



900 SERIES

MODEL 9299

CRAWLER CRANE

WITH 77S BOOM

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

METRIC

	Boom Length Feet	Boom Angle Degrees	Side Frames Retracted	Side Frames Extended	Ft. From Boom Point	Min. Load Line
70	15	82.8	—	33000	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
80	70	25.6	36640	41670	37	2
	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
90	60	48.8	44570	51020	68	2
	70	38.2	36310	41560	57	2
	80	23.8	30240	34660	39	1
	19	82.5	—	264800	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
100	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
	21	82.7	—	242570	107	7
	25	79.8	—	169780	106	5
110	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
120	100	21.2	21590	24950	43	1
	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
130	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
	22	82.9	—	207210	127	6
	25	81.5	142660	169600	126	5
	30	79.1	110450	129500	126	4
140	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
	5.2	83.0	—	—	141650	26.5	9
24.4 meters	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
	5.8	82.5	—	—	120160	29.6	8
27.4 meters	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
33.5 meters	30.5	21.2	—	9790	11320	13.1	1
	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
36.6 meters	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
	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
38.7 meters	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)

FORM NO. 9299-CP 2

**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.	70	82.6	151140	180460	137	5
	80	82.2	142470	169460	137	5
	90	75.9	110230	129310	136	4
	100	77.7	89310	103930	135	3
	110	75.4	74640	86420	134	3
	120	70.8	55430	63840	131	2
	130	66.1	43380	49900	127	2
	140	61.2	35130	40430	122	2
	150	56.0	29100	33570	115	1
	160	50.5	24510	28360	108	1
	170	44.5	20890	24270	99	1
	180	37.7	17950	20970	87	1
	190	29.6	15510	18230	71	1
	200	18.4	13440	15920	48	1
140 ft.	70	82.7	142280	169310	147	5
	80	80.7	110000	129120	146	4
	90	78.6	89060	103700	145	3
	100	76.5	74380	86180	144	3
	110	72.3	55140	63570	141	2
	120	67.9	43090	49620	137	2
	130	63.4	34820	40140	133	2
	140	58.7	28800	33270	127	1
	150	53.8	24210	28070	121	1
	160	48.5	20590	23980	112	1
	170	42.8	17650	20680	102	1
	180	36.2	15230	17950	90	1
	190	28.5	13170	15660	74	1
	200	17.7	11400	13680	50	1
150 ft.	70	82.8	134280	159340	157	5
	80	81.3	109750	128910	156	4
	90	79.4	88790	103460	155	3
	100	77.4	74090	85910	154	3
	110	73.5	54830	63280	152	2
	120	69.5	42770	49310	148	2
	130	65.3	34500	39820	144	2
	140	61.0	28470	32950	139	1
	150	56.6	23880	27740	133	1
	160	51.8	20260	23680	125	1
	170	46.8	17330	20360	117	1
	180	41.2	14900	17640	106	1
	190	35.0	12860	15350	93	1
	200	27.5	11110	13400	76	1
160 ft.	70	82.9	127030	150380	167	5
	80	81.8	109510	128700	166	4
	90	80.0	88520	103220	165	3
	100	78.2	73810	85650	164	3
	110	74.5	54530	62990	162	2
	120	70.8	42460	49010	159	2
	130	67.0	34180	39510	155	2
	140	63.0	28150	32640	150	1
	150	58.9	23550	27430	145	1
	160	54.6	19830	23340	138	1
	170	50.1	17000	20040	130	1
	180	45.2	14580	17320	121	1
	190	39.8	12540	15040	110	1
	200	33.8	10800	13090	96	1
170 ft.	70	83.0	120450	142260	176	4
	80	82.3	109310	128520	176	4
	90	80.6	88300	103010	175	3
	100	78.9	73570	85420	175	3
	110	75.5	54270	62750	172	2
	120	72.0	42190	48750	169	2
	130	68.4	33900	39240	166	2
	140	64.7	27870	32360	161	1
	150	60.9	23270	27150	156	1
	160	57.0	19650	23060	150	1
	170	52.8	16720	19760	143	1
	180	48.5	14300	17050	135	1
	190	43.9	12270	14770	125	1
	200	38.3	10530	12820	113	1
180 ft.	70	83.0	109310	128520	176	4
	80	82.3	109310	128520	176	4
	90	80.6	88300	103010	175	3
	100	78.9	73570	85420	175	3
	110	75.5	54270	62750	172	2
	120	72.0	42190	48750	169	2
190 ft.	70	83.0	109310	128520	176	4
	80	82.3	109310	128520	176	4
	90	80.6	88300	103010	175	3
	100	78.9	73570	85420	175	3
	110	75.5	54270	62750	172	2
	120	72.0	42190	48750	169	2
200 ft.	70	83.0	109310	128520	176	4
	80	82.3	109310	128520	176	4
	90	80.6	88300	103010	175	3
	100	78.9	73570	85420	175	3
	110	75.5	54270	62750	172	2
	120	72.0	42190	48750	169	2

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
39.5 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
	39.6	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
	39.6	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	12810	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
	39.6	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
	39.6	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
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	7580	8960	43.6	1
	36.6	48.5	6490	7730	41.1	1
	39.6	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