



HC 110-1

**110 USL lifting capacity
Crawler crane
Datasheet
imperial**

HC 110-1



WORKS FOR YOU.™



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KEY

HC 110-1



Counterweight



Track



Central ballast



Main boom



Fly jib



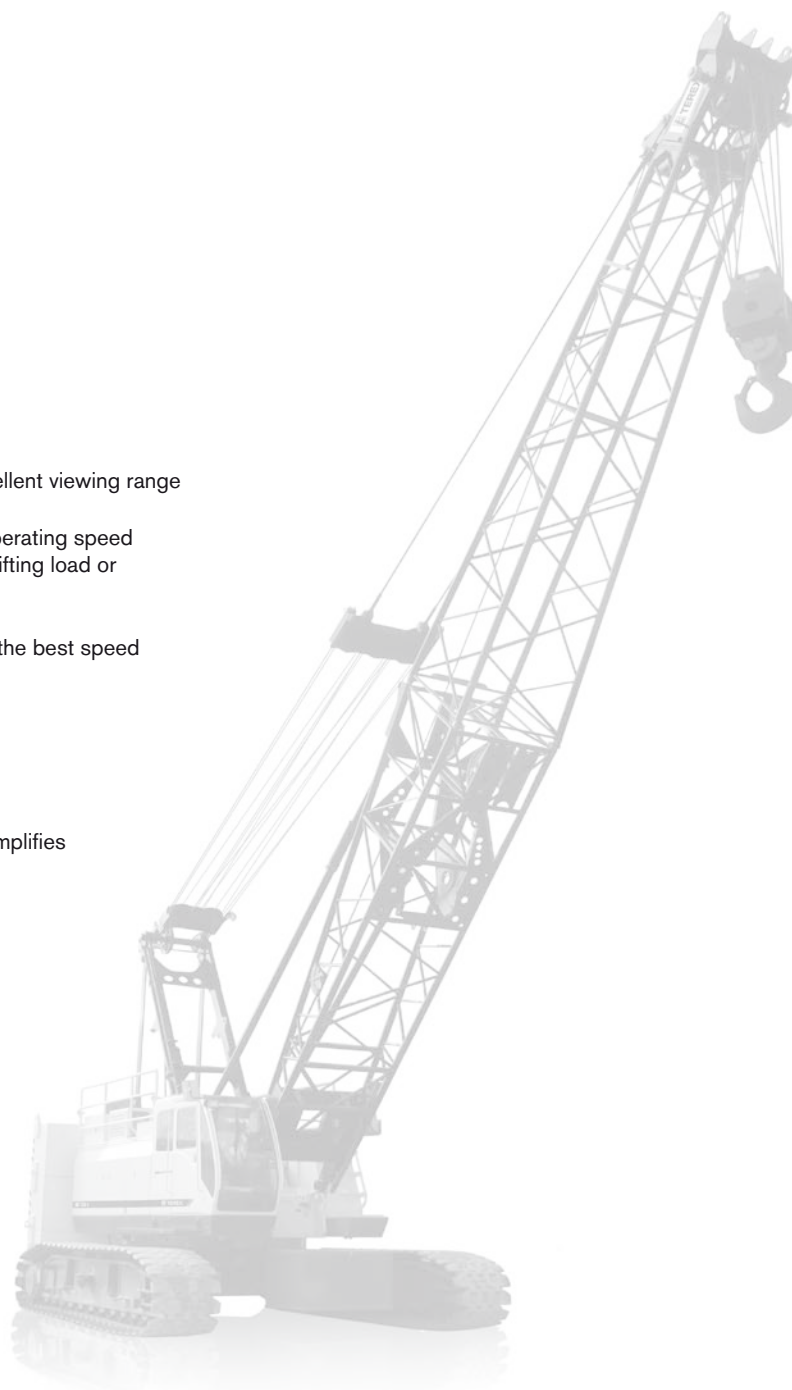
Wind speed in ft/s (feet per second)



HIGHLIGHTS

HC 110-1

- ▶ 110 US ton maximum lifting capacity
- ▶ Power up/down standard
- ▶ Free fall on main and auxiliary drums
- ▶ Quiet, comfortable operator's cab with excellent viewing range
- ▶ Shockless stop system gradually retards operating speed to reduce shocks when crane approaches lifting load or boom limits
- ▶ Two speed travel allows operator to select the best speed and power control for any condition
- ▶ Superior transportability:
 - 12 ft width
 - 10 ft - 9 in ft height
- ▶ Hydraulic counterweight removal system simplifies installation and removal





SPECIFICATIONS

HC 110-1

Working speeds (infinitely variable)

Mechanism	Rope \varnothing	Speeds ¹⁾	Single line pull ²⁾	Length of hoist rope
Main hoist	26 mm	max. 566 ft/min	42,108 lb	1148 ft
Auxiliary hoist	26 mm	max. 566 ft/min	42,108 lb	1148 ft
Boom hoist	20 mm	max. 356 ft/min	15,600 lb	590 ft
Slewing (rpm)		2.4		

1) top layer

2) bottom layer

– Above figures based on engine rated output at 2,000 rpm.

– Line speed will change subject to load.

Carrier performance

Ground speed	0.93 mph (1.5 km/h)
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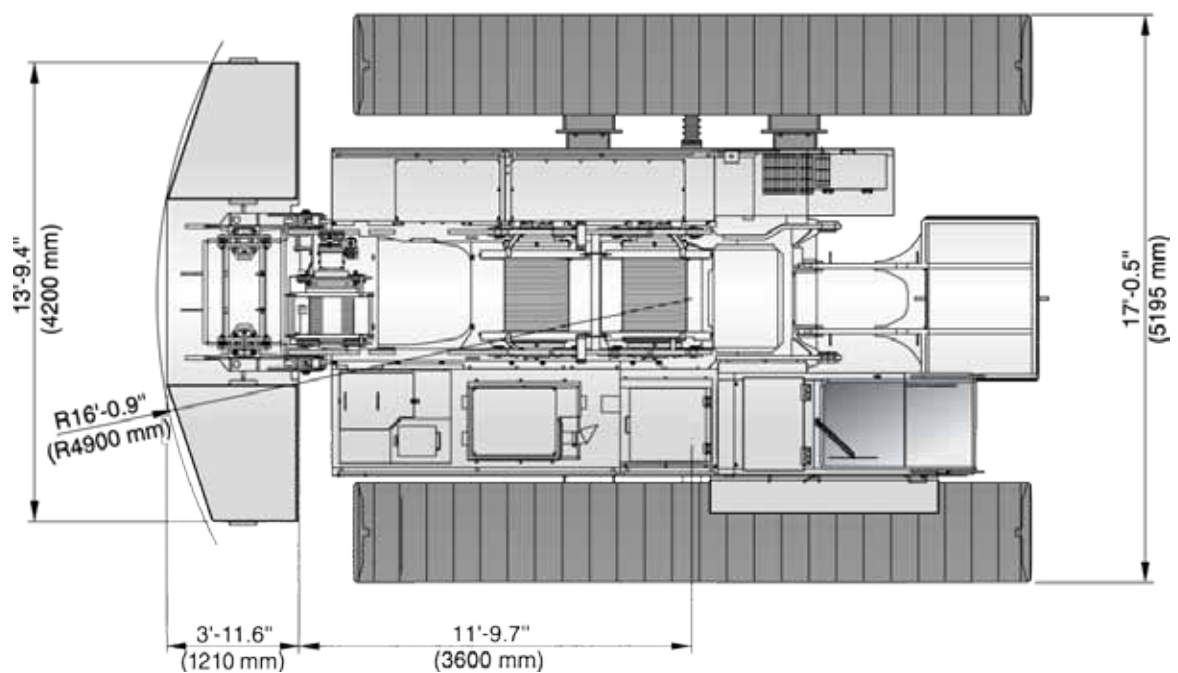
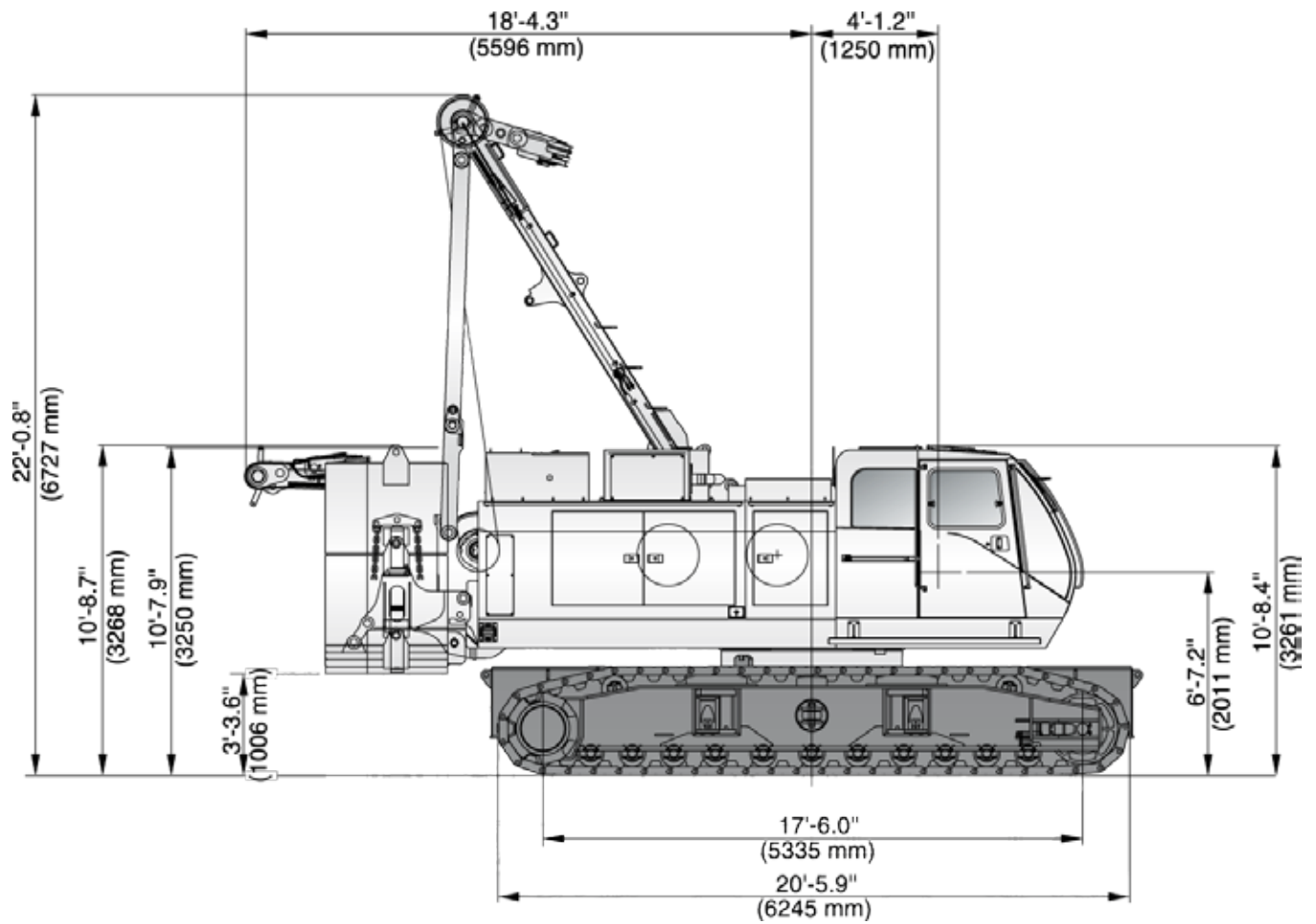
Hook block

Type	Possible load	Number of sheaves	Number of lines	Weight	Hook version
120	240,000 lb	4	8	3,200 lb	single
110	220,000 lb	4	8	3,200 lb	single
75	150,000 lb	3	5	1,500 lb	single
50	100,000 lb	2	4	935 lb	single
25	50,000 lb	1	2	435 lb	single
15	30,000 lb	0	1	755 lb	single



DIMENSIONS

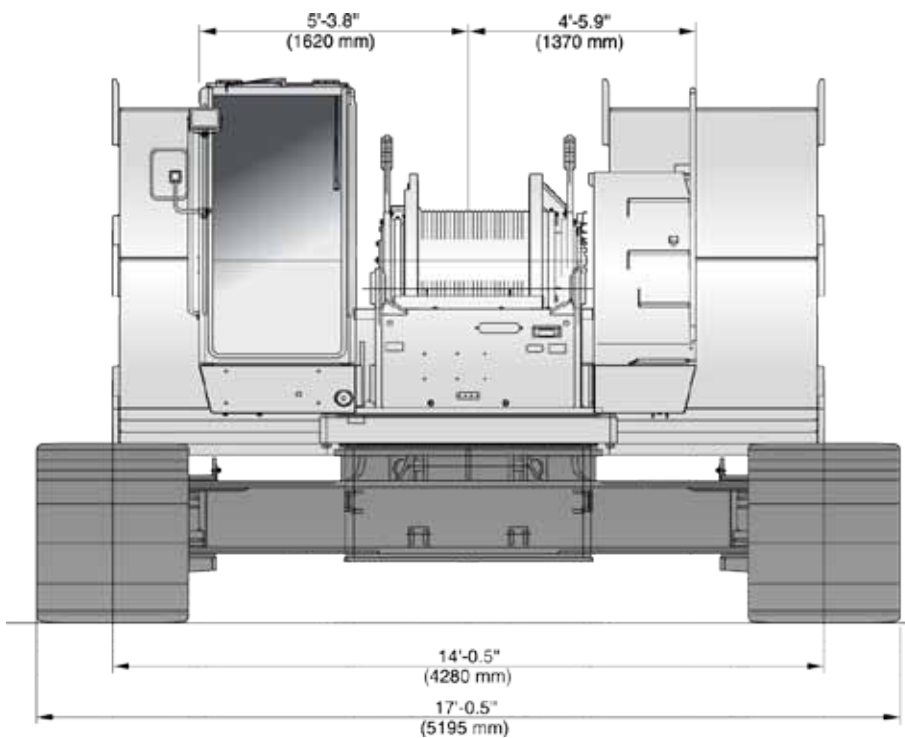
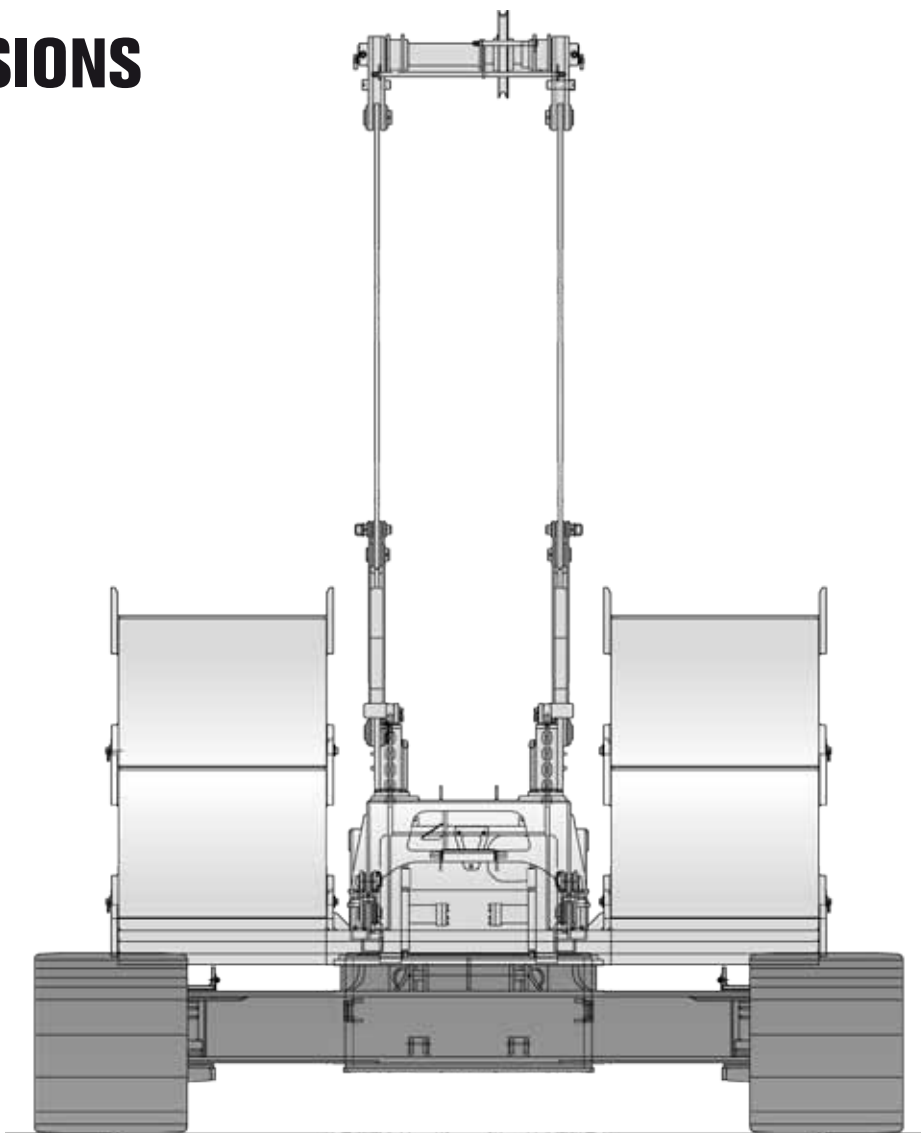
HC 110-1





DIMENSIONS

HC 110-1

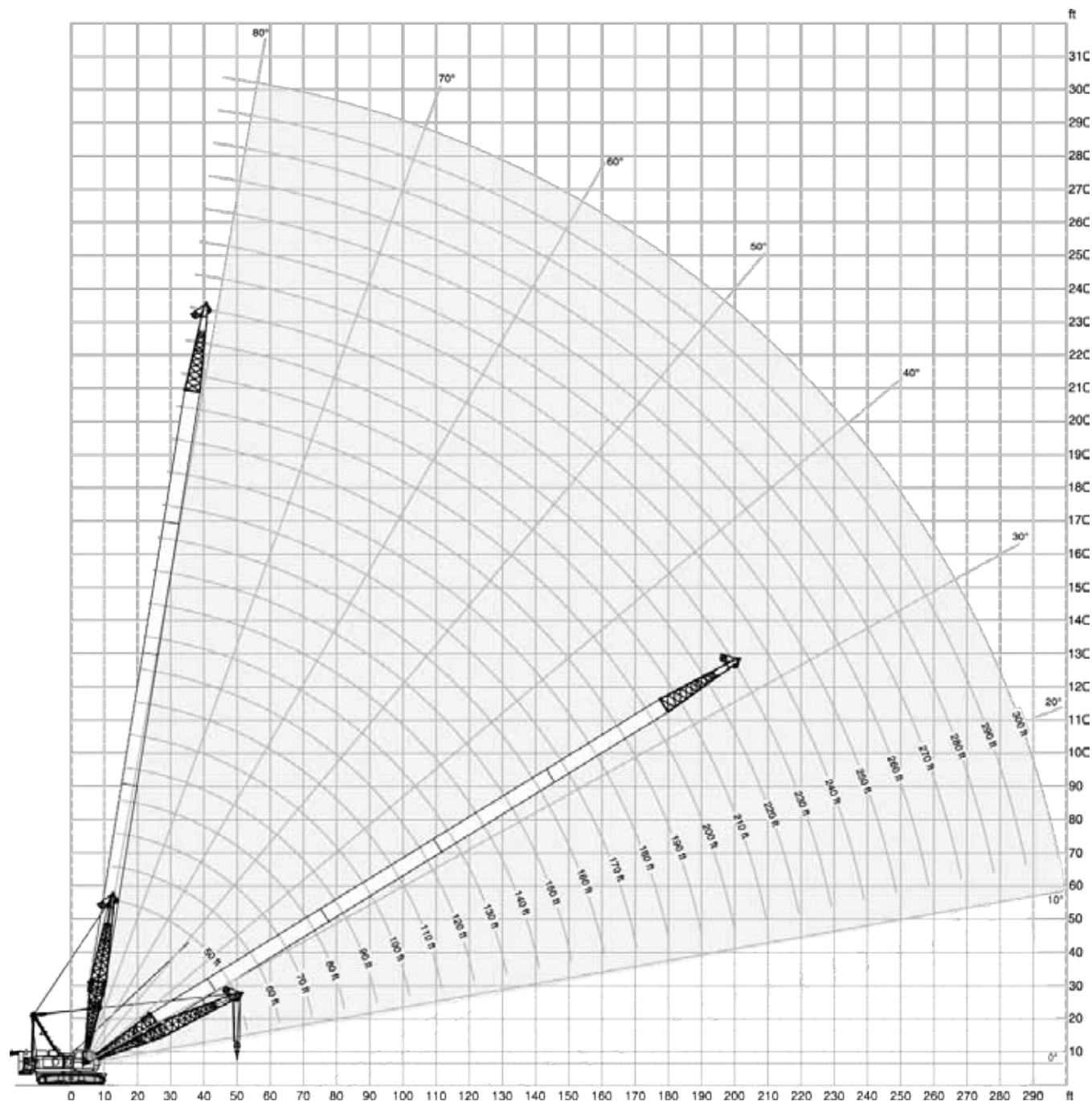




RANGE DIAGRAM

HC 110-1

59HI Offset Tip Boom












LOAD CHART

HC 110-1

with 59HI Offset Tip Boom

70,875 lb +  30,865 lb		 14 ft		 44.0 / 29.3 ft/s**		360°		ANSI B 30.5		
 50.0 ft	60.0 ft	70.0 ft	80.0 ft	90.0 ft	100.0 ft	110.0 ft	120.0 ft	130.0 ft	140.0 ft	
ft	lb	lb	lb	lb	lb	lb	lb	lb	lb	ft
13	220000*	-	-	-	-	-	-	-	-	13
14	220000*	-	-	-	-	-	-	-	-	14
15	207240*	207070*	-	-	-	-	-	-	-	15
16	189920	189740	189580	-	-	-	-	-	-	16
17	170130	169950	169790	-	-	-	-	-	-	17
18	153940	153740	153570	153360	-	-	-	-	-	18
19	140610	140420	140260	140050	139900	-	-	-	-	19
20	129290	129090	128920	128710	128540	-	-	-	-	20
21	119620	119410	119240	119010	118830	118610	-	-	-	21
22	111370	111170	111000	110790	110630	110420	110220	-	-	22
25	91960	91740	91560	91320	91150	90920	90710	90470	-	25
30	71080	70870	70690	70460	70290	70060	69840	69610	69410	30
35	57760	57560	57380	57170	57010	56790	56590	56360	56170	35
40	48460	48250	48070	47840	47670	47440	47220	46990	46790	40
45	41630	41400	41220	40980	40800	40560	40350	40100	39910	45
50	36400	36160	35980	35720	35550	35300	35090	34830	34630	50
55	-	32030	31830	31580	31400	31150	30930	30670	30470	55
60	-	28740	28560	28340	28180	27950	27740	27520	27330	60
65	-	-	25790	25550	25390	25160	24960	24720	24530	65
70	-	-	23450	23220	23050	22820	22620	22370	22190	70
75	-	-	-	21230	21060	20820	20610	20380	20180	75
80	-	-	-	19520	19350	19100	18890	18660	18460	80
85	-	-	-	-	17860	17610	17390	17160	16960	85
90	-	-	-	-	16540	16300	16080	15840	15640	90
95	-	-	-	-	-	15140	14920	14670	14470	95
100	-	-	-	-	-	14110	13880	13630	13430	100
105	-	-	-	-	-	-	12960	12690	12490	105
110	-	-	-	-	-	-	12130	11860	11650	110
115	-	-	-	-	-	-	-	11100	10900	115
120	-	-	-	-	-	-	-	10430	10210	120
125	-	-	-	-	-	-	-	-	9580	125
130	-	-	-	-	-	-	-	-	9010	130
135	-	-	-	-	-	-	-	-	-	135
140	-	-	-	-	-	-	-	-	-	140
145	-	-	-	-	-	-	-	-	-	145

Asterisk (*) areas on this chart indicate ratings that are limited by strength of material or factors other than stability (tipping)







**  44.0 ft/s (boom < 220 ft)
 29.3 ft/s (boom > 220 ft)




LOAD CHART

HC 110-1

with 59HI Offset Tip Boom

		70,875 lb +  30,865 lb		 14 ft		 44.0/29.3 ft/s**		360°		ANSI B 30.5											
																					
		150.0 ft		160.0 ft		170.0 ft		180.0 ft		190.0 ft		200.0 ft		210.0 ft		220.0 ft		230.0 ft			
ft		lb		lb		lb		lb		lb		lb		lb		lb		lb		ft	
30		68950		68720		-		-		-		-		-		-		-		-	30
35		55730		55510		55310		55080		52520*		-		-		-		-		-	35
40		46340		46100		45900		45670		45450		45210		41230*		36480*		-		-	40
45		39440		39200		38990		38740		38510		38280		38050		35010*		31150*		-	45
50		34160		33900		33690		33450		33210		32960		32740		32500		29790*		-	50
55		29980		29720		29510		29250		29020		28770		28960		28730		27420*		-	55
60		26880		26650		26440		26210		26000		25760		25560		25320		25100		-	60
65		24080		23840		23640		23410		23180		22950		22740		22510		22290		-	65
70		21730		21490		21280		21050		20830		20590		20370		20140		19910		-	70
75		19720		19480		19280		19030		18810		18570		18360		18120		17890		-	75
80		17990		17760		17540		17300		17080		16830		16620		16380		16160		-	80
85		16490		16240		16040		15790		15560		15320		15100		14860		14630		-	85
90		15160		14920		14710		14470		14240		13990		13780		13540		13300		-	90
95		13990		13740		13540		13300		13060		12820		12590		12350		12120		-	95
100		12950		12700		12490		12240		12010		11760		11550		11300		11060		-	100
105		12020		11760		11550		11310		11070		10820		10600		10360		10120		-	105
110		11170		10920		10700		10460		10220		9980		9750		9510		9270		-	110
115		10410		10150		9940		9680		9460		9200		8980		8730		8500		-	115
120		9710		9460		9240		8990		8760		8500		8280		8030		7790		-	120
125		9070		8820		8600		8350		8110		7860		7640		7390		7150		-	125
130		8500		8230		8020		7760		7520		7270		7050		6800		6560		-	130
135		7970		7710		7480		7220		6990		6730		6510		6260		6010		-	135
140		7480		7210		6990		6730		6490		6230		6010		5760		5510		-	140
145		7020		6750		6530		6270		6030		5770		5540		5300		5050		-	145
150		6620		6330		6110		5850		5610		5340		5110		4870		4620		-	150
155		-		5950		5720		5450		5210		4950		4710		4460		4220		-	155
160		-		5400		5350		5080		4830		4580		4350		4090		3850		-	160
165		-		-		5020		4740		4490		4230		4000		3740		3500		-	165
170		-		-		4380		4420		4180		3910		3670		3420		3170		-	170
175		-		-		-		4070		3880		3600		3360		3110		2860		-	175
180		-		-		-		3330		3600		3320		3080		2820		2570		-	180
185		-		-		-		-		3080		3060		2820		2560		2300		-	185
190		-		-		-		-		2420		2650		2570		2300		2050		-	190
195		-		-		-		-		-		2100		2290		2060		1810		-	195
200		-		-		-		-		-		1500		1800		1780		1590		-	200

Asterisk (*) areas on this chart indicate ratings that are limited by strength of material or factors other than stability (tipping)

**  44.0 ft/s (boom < 220 ft)
 29.3 ft/s (boom > 220 ft)



NOTES TO LIFTING CAPACITY

HC 110-1

Main Boom Chart Information

59HI Offset Tip Boom

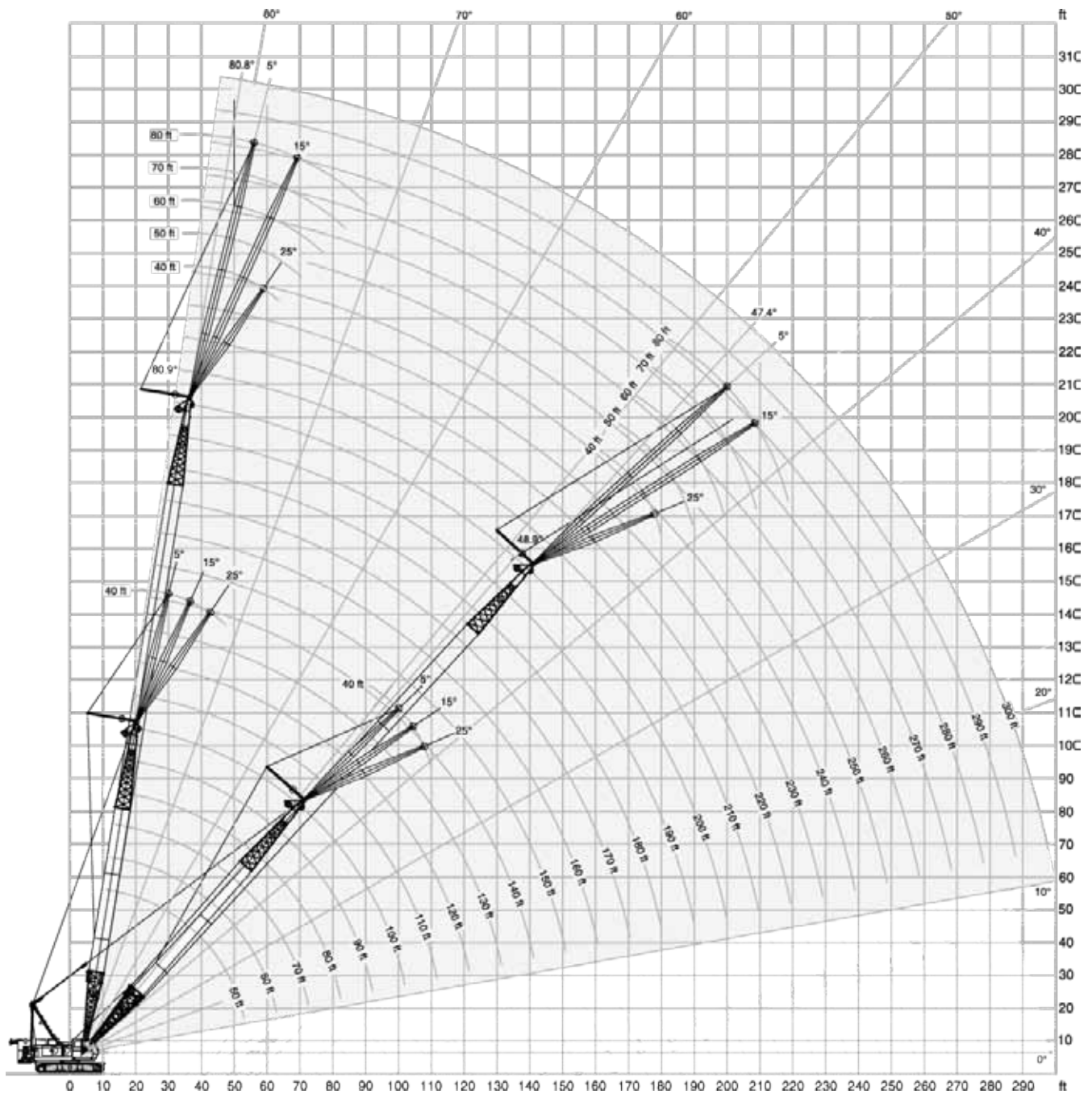
Boom length (ft)	25' 59HI Inner	10' 59H Center	20' 59H Center	40' 59H Center	25' 59HI Outer
50	1	0	0	0	1
60	1	1	0	0	1
70	1	0	1	0	1
80	1	1	1	0	1
90	1	0	0	1	1
100	1	1	0	1	1
110	1	0	1	1	1
120	1	1	1	1	1
130	1	0	0	2	1
140	1	1	0	2	1
150	1	0	1	2	1
160	1	1	1	2	1
170	1	0	0	3	1
180	1	1	0	3	1
190	1	0	1	3	1
200	1	1	1	3	1
210	1	0	0	4	1
220	1	1	0	4	1
230	1	0	1	4	1



RANGE DIAGRAM

HC 110-1

59HI Offset Tip Boom + 9HL Jib





LOAD CHART

HC 110-1

with 59HI Offset Tip Boom + 9HL Jib


70,875 lb +  30,865 lb
360°
ANSI B 30.5

40' Jib length															
		100 ft			110 ft			120 ft			130 ft				
		5°	15°	25°	5°	15°	25°	5°	15°	25°	5°	15°	25°		
ft	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	ft	
29	-	-	-	-	-	-	-	-	-	-	-	-	-	29	
30	22540*	-	-	-	-	-	-	-	-	-	-	-	-	30	
35	22540*	-	-	-	22530*	-	-	22520*	-	-	22500*	-	-	35	
40	22470*	21300*	-	22530*	21400*	-	22520*	21510*	-	22500*	-	-	-	40	
50	21770*	20740*	19890*	21940*	20840*	19910*	22090*	20960*	20030*	22280*	21000*	20040*	50		
60	21160*	20220*	19480*	21380*	20350*	19520*	21490*	20460*	19620*	21690*	20570*	19730*	60		
70	20570*	19790*	18420*	20820*	19950*	18970*	21020*	20030*	19280*	21210*	20210*	19380*	70		
80	19560	19420*	17090*	19310	19310	17610*	19050	19050	18070*	18810	18810	18530*	80		
90	16740	16740	15930*	16480	16480	16440*	16210	16220	16220	15990	15990	15990	90		
100	14520	14520	14530	14270	14270	14280	14000	14010	14010	13770	13770	13770	100		
110	-	-	-	12480	12490	12490	12220	12220	12220	11990	11990	11990	110		
120	-	-	-	-	-	-	10760	10760	10760	10520	10520	10520	120		
130	-	-	-	-	-	-	-	-	-	9290	9300	9300	130		

40' Jib length															
		140 ft			150 ft			160 ft			170 ft				
		5°	15°	25°	5°	15°	25°	5°	15°	25°	5°	15°	25°		
ft	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	ft	
40	22490*	-	-	22470*	-	-	22460*	-	-	-	-	-	-	40	
50	22380*	21090*	20100*	22470*	21230*	-	22460*	21270*	-	22450*	21320*	-	-	50	
60	21860*	20670*	19720*	21980*	20770*	19850*	22100*	20870*	19890*	22240*	20900*	19940*	60		
70	21350*	20280*	19460*	21470*	20400*	19490*	21610*	20470*	19560*	21560*	20540*	19670*	70		
80	18550	18560	18560	18310	18310	18310	18050	18060	18060	17830	17830	17830	80		
90	15720	15720	15730	15480	15480	15480	15220	15220	15220	14990	15000	15000	90		
100	13510	13510	13510	13260	13270	13270	13000	13000	13000	12770	12770	12780	100		
110	11720	11720	11720	11470	11470	11480	11220	11220	11220	10980	10980	10980	110		
120	10250	10250	10260	10000	10000	10010	9740	9750	9750	9510	9510	9510	120		
130	9030	9040	9040	8780	8790	8790	8520	8520	8520	8280	8280	8280	130		
140	8000	8000	8000	7740	7740	7740	7480	7480	7480	7240	7240	7240	140		
150	-	-	-	6850	6850	6860	6580	6580	6580	6350	6350	6360	150		
160	-	-	-	-	-	-	5810	5810	5810	5580	5580	5580	160		
170	-	-	-	-	-	-	-	-	-	4900	4900	4910	170		
180	-	-	-	-	-	-	-	-	-	-	-	-	180		

40' Jib length															
		180 ft			190 ft			200 ft			210 ft				
		5°	15°	25°	5°	15°	25°	5°	15°	25°	5°	15°	25°		
ft	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	ft	
50	22430*	21380*	-	21560*	-	-	18760*	-	-	16270*	-	-	-	50	
60	22350*	20950*	19900*	20450*	19210*	17880*	17610*	16680*	15600*	15220*	14450*	13550*	60		
70	21320	20600*	19670*	19300*	18400*	17330*	16560*	15840*	15040*	14220*	13630*	12990*	70		
80	17570	17580	17580	17330	17330	16700*	15570*	14960*	14330*	13260*	12810*	12330*	80		
90	14740	14740	14740	14490	14500	14500	14240	14150*	13690*	12340*	12010*	11620*	90		
100	12520	12520	12520	12270	12270	12270	12010	12020	12020	11460*	11210*	10980*	100		
110	10720	10720	10730	10480	10480	10480	10220	10220	10230	9990	9990	9990	110		
120	9250	9250	9260	9000	9010	9010	8750	8750	8750	8510	8510	8520	120		
130	8020	8020	8030	7770	7770	7780	7520	7520	7520	7280	7280	7280	130		
140	6980	6980	6990	6730	6730	6740	6480	6480	6480	6240	6240	6240	140		
150	6080	6080	6090	5830	5840	5840	5580	5580	5580	5340	5340	5340	150		
160	5320	5320	5320	5070	5070	5070	4800	4800	4800	4560	4560	4560	160		
170	4630	4630	4640	4380	4380	4390	4120	4120	4130	3880	3880	3890	170		
180	4040	4040	4040	3790	3790	3790	3520	3530	3530	3280	3290	3290	180		
190	-	-	-	3260	3270	3270	2990	2990	3000	2750	2750	2750	190		
200	-	-	-	-	-	-	2520	2520	2530	2270	2280	2280	200		
210	-	-	-	-	-	-	-	-	-	1850	1860	1860	210		


Asterisk (*) areas on this chart indicate ratings that are limited by strength of material or factors other than stability (tipping)



LOAD CHART

HC 110-1

with 59HI Offset Tip Boom + 9HL Jib

70,875 lb +  30,865 lb		360°									ANSI B 30.5			
50' Jib length														
ft	130 ft			140 ft			150 ft			160 ft			ft	
	5°	15°	25°	5°	15°	25°	5°	15°	25°	5°	15°	25°		
lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	
37	20690*	-	-	-	-	-	-	-	-	-	-	-	-	37
40	20420*	-	-	20450*	-	-	20440*	-	-	-	-	-	-	40
50	19740*	17970*	-	19800*	17970*	-	19870*	18010*	-	19900*	17980*	-	-	50
60	19060*	17490*	16260*	19180*	17560*	16230*	19220*	17570*	16210*	19340*	17580*	16160*	-	60
70	18360*	17070*	15960*	18580*	17140*	15980*	18680*	17170*	15960*	18800*	17240*	15960*	-	70
80	17820*	16590*	15610*	17950*	16690*	15720*	18150*	16830*	15700*	18160*	16880*	15700*	-	80
90	16090	16090	14680*	15830	15830	15000*	15580	15580	15300*	15320	15330	15330	-	90
100	13870	13870	13800*	13610	13620	13620	13370	13370	13370	13100	13100	13110	-	100
110	12090	12090	12100	11820	11820	11830	11580	11580	11580	11320	11320	11320	-	110
120	10620	10620	10630	10360	10360	10370	10100	10110	10110	9850	9850	9850	-	120
130	9400	9410	9410	9130	9140	9140	8890	8890	8890	8620	8620	8620	-	130
140	-	-	-	8100	8100	8100	7840	7840	7840	7580	7580	7590	-	140
150	-	-	-	-	-	-	6950	6950	6960	6680	6680	6690	-	150
160	-	-	-	-	-	-	-	-	-	5910	5910	5910	-	160
170	-	-	-	-	-	-	-	-	-	-	-	-	-	170

50' Jib length														
ft	170 ft			180 ft			190 ft			200 ft			ft	
	5°	15°	25°	5°	15°	25°	5°	15°	25°	5°	15°	25°		
lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	
50	19900*	-	-	19860*	-	-	19700*	-	-	17950*	-	-	-	50
60	19360*	17590*	15930*	19330*	17550*	-	19290*	17450*	-	16920*	15650*	-	-	60
70	18800*	17260*	15930*	18820*	17200*	15890*	18520*	17140*	15750*	15940*	14930*	13850*	-	70
80	17930	16880*	15730*	17680	16930*	15650*	17430	16510*	15460*	14930*	14160*	13360*	-	80
90	15090	15090	15090	14840	14850	14850	14600	14600	14600	14020*	13460*	12760*	-	90
100	12870	12870	12870	12610	12610	12620	12360	12370	12370	12120	12120	12120	-	100
110	11080	11080	11090	10830	10830	10830	10580	10580	10590	10330	10330	10330	-	110
120	9610	9610	9620	9350	9360	9360	9110	9110	9110	8850	8850	8860	-	120
130	8380	8380	8390	8120	8130	8130	7880	7880	7880	7620	7620	7630	-	130
140	7340	7340	7350	7080	7080	7090	6840	6840	6840	6570	6570	6570	-	140
150	6440	6440	6450	6180	6190	6190	5940	5940	5940	5680	5680	5680	-	150
160	5680	5680	5680	5410	5410	5410	5160	5160	5160	4900	4900	4910	-	160
170	4990	4990	5000	4730	4730	4740	4480	4480	4490	4220	4220	4230	-	170
180	-	-	-	4140	4140	4140	3880	3890	3890	3610	3620	3620	-	180
190	-	-	-	-	-	-	3350	3350	3360	3090	3090	3100	-	190
200	-	-	-	-	-	-	-	-	-	2610	2620	2620	-	200
210	-	-	-	-	-	-	-	-	-	-	-	-	-	210


Asterisk (*) areas on this chart indicate ratings that are limited by strength of material or factors other than stability (tipping)



LOAD CHART

HC 110-1

with 59HI Offset Tip Boom + 9HL Jib

70,875 lb +  30,865 lb		360°						ANSI B 30.5						
60' Jib length														
ft	150 ft			160 ft			170 ft			180 ft			ft	
	5°	15°	25°	5°	15°	25°	5°	15°	25°	5°	15°	25°		
lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	
43	15320*	-	-	-	-	-	-	-	-	-	-	-	-	43
50	14960*	-	-	14960*	-	-	15000*	-	-	15010*	-	-	-	50
60	14380*	12910*	-	14450*	12940*	-	14520*	12980*	-	14540*	13000*	-	-	60
70	13830*	12520*	11360*	13960*	12620*	11420*	14020*	12630*	11440*	14090*	12670*	11500*	-	70
80	13330*	12040*	11000*	13470*	12140*	11080*	13550*	12250*	11110*	13640*	12350*	11180*	-	80
90	12870*	11600*	10680*	13010*	11710*	10750*	13160*	11850*	10790*	13260*	11950*	10860*	-	90
100	12290*	11220*	10380*	12510*	11340*	10460*	12710*	11480*	10510*	12700*	11590*	10590*	-	100
110	11670	10860*	10120*	11410	11000*	10190*	11180	11120*	10300*	10920	10920	10350*	-	110
120	10200	10200	9890*	9940	9940	9950	9700	9710	9710	9450	9450	9450	-	120
130	8970	8970	8970	8710	8710	8720	8470	8480	8480	8220	8220	8220	-	130
140	7930	7930	7940	7670	7670	7680	7430	7440	7440	7170	7170	7170	-	140
150	7040	7040	7050	6770	6770	6780	6530	6540	6540	6280	6280	6280	-	150
160	-	-	-	6000	6000	6000	5760	5760	5760	5500	5500	5500	-	160
170	-	-	-	-	-	-	5080	5080	5090	4820	4820	4830	-	170
180	-	-	-	-	-	-	-	-	-	4220	4230	4230	-	180

60' Jib length							
ft	190 ft			200 ft			ft
	5°	15°	25°	5°	15°	25°	
lb	lb	lb	lb	lb	lb	lb	
50	15020*	-	-	-	-	-	50
60	14560*	12990*	-	14570*	-	-	60
70	14150*	12690*	11470*	14150*	12680*	10890*	70
80	13690*	12390*	11250*	13750*	12370*	10890*	80
90	13310*	12050*	10930*	13350*	12130*	10890*	90
100	12460	11680*	10670*	12200	11760*	10730*	100
110	10680	10680	10430*	10420	10420	10430	110
120	9200	9200	9210	8940	8940	8940	120
130	7970	7970	7980	7700	7710	7710	130
140	6920	6920	6930	6660	6660	6670	140
150	6030	6030	6040	5760	5760	5770	150
160	5250	5250	5260	4990	4990	5000	160
170	4570	4570	4580	4300	4300	4310	170
180	3970	3980	3980	3700	3710	3710	180
190	3440	3440	3450	3180	3180	3190	190
200	-	-	-	2700	2710	2710	200
210	-	-	-	-	-	-	210




Asterisk (*) areas on this chart indicate ratings that are limited by strength of material or factors other than stability (tipping)




LOAD CHART

HC 110-1

with 59HI Offset Tip Boom + 9HL Jib

70,875 lb +  30,865 lb		360°									ANSI B 30.5
70' Jib length											
	180 ft			190 ft			200 ft				
	5°	15°	25°	5°	15°	25°	5°	15°	25°		
ft	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	ft
50	11880*	-	-	-	-	-	-	-	-	-	50
60	11450*	-	-	11470*	-	-	11520*	-	-	-	60
70	11010*	9570*	-	11060*	9650*	-	11110*	9690*	-	-	70
80	10550*	9180*	8190*	10670*	9260*	8220*	10720*	9340*	8250*	-	80
90	10080*	8850*	7930*	10200*	8910*	7990*	10310*	9000*	8020*	-	90
100	9630*	8540*	7690*	9780*	8600*	7740*	9890*	8690*	7790*	-	100
110	9240*	8240*	7500*	9340*	8310*	7530*	9510*	8400*	7570*	-	110
120	8850*	7960*	7300*	9000*	8050*	7360*	9020	8150*	7410*	-	120
130	8290	7750*	7130*	8040	7820*	7180*	7780	7780	7210*	-	130
140	7240	7240	6990*	6990	6990	7000	6740	6740	6740	-	140
150	6350	6350	6360	6100	6100	6110	5830	5840	5840	-	150
160	5570	5570	5580	5320	5320	5330	5060	5070	5070	-	160
170	4890	4890	4900	4640	4640	4650	4370	4380	4380	-	170
180	4290	4300	4300	4040	4050	4050	3780	3780	3780	-	180
190	-	-	-	3510	3510	3520	3250	3250	3260	-	190
200	-	-	-	-	-	-	2770	2780	2780	-	200
210	-	-	-	-	-	-	-	-	-	-	210

80' Jib length				
	200 ft			
	5°	15°	25°	
ft	lb	lb	lb	ft
56	9580*	-	-	56
60	9420*	-	-	60
70	8960*	7550*	-	70
80	8530*	7220*	-	80
90	8100*	6940*	6090*	90
100	7740*	6670*	5910*	100
110	7390*	6430*	5740*	110
120	7080*	6200*	5570*	120
130	6780*	6010*	5410*	130
140	6520*	5820*	5290*	140
150	5910	5640*	5160*	150
160	5130	5130	5040*	160
170	4450	4450	4460	170
180	3850	3850	3860	180
190	3310	3310	3320	190
200	2830	2840	2840	200
210	-	-	-	210

Asterisk (*) areas on this chart indicate ratings that are limited by strength of material or factors other than stability (tipping)



NOTES TO LIFTING CAPACITY

HC 110-1

Main Boom Chart Information

59HI Offset Tip Boom

Boom length (ft)	25' 59HI Inner	10' 59H Center	20' 59H Center	40' 59H Center	25' 59HI Outer
100	1	1	0	1	1
110	1	0	1	1	1
120	1	1	1	1	1
130	1	0	0	2	1
140	1	1	0	2	1
150	1	0	1	2	1
160	1	1	1	2	1
170	1	0	0	3	1
180	1	1	0	3	1
190	1	0	1	3	1
200	1	1	1	3	1
210	1	0	0	4	1

9HL Jib

Jib length (ft)	20' Inner	10' Center	20' Center	20' Outer
40	1	0	0	1
50	1	1	0	1
60	1	0	1	1
70	1	1	1	1
80	1	0	2	1



TECHNICAL DESCRIPTION

HC 110-1

Hydraulic Crawler Crane

Maximum lifting capacity

110 tons (100 mt) @ 13 ft radius. Max. load moment 431 tm.

Boom systems

59HI Tubular Chord Boom, pin connected – with 4 Sheave Tip

- 230 ft maximum boom length.
- 280 ft maximum boom and jib combination length.
- 25 ft (7.6 m) inner and 25 ft (7.6 m) outer and 10 ft / 20 ft / 40 ft available inserts provide boom compositions in 10 ft (3 m) increments from 50 ft (15.2 m) to 230 ft (70 m).

Robust engine

- Cummins Model QSB 6.7 Turbocharged, after cooler, diesel engine Tier4, 4 cycle, 6 cylinders, direct fuel injection, 409 cubic inch displacement, 6.7 liters, 249 BHP @ 2000 rpm, 105 gallons fuel tank capacity.

Environmental operator's cab

- Designed to provide excellent viewing range and quiet, comfortable operation.
- 37 inch (0.94 m) wide cab has wide curved windows on both top and bottom.
- Easy-to-operate modular and ergonomically designed controls reduce operator fatigue and increase productivity.
- Load Moment Indicator with interactive screen. Operator can select from three display modes: loaded condition diagram, rated lifting curve or rated lifting load table.
- Adjustable operator's seat, radio, air conditioner, overhead window, sun visor, overhead and front wipers and drum rotation indicators are standard.

Heavy duty carbody and crawlers

- Fabricated steel carbody is deep box constructed with square axles for the crawler side frames. Precision machined top supports anti-friction swing bearing and multiple pass hydraulic swivel joint.
- Crawlers have high alloy steel tumbler yokes and rigid fabricated structures with sealed rollers.
- 36" (914 mm) crawler shoes.
- Travel mechanism is contained within shoe width.
- Side frames extended or retracted by cylinders inside the carbody.
- Two travel speed settings – 0.60 / 0.93 mph (0.96 / 1.5 km/h).
- 30 % (17°) gradeability.

Powerful, high-speed hoist system

- Independent main and auxiliary load hoisting drums. 2 auxiliary drums are grooved for 26 mm diameter rope. Max line speed is 566 fpm (172 m/min), max single line pull is 42,108 lb (19 100 kg). Rated line pull dependent on rope type*.
- Freefall on main and auxiliary drums.
- Each drum has power up/down and freefall. Load hoists are further controllable in stepless mode.
- Ample work space in front of the drums allows easy access for cable installation and maintenance.
- External contracting brake.
- Internal wet disc brake /clutch.
- 2.4 rpm swing speed.

* Maximum rated single line pull of 30,310 lb standard rope / 29,670 lb rotation resistant rope)

High capacity, dependable hydraulic system

- Open circuit system has 2 variable displacement piston pumps with system capacity of 183 gpm (692 lpm).
- Hydraulic reservoir with 79 gallons (300 l) capacity and 10 micron filtration.
- Component working range is between -4 and 203° F (-20 and 95° C).

Five piece removable upper counterweight

- Five piece pin connected upper counterweight can be assembled or disassembled easily within minutes.
- Hydraulic counterweight removal system is standard and makes the HC 110 one of the most transportable cranes in its class.
- Moves on six trucks with full boom and #9HL jib. With shipping width of 12 ft and shipping height of 10 ft 9 in and shipping weight of 98,600 lb, the basic HC 110 will transport on a standard lowboy trailer.

Options include

- Third drum
- Hydraulic power take off
- Jib and jib inserts
- Single sheave extension
- Tagline winder
- Cold weather package
- Anemometer
- Boom lights





LOAD PLAN FOR HC 110-1

HC 110-1

with 200' Main Boom + 70' 9HL Jib

LOAD 1 – Step Deck

Carbody Counterweights.....	30,864 lb
40' Boom Center.....	2,670 lb
75T Load Block.....	1,100 lb
IHI Blue Crate.....	1,000 lb
TOTAL.....	35,634 lb

LOAD 2 – Step Deck Load Leveler Required

40' Boom Center.....	2,670 lb
15T Overhaul Ball.....	650 lb
25T Load Block.....	500 lb
Pendant 1.375" x 23'4" Closed.....	150 lb
Pendant 20'.....	300 lb
Pendant 1.38" x 40'.....	500 lb
Sling.....	200 lb
L.H. Counterweight.....	23,370 lb
TOTAL.....	28,340 lb

LOAD 3 – Step Deck Load Leveler Required

Boom Outer offset with 3 sheaves.....	4,200 lb
Boom Center 20' 59HI.....	1,975 lb
R.H. Counterweight.....	23,370 lb
TOTAL.....	29,545 lb

LOAD 4 – Step Deck Load Leveler Required

59HI Single Sheave Extension.....	500 lb
Wire Rope 26 mm x 275 m.....	1,900 lb
Wire Rope 26 mm x 155 m.....	2,000 lb
Base Counterweight.....	22,050 lb
10' Boom Center.....	1,500 lb
TOTAL.....	27,950 lb

LOAD 5 – Flat bed

40' Boom Center.....	2,670 lb
9HL Jib Inner.....	1,000 lb
9HL Jib Outer.....	800 lb
9HL 20' Center.....	300 lb
9HL 10' Center.....	150 lb
Jib Spreader bar / Security device.....	120 lb
TOTAL.....	5,040 lb

LOAD 6 – RGN (removable gooseneck)

HC 110-1 Base Unit.....	98,600 lb
Includes boom inner, sideframes, boom hoist rope, counterweight removal system, boom stops	



NOTES

HC 110-1

Lined area for notes.



NOTES

HC 110-1

A large rectangular area with a light gray background and horizontal white lines, intended for handwritten notes.



Effective Date: July 2016.

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