	82.5	126750	126750	273
	50	80.7	126750	126750	272
	60	78.6	123750	123750	270
	70	76.4	103010	104370	268
	80	74.2	85910	87030	266
	90	72.0	73600	74560	263
	100	69.7	63520	64360	259
	110	67.4	55430	56170	255
	120	65.1	48790	49460	251
	130	62.8	43250	43850	246
	140	60.3	39080	39630	241
	150	57.9	35040	35550	235
	160	55.3	31520	31990	228
	170	52.7	28450	28880	221
	180	49.9	25730	26130	213
	190	47.1	23300	23690	205
	200	44.1	21130	21490	195
	210	40.9	19180	19520	184
	220	37.6	17410	17730	172
	230	33.9	15800	15910	158
240	29.8	14260	14260	142	
250	25.2	12760	12760	123	
260	19.5	11410	11410	98	
270	11.4	10220	10220	62	
280' Boom & 150' Mast	44	82.3	118300	118300	283
	50	81.1	118300	118300	282
	60	79.0	115790	115790	280
	70	76.9	102660	104010	278
	80	74.8	85540	86670	276
	90	72.6	73250	74210	273
	100	70.5	63170	64000	270
	110	68.3	55080	55820	266
	120	66.1	48460	49100	262
	130	63.8	42890	43490	257
	140	61.5	38750	39300	252
	150	59.1	34700	35200	247
	160	56.7	31190	31660	240
	170	54.2	28100	28540	234
	180	51.6	25380	25790	226
	190	49.0	22950	23340	218
	200	46.2	20780	21140	209
	210	43.3	18820	19160	199
	220	40.2	17050	17150	188
	230	36.9	15320	15320	175
240	33.3	13660	13660	161	
250	29.3	12150	12150	145	
260	24.7	10790	10790	125	
270	19.2	9550	9550	100	
280	11.2	8470	8470	63	
290' Boom & 150' Mast	45	82.4	114560	114560	293
	50	81.4	114560	114560	292
	60	79.4	111400	112020	291
	70	77.4	102190	103540	289
	80	75.3	85060	86190	286
	90	73.3	72790	73750	283
	100	71.2	62700	63530	280
	110	69.1	54600	55340	277
	120	66.9	47950	48610	273
	130	64.8	42410	43010	268
	140	62.6	38290	38840	264
	150	60.3	34230	34740	258
	160	58.0	30720	31190	252
	170	55.6	27630	28070	246
	180	53.2	24910	25320	239
	190	50.7	22490	22870	231
	200	48.1	20320	20650	223
	210	45.3	18360	18410	213
	220	42.5	16390	16390	203
	230	39.4	14560	14560	191
240	36.2	12900	12900	179	
250	32.7	11380	11380	164	
260	28.8	10010	10010	147	
270	24.3	8760	8760	127	
280	18.8	7630	7630	102	
290	11.0	6650	6650	64	

## METRIC

Boom & Mast Length (Meters)	Radius In Meters	Boom Angle Degrees	Lift Over Side (Kg.)	Lift Over End (Kg.)	M. From Boom Point
79.2 m Boom & 39.6 m Mast cont.	67.1	34.6	7970	7970	47.2
	70.1	30.4	7170	7170	42.4
	73.2	25.7	6450	6450	36.6
	76.2	19.9	5800	5800	29.6
	79.2	11.7	5230	5230	18.6
82.3 m Boom & 45.7 m Mast	12.8	82.5	57490	57490	83.2
	15.2	80.7	57490	57490	82.9
	18.3	78.6	56130	56130	82.3
	21.3	76.4	46730	47340	81.7
	24.4	74.2	38970	39480	81.1
	27.4	72.0	33380	33820	80.2
	30.5	69.7	28810	29190	78.9
	33.5	67.4	25140	25480	77.7
	36.6	65.1	22130	22440	76.5
	39.6	62.8	19620	19890	75.0
	42.7	60.3	17730	17980	73.5
	45.7	57.9	15890	16130	71.6
	48.8	55.3	14300	14510	69.5
	51.8	52.7	12900	13100	67.4
	54.9	49.9	11670	11850	64.9
	57.9	47.1	10570	10750	62.5
	61.0	44.1	9580	9750	59.4
	64.0	40.9	8700	8850	56.1
	67.1	37.6	7900	8040	52.4
	70.1	33.9	7170	7220	48.2
73.2	29.8	6470	6470	43.3	
76.2	25.2	5790	5790	37.5	
79.2	19.5	5180	5180	29.9	
82.3	11.4	4640	4640	18.9	
85.3 m Boom & 45.7 m Mast	13.4	82.3	53660	53660	86.3
	15.2	81.1	53660	53660	86.0
	18.3	79.0	52520	52520	85.3
	21.3	76.9	46570	47180	84.7
	24.4	74.8	38800	39310	84.1
	27.4	72.6	33230	33660	83.2
	30.5	70.5	28650	29030	82.3
	33.5	68.3	24980	25320	81.1
	36.6	66.1	21980	22270	79.9
	39.6	63.8	19450	19730	78.3
	42.7	61.5	17580	17830	76.8
	45.7	59.1	15740	15970	75.3
	48.8	56.7	14150	14360	73.2
	51.8	54.2	12750	12950	71.3
	54.9	51.6	11510	11700	68.9
	57.9	49.0	10410	10590	66.4
	61.0	46.2	9430	9590	63.7
	64.0	43.3	8540	8690	60.7
	67.1	40.2	7730	7780	57.3
	70.1	36.9	6950	6950	53.3
73.2	33.3	6200	6200	49.1	
76.2	29.3	5510	5510	44.2	
79.2	24.7	4890	4890	38.1	
82.3	19.2	4330	4330	30.5	
85.3	11.2	3840	3840	19.2	
88.4 m Boom & 45.7 m Mast	13.7	82.4	51960	51960	89.3
	15.2	81.4	51960	51960	89.0
	18.3	79.4	50530	50810	88.7
	21.3	77.4	46350	46970	88.1
	24.4	75.3	38580	39100	87.2
	27.4	73.3	33020	33450	86.3
	30.5	71.2	28440	28820	85.3
	33.5	69.1	24770	25100	84.4
	36.6	66.9	21750	22050	83.2
	39.6	64.8	19240	19510	81.7
	42.7	62.6	17370	17620	80.5
	45.7	60.3	15530	15760	78.6
	48.8	58.0	13930	14150	76.8
	51.8	55.6	12530	12730	75.0
	54.9	53.2	11300	11490	72.8
	57.9	50.7	10200	10370	70.4
	61.0	48.1	9220	9370	68.0
	64.0	45.3	8330	8350	64.9
	67.1	42.5	7490	7430	61.9
	70.1	39.4	6680	6690	58.2
73.2	36.2	5850	5850	54.6	
76.2	32.7	5160	5160	50.0	
79.2	28.8	4540	4540	44.8	
82.3	24.3	3970	3970	38.7	
85.3	18.8	3460	3460	31.1	
88.4	11.0	3020	3020	19.5	

(Continued)

# MODEL 9310 SKY HORSE RATINGS (cont.) With 92 H Boom and 77M Mast; 135,000 lbs. (61240 Kg.) and 138,000 (62600 Kg.) Trailing Cwt.

## METRIC

Boom & Mast Length (Feet)	Radius In Feet	Boom Angle Degrees	Lift Over Side (Lbs.)	Lift Over End (Lbs.)	Fl. From Boom Point
300' Boom & 150' Mast	46	82.4	106690	106690	303
	50	81.7	106690	106690	302
	60	79.7	106690	106690	301
	70	77.8	101820	103180	299
	80	75.8	84680	85810	297
	90	73.8	72430	73400	294
	100	71.8	62330	63170	291
	110	69.8	54240	54980	287
	120	67.8	47580	48240	284
	130	65.7	42030	42630	279
	140	63.6	37950	38500	275
	150	61.4	33890	34400	270
	160	59.2	30370	30840	264
	170	56.9	27290	27730	258
	180	54.6	24560	24970	251
	190	52.2	22140	22520	244
	200	49.8	19960	20050	236
	210	47.2	17810	17810	227
	220	44.5	15790	15790	217
	230	41.7	13960	13960	207
	240	38.7	12300	12300	195
250	35.6	10780	10780	182	
260	32.1	9400	9400	167	
270	28.3	8140	8140	150	
280	23.9	6990	6990	129	
290	18.5	5950	5950	103	
300	10.8	5060	5060	65	
310	10.7	3480	3480	66	
310' Boom & 180' Mast	48	82.3	98310	98310	313
	50	81.9	98310	98310	312
	60	80.1	98310	98310	311
	70	78.2	98310	98310	309
	80	76.3	84270	85400	307
	90	74.4	72040	73000	304
	100	72.4	61940	62780	301
	110	70.5	53830	54570	298
	120	68.5	47170	47830	294
	130	66.5	41610	42210	290
	140	64.5	37540	38090	286
	150	62.4	33480	33990	281
	160	60.3	29950	30420	276
	170	58.1	26880	27300	270
	180	55.9	24130	24530	263
	190	53.7	21690	22080	256
	200	51.3	19510	19880	249
	210	48.9	17550	17890	240
	220	46.4	15770	15900	231
	230	43.8	14030	14030	221
	240	41.0	12330	12330	210
250	38.1	10770	10770	198	
260	35.0	9360	9360	185	
270	31.6	8060	8060	170	
280	27.8	6860	6860	152	
290	23.5	5780	5780	131	
300	18.2	4740	4740	105	
310	10.7	3480	3480	66	
320' Boom & 180' Mast	49	82.4	93410	93410	323
	50	82.2	93410	93410	322
	60	80.4	93410	93410	321
	70	78.6	90620	90620	319
	80	76.7	84030	85160	317
	90	74.9	71820	72780	315
	100	73.0	61710	62550	312
	110	71.1	53610	54350	309
	120	69.2	46940	47610	305
	130	67.3	41380	41990	301
	140	65.3	37340	37890	297
	150	63.3	33270	33780	292
	160	61.3	29750	30220	287
	170	59.2	26660	27090	281
	180	57.1	23920	24330	275
	190	55.0	21490	21870	269
	200	52.7	19310	19670	261
	210	50.4	17340	17550	253
	220	48.1	15490	15490	245
	230	45.6	13630	13630	236
	240	43.0	11930	11930	225
250	40.3	10380	10380	214	
260	37.5	8960	8960	202	
270	34.4	7650	7650	188	
280	31.0	6450	6450	173	
290	27.3	5360	5360	155	
300	23.1	4360	4360	133	
310	17.9	3450	3450	106	

Boom & Mast Length	Radius In Meters	Boom Angle Degrees	Lift Over Side (Kg.)	Lift Over End (Kg.)	M From Boom Point
91.4 m Boom & 45.7 m Mast	14.0	82.4	48390	48390	92.4
	15.2	81.7	48390	48390	92.0
	18.3	79.7	48390	48390	91.7
	21.3	77.8	46190	46800	91.1
	24.4	75.8	38410	38920	90.5
	27.4	73.8	32850	33290	89.6
	30.5	71.8	28270	28650	88.7
	33.5	69.8	24600	24940	87.5
	36.6	67.8	21580	21880	86.6
	39.6	65.7	19060	19340	85.0
	42.7	63.6	17210	17460	83.8
	45.7	61.4	15370	15600	82.3
	48.8	59.2	13780	13990	80.5
	51.8	56.9	12380	12580	78.6
	54.9	54.6	11140	11330	76.5
	57.9	52.2	10040	10220	74.4
	61.0	49.8	9050	9090	71.9
	64.0	47.2	8080	8080	69.2
	67.1	44.5	7160	7160	66.1
	70.1	41.7	6330	6330	63.1
	73.2	38.7	5580	5580	59.4
76.2	35.6	4890	4890	55.5	
79.2	32.1	4260	4260	50.9	
82.3	28.3	3680	3680	45.7	
85.3	23.9	3170	3170	39.9	
88.4	18.5	2700	2700	31.4	
91.4	10.8	2300	2300	19.8	
94.5	10.7	1580	1580	20.1	
94.5 m Boom & 54.9 m Mast	14.0	82.3	44580	44580	95.4
	15.2	81.9	44580	44580	95.1
	18.3	80.1	44580	44580	94.8
	21.3	78.2	44580	44580	94.2
	24.4	76.3	38220	38740	93.6
	27.4	74.4	32680	33110	92.7
	30.5	72.4	28100	28480	91.7
	33.5	70.5	24420	24750	90.8
	36.6	68.5	21400	21700	89.6
	39.6	66.5	18970	19150	88.4
	42.7	64.5	17030	17280	87.2
	45.7	62.4	15190	15420	85.6
	48.8	60.3	13590	13800	84.1
	51.8	58.1	12180	12380	82.3
	54.9	55.9	10950	11130	80.2
	57.9	53.7	9840	10020	78.0
	61.0	51.3	8850	9020	75.9
	64.0	48.9	7960	8110	73.2
	67.1	46.4	7150	7210	70.4
	70.1	43.8	6360	6360	67.4
	73.2	41.0	5590	5590	64.0
76.2	38.1	4890	4890	60.4	
79.2	35.0	4250	4250	56.4	
82.3	31.6	3660	3660	51.8	
85.3	27.8	3110	3110	46.3	
88.4	23.5	2620	2620	39.9	
91.4	18.2	2150	2150	32.0	
94.5	10.7	1580	1580	20.1	
97.5 m Boom & 54.9 m Mast	14.9	82.4	42370	42370	98.5
	15.2	82.2	42370	42370	98.1
	18.3	80.4	42370	42370	97.0
	21.3	78.6	41110	41110	97.2
	24.4	76.7	38120	38630	96.6
	27.4	74.9	32580	33010	96.0
	30.5	73.0	27990	28370	95.1
	33.5	71.1	24320	24650	94.2
	36.6	69.2	21290	21600	93.0
	39.6	67.3	18770	19050	91.7
	42.7	65.3	16940	17190	90.5
	45.7	63.3	15090	15320	89.0
	48.8	61.3	13490	13710	87.5
	51.8	59.2	12090	12290	85.6
	54.9	57.1	10850	11040	83.8
	57.9	55.0	9750	9920	82.0
	61.0	52.7	8760	8920	79.6
	64.0	50.4	7870	7960	77.1
	67.1	48.1	7030	7030	74.7
	70.1	45.6	6180	6180	71.9
	73.2	43.0	5410	5410	68.6
76.2	40.3	4710	4710	65.2	
79.2	37.5	4060	4060	61.6	
82.3	34.4	3470	3470	57.3	
85.3	31.0	2930	2930	52.7	
88.4	27.3	2430	2430	47.2	
91.4	23.1	1980	1980	40.5	
94.5	17.9	1560	1560	32.3	

# MODEL 9310 SKY HORSE RATINGS (cont.)

With 92 H Boom and 77M Mast; 135,000 lbs. (61240 Kg.) and 138,000 (62600 Kg.) Trailing Cwt.

## METRIC

Boom & Mast Length (Feet)	Radius In Feet	Boom Angle Degrees	Lift Over Side (Lbs.)	Lift Over End (Lbs.)	Ft. From Boom Point
330' Boom & 180' Mast	50	82.4	87600	87600	333
	60	80.7	87600	87600	331
	70	78.9	87360	87600	329
	80	77.1	83630	84330	327
	90	75.3	71440	72400	325
	100	73.5	61330	62170	322
	110	71.7	53220	53970	319
	120	69.9	46560	47220	316
	130	68.0	41000	41600	312
	140	66.1	36980	37530	308
	150	64.2	32920	33420	303
	160	62.3	29390	29860	298
	170	60.3	26290	26730	293
	180	58.2	23560	23970	287
	190	56.2	21120	21510	281
	200	54.1	18940	19190	274
	210	51.9	16930	16930	266
	220	49.6	14870	14870	258
	230	47.3	13000	13000	249
	240	44.9	11310	11310	240
	250	42.3	9750	9750	229
	260	39.7	8330	8330	218
270	36.9	7030	7030	205	
280	33.8	5830	5830	191	
290	30.6	4730	4730	175	
300	26.9	3710	3710	157	
310	22.7	—	2790	135	
340' Boom & 180' Mast	51	82.5	85090	85090	343
	60	81.0	85090	85090	341
	70	79.2	85090	85090	340
	80	77.5	81760	81760	338
	90	75.8	70960	71930	335
	100	74.0	60860	61700	333
	110	72.3	52740	53480	330
	120	70.5	46070	46740	326
	130	68.7	40510	41120	323
	140	66.9	36510	37070	319
	150	65.0	32450	32960	314
	160	63.1	28920	29390	310
	170	61.2	25830	26270	304
	180	59.3	23100	23510	299
	190	57.3	20660	20950	293
	200	55.3	18430	18430	286
	210	53.2	16170	16170	279
	220	51.0	14110	14110	271
	230	48.8	12240	12240	263
	240	46.5	10540	10540	254
	250	44.2	9000	9000	244
	260	41.7	7570	7570	233
270	39.1	6270	6270	221	
280	36.3	5060	5060	209	
290	33.3	3950	3950	194	
300	30.1	2940	2940	178	
350' Boom & 180' Mast	53	82.4	80200	80200	352
	60	81.2	80200	80200	351
	70	79.6	80200	80200	350
	80	77.9	72110	74480	348
	90	76.2	67620	67620	346
	100	74.5	60470	61310	343
	110	72.8	52350	53090	340
	120	71.1	45680	46350	337
	130	69.3	40120	40720	333
	140	67.6	36150	36700	330
	150	65.8	32090	32600	325
	160	64.0	28560	29030	321
	170	62.1	25460	25900	316
	180	60.3	22720	23130	310
	190	58.3	20290	20320	304
	200	56.4	17800	17800	298
	210	54.4	15540	15540	291
	220	52.4	13480	13480	284
	230	50.3	11620	11620	276
	240	48.1	9920	9920	267
	250	45.8	8370	8370	258
	260	43.5	6950	6950	248
270	41.0	5640	5640	237	
280	38.5	4430	4430	225	
290	35.7	3320	3320	212	
300	32.8	—	2310	197	

Boom & Mast Length (Meters)	Radius In Meters	Boom Angle Degrees	Lift Over Side (Kg.)	Lift Over End (Kg.)	M From Boom Point
100.6 m Boom & 54.9 m Mast	15.2	82.4	39740	39740	101.5
	18.3	80.7	39740	39740	100.9
	21.3	78.9	39630	39740	100.3
	24.4	77.1	37930	38250	99.7
	27.4	75.3	32410	32840	99.1
	30.5	73.5	27820	28200	98.1
	33.5	71.7	24140	24480	97.2
	36.6	69.9	21120	21420	96.3
	39.6	68.0	18600	18870	95.1
	42.7	66.1	16770	17020	93.9
	45.7	64.2	14930	15160	92.4
	48.8	62.3	13330	13540	90.8
	51.8	60.3	11930	12120	89.3
	54.9	58.2	10690	10870	87.5
	57.9	56.2	9580	9760	85.6
	61.0	54.1	8590	8700	83.5
	64.0	51.9	7680	7680	81.1
	67.1	49.6	6750	6750	78.6
	70.1	47.3	5900	5900	75.9
	73.2	44.9	5130	5130	73.2
	76.2	42.3	4420	4420	69.8
	79.2	39.7	3780	3780	66.4
82.3	36.9	3190	3190	62.5	
85.3	33.8	2640	2640	58.2	
88.4	30.6	2150	2150	53.3	
91.4	26.9	1680	1680	47.9	
94.5	22.7	—	1270	41.1	
103.6 m Boom & 54.9 m Mast	15.5	82.5	38600	38600	104.5
	18.3	81.0	38600	38600	103.9
	21.3	79.2	38600	38600	103.6
	24.4	77.5	37090	37090	103.0
	27.4	75.8	32190	32630	102.1
	30.5	74.0	27610	27990	101.5
	33.5	72.3	23920	24260	100.6
	36.6	70.5	20900	21200	99.4
	39.6	68.7	18380	18650	98.5
	42.7	66.9	16560	16810	97.2
	45.7	65.0	14720	14950	95.7
	48.8	63.1	13120	13330	94.5
	51.8	61.2	11720	11920	92.7
	54.9	59.3	10480	10660	91.1
	57.9	57.3	9370	9500	89.3
	61.0	55.3	8360	8360	87.2
	64.0	53.2	7330	7330	85.0
	67.1	51.0	6400	6400	82.6
	70.1	48.8	5550	5550	80.2
	73.2	46.5	4780	4780	77.4
	76.2	44.2	4080	4080	74.4
	79.2	41.7	3430	3430	71.0
82.3	39.1	2840	2840	67.4	
85.3	36.3	2300	2300	63.7	
88.4	33.3	1790	1790	59.1	
91.4	30.1	1330	1330	54.3	
106.7 m Boom & 54.9 m Mast	16.2	82.4	36380	36380	107.3
	18.3	81.2	36380	36380	107.0
	21.3	79.6	36380	36380	106.7
	24.4	77.9	32710	33780	106.1
	27.4	76.2	30670	30670	105.5
	30.5	74.5	27430	27810	104.5
	33.5	72.8	23750	24080	103.6
	36.6	71.1	20720	21020	102.7
	39.6	69.3	18200	18470	101.5
	42.7	67.6	16400	16650	100.6
	45.7	65.8	14560	14790	99.1
	48.8	64.0	12950	13170	97.8
	51.8	62.1	11550	11750	96.3
	54.9	60.3	10310	10490	94.5
	57.9	58.3	9200	9220	92.7
	61.0	56.4	8070	8070	90.8
	64.0	54.4	7050	7050	88.7
	67.1	52.4	6110	6110	86.6
	70.1	50.3	5270	5270	84.1
	73.2	48.1	4500	4500	81.4
	76.2	45.8	3800	3800	78.6
	79.2	43.5	3150	3150	75.6
82.3	41.0	2560	2560	72.2	
85.3	38.5	2010	2010	68.6	
88.4	35.7	1510	1510	64.6	
91.4	32.8	—	1050	60.0	

# MODEL 9310 SKY HORSE RATING DATA

Load ratings are in pounds (**kilograms**) and do not exceed 75% of tipping with crane standing level on firm uniformly supporting surface. Safe loads depend on ground conditions, boom lengths, radius of operation, and proper handling, all of which must be taken into consideration by user. Blocks, slings, buckets, and other load carrying devices are considered part of the load. The weight of standard hoisting rope has been calculated as part of the boom point load and need not be considered in determining net allowable loads. Retractable A-frame must be in fully raised position for all ratings.

Lifting is approved only in those areas for which ratings are shown in the rating chart. Ratings in shaded areas are based on structural limitations rather than stability. All ratings are with side frames extended.

"Radius in feet (**meters**)" is the horizontal distance at crane base level from center pin to a vertical line through the center of gravity of the suspended load.

Boom suspension line is 1-1/8 inch (**2.8 cm**) diameter with minimum breaking strength of 130,000 pounds (**58970 kilograms**). Boom suspension pendants are 1-3/4 inch (**4.4 cm**) diameter with minimum breaking strength of 306,000 pounds (**138800 kilograms**).

Mast suspension line is 7/8 inch (**2.2 cm**) diameter with minimum breaking strength of 79,600 pounds (**36100 kilograms**). Mast suspension pendants are 1-3/8 inch (**3.5 cm**) diameter with minimum breaking strength of 208,000 pounds (**94350 kilograms**). Counterweight suspension pendants are 1-1/8 inch (**2.8 cm**) diameter with minimum breaking strength of 140,600 pounds (**63780 kilograms**).

\*Load hoisting data based on machine with controlled load lowering and main load line of 1-1/8 inch (**2.8 cm**) diameter with minimum breaking strength of 130,000 pounds (**58970 kilograms**) (rope A) or 143,000 pounds (**64860 kilograms**) (rope B).

## Designed and rated to comply with ANSI Code B30.5

ERECTION: Crane will self-erect, over the long end of crawler base with tumblers blocked, a maximum of: 350 ft. (**106.7 m**) of boom plus 60 ft. (**18.3 m**) of No. 16HL jib, or 340 ft. (**103.6 m**) of boom plus 100 ft. (**30.5 m**) of No. 16HL jib. For boom lengths of 310 ft. (**94.5 m**) and longer, 4 boom point sheaves must be removed.

## LOAD HOISTING DATA\*

### METRIC

Maximum Lifting Capacity (Pounds) — Rope B	Maximum Lifting Capacity (Pounds) — Rope A	Minimum Pts. of Line	Maximum Hoisting Distance — Ft.	
			Aux. CLL — L.H.	Third Drum
330,000	330,000	10	44	143
327,000	297,120	8	55	179
245,000	222,840	6	74	239
163,500	148,500	4	111	359
81,750	74,280	2	222	718

Maximum Lifting Capacity (Kilograms) — Rope B	Maximum Lifting Capacity (Kilograms) — Rope A	Minimum Pts. of Line	Maximum Hoisting Distance — Meters	
			Aux. CLL — L.H.	Third Drum
149,690	149,690	10	13.4	43.6
148,330	134,770	8	16.8	54.6
111,130	101,080	6	22.6	72.8
74,160	67,390	4	33.8	109.4
37,080	33,690	2	67.7	218.8

## 92H BOOM COMPOSITION

Boom Length		30 Ft. (9.2 m)	20 Ft. (6.1 m)	50 Ft. (15.3 m)	10 Ft. (3.0 m)	50 Ft. (15.3 m)	40 Ft. (12.2 m)
(Feet)	(Meters)	92HT Inner	92HT Base	92H Center	92ST Center	92S Center	92H Outer
150	45.7	1	1	1	1	—	1
160	48.8	1	2	1	—	—	1
170	51.8	1	—	1	—	1	1
180	54.9	1	—	1	1	1	1
190	57.9	1	1	1	—	1	1
200	61.0	1	1	1	1	1	1
210	64.0	1	2	1	—	1	1
220	67.1	1	—	1	—	2	1
230	70.1	1	—	1	1	2	1
240	73.2	1	1	1	—	2	1
250	76.2	1	1	1	1	2	1
260	79.2	1	2	1	—	2	1
270	82.3	1	—	1	—	3	1
280	85.3	1	—	1	1	3	1
290	88.4	1	1	1	—	3	1
300	91.4	1	1	1	1	3	1
310	94.5	1	2	1	—	3	1
320	97.5	1	—	1	—	4	1
330	100.6	1	—	1	1	4	1
340	103.6	1	1	1	—	4	1
350	106.7	1	1	1	1	4	1

## 77M MAST COMPOSITION

Mast Length		30 Ft. (9.2 m)	20 Ft. (6.1 m)	10 Ft. (3.0 m)	20 Ft. (6.1 m)	50 Ft. (15.3 m)	50 Ft. (15.3 m)
(Feet)	(Meters)	77M Inner	77M Center	77S Center	77S Center	77S Center	77M Outer
100	30.5	1	1	—	—	—	1
130	39.6	1	1	1	1	—	1
150	45.7	1	1	—	—	1	1
180	54.9	1	1	1	1	1	1

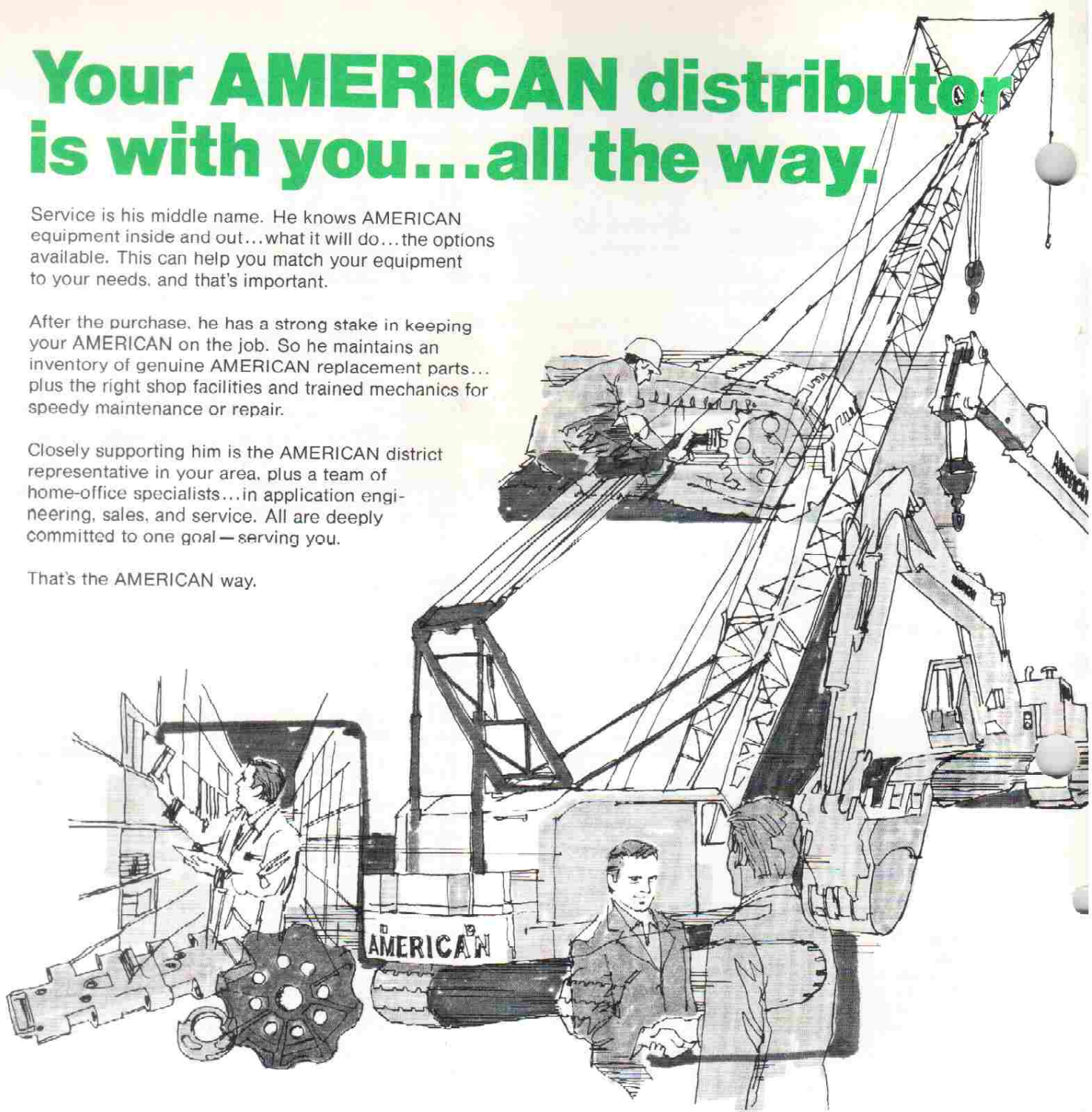
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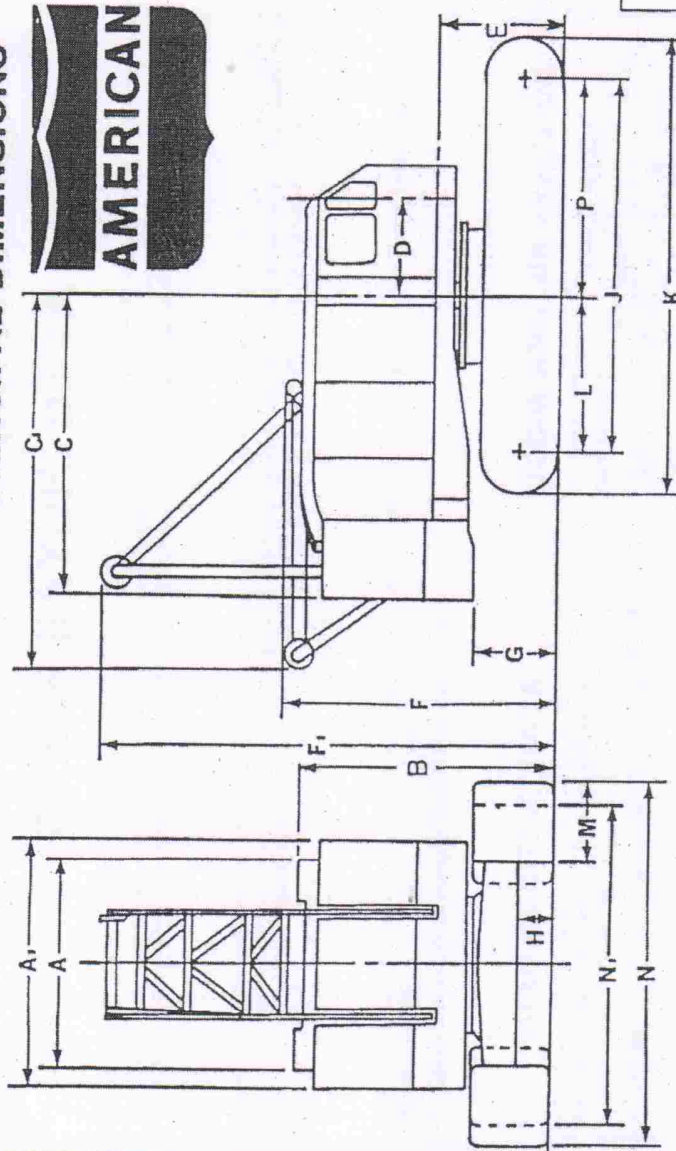


# SPECIFICATION of

# AMERICAN 9310



## PRINCIPAL DIMENSIONS



	m.	Ft.
A. Width of cab	3.35	11' 0"
A <sub>1</sub> . Width over counterweight	4.01	13' 2"
B. Height over cab	6.16	20' 2 1/8"
C. Tailswing	5.18	17' 0"
C <sub>1</sub> . Tailswing with A-frame, Lowered	7.56	24' 9"
D. Center of pivot to center of boom foot	1.56	5' 0 3/4"
E. Ground to center boom foot	2.06	6' 9 1/8"
F. Height over A-frame, Lowered-Ctwt. On 4:47	14' 8 5/8"	
F <sub>1</sub> . Height over A-frame, Lowered-Ctwt. Off 6:51	14' 9 7/8"	
G. Height over A-frame, Raised	9.23	30' 3 5/8"
H. Ground to bottom of counterweight	1.36	4' 5 3/8"
Minimum ground clearance under crawler base		
J. Center to center crawler tumbler	7.36	24' 2"
K. Overall length of crawlers	8.58	28' 2"
L. Center of rotation to center of drive tumbler	3.35	11' 0 1/4"
M. Center of rotation to center of idler tumbler	4.00	13' 1 3/4"
N. Width of tread shoes	1.27	4' 2"
N <sub>1</sub> . Overall width over crawlers	5.66	18' 7"

## WEIGHTS

	Kg.	Lbs.
Lifting crane with basic 70 ft. crane boom	163,382	360,270
Components removable for shipment:		
Counterweight	61222	135,000
Crane block	2721	6,000
Boom outer	4566	10,070
Boom inner	2811	6,200
Telescopic boom stops	135	300
Outer bail assembly	111	245
A-frame	2472	5,320
Side frames, 50" shoes (2)	35781	78,900
Crawler axles (4)	5560	12,300
Torque tubes (2)	477	1,050
Carbody	12878	28,400

## PERFORMANCE

LINE PULL:	
Crane Hoist	18,140 Kg.
Third Drum	6,802 "
or	9,573 "
Performance figures are based on machine equipped with standard engine.	
TRAVEL SPEED:	0.8 MPH
SWING SPEED:	2.28 RPM
SINGLE LINE SPEED:	
Crane Hoist	165 FPM
Third Drum	192 FPM
or	142 FPM



## LIFT RATING (Kg.)

With 92 H Tubular Boom & SS Counterweight 61,222 Kg. (135,000<sup>#</sup>)

BOOM LENGTH		RADIUS		BOOM ANGLE L°	CAPACITIES (Kg.)		FROM BOOM POINT		MIN. LOAD LINE
Ft.	m	Ft.	m		SIDE FRAME RETRACTED	SIDE FRAME EXTENDED	Ft.	m	
70'	21.3	17	5.2	81.4		204 075	76	23.2	12
		20	6.1	78.9		152 375	75	22.8	9
		25	7.6	74.7	88 446	104 436	74	22.5	6
		30	9.1	70.4	67 966	78 990	73	22.2	5
		35	10.6	65.9	54 941	63 245	71	21.6	4
		40	12.2	61.3	45 935	52 547	68	20.7	3
		50	15.2	51.3	34 180	38 833	61	18.6	3
		60	18.2	39.5	26 937	44 111	51	15.5	2
		70	21.3	23.2	21 958	24 847	34	10.3	2
80'	24.3	18	5.4	81.8		186 016	86	26.2	11
		20	6.1	80.3		152 348	86	26.2	9
		25	7.6	76.6	88 369	104 391	85	25.9	6
		30	9.1	72.9	87 875	78 922	83	25.3	5
		35	10.6	69.1	54 850	63 172	81	24.7	4
		40	12.2	65.2	45 844	52 474	79	24.1	3
		50	15.2	56.9	34 085	38 747	74	22.5	3
		60	18.2	47.7	26 851	30 425	66	20.1	2
		70	21.3	36.8	21 881	24 774	55	16.7	2
		80	24.3	21.6	18 266	20 693	36	10.9	2
90'	27.4	20	6.1	81.4		152 280	96	29.2	9
		25	7.6	78.2	88 251	104 295	95	28.9	6
		30	9.1	74.3	67 752	78 813	94	28.6	5
		35	10.6	71.5	54 723	63 059	92	28.0	4
		40	12.2	68.1	45 721	52 361	90	27.4	3
		50	15.2	61.0	33 953	38 629	85	25.9	3
		60	18.2	53.3	26 729	30 311	79	24.1	2
		70	21.3	44.8	21 754	24 652	70	21.3	2
		80	24.3	34.6	18 149	20 575	58	17.6	2
		90	27.4	20.3	15 441	17 527	38	11.5	1
100'	30.4	21	6.4	81.7	115 379	139 487	106	32.3	8
		25	7.6	79.4	88 124	104 196	105	32.0	6
		30	9.1	76.4	67 616	78 695	104	31.7	5
		35	10.1	73.4	54 587	62 936	103	31.4	4
		40	12.2	70.4	45 590	52 243	101	30.8	3
		50	15.2	64.2	33 812	38 497	97	29.5	3
		60	18.2	57.5	26 602	30 194	91	27.7	2
		70	21.3	50.4	21 627	24 529	84	25.6	2
		80	24.3	42.3	18 022	20 452	74	22.5	2
		90	27.4	32.7	15 341	17 432	61	18.6	1
		100	30.4	19.2	13 174	15 006	40	12.7	1
110'	33.5	22	6.7	81.9	107 072	128 603	116	35.3	7
		25	7.6	80.3	87 983	104 078	115	35.0	6
		30	8.1	77.7	67 467	78 574	114	34.7	5
		35	10.6	75.0	54 438	62 800	113	34.4	4
		40	12.2	72.3	45 445	52 107	112	34.1	3
		50	15.2	66.7	33 658	38 352	108	32.9	3
		60	18.2	60.8	26 457	30 053	103	31.4	2
		70	21.3	54.6	21 482	24 389	96	29.2	2
		80	24.3	47.8	17 876	20 312	88	26.8	2
		90	27.4	40.2	15 214	17 310	78	23.7	1
		100	30.4	31.1	13 051	14 888	64	19.5	1
		110	33.5	18.2	11 305	12 938	41	12.5	1

TECHNICAL & INFORMATION SERVICES - Drawg. No. ITS 02657 - Dm. 1-1-1990

SPECIFICATION of

AMERICAN 9310



LIFT RATINGS (Kg.)  
 With 92H Tubular Boom & SS Counterweight 61,222 kg. (135,000)<sup>#</sup>

BOOM LENGTH		RADIUS		BOOM ANGLE L°	CAPACITIES (Kg.)		FROM BOOM POINT		MIN. LOAD LINE
Ft.	m	Ft.	m		SIDE FRAME RETRACTED	SIDE FRAME EXTENDED	Ft.	m	
120'	36.5	24	7.3	81.6	93 357	110 985	125	38.1	7
		25	7.6	81.2	87 856	103 969	125	38.1	6
		30	9.1	78.7	67 531	78 446	124	37.8	5
		35	10.8	76.3	54 302	62 673	123	37.5	4
		40	12.2	73.8	45 318	51 989	122	37.3	3
		50	15.2	68.7	33 522	38 220	119	36.3	3
		60	18.2	63.5	26 330	29 931	114	34.7	2
		70	21.3	58.0	21 350	24 262	108	32.9	2
		80	24.3	52.1	17 745	18 375	101	30.8	2
		90	27.4	45.7	15 097	17 196	93	28.3	1
		100	30.4	38.4	12 942	14 784	81	24.5	1
		110	33.5	29.7	11 201	12 838	66	20.1	1
120	36.5	17.4	9 763	11 237	43	13.1	1		
130'	39.6	25	7.6	81.8	87 638	103 833	135	41.1	6
		30	9.1	79.6	67 167	78 296	135	41.1	5
		35	10.8	77.3	54 153	62 528	134	40.8	4
		40	12.2	75.1	45 159	51 839	132	40.2	3
		50	15.2	70.4	33 369	38 062	129	39.3	3
		60	18.2	65.7	26 171	29 776	125	38.1	2
		70	21.3	60.7	21 187	24 108	120	36.5	2
		80	24.3	55.5	17 582	20 026	114	34.7	2
		90	27.4	49.9	14 947	17 051	106	32.3	2
		100	30.4	43.8	12 793	14 638	97	29.5	1
		110	33.5	36.8	11 056	12 698	85	25.9	1
		120	36.5	28.5	9 627	11 101	69	21.0	1
130	39.6	16.7	8 421	9 763	44	13.4	1		
140'	42.6	27	8.2	81.6	78 133	91 870	145	44.2	5
		30	9.1	80.4	66 995	78 142	145	44.2	5
		35	10.6	78.3	53 966	62 365	144	43.9	4
		40	12.2	76.2	44 987	51 676	143	43.6	3
		50	15.2	71.9	33 173	37 889	140	42.7	3
		60	18.2	67.5	25 994	29 576	136	41.4	2
		70	21.3	63.0	21 015	23 940	131	39.9	2
		80	24.3	58.3	17 405	19 854	126	38.4	2
		90	27.2	53.3	14 784	16 892	119	36.3	1
		100	30.4	47.9	12 634	14 480	111	33.8	1
		110	33.5	42.1	10 893	12 539	101	30.8	1
		120	36.5	35.4	9 464	10 942	88	26.8	1
130	39.6	27.4	8 267	9 609	71	21.6	1		
140	42.6	16.1	7 242	8 475	46	14.0	1		
150'	45.1	28	8.5	81.8	73 897	86 677	155	47.2	5
		30	9.1	81.0	66 823	77 988	155	47.2	5
		35	10.6	79.1	53 798	62 211	154	46.9	4
		40	12.2	77.1	44 819	51 522	153	46.6	3
		50	15.2	73.1	33 001	37 722	150	45.7	3
		60	18.2	69.1	25 822	29 445	147	44.8	2
		70	21.3	64.9	20 858	23 767	143	43.6	2
		80	24.3	60.6	17 233	19 686	137	41.7	2
		90	27.4	56.1	14 620	16 734	131	39.9	1
		100	30.4	51.3	12 471	14 321	124	37.8	1
		110	33.5	46.2	10 734	12 380	115	35.0	1
		120	36.5	40.6	9 301	10 784	104	31.7	1
130	39.6	34.2	8 072	9 455	91	27.7	1		
140	42.6	26.5	7 092	8 326	74	22.5	1		
150	45.1	15.5	6 208	7 351	47	14.3	1		

TECHNICAL & INFORMATION SERVICES - Drwg. No. TTS 0265Y - Dtn. F.F. 8-1-1990

SPECIFICATION OF

AMERICAN 9310

LIFT RATINGS ( Kg. )  
 With 92 H Tubular Boom & SS Counterweight 61,222 kg. (135,000<sup>#</sup>)

BOOM		RADIUS		BOOM ANGLE L°	CAPACITIES (Kg.)		FROM BOOM POINT		MIN. LOAD LINE
Ft.	m	Ft.	m		SIDE FRAME RETRACTED	SIDE FRAME EXTENDED	Ft.	m	
160'	48.8	29	8.8	81.9	70025	81961	165	50.3	5
		30	9.1	81.6	66650	77829	165	50.3	5
		35	10.8	79.8	53621	62047	164	50.0	4
		40	12.2	77.9	44651	51363	163	49.7	3
		50	15.2	74.2	32824	37549	161	49.1	3
		60	18.2	70.5	25649	29277	158	48.1	2
		70	21.3	66.6	20665	23595	154	46.9	2
		80	24.3	62.6	17056	19514	149	45.4	2
		90	27.4	58.5	14453	16566	143	43.6	1
		100	30.4	54.1	12303	14153	136	41.4	1
		110	33.5	49.6	10566	12217	129	29.2	1
		120	36.5	44.6	9138	10625	119	36.3	1
		130	39.6	39.2	7945	9292	108	32.9	1
		140	42.6	33.0	6924	8163	94	28.6	1
		150	45.1	25.6	6049	7192	76	23.1	1
		160	48.8	15.0	5287	6349	48	14.6	1
170'	51.8	31	9.4	81.7	63399	73911	175	53.3	5
		35	10.8	80.4	53463	61898	174	53.0	4
		40	12.2	78.6	44492	51213	173	52.7	3
		50	15.2	75.2	32656	37386	171	52.1	3
		60	18.2	71.7	25495	29128	168	51.2	2
		70	21.3	68.0	20502	23441	164	50.0	2
		80	24.3	64.4	16888	21164	160	48.8	2
		90	27.4	60.5	14303	16421	155	47.2	1
		100	30.4	56.6	12149	14004	149	45.4	1
		110	33.5	52.4	10335	12067	141	43.0	1
		120	36.5	48.0	8988	10475	133	40.5	1
		130	39.6	43.2	7791	9142	123	37.5	1
		140	42.6	38.0	6775	8013	111	33.8	1
		150	45.1	32.0	5900	7042	97	29.5	1
		160	48.8	24.8	5142	6203	78	23.7	1
		170	51.8	14.5	4471	5460	49	14.9	1
180'	54.9	32	9.7	81.9	60569	70496	185	56.4	4
		35	10.8	80.9	53227	61730	184	56.1	4
		40	12.2	79.3	44325	51050	183	55.8	3
		50	15.2	76.0	32475	37214	181	55.1	3
		60	18.2	72.7	25318	28955	179	54.5	2
		70	21.3	69.3	20321	23264	175	53.3	2
		80	24.3	65.9	16706	19169	171	52.1	2
		90	27.4	62.3	14131	16253	166	50.6	1
		100	30.4	58.6	11976	13836	160	48.8	1
		110	33.5	54.8	10244	11895	154	46.9	1
		120	36.5	50.8	8816	10303	146	44.5	1
		130	39.6	46.5	7618	8974	137	41.7	1
		140	42.6	41.9	6602	7841	127	38.7	1
		150	45.1	36.9	5727	6875	115	35.0	1
		160	48.8	31.1	4970	6031	100	30.4	1
		170	51.8	24.1	4299	5292	80	24.3	1
180	54.9	14.1	3714	4643	51	15.5	1		

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SPECIFICATION OF

AMERICAN 9310



**LIFT RATINGS ( Kg. )**  
 With 92 H Tubular Boom & SS Counterweight 61,222 kg. (135,000)<sup>#</sup>

BOOM LENGTH		RADIUS		BOOM ANGLE	CAPACITIES (Kg.)		FROM BOOM POINT		MIN. LOAD LINE
					SIDE FRAME RETRACTED	SIDE FRAME EXTENDED	Ft.	m	
Ft.	m	Ft.	m	L°			Ft.	m	
190'	57.9	33	10.0	82.0	56733	67167	195	59.3	4
		35	10.8	81.4	53109	61567	195	59.3	4
		40	12.2	79.9	44139	50882	194	59.1	3
		50	15.2	76.8	32284	37032	192	58.5	3
		60	18.2	73.6	25132	28779	189	57.6	2
		70	21.3	70.5	20135	23083	186	56.7	2
		80	24.3	67.2	16516	18988	182	55.5	2
		90	27.4	63.9	13949	16072	177	53.9	1
		100	30.4	60.5	11800	13659	172	52.4	1
		110	33.5	56.9	10063	11718	166	50.6	1
		120	36.5	53.2	8634	10126	159	48.4	1
		130	39.6	49.3	7437	8793	151	46.0	1
		140	42.6	45.2	6421	7664	142	43.3	1
		150	45.1	40.7	5546	6693	131	39.9	1
		160	48.8	35.5	4784	5850	118	35.9	1
		170	51.8	30.2	4122	5115	102	31.1	1
		180	54.9	23.4	3532	4284	82	25.0	1
		190	57.9	13.7	3011	3891	52	15.8	1
200'	61.0	35	10.8	81.8	52927	61399	205	62.5	4
		40	12.2	80.4	43966	50714	204	62.2	3
		50	15.2	77.4	32103	36955	202	61.5	3
		60	18.2	74.5	24951	28602	199	60.6	2
		70	21.3	71.5	19949	22901	196	59.7	2
		80	24.3	68.4	16330	18802	193	58.7	2
		90	27.4	65.3	13777	15904	188	57.3	1
		100	30.4	62.1	11618	13487	183	55.8	1
		110	33.5	58.8	9881	11541	178	54.2	1
		120	36.5	55.4	8457	9949	171	52.1	1
		130	39.6	51.8	7256	8616	164	50.0	1
		140	42.6	48.8	6240	7487	155	47.2	1
		150	45.1	44.0	5369	6521	146	44.5	1
		160	48.8	39.7	4607	5673	134	40.8	1
		170	51.8	34.9	3940	4938	121	36.9	1
		180	54.9	29.4	3355	4285	105	32.0	1
		190	57.9	22.8	2829	3709	84	25.6	1
		200	61.0	13.4	2362	3192	53	16.1	1
210'	64.0	36	11.0	81.9	50655	58732	215	65.5	4
		40	12.2	80.8	43789	50551	214	65.2	3
		50	15.2	78.1	37653	36679	212	64.6	3
		60	18.2	75.2	24770	28425	210	64.0	2
		70	21.3	72.4	19768	22720	207	63.1	2
		80	24.3	69.5	16144	18620	203	61.9	2
		90	27.4	66.6	13595	15727	199	60.6	1
		100	30.4	63.5	11441	13305	195	59.4	1
		110	33.5	60.4	9704	11369	189	57.4	1
		120	36.5	57.2	8276	9773	183	55.8	1
		130	39.6	53.9	7079	8439	176	53.6	1
		140	42.6	50.4	6058	7305	169	51.5	1
		150	45.1	46.8	5188	6335	160	48.8	1
		160	48.8	42.9	4430	5496	150	45.1	1
		170	51.8	38.7	3764	4761	138	42.0	1
		180	54.9	34.0	3174	4108	124	37.8	1
		190	57.9	28.7	2652	3532	108	32.9	1
		200	61.0	22.2	2185	3015	86	26.2	1
210	64.0	13.0	1764	2553	54	16.4	1		

AMERICAN 9310



**LIFT RATINGS ( Kg. )**  
 With 92 H Tubular Boom & SS Counterweight 61,222 kg. (135,000<sup>#</sup>)

BOOM LENGTH		RADIUS		BOOM ANGLE L <sup>o</sup>	CAPACITIES ( Kg. )		FROM BOOM POINT		MIN. LOAD LINE		
Ft.	m	Ft.	m		SIDE FRAME RETRACTED	SIDE FRAME EXTENDED	Ft.	m			
220'	67.1	38	11.6	81.8	46937	54306	225	68.6	3		
		40	12.2	81.3	43622	50392	224	68.3	3		
		50	15.2	78.6	31735	36502	222	67.7	3		
		60	18.2	75.9	24602	28257	220	67.1	2		
		70	21.3	73.2	19591	22552	217	66.1	2		
		80	24.3	70.5	15967	18448	214	65.2	2		
		90	27.4	67.7	13432	15568	210	64.0	1		
		100	30.4	64.8	11274	13147	206	62.6	1		
		110	33.5	61.9	9537	11201	201	61.3	1		
		120	36.5	58.9	8104	9605	195	59.4	1		
		130	39.6	55.8	6911	8271	189	57.8	1		
		140	42.6	52.6	5890	7142	181	55.2	1		
		150	45.1	49.2	5020	6172	173	52.7	1		
		160	48.8	45.6	4258	5328	164	50.0	1		
		170	51.8	41.8	3596	4593	153	46.6	1		
		180	54.9	37.7	3006	3945	141	43.0	1		
		190	57.9	33.2	2480	3364	127	38.7	1		
		200	61.0	28.0	2013	2847	110	33.5	1		
		210	64.0	21.7	1591	2380	88	25.8	1		
		220	67.1	12.7		1968	55	15.7	1		
		230'	70.1	39	11.9	81.9	45050	51748	234	71.3	3
				40	12.2	81.6	43449	50225	234	71.3	3
50	15.2			79.1	31785	36561	233	71.0	2		
60	18.2			76.6	24416	28080	230	70.1	2		
70	21.3			74.0	19409	22375	228	69.5	2		
80	24.3			71.4	15777	18262	225	68.6	2		
90	27.4			68.7	13251	15387	221	67.3	1		
100	30.4			66.0	11092	12965	217	66.1	1		
110	33.5			63.2	9355	11020	212	64.6	1		
120	36.5			60.4	7922	9423	207	63.1	1		
130	39.6			57.5	6729	8090	201	61.2	1		
140	42.6			54.5	5709	6961	194	59.1	1		
150	45.1			51.3	4834	5990	186	55.7	1		
160	48.8			48.0	4076	5147	178	54.2	1		
170	51.8			44.6	3410	4408	168	51.2	1		
180	54.9			40.9	2820	3759	157	47.8	1		
190	57.9			36.9	2299	3183	145	44.2	1		
200	61.0			32.4	1827	2662	130	39.6	1		
210	64.0			27.4		2199	113	34.4	1		
220	67.1			21.2		1782	90	27.4	1		
240'	73.2			40	12.2	82.0	43268	50057	244	74.4	3
				50	15.2	79.6	31608	36393	243	74.1	2
		60	18.2	77.1	24235	27903	241	73.4	2		
		70	21.3	74.7	19219	22189	238	72.3	2		
		80	24.3	72.2	15586	18071	235	71.6	2		
		90	27.4	69.6	13069	15210	232	70.7	1		
		100	30.4	67.1	10911	12784	228	69.5	1		
		110	33.5	64.4	9169	10838	223	68.0	1		
		120	36.5	61.7	7736	9242	218	65.4	1		
		130	39.6	59.0	6539	7904	212	64.6	1		
		140	42.6	56.1	5523	6775	206	62.8	1		
		150	45.1	53.2	4648	5804	199	60.6	1		
		160	48.8	50.2	3886	4961	191	58.2	1		
		170	51.8	46.9	3219	4222	182	55.5	1		
		180	54.9	43.6	2634	3573	172	52.4	1		
		190	57.9	40.0	2108	2993	161	49.1	1		
		200	61.0	36.0	1641	2476	148	45.1	1		
		210	64.0	31.7		2009	133	40.5	1		
		220	67.1	26.8		1591	115	35.0	1		

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 TICAL & INFORMATION SERVICES - Drawg. No. JIS 0265Y - Dtn. 3-1-1990

SPECIFICATION OF

AMERICAN 9310



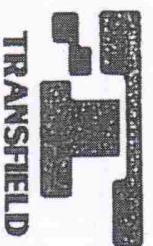
**LIFT RATINGS ( Kg. )**  
 With 92 H Tubular Boom & SS Counterweight 61,222 kg. (135,000<sup>#</sup>)

BOOM LENGTH		RADIUS		BOOM ANGLE °	CAPACITIES ( Kg. )		FROM BOOM POINT		MIN. LOAD LINE		
Ft.	m	Ft.	m		SIDE FRAME RETRACTED	SIDE FRAME EXTENDED	Ft.	m			
250'	76.2	42	12.8	81.8	38792	46433	254	77.4	3		
		50	15.2	80.0	31432	38617	253	77.1	2		
		60	18.2	77.6	24053	27226	251	76.5	2		
		70	21.3	75.3	19033	22003	249	75.9	2		
		80	24.3	72.9	15645	18135	246	75.0	1		
		90	27.4	70.5	12902	15028	242	73.8	1		
		100	30.4	68.0	10725	12602	230	70.1	1		
		110	33.5	65.5	8983	10657	234	71.3	1		
		120	36.5	63.0	7550	9056	229	69.8	1		
		130	39.6	60.4	6353	7723	224	68.3	1		
		140	42.6	57.7	5337	6593	218	66.4	1		
		150	45.1	54.9	4462	5618	211	64.3	1		
		160	48.8	52.0	3700	4725	204	62.2	1		
		170	51.8	49.1	3033	4040	196	59.7	1		
		180	54.9	45.9	2444	3387	186	55.7	1		
		190	57.9	42.6	1922	2811	176	53.6	1		
		200	61.0	39.1		2290	164	50.0	1		
		210	64.0	35.3		1823	151	46.0	1		
		260'	79.2	43	13.1	81.9	38629	44583	264	80.5	3
				50	15.2	80.4	31255	36048	263	80.2	2
60	18.2			78.1	23867	27550	261	79.5	2		
70	21.3			75.9	18842	21822	259	78.9	2		
80	24.3			73.6	15464	17963	256	78.0	1		
90	27.4			71.3	12707	14856	253	77.1	1		
100	30.4			68.9	10539	12421	249	75.9	1		
110	33.5			66.5	8797	10471	245	74.7	1		
120	36.5			64.1	7369	8879	241	73.4	1		
130	39.6			61.6	6172	7541	235	71.6	1		
140	42.6			59.1	5151	6407	230	70.1	1		
150	45.1			56.5	4276	5437	223	67.0	1		
160	48.8			53.8	3514	4589	216	65.9	1		
170	51.8			51.0	2847	3854	209	63.7	1		
180	54.9			48.0	2258	3201	200	61.0	1		
190	57.9			45.0	1732	2621	191	58.2	1		
200	61.0			41.8		2104	180	54.9	1		
210	64.0			38.3		1637	168	51.2	1		
270'	82.3			45	13.7	81.8	35962	41608	274	83.5	3
				50	15.2	80.7	31069	35871	273	83.2	2
		60	18.2	78.6	23677	27364	271	82.5	2		
		70	21.3	76.4	18647	21631	269	82.0	2		
		80	24.3	74.2	15278	17777	267	81.4	1		
		90	27.4	72.0	12516	14666	264	80.5	1		
		100	30.4	69.7	10353	12239	259	78.9	1		
		110	33.5	67.4	8611	10289	256	78.0	1		
		120	36.5	65.1	7178	8689	252	76.8	1		
		130	39.6	62.8	5977	7351	247	75.3	1		
		140	42.6	60.3	4956	6217	241	73.4	1		
		150	45.1	57.9	4081	5246	235	71.6	1		
		160	48.8	55.3	3319	4398	229	69.8	1		
		170	51.8	52.7	2652	3659	221	67.4	1		
		180	54.9	49.9	2063	3006	213	64.9	1		
		190	57.9	47.1	1541	2426	205	62.5	1		
		200	61.0	44.1		1909	195	59.4	1		

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SPECIFICATION of

AMERICAN 9310



LIFT RATINGS (Kg.)

With 92H Tubular Boom & SS counterweight 61,222 kg. (135,000)#

BOOM LENGTH Ft.   m	RADIUS Ft.   m	BOOM ANGLE °	CAPACITIES (Kg.)		FROM BOOM POINT Ft.   m	MIN. LOAD LINE		
			SIDE FRAME RETRACTED	SIDE FRAME EXTENDED				
280' 85.3	46	14.0	81.9	34937	284	86.6	2	
	50	15.2	81.1	30905	283	86.3	2	
	60	18.2	79.0	23504	27195	282	86.0	2
	70	21.3	76.9	18475	21459	279	85.0	2
	80	24.3	74.8	15115	17618	277	84.4	1
	90	27.4	72.6	12353	14507	274	83.5	1
	100	30.4	70.5	10190	11940	271	82.6	1
	110	33.5	68.3	8439	10117	267	81.4	1
	120	36.5	66.1	7006	8516	263	80.2	1
	130	39.6	63.8	5804	7179	258	78.6	1
	140	42.6	61.5	4788	6049	253	77.1	1
	150	45.1	59.1	3909	5074	247	75.2	1
	160	48.8	56.7	3147	4226	241	73.4	1
	170	51.8	54.2	2481	3491	234	71.3	1
	180	54.9	51.6	1895	2838	226	68.9	1
	190	57.9	49.0		2258	218	66.4	1
200	61.0	46.2		1737	209	63.7	1	
290' 88.4	47	14.3	82.0	33681	294	89.6	2	
	50	15.2	81.4	30724	34638	293	89.3	2
	60	18.2	79.4	23323	27019	292	89.0	2
	70	21.3	77.4	18289	21278	290	88.4	2
	80	24.3	75.3	14933	17441	287	87.5	1
	90	27.4	73.3	12167	14321	284	86.6	1
	100	30.4	71.2	9999	11890	281	85.6	1
	110	33.5	69.1	8253	9482	278	84.7	1
	120	36.5	66.9	6820	8335	274	83.5	1
	130	39.6	64.8	5618	6992	269	82.0	1
	140	42.6	62.6	4598	5859	264	80.5	1
	150	45.1	60.3	3718	4884	259	78.9	1
	160	48.8	58.0	2961	4040	253	77.1	1
	170	51.8	55.6	2290	3301	246	75.0	1
	180	54.9	53.2	1700	2648	239	72.8	1
	190	57.9	50.7		2067	231	70.4	1
200	61.0	48.1			222	67.7	1	
210	64.0	45.3			213	64.9	1	
220	67.1	42.5			203	61.9	1	

