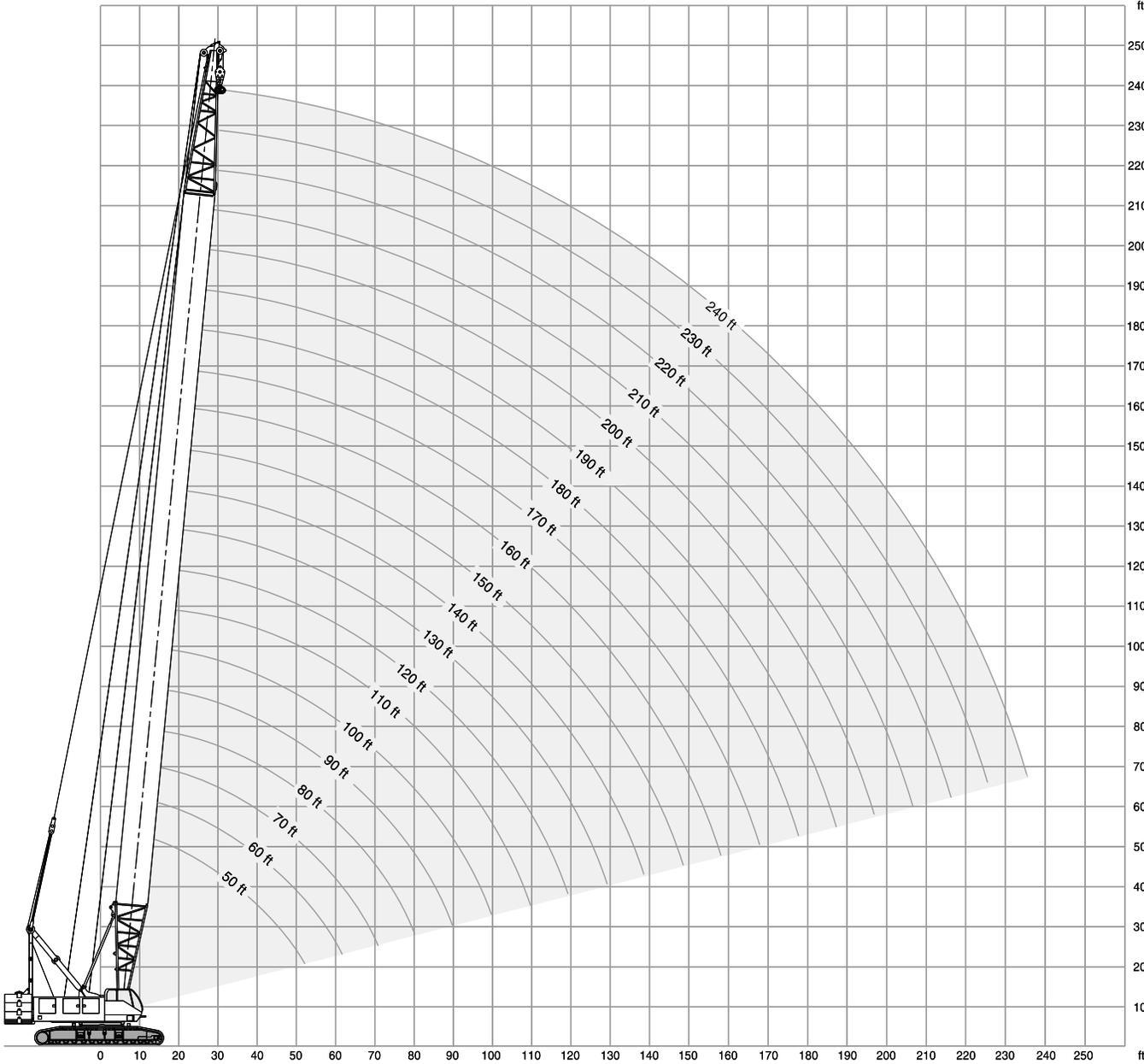


# RANGE DIAGRAM

HC 165

## 77SI Hammerhead Tip Boom



# LOAD CHART

# HC 165

## With 77SI Hammerhead Tip Boom and 102,000 Pound Upper Counterweight

102,000 lb				360°				ANSI B 30.5			
50' Boom length				100' Boom length							
Radius (Feet)	Boom Angle (Degrees)	360 Degree Rating (Pounds)	From Boom Pt. to Ground (Feet)	Radius (Feet)	Boom Angle (Degrees)	360 Degree Rating (Pounds)	From Boom Pt. to Ground (Feet)				
14	81.9	330,000*	58	20	82.5	271,420	107				
15	80.8	330,000*	57	25	79.6	184,070	106				
20	75.0	270,720	56	30	76.7	138,240	105				
25	68.9	183,870	55	35	73.8	110,090	104				
30	62.7	138,290	52	40	70.8	90,860	102				
35	55.9	110,230	49	50	64.6	66,650	98				
40	48.5	91,140	45	60	58.0	51,790	93				
50	29.5	66,900	32	70	50.9	41,780	85				
				80	43.0	34,740	76				
				90	33.5	29,290	63				
				100	20.3	25,000	42				
60' Boom length				110' Boom length							
Radius (Feet)	Boom Angle (Degrees)	360 Degree Rating (Pounds)	From Boom Pt. to Ground (Feet)	Radius (Feet)	Boom Angle (Degrees)	360 Degree Rating (Pounds)	From Boom Pt. to Ground (Feet)				
15	82.3	330,000*	68	21	82.7	247,920	117				
20	77.5	271,110	67	25	80.6	183,920	117				
25	72.6	184,120	65	30	77.9	138,050	116				
30	67.5	138,460	63	35	75.3	109,880	114				
35	62.2	110,390	61	40	72.6	90,620	113				
40	56.6	91,250	58	50	67.0	66,400	109				
50	44.0	67,040	49	60	61.2	51,520	104				
60	26.7	52,190	35	70	55.0	41,510	98				
				80	48.3	34,500	90				
				90	40.8	29,050	80				
				100	31.8	24,780	66				
				110	19.3	21,340	44				
70' Boom length				120' Boom length							
Radius (Feet)	Boom Angle (Degrees)	360 Degree Rating (Pounds)	From Boom Pt. to Ground (Feet)	Radius (Feet)	Boom Angle (Degrees)	360 Degree Rating (Pounds)	From Boom Pt. to Ground (Feet)				
16	82.6	330,000*	78	22	82.8	228,210	127				
20	79.3	271,310	77	25	81.4	183,750	127				
25	75.1	184,230	76	30	78.9	137,830	126				
30	70.8	138,520	74	35	76.5	109,650	125				
35	66.5	110,420	72	40	74.1	90,370	123				
40	61.9	91,260	70	50	69.0	66,150	120				
50	52.0	67,060	63	60	63.8	51,250	116				
60	40.5	52,210	53	70	58.3	41,230	110				
70	24.6	42,200	37	80	52.5	34,250	103				
				90	46.2	28,800	94				
				100	39.0	24,530	83				
				110	30.4	21,110	68				
				120	18.4	18,270	45				
80' Boom length				130' Boom length							
Radius (Feet)	Boom Angle (Degrees)	360 Degree Rating (Pounds)	From Boom Pt. to Ground (Feet)	Radius (Feet)	Boom Angle (Degrees)	360 Degree Rating (Pounds)	From Boom Pt. to Ground (Feet)				
17	82.8	330,000*	87	23	82.9	211,000	137				
20	80.6	271,390	87	25	82.0	183,560	137				
25	77.0	184,210	86	30	79.8	137,600	136				
30	73.3	138,450	85	35	77.6	109,400	135				
35	69.6	110,320	83	40	75.3	90,090	134				
40	65.7	91,140	81	50	70.7	65,860	131				
50	57.5	66,930	75	60	66.0	50,950	127				
60	48.4	52,090	68	70	61.0	40,910	122				
70	37.7	42,090	57	80	55.8	33,950	115				
80	22.9	34,950	39	90	50.3	28,500	108				
				100	44.2	24,240	98				
				110	37.4	20,820	87				
				120	29.2	17,990	71				
				130	17.6	15,630	47				
90' Boom length											
Radius (Feet)	Boom Angle (Degrees)	360 Degree Rating (Pounds)	From Boom Pt. to Ground (Feet)								
18	82.9	330,000*	97								
20	81.7	271,410	97								
25	78.5	184,130	96								
30	75.2	138,330	95								
35	71.9	110,190	94								
40	68.5	90,980	92								
50	61.5	66,770	87								
60	53.9	51,910	81								
70	45.4	41,920	72								
80	35.4	34,840	60								
90	21.5	29,360	40								