



# 900 SERIES MODEL 9299 CRAWLER CRANE WITH 77S BOOM

**LOAD RATINGS** With 77S Tubular Chord Hammerhead Boom  
 100" P.P. Counterweight (105,000 Lbs.) (47,628 kg)

**METRIC**

Booms Feet	Boom Angle Degrees	Side Frames Retracted	Side Frames Extended	Ft. From Boom Point	Min. Load Line	
70	15	82.8	—	3000	77	9
	20	79.5	—	242420	77	7
	25	75.4	—	169940	75	5
	30	71.1	111230	130100	74	4
	35	66.7	90450	104890	72	3
	40	62.2	75870	87500	70	3
	50	52.4	56740	65050	63	2
	60	41.0	44730	51160	53	2
70	25.6	36640	41670	37	2	
80	17	83.0	—	312290	87	9
	20	80.8	—	242520	87	7
	25	77.2	—	169920	86	5
	30	73.5	111120	130030	84	4
	35	69.8	90310	104790	83	3
	40	65.9	75720	87380	81	3
	50	57.8	56580	64910	75	2
	60	48.8	44570	51020	68	2
70	38.2	36310	41560	57	2	
80	23.8	30240	34660	39	1	
90	19	82.5	—	264900	97	8
	20	81.9	—	242570	97	7
	25	78.7	—	169880	96	5
	30	75.4	110980	129930	95	4
	35	72.1	90160	104660	93	3
	40	68.7	75550	87240	92	3
	50	61.7	56400	64750	87	2
	60	54.2	44390	50850	81	2
70	45.8	36130	41390	72	2	
80	35.9	30090	34520	60	1	
90	22.4	25460	29280	41	1	
100	23	82.7	—	242570	107	7
	25	79.8	—	169780	106	5
	30	76.9	110790	129780	105	4
	35	73.9	89940	104480	104	3
	40	70.9	75320	87040	102	3
	50	64.8	56160	64530	98	2
	60	58.2	44140	50620	93	2
	70	51.2	35890	41160	85	2
80	43.3	29860	34300	76	1	
90	34.0	25250	29080	63	1	
100	21.2	21590	24950	43	1	
110	21	82.8	—	223560	117	7
	25	80.7	142780	169670	116	5
	30	78.1	110800	129620	115	4
	35	75.4	89730	104290	114	3
	40	72.7	75090	86830	113	3
	50	67.2	55910	64290	109	2
	60	61.4	43880	50380	104	2
	70	55.3	35630	40910	98	2
80	48.6	29610	34050	90	1	
90	41.2	25010	28840	80	1	
100	32.3	21370	24740	66	1	
110	20.1	18400	21410	45	1	
120	22	82.9	—	207210	127	6
	25	81.5	142660	169600	126	5
	30	79.1	110450	129500	126	4
	35	76.7	89560	104150	124	3
	40	74.2	74910	86670	123	3
	50	69.2	55710	64110	120	2
60	64.0	43680	50180	115	2	

Boom Length (Meter)	Radius In Meter	Boom Angle Degrees	Side Frames Retracted	Side Frames Extended	M From Boom Point	Min. Load Line
21.3 meters	4.9	82.8	—	149690	23.5	9
	6.1	79.5	—	109960	23.5	7
	7.6	75.4	—	77080	22.9	5
	9.1	71.1	50450	59010	22.6	4
	10.7	66.7	41030	47580	21.9	3
	12.2	62.2	34410	39690	21.3	3
	15.2	52.4	25740	29510	19.2	2
	18.3	41.0	20290	23210	16.2	2
	21.3	25.6	16620	18900	11.3	2
	24.4 meters	5.2	83.0	—	141650	26.5
6.1		80.8	—	110010	26.5	7
7.6		77.2	—	77080	26.2	5
9.1		73.5	50400	58980	25.6	4
10.7		69.8	40960	47530	25.3	3
12.2		65.9	34350	39640	24.7	3
15.2		57.8	25660	29440	22.9	2
18.3		48.8	20220	23140	20.7	2
21.3		38.2	16470	18850	17.4	2
24.4		23.8	13720	15720	11.9	1
27.4 meters	5.8	82.5	—	120160	29.6	8
	6.1	81.9	—	110030	29.6	7
	7.6	78.7	—	77060	29.3	5
	9.1	75.4	50340	58940	29.0	4
	10.7	72.1	40900	47470	28.3	3
	12.2	68.7	34270	39570	28.0	3
	15.2	61.7	25580	29370	26.5	2
	18.3	54.2	20140	23070	24.7	2
	21.3	45.8	18390	18770	21.9	2
	24.4	35.9	13650	15660	18.3	1
27.4	22.4	11550	13280	12.5	1	
30.5 meters	6.1	82.7	—	110030	32.6	7
	7.6	79.8	—	77010	32.3	5
	9.1	76.9	50250	58870	32.0	4
	10.7	73.9	40800	47390	31.7	3
	12.2	70.9	34170	39480	31.1	3
	15.2	64.8	25470	29270	29.9	2
	18.3	58.2	20020	22960	28.3	2
	21.3	51.2	16280	18670	25.9	2
	24.4	43.3	13540	15560	23.2	1
	27.4	34.0	11450	13190	19.2	1
30.5	21.2	9790	11320	13.1	1	
33.5 meters	6.4	82.8	—	101410	35.7	7
	7.6	80.7	64770	76960	35.4	5
	9.1	78.1	50170	58800	35.1	4
	10.7	75.4	40700	47310	34.7	3
	12.2	72.7	34060	39390	34.4	3
	15.2	67.2	25360	29160	33.2	2
	18.3	61.4	19900	22850	31.7	2
	21.3	55.3	16160	18560	29.9	2
	24.4	48.6	13430	15450	27.4	1
	27.4	41.2	11340	13080	24.4	1
30.5	32.3	9690	11220	20.1	1	
33.5	20.1	8350	9710	13.7	1	
36.6 meters	6.7	82.9	—	93990	38.7	6
	7.6	81.5	64710	76930	38.4	5
	9.1	79.1	50100	58740	38.4	4
	10.7	76.7	40620	47240	37.8	3
	12.2	74.2	33980	39310	37.5	3
	15.2	69.2	25270	29080	36.6	2
18.3	64.0	19810	22760	35.1	2	

(Continued)



# RATINGS (cont.)

## 77S Tubular Chord Hammerhead Boom

### METRIC

Boom Length (Feet)	Radius In Feet	Boom Angle Degrees	Side Frames Retracted	Side Frames Extended	Ft. From Boom Point	Min. Load Line
120 ft.	70	58.5	35430	40720	110	2
	80	52.7	29410	33860	103	1
	90	46.4	24810	28650	94	1
	100	39.3	21180	24560	83	1
	110	30.9	18240	21250	69	1
	120	19.2	15780	18490	47	1
130 ft.	84	82.6	151140	180460	137	5
	85	82.2	142470	169460	137	5
	86	78.9	110230	129310	136	4
	87	77.7	89310	103930	135	3
	88	75.4	74640	86420	134	3
	89	70.8	55430	63640	131	2
	90	66.1	43380	49900	127	2
	95	61.2	35130	40430	122	2
	100	56.0	29100	33570	115	1
	105	50.5	24510	28360	108	1
	110	44.5	20890	24270	99	1
	115	37.7	17950	20970	87	1
120	29.6	15510	18230	71	1	
130	18.4	13440	15920	48	1	
140 ft.	95	82.7	142280	169310	147	5
	96	80.7	110000	129120	146	4
	97	78.6	89060	103700	145	3
	98	76.5	74380	86180	144	3
	99	72.3	55140	63570	141	2
	100	67.9	43090	49620	137	2
	105	63.4	34820	40140	133	2
	110	58.7	28800	33270	127	1
	115	53.8	24210	28070	121	1
	120	48.5	20590	23980	112	1
	125	42.8	17650	20680	102	1
	130	36.2	15230	17950	90	1
	135	28.5	13170	15660	74	1
	140	17.7	11400	13680	50	1
150 ft.	96	82.8	134280	159340	157	5
	97	81.3	109750	128910	156	4
	98	79.4	88790	103460	155	3
	99	77.4	74090	85910	154	3
	100	73.5	54830	63280	152	2
	105	69.5	42770	49310	148	2
	110	65.3	34500	39820	144	2
	115	61.0	28470	32950	139	1
	120	56.6	23880	27740	133	1
	125	51.8	20260	23680	125	1
	130	46.8	17330	20360	117	1
	135	41.2	14900	17640	106	1
	140	35.0	12860	15350	93	1
	145	27.5	11110	13400	76	1
150	17.1	9580	11690	51	1	
160 ft.	97	82.9	127030	150360	167	5
	98	81.8	109510	128700	166	4
	99	80.0	88520	103220	165	3
	100	78.2	73810	85650	164	3
	105	74.5	54530	62990	162	2
	110	70.8	42460	49010	159	2
	115	67.0	34180	39510	155	2
	120	63.0	28150	32640	150	1
	125	58.9	23550	27430	145	1
	130	54.6	19930	23340	138	1
	135	50.1	17000	20040	130	1
	140	45.2	14580	17320	121	1
	145	39.8	12540	15040	110	1
	150	33.8	10800	13090	96	1
155	26.6	9290	11400	79	1	
160	16.5	7950	9910	53	1	
170 ft.	98	83.0	120460	142260	176	4
	99	82.3	109310	128520	176	4
	100	80.6	88300	103010	175	3
	105	78.9	73570	85420	175	3
	110	75.5	54270	62750	172	2
	115	72.0	42190	48750	169	2
	120	68.4	33900	39240	166	2
	125	64.7	27870	32360	161	1
	130	60.9	23270	27150	156	1
	135	57.0	19650	23060	150	1
	140	52.8	16720	19760	143	1
	145	49.5	14300	17050	135	1
	150	43.9	12270	14770	125	1
	155	38.3	10530	12820	113	1
160	32.8	9020	11140	99	1	
165	25.7	7700	9670	81	1	
170	16.0	6520	8360	54	1	

Boom Length (Meter)	Radius in Meter	Boom Angle Degrees	Side Frames Retracted	Side Frames Extended	M From Boom Point	Min. Load Line
36.6 meters cont.	21.3	58.5	16070	18470	33.5	2
	24.4	52.7	13340	15360	31.4	1
	27.4	46.4	11250	13000	28.7	1
	30.5	39.3	9610	11140	25.3	1
	33.5	30.9	8270	9640	21.0	1
	36.6	19.2	7160	8390	14.3	1
39.8 meters	7.3	82.6	68560	81860	41.8	5
	7.6	82.2	64620	76870	41.8	5
	9.1	79.9	50000	58660	41.5	4
	10.7	77.7	40510	47140	41.1	3
	12.2	75.4	33860	39200	40.8	3
	15.2	70.8	25140	28960	39.9	2
	18.3	66.1	19680	22630	38.7	2
	21.3	61.2	15930	18340	37.2	2
	24.4	56.0	13200	15230	35.1	1
	27.4	50.5	11120	12860	32.9	1
	30.5	44.5	9480	11010	30.2	1
	33.5	37.7	8140	9510	26.5	1
36.6	29.6	7040	8270	21.6	1	
39.8	18.4	6100	7220	14.6	1	
42.7 meters	7.6	82.7	64540	76800	44.8	5
	9.1	80.7	49900	58570	44.5	4
	10.7	78.6	40400	47040	44.2	3
	12.2	76.5	33740	39090	43.9	3
	15.2	72.3	25010	28840	43.0	2
	18.3	67.9	19550	22510	41.8	2
	21.3	63.4	15790	18210	40.5	2
	24.4	58.7	13060	15090	38.7	1
	27.4	53.8	10980	12730	36.9	1
	30.5	48.5	9340	10880	34.1	1
	33.5	42.8	8010	9380	31.1	1
	36.6	36.2	6910	8140	27.4	1
	39.8	28.5	5970	7100	22.6	1
	42.7	17.7	5170	6210	15.2	1
45.7 meters	7.9	82.8	60910	72280	47.9	5
	9.1	81.3	49780	58470	47.5	4
	10.7	79.4	40280	46930	47.2	3
	12.2	77.4	33610	38970	46.9	3
	15.2	73.5	24870	28700	46.3	2
	18.3	69.5	19400	22370	45.1	2
	21.3	65.3	15650	18060	43.9	2
	24.4	61.0	12910	14950	42.4	1
	27.4	56.6	10830	12580	40.5	1
	30.5	51.8	9190	10730	38.1	1
	33.5	46.8	7860	9240	35.7	1
	36.6	41.2	6760	8000	32.3	1
	39.8	35.0	5830	6960	28.3	1
	42.7	27.5	5040	6080	23.2	1
45.7	17.1	4350	5300	15.5	1	
48.8 meters	8.2	82.9	57620	68200	50.9	5
	9.1	81.8	49670	58380	50.6	4
	10.7	80.0	40150	46820	50.3	3
	12.2	78.2	33480	38850	50.0	3
	15.2	74.5	24730	28570	49.4	2
	18.3	70.8	19260	22230	48.5	2
	21.3	67.0	15500	17920	47.2	2
	24.4	63.0	12770	14810	45.7	1
	27.4	58.9	10680	12440	44.2	1
	30.5	54.6	9040	10590	42.1	1
	33.5	50.1	7710	9090	39.6	1
	36.6	45.2	6610	7860	36.9	1
	39.8	39.8	5690	6820	33.5	1
	42.7	33.8	4900	5940	29.3	1
45.7	26.6	4210	5170	24.1	1	
48.8	16.5	3610	4500	16.2	1	
51.8 meters	8.5	83.0	54640	64530	53.6	4
	9.1	82.3	49580	58300	53.6	4
	10.7	80.6	40050	46730	53.3	3
	12.2	78.9	33370	38750	53.3	3
	15.2	75.5	24620	28460	52.4	2
	18.3	72.0	19140	22110	51.5	2
	21.3	68.4	15380	17800	50.6	2
	24.4	64.7	12640	14680	49.1	1
	27.4	60.9	10560	12320	47.5	1
	30.5	57.0	8910	10460	45.7	1
	33.5	52.8	7560	8960	43.6	1
	36.6	48.5	6490	7730	41.1	1
	39.8	43.8	5570	6700	38.1	1
	42.7	38.6	4780	5820	34.4	1
45.7	32.8	4090	5050	30.2	1	
48.8	25.7	3490	4390	24.7	1	
51.8	16.0	2960	3790	16.5	1	