



HC 165

165 tons capacity
Crawler Crane

DATASHEET IMPERIAL

HC 165



WORKS FOR YOU.™

| | Page: |
|--|-------|
| Key | 3 |
| Highlights | 3 |
| Dimensions | 4 |
| Range Diagram | |
| 77SI Hammerhead Tip Boom | 6 |
| Load Charts | |
| With 77SI Hammerhead Tip Boom and 102,000 Pound Upper Counterweight | 7 |
| With 77SI Hammerhead Tip Boom and 116,400 Pound Counterweight | 10 |
| Range Diagram | |
| 77SI Offset Tip Boom | 14 |
| Load Charts | |
| With 77SI Offset Tip Boom and 102,000 Pound Upper Counterweight | 15 |
| With 77SI Offset Tip Boom and 116,400 Pound Counterweight | 18 |
| Range Diagram | |
| 77SI Hammerhead Tip Boom, #16HL Jib | 22 |
| Load Charts | |
| With 77SI Hammerhead Tip Boom and 102,000 Pound Upper Counterweight, #16HL Jib | 23 |
| With 77SI Hammerhead Tip Boom and 116,400 Pound Counterweight, #16HL Jib | 30 |
| Range Diagram | |
| 77SI Offset Tip Boom, #16HL Jib | 38 |
| Load Charts | |
| With 77SI Offset Tip Boom and 102,000 Pound Upper Counterweight, #16HL Jib | 39 |
| With 77SI Offset Tip Boom and 116,400 Pound Counterweight, #16HL Jib | 48 |
| Technical Description | |
| Hydraulic Crawler Crane | 58 |
| Hoist Drum Performance | 59 |
| Transport Example | |
| for HC 165 | 60 |

HIGHLIGHTS

HC 165

- ▶ 165 tons maximum lifting capacity
 - ▶ 270 ft maximum length of main boom
 - ▶ 80 ft maximum jib
 - ▶ 320 ft maximum boom and jib length
 - ▶ 310 horsepower Cummins engine
 - ▶ Optional boom tips
 - ▶ Optional 3rd drum configurations
 - ▶ Increased capacity at working radii with optional counterweight
 - ▶ Proven American 77" boom and 16HL jib
 - ▶ Fully self-erectable
 - ▶ Power up / power down and freefall on main, auxiliary and optional third drum
 - ▶ Quiet operator's cab with spacious width
 - ▶ 360° viewing range
 - ▶ Two speed travel
 - ▶ Powerful, high speed hoist drums
- ▶ **The ultimate crane!**



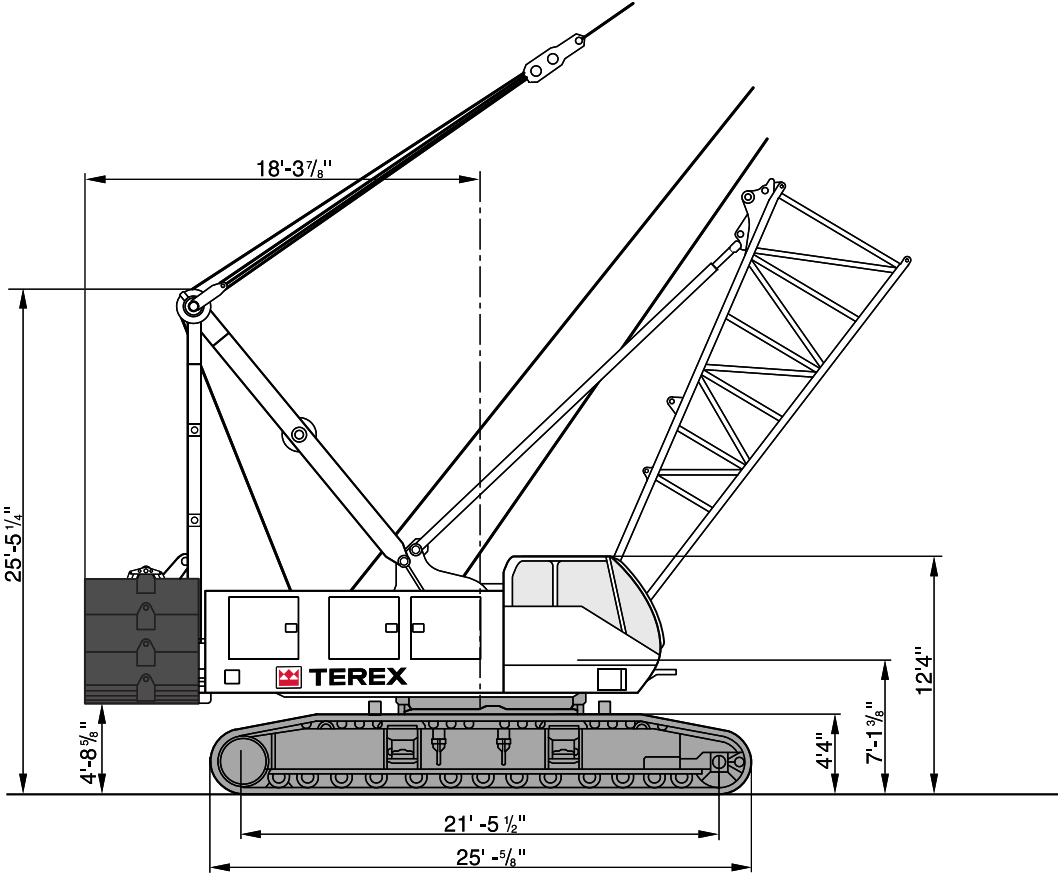
KEY



Counterweight

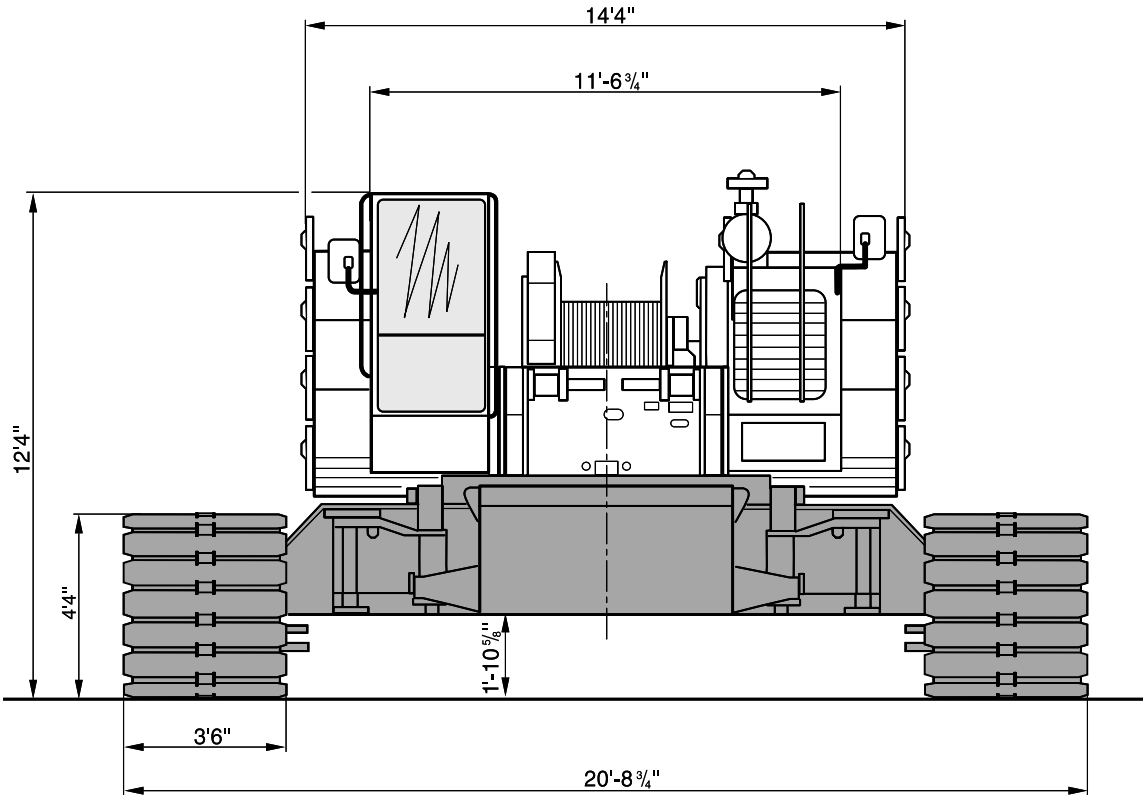
DIMENSIONS

HC 165



DIMENSIONS

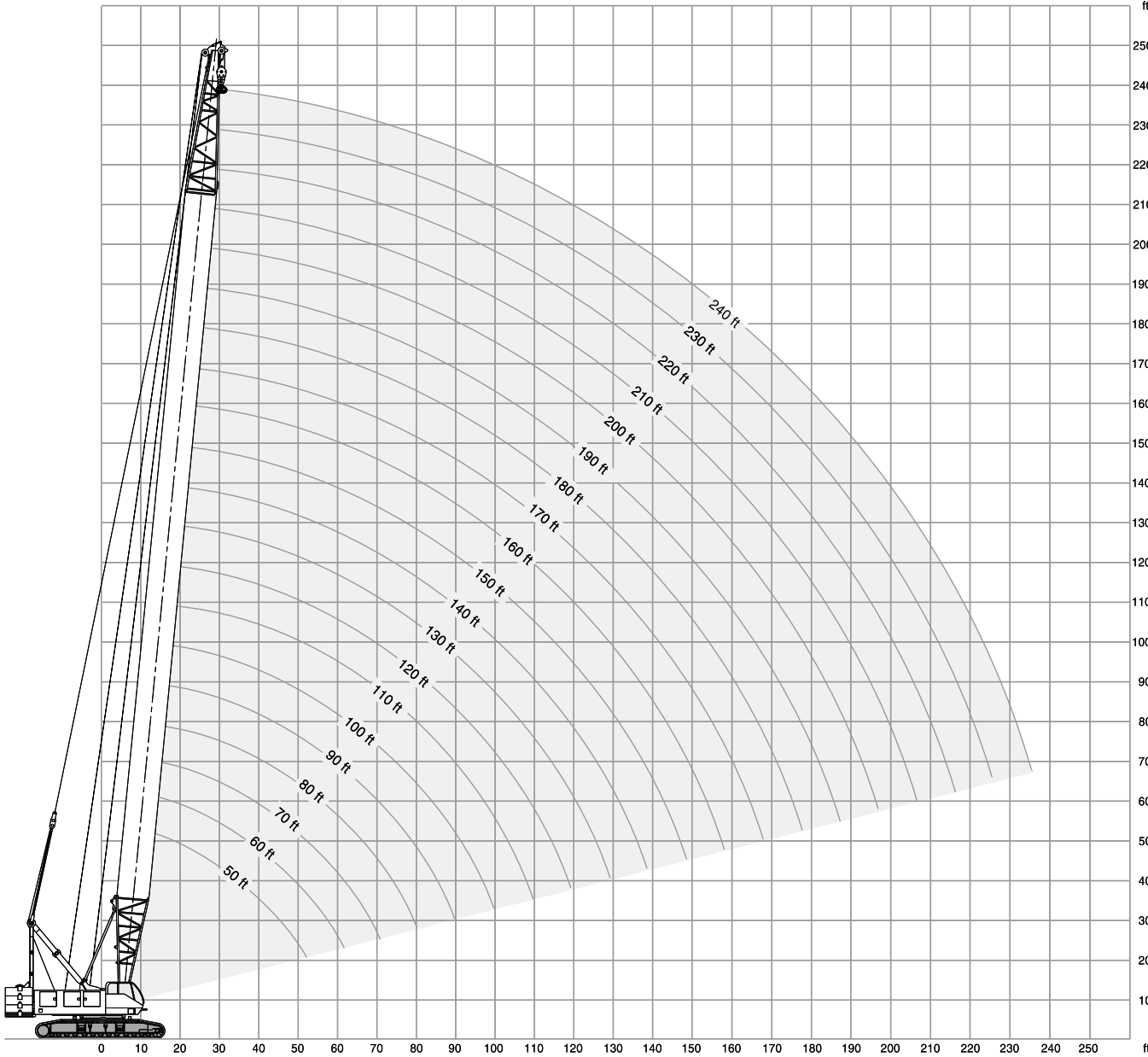
HC 165



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 | | | | | | | | |

LOAD CHART

HC 165

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

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | |
|------------------|----------------------|----------------------------|--------------------------------|------------------|----------------------|----------------------------|--------------------------------|-------------|--|--|--|
| 140' Boom length | | | | 170' 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) | | | | |
| 25 | 82.6 | 183,360 | 147 | 28 | 82.9 | 152,290 | 177 | | | | |
| 30 | 80.5 | 137,350 | 146 | 30 | 82.2 | 136,630 | 177 | | | | |
| 35 | 78.5 | 109,150 | 145 | 35 | 80.5 | 108,370 | 176 | | | | |
| 40 | 76.4 | 89,800 | 144 | 40 | 78.8 | 88,960 | 175 | | | | |
| 50 | 72.1 | 65,570 | 141 | 50 | 75.4 | 64,690 | 173 | | | | |
| 60 | 67.8 | 50,640 | 138 | 60 | 71.8 | 49,710 | 170 | | | | |
| 70 | 63.3 | 40,590 | 133 | 70 | 68.3 | 40,000 | 166 | | | | |
| 80 | 58.6 | 33,650 | 127 | 80 | 64.6 | 32,750 | 162 | | | | |
| 90 | 53.6 | 28,200 | 121 | 90 | 60.8 | 27,280 | 156 | | | | |
| 100 | 48.3 | 23,940 | 112 | 100 | 56.8 | 23,020 | 150 | | | | |
| 110 | 42.5 | 20,510 | 102 | 110 | 52.7 | 19,580 | 143 | | | | |
| 120 | 35.9 | 17,700 | 90 | 120 | 48.3 | 16,770 | 135 | | | | |
| 130 | 28.0 | 15,350 | 73 | 130 | 43.6 | 14,430 | 125 | | | | |
| 140 | 17.0 | 13,350 | 48 | 140 | 38.4 | 12,430 | 113 | | | | |
| | | | | 150 | 32.5 | 10,730 | 99 | | | | |
| | | | | 160 | 25.4 | 9,240 | 80 | | | | |
| | | | | 170 | 15.3 | 7,940 | 52 | | | | |
| 150' Boom length | | | | 180' 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) | | | | |
| 26 | 82.7 | 171,730 | 157 | 29 | 83.0 | 143,810 | 187 | | | | |
| 30 | 81.2 | 137,140 | 156 | 30 | 82.6 | 136,360 | 187 | | | | |
| 35 | 79.2 | 108,910 | 155 | 35 | 81.0 | 108,080 | 186 | | | | |
| 40 | 77.3 | 89,550 | 154 | 40 | 79.4 | 88,640 | 185 | | | | |
| 50 | 73.3 | 65,320 | 152 | 50 | 76.2 | 64,380 | 183 | | | | |
| 60 | 69.3 | 50,370 | 148 | 60 | 72.9 | 49,370 | 180 | | | | |
| 70 | 65.2 | 40,320 | 144 | 70 | 69.5 | 39,660 | 177 | | | | |
| 80 | 60.9 | 33,390 | 139 | 80 | 66.1 | 32,400 | 173 | | | | |
| 90 | 56.4 | 27,940 | 133 | 90 | 62.5 | 26,940 | 168 | | | | |
| 100 | 51.7 | 23,670 | 126 | 100 | 58.9 | 22,660 | 162 | | | | |
| 110 | 46.6 | 20,260 | 117 | 110 | 55.1 | 19,230 | 156 | | | | |
| 120 | 41.0 | 17,450 | 106 | 120 | 51.1 | 16,420 | 148 | | | | |
| 130 | 34.7 | 15,100 | 93 | 130 | 46.8 | 14,070 | 139 | | | | |
| 140 | 27.1 | 13,100 | 76 | 140 | 42.3 | 12,080 | 129 | | | | |
| 150 | 16.4 | 11,380 | 50 | 150 | 37.2 | 10,370 | 117 | | | | |
| | | | | 160 | 31.5 | 8,880 | 102 | | | | |
| | | | | 170 | 24.6 | 7,590 | 82 | | | | |
| | | | | 180 | 14.9 | 6,430 | 54 | | | | |
| 160' Boom length | | | | 190' 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) | | | | |
| 27 | 82.8 | 161,670 | 167 | 31 | 82.7 | 129,300 | 197 | | | | |
| 30 | 81.7 | 136,880 | 166 | 35 | 81.5 | 107,800 | 196 | | | | |
| 35 | 79.9 | 108,640 | 166 | 40 | 80.0 | 88,320 | 195 | | | | |
| 40 | 78.1 | 89,260 | 165 | 50 | 76.9 | 64,050 | 193 | | | | |
| 50 | 74.4 | 65,010 | 162 | 60 | 73.8 | 49,030 | 191 | | | | |
| 60 | 70.7 | 50,040 | 159 | 70 | 70.7 | 39,340 | 187 | | | | |
| 70 | 66.8 | 40,320 | 155 | 80 | 67.4 | 32,070 | 183 | | | | |
| 80 | 62.9 | 33,070 | 150 | 90 | 64.1 | 26,590 | 179 | | | | |
| 90 | 58.8 | 27,610 | 145 | 100 | 60.7 | 22,310 | 174 | | | | |
| 100 | 54.5 | 23,350 | 138 | 110 | 57.2 | 18,890 | 168 | | | | |
| 110 | 49.9 | 19,920 | 130 | 120 | 53.5 | 16,070 | 161 | | | | |
| 120 | 45.0 | 17,110 | 121 | 130 | 49.6 | 13,720 | 153 | | | | |
| 130 | 39.6 | 14,760 | 110 | 140 | 45.5 | 11,720 | 143 | | | | |
| 140 | 33.5 | 12,770 | 96 | 150 | 41.1 | 10,010 | 133 | | | | |
| 150 | 26.2 | 11,060 | 78 | 160 | 36.2 | 8,530 | 120 | | | | |
| 160 | 15.8 | 9,570 | 51 | 170 | 30.6 | 7,220 | 104 | | | | |
| | | | | 180 | 23.9 | 6,080 | 85 | | | | |
| | | | | 190 | 14.4 | 5,070 | 55 | | | | |



LOAD CHART

HC 165

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

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | | | | | |
|-------------------------|----------------------|----------------------------|--------------------------------|-------------------------|----------------------|----------------------------|--------------------------------|-------------------------|----------------------|----------------------------|--------------------------------|-------------------------|----------------------|----------------------------|--------------------------------|
| 200' Boom length | | | | 220' Boom length | | | | 210' Boom length | | | | 230' 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) | 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) |
| 32 | 82.8 | 122,830 | 207 | 34 | 82.9 | 102,110* | 226 | 33 | 82.9 | 112,450* | 216 | 35 | 83.0 | 96,610* | 236 |
| 35 | 81.9 | 107,530 | 206 | 35 | 82.7 | 101,710* | 226 | 35 | 82.3 | 107,240 | 216 | 40 | 81.7 | 87,080 | 236 |
| 40 | 80.5 | 88,030 | 205 | 40 | 81.4 | 87,400 | 226 | 40 | 80.9 | 87,720 | 215 | 50 | 79.2 | 62,770 | 234 |
| 50 | 77.6 | 63,760 | 203 | 50 | 78.7 | 63,100 | 224 | 50 | 78.2 | 63,430 | 214 | 60 | 76.7 | 47,670 | 232 |
| 60 | 74.6 | 48,720 | 201 | 60 | 76.1 | 48,020 | 222 | 60 | 75.4 | 48,360 | 211 | 70 | 74.1 | 38,020 | 229 |
| 70 | 71.7 | 39,050 | 198 | 70 | 73.4 | 38,370 | 219 | 70 | 72.6 | 38,700 | 208 | 80 | 71.5 | 30,720 | 226 |
| 80 | 68.6 | 31,760 | 194 | 80 | 70.6 | 31,070 | 216 | 80 | 69.7 | 31,420 | 205 | 90 | 68.9 | 25,220 | 223 |
| 90 | 65.5 | 26,280 | 190 | 90 | 67.8 | 25,580 | 212 | 90 | 66.7 | 25,930 | 201 | 100 | 66.2 | 20,920 | 218 |
| 100 | 62.3 | 22,010 | 185 | 100 | 65.0 | 21,290 | 207 | 100 | 63.7 | 21,650 | 196 | 110 | 63.4 | 17,480 | 214 |
| 110 | 59.0 | 18,570 | 179 | 110 | 62.1 | 17,840 | 202 | 110 | 60.6 | 18,210 | 191 | 120 | 60.6 | 14,650 | 208 |
| 120 | 55.6 | 15,750 | 173 | 120 | 59.1 | 15,030 | 197 | 120 | 57.5 | 15,390 | 185 | 130 | 57.7 | 12,300 | 202 |
| 130 | 52.0 | 13,400 | 166 | 130 | 56.0 | 12,670 | 190 | 130 | 54.1 | 13,030 | 178 | 140 | 54.7 | 10,290 | 196 |
| 140 | 48.3 | 11,410 | 157 | 140 | 52.8 | 10,670 | 183 | 140 | 50.7 | 11,040 | 170 | 150 | 51.5 | 8,580 | 188 |
| 150 | 44.3 | 9,690 | 147 | 150 | 49.4 | 8,960 | 175 | 150 | 47.0 | 9,320 | 162 | 160 | 48.3 | 7,090 | 179 |
| 160 | 40.0 | 8,210 | 136 | 160 | 45.9 | 7,470 | 166 | 160 | 43.2 | 7,830 | 151 | 170 | 44.8 | 5,780 | 170 |
| 170 | 35.2 | 6,910 | 123 | 170 | 42.1 | 6,160 | 155 | 170 | 39.0 | 6,540 | 140 | 180 | 41.1 | 4,640 | 159 |
| 180 | 29.8 | 5,770 | 107 | 180 | 38.0 | 5,020 | 143 | 180 | 34.3 | 5,390 | 126 | 190 | 37.2 | 3,620 | 147 |
| 190 | 23.3 | 4,750 | 87 | 190 | 33.5 | 4,010 | 129 | 190 | 29.1 | 4,370 | 110 | | | | |
| 200 | 14.1 | 3,850 | 56 | 200 | 28.4 | 3,100 | 112 | 200 | 22.7 | 3,460 | 89 | | | | |
| 240' Boom length | | | | | | | | | | | | | | | |
| 37 | 82.8 | 84,390* | 246 | | | | | | | | | | | | |
| 40 | 82.1 | 84,000* | 246 | | | | | | | | | | | | |
| 50 | 79.7 | 62,440 | 244 | | | | | | | | | | | | |
| 60 | 77.2 | 47,310 | 242 | | | | | | | | | | | | |
| 70 | 74.8 | 37,680 | 240 | | | | | | | | | | | | |
| 80 | 72.3 | 30,360 | 237 | | | | | | | | | | | | |
| 90 | 69.8 | 24,860 | 233 | | | | | | | | | | | | |
| 100 | 67.2 | 20,560 | 229 | | | | | | | | | | | | |
| 110 | 64.6 | 17,110 | 225 | | | | | | | | | | | | |
| 120 | 61.9 | 14,280 | 220 | | | | | | | | | | | | |
| 130 | 59.2 | 11,920 | 214 | | | | | | | | | | | | |
| 140 | 56.3 | 9,920 | 208 | | | | | | | | | | | | |
| 150 | 53.4 | 8,200 | 201 | | | | | | | | | | | | |
| 160 | 50.4 | 6,710 | 193 | | | | | | | | | | | | |
| 170 | 47.2 | 5,410 | 184 | | | | | | | | | | | | |
| 180 | 43.8 | 4,260 | 174 | | | | | | | | | | | | |
| 190 | 40.2 | 3,240 | 163 | | | | | | | | | | | | |

LOAD CHART

HC 165

With 77SI Hammerhead Tip Boom and 116,400 Pound Counterweight

| 108,400 lb + 8,000 lb carbody counterweight | | | | 360° | ANSI B 30.5 |
|---|----------------------|----------------------------|--------------------------------|------|-------------|
| 50' Boom length | | | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | | |
| 14 | 81.9 | 330,000* | 58 | | |
| 15 | 80.8 | 330,000* | 57 | | |
| 20 | 75.0 | 285,140 | 56 | | |
| 25 | 68.9 | 193,760 | 55 | | |
| 30 | 62.7 | 145,760 | 52 | | |
| 35 | 55.9 | 116,200 | 49 | | |
| 40 | 48.5 | 96,080 | 45 | | |
| 50 | 29.5 | 70,550 | 32 | | |
| 60' Boom length | | | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | | |
| 15 | 82.3 | 330,000* | 68 | | |
| 20 | 77.5 | 285,570 | 67 | | |
| 25 | 72.6 | 194,080 | 65 | | |
| 30 | 67.5 | 145,990 | 63 | | |
| 35 | 62.2 | 116,410 | 61 | | |
| 40 | 56.6 | 96,260 | 58 | | |
| 50 | 44.0 | 70,760 | 49 | | |
| 60 | 26.7 | 55,120 | 35 | | |
| 70' Boom length | | | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | | |
| 16 | 82.6 | 330,000* | 78 | | |
| 20 | 79.3 | 285,800 | 77 | | |
| 25 | 75.1 | 194,230 | 76 | | |
| 30 | 70.8 | 146,080 | 74 | | |
| 35 | 66.5 | 116,490 | 72 | | |
| 40 | 61.9 | 96,310 | 70 | | |
| 50 | 52.0 | 70,820 | 63 | | |
| 60 | 40.5 | 55,190 | 53 | | |
| 70 | 24.6 | 44,650 | 37 | | |
| 80' Boom length | | | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | | |
| 17 | 82.8 | 330,000* | 87 | | |
| 20 | 80.6 | 285,890 | 87 | | |
| 25 | 77.0 | 194,240 | 86 | | |
| 30 | 73.3 | 146,050 | 85 | | |
| 35 | 69.6 | 116,420 | 83 | | |
| 40 | 65.7 | 96,230 | 81 | | |
| 50 | 57.5 | 70,730 | 75 | | |
| 60 | 48.4 | 55,100 | 68 | | |
| 70 | 37.7 | 44,570 | 57 | | |
| 80 | 22.9 | 37,050 | 39 | | |
| 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 | 285,910 | 97 | | |
| 25 | 78.5 | 194,190 | 96 | | |
| 30 | 75.2 | 145,960 | 95 | | |
| 35 | 71.9 | 116,320 | 94 | | |
| 40 | 68.5 | 96,090 | 92 | | |
| 50 | 61.5 | 70,590 | 87 | | |
| 60 | 53.9 | 54,950 | 81 | | |
| 70 | 45.4 | 44,430 | 72 | | |
| 80 | 35.4 | 36,960 | 60 | | |
| 90 | 21.5 | 31,200 | 40 | | |
| 100' Boom length | | | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | | |
| 20 | 82.5 | 285,920 | 107 | | |
| 25 | 79.6 | 194,160 | 106 | | |
| 30 | 76.7 | 145,880 | 105 | | |
| 35 | 73.8 | 116,230 | 104 | | |
| 40 | 70.8 | 95,990 | 102 | | |
| 50 | 64.6 | 70,490 | 98 | | |
| 60 | 58.0 | 54,840 | 93 | | |
| 70 | 50.9 | 44,310 | 85 | | |
| 80 | 43.0 | 36,890 | 76 | | |
| 90 | 33.5 | 31,150 | 63 | | |
| 100 | 20.3 | 26,640 | 42 | | |
| 110' Boom length | | | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | | |
| 21 | 82.7 | 261,440 | 117 | | |
| 25 | 80.6 | 194,020 | 117 | | |
| 30 | 77.9 | 145,710 | 116 | | |
| 35 | 75.3 | 116,040 | 114 | | |
| 40 | 72.6 | 95,760 | 113 | | |
| 50 | 67.0 | 70,260 | 109 | | |
| 60 | 61.2 | 54,590 | 104 | | |
| 70 | 55.0 | 44,050 | 98 | | |
| 80 | 48.3 | 36,660 | 90 | | |
| 90 | 40.8 | 30,920 | 80 | | |
| 100 | 31.8 | 26,430 | 66 | | |
| 110 | 19.3 | 22,810 | 44 | | |
| 120' Boom length | | | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | | |
| 22 | 82.8 | 240,680 | 127 | | |
| 25 | 81.4 | 193,870 | 127 | | |
| 30 | 78.9 | 145,510 | 126 | | |
| 35 | 76.5 | 115,830 | 125 | | |
| 40 | 74.1 | 95,530 | 123 | | |
| 50 | 69.0 | 70,020 | 120 | | |
| 60 | 63.8 | 54,330 | 116 | | |
| 70 | 58.3 | 43,790 | 110 | | |
| 80 | 52.5 | 36,420 | 103 | | |
| 90 | 46.2 | 30,680 | 94 | | |
| 100 | 39.0 | 26,190 | 83 | | |
| 110 | 30.4 | 22,590 | 68 | | |
| 120 | 18.4 | 19,610 | 45 | | |
| 130' Boom length | | | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | | |
| 23 | 82.9 | 222,590 | 137 | | |
| 25 | 82.0 | 193,690 | 137 | | |
| 30 | 79.8 | 145,290 | 136 | | |
| 35 | 77.6 | 115,590 | 135 | | |
| 40 | 75.3 | 95,260 | 134 | | |
| 50 | 70.7 | 69,740 | 131 | | |
| 60 | 66.0 | 54,040 | 127 | | |
| 70 | 61.0 | 43,470 | 122 | | |
| 80 | 55.8 | 36,130 | 115 | | |
| 90 | 50.3 | 30,400 | 108 | | |
| 100 | 44.2 | 25,910 | 98 | | |
| 110 | 37.4 | 22,310 | 87 | | |
| 120 | 29.2 | 19,340 | 71 | | |
| 130 | 17.6 | 16,860 | 47 | | |



LOAD CHART

HC 165

With 77SI Hammerhead Tip Boom and 116,400 Pound Counterweight

| 108,400 lb + 8,000 lb carbody counterweight | | | | 360° | ANSI B 30.5 |
|---|----------------------|----------------------------|--------------------------------|------|-------------|
| 140' Boom length | | | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | | |
| 25 | 82.6 | 193,500 | 147 | | |
| 30 | 80.5 | 145,050 | 146 | | |
| 35 | 78.5 | 115,340 | 145 | | |
| 40 | 76.4 | 94,980 | 144 | | |
| 50 | 72.1 | 69,460 | 141 | | |
| 60 | 67.8 | 53,740 | 138 | | |
| 70 | 63.3 | 43,170 | 133 | | |
| 80 | 58.6 | 35,840 | 127 | | |
| 90 | 53.6 | 30,110 | 121 | | |
| 100 | 48.3 | 25,630 | 112 | | |
| 110 | 42.5 | 22,020 | 102 | | |
| 120 | 35.9 | 19,060 | 90 | | |
| 130 | 28.0 | 16,590 | 73 | | |
| 140 | 17.0 | 14,480 | 48 | | |
| 150' Boom length | | | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | | |
| 26 | 82.7 | 181,270 | 157 | | |
| 30 | 81.2 | 144,850 | 156 | | |
| 35 | 79.2 | 115,120 | 155 | | |
| 40 | 77.3 | 94,740 | 154 | | |
| 50 | 73.3 | 69,210 | 152 | | |
| 60 | 69.3 | 53,480 | 148 | | |
| 70 | 65.2 | 42,900 | 144 | | |
| 80 | 60.9 | 35,600 | 139 | | |
| 90 | 56.4 | 29,860 | 133 | | |
| 100 | 51.7 | 25,370 | 126 | | |
| 110 | 46.6 | 21,780 | 117 | | |
| 120 | 41.0 | 18,810 | 106 | | |
| 130 | 34.7 | 16,340 | 93 | | |
| 140 | 27.1 | 14,240 | 76 | | |
| 150 | 16.4 | 12,440 | 50 | | |
| 160' Boom length | | | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | | |
| 27 | 82.8 | 170,310 | 167 | | |
| 30 | 81.7 | 144,600 | 166 | | |
| 35 | 79.9 | 114,850 | 166 | | |
| 40 | 78.1 | 94,450 | 165 | | |
| 50 | 74.4 | 68,910 | 162 | | |
| 60 | 70.7 | 53,160 | 159 | | |
| 70 | 66.8 | 42,570 | 155 | | |
| 80 | 62.9 | 35,280 | 150 | | |
| 90 | 58.8 | 29,530 | 145 | | |
| 100 | 54.5 | 25,050 | 138 | | |
| 110 | 49.9 | 21,440 | 130 | | |
| 120 | 45.0 | 18,490 | 121 | | |
| 130 | 39.6 | 16,010 | 110 | | |
| 140 | 33.5 | 13,910 | 96 | | |
| 150 | 26.2 | 12,120 | 78 | | |
| 160 | 15.8 | 10,550 | 51 | | |
| 170' Boom length | | | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | | |
| 28 | 82.9 | 160,840 | 177 | | |
| 30 | 82.2 | 144,350 | 177 | | |
| 35 | 80.5 | 114,590 | 176 | | |
| 40 | 78.8 | 94,160 | 175 | | |
| 50 | 75.4 | 68,600 | 173 | | |
| 60 | 71.8 | 52,840 | 170 | | |
| 70 | 68.3 | 42,230 | 166 | | |
| 80 | 64.6 | 34,960 | 162 | | |
| 90 | 60.8 | 29,210 | 156 | | |
| 100 | 56.8 | 24,720 | 150 | | |
| 110 | 52.7 | 21,110 | 143 | | |
| 120 | 48.3 | 18,150 | 135 | | |
| 130 | 43.6 | 15,690 | 125 | | |
| 140 | 38.4 | 13,590 | 113 | | |
| 150 | 32.5 | 11,790 | 99 | | |
| 160 | 25.4 | 10,230 | 80 | | |
| 170 | 15.3 | 8,860 | 52 | | |
| 180' Boom length | | | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | | |
| 29 | 83.0 | 151,930 | 187 | | |
| 30 | 82.6 | 144,080 | 187 | | |
| 35 | 81.0 | 114,310 | 186 | | |
| 40 | 79.4 | 93,850 | 185 | | |
| 50 | 76.2 | 68,290 | 183 | | |
| 60 | 72.9 | 52,500 | 180 | | |
| 70 | 69.5 | 41,870 | 177 | | |
| 80 | 66.1 | 34,620 | 173 | | |
| 90 | 62.5 | 28,870 | 168 | | |
| 100 | 58.9 | 24,380 | 162 | | |
| 110 | 55.1 | 20,760 | 156 | | |
| 120 | 51.1 | 17,800 | 148 | | |
| 130 | 46.8 | 15,330 | 139 | | |
| 140 | 42.3 | 13,240 | 129 | | |
| 150 | 37.2 | 11,440 | 117 | | |
| 160 | 31.5 | 9,880 | 102 | | |
| 170 | 24.6 | 8,510 | 82 | | |
| 180 | 14.9 | 7,300 | 54 | | |
| 190' Boom length | | | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | | |
| 31 | 82.7 | 136,680 | 197 | | |
| 35 | 81.5 | 114,030 | 196 | | |
| 40 | 80.0 | 93,530 | 195 | | |
| 50 | 76.9 | 67,970 | 193 | | |
| 60 | 73.8 | 52,160 | 191 | | |
| 70 | 70.7 | 41,530 | 187 | | |
| 80 | 67.4 | 34,300 | 183 | | |
| 90 | 64.1 | 28,530 | 179 | | |
| 100 | 60.7 | 24,030 | 174 | | |
| 110 | 57.2 | 20,430 | 168 | | |
| 120 | 53.5 | 17,460 | 161 | | |
| 130 | 49.6 | 14,990 | 153 | | |
| 140 | 45.5 | 12,890 | 143 | | |
| 150 | 41.1 | 11,090 | 133 | | |
| 160 | 36.2 | 9,530 | 120 | | |
| 170 | 30.6 | 8,160 | 104 | | |
| 180 | 23.9 | 6,960 | 85 | | |
| 190 | 14.4 | 5,890 | 55 | | |

LOAD CHART

HC 165

With 77SI Hammerhead Tip Boom and 116,400 Pound Counterweight

| 108,400 lb + 8,000 lb carbody counterweight | | | | 360° | ANSI B 30.5 | | |
|---|----------------------|----------------------------|--------------------------------|-------------------------|----------------------|----------------------------|--------------------------------|
| 200' Boom length | | | | 220' 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) |
| 32 | 82.8 | 126,040* | 207 | 34 | 82.9 | 102,050* | 226 |
| 35 | 81.9 | 113,770 | 206 | 35 | 82.7 | 101,650* | 226 |
| 40 | 80.5 | 93,250 | 205 | 40 | 81.4 | 92,630 | 226 |
| 50 | 77.6 | 67,690 | 203 | 50 | 78.7 | 67,030 | 224 |
| 60 | 74.6 | 51,850 | 201 | 60 | 76.1 | 51,160 | 222 |
| 70 | 71.7 | 41,220 | 198 | 70 | 73.4 | 40,500 | 219 |
| 80 | 68.6 | 33,990 | 194 | 80 | 70.6 | 33,310 | 216 |
| 90 | 65.5 | 28,230 | 190 | 90 | 67.8 | 27,530 | 212 |
| 100 | 62.3 | 23,730 | 185 | 100 | 65.0 | 23,020 | 207 |
| 110 | 59.0 | 20,120 | 179 | 110 | 62.1 | 19,400 | 202 |
| 120 | 55.6 | 17,150 | 173 | 120 | 59.1 | 16,430 | 197 |
| 130 | 52.0 | 14,680 | 166 | 130 | 56.0 | 13,950 | 190 |
| 140 | 48.3 | 12,580 | 157 | 140 | 52.8 | 11,850 | 183 |
| 150 | 44.3 | 10,770 | 147 | 150 | 49.4 | 10,050 | 175 |
| 160 | 40.0 | 9,220 | 136 | 160 | 45.9 | 8,480 | 166 |
| 170 | 35.2 | 7,850 | 123 | 170 | 42.1 | 7,110 | 155 |
| 180 | 29.8 | 6,650 | 107 | 180 | 38.0 | 5,900 | 143 |
| 190 | 23.3 | 5,580 | 87 | 190 | 33.5 | 4,840 | 129 |
| 200 | 14.1 | 4,620 | 56 | 200 | 28.4 | 3,880 | 112 |
| | | | | 210 | 22.2 | 3,020 | 91 |
| 210' Boom length | | | | 230' 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) |
| 33 | 82.9 | 112,390* | 216 | 35 | 83.0 | 92,560* | 236 |
| 35 | 82.3 | 112,030* | 216 | 40 | 81.7 | 92,150* | 236 |
| 40 | 80.9 | 92,940 | 215 | 50 | 79.2 | 66,710 | 234 |
| 50 | 78.2 | 67,360 | 214 | 60 | 76.7 | 50,820 | 232 |
| 60 | 75.4 | 51,510 | 211 | 70 | 74.1 | 40,130 | 229 |
| 70 | 72.6 | 40,860 | 208 | 80 | 71.5 | 32,960 | 226 |
| 80 | 69.7 | 33,660 | 205 | 90 | 68.9 | 27,180 | 223 |
| 90 | 66.7 | 27,880 | 201 | 100 | 66.2 | 22,660 | 218 |
| 100 | 63.7 | 23,370 | 196 | 110 | 63.4 | 19,030 | 214 |
| 110 | 60.6 | 19,750 | 191 | 120 | 60.6 | 16,060 | 208 |
| 120 | 57.5 | 16,790 | 185 | 130 | 57.7 | 13,580 | 202 |
| 130 | 54.1 | 14,310 | 178 | 140 | 54.7 | 11,470 | 196 |
| 140 | 50.7 | 12,210 | 170 | 150 | 51.5 | 9,670 | 188 |
| 150 | 47.0 | 10,410 | 162 | 160 | 48.3 | 8,110 | 179 |
| 160 | 43.2 | 8,840 | 151 | 170 | 44.8 | 6,730 | 170 |
| 170 | 39.0 | 7,480 | 140 | 180 | 41.1 | 5,530 | 159 |
| 180 | 34.3 | 6,270 | 126 | 190 | 37.2 | 4,460 | 147 |
| 190 | 29.1 | 5,200 | 110 | 200 | 32.8 | 3,490 | 132 |
| 200 | 22.7 | 4,240 | 89 | | | | |
| 210 | 13.7 | 3,390 | 57 | | | | |
| 240' 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) |
| 37 | 82.8 | 84,340* | 246 | | | | |
| 40 | 82.1 | 83,950* | 246 | | | | |
| 50 | 79.7 | 66,380 | 244 | | | | |
| 60 | 77.2 | 50,470 | 242 | | | | |
| 70 | 74.8 | 40,310 | 240 | | | | |
| 80 | 72.3 | 32,610 | 237 | | | | |
| 90 | 69.8 | 26,820 | 233 | | | | |
| 100 | 67.2 | 22,290 | 229 | | | | |
| 110 | 64.6 | 18,670 | 225 | | | | |
| 120 | 61.9 | 15,690 | 220 | | | | |
| 130 | 59.2 | 13,210 | 214 | | | | |
| 140 | 56.3 | 11,100 | 208 | | | | |
| 150 | 53.4 | 9,300 | 201 | | | | |
| 160 | 50.4 | 7,730 | 193 | | | | |
| 170 | 47.2 | 6,360 | 184 | | | | |
| 180 | 43.8 | 5,150 | 174 | | | | |
| 190 | 40.2 | 4,080 | 163 | | | | |
| 200 | 36.3 | 3,120 | 150 | | | | |



Warning

This rating chart is invalid if the crane has been modified or altered by use of other than GENUINE AMERICAN PARTS as such modifications or alterations may affect its capacity or safe operation. See American Crane Corporation Service Bulliten #259.

Ratings in this chart are in POUNDS and do not exceed the percentage of tipping specified for this crane by ANSI B30.5. All ratings require that the crane be standing level on a firm uniformly supporting surface.

Do not lift loads in excess of those shown on this chart. Lifting loads in excess of those shown or operation not in accordance with good operating practice, including limitations shown on page 3499 of Operator's Manual, can cause tipping, structural damage or catastrophic failure.

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

„RADIUS IN FEET“ is the horizontal distance at ground level from the crane centerline of rotation to a vertical line through the center of gravity of the suspended load.

When using the main boom fall with jib in place, the main fall ratings must be reduced by the jib effective weight shown on the jib rating chart plus twice the weight of all suspended blocks, slings, rope, etc., at the jib fall. See Appendix A.

When using the main boom fall with boom tip extension in place, the main fall ratings must be reduced by the weight of the boom tip extension plus twice the weight of all suspended blocks, slings, rope, etc., at the boom tip extension fall. See Appendix A.

Blocks, slings, buckets and other load carrying devices are considered part of the load. The weight of standard hoisting ropes for the rating at a given radius has been calculated as part of the boom point load and need not be considered in determining net allowable loads. See Appendix A.

This chart was developed exclusively for use with a boom only. Under no circumstances are these ratings to be interpreted for use with a jib. Ratings shown on this chart make no allowance for such factors as out of plumb loads, wind, poor soil conditions, improper inflation of rubber tires and dynamic effects due to excessive operating speeds. The user (operator) must exercise judgement to make allowance for these conditions. See page 3499 of Operator's Manual for detailed information.

No account is taken of the wind force on the load. This effect, which can be substantial for loads with large surface areas, must be considered by the user. In any wind it is strongly recommended that taglines be used to control the load.

BOOM HOIST LINE is 14 parts of 7/8 inch diameter EIPS wire rope with a minimum breaking strength of 79,600 pound.

PENDANT SUSPENSION LINE is 4 parts of 1.375 inch diameter EEIPS wire rope with a minimum breaking strength of 211,000 pound.

MAIN LOAD LINE – 1.125 inch diameter EIPS wire rope with a minimum breaking strength of 130,000 pound.

ALTERNATE LOAD LINE (ROTATION RESISTANT) – 1.125 inch diameter BRIDON ENDURANCE DYFORM 34LR Grade 2160 wire rope with a minimum breaking strength of 167,200 pound.

ERECTION

Erection „OVER THE END“ is with the boom over the idler end with idler tumblers blocked (See operator's manual for blocking instructions). Erection „OVER THE SIDE“ is with the boom 90° to the sideframes and with the side frames extended. Blocks, slings and other load carrying devices must be on the ground during erection.

| 77SI HAMMERHEAD BOOM MAXIMUM BOOM & JIB SELF-ERECTION DATA | | | | |
|---|--------------------|-------------------|--------------------|-------------------|
| | OVER THE END | | OVER THE SIDE | |
| | BOOM LENGTH (FEET) | JIB LENGTH (FEET) | BOOM LENGTH (FEET) | JIB LENGTH (FEET) |
| #16HL JIB | 240 | 0 | 220 | 0 |
| | 230 | 0 | 210 | 40 |
| | 220 | 80 | 200 | 80 |

| LOAD HOISTING INFORMATION - 1.125 inch diameter EIPS wire rope | | | |
|--|-----------------------|----------------------------------|---------------|
| MAXIMUM LIFTING CAPACITY - LBS. | MINIMUM PARTS OF LINE | MAXIMUM HOISTING DISTANCE - FEET | |
| | | MAIN - (FRONT) | AUX. - (REAR) |
| 330,000 | 9 | 145 | 145 |
| 297,120 | 8 | 164 | 164 |
| 259,980 | 7 | 187 | 187 |
| 222,840 | 6 | 218 | 218 |
| 185,700 | 5 | 262 | 262 |
| 148,560 | 4 | 328 | 328 |
| 111,420 | 3 | 437 | 437 |
| 74,280 | 2 | 656 | 656 |
| 37,140 | 1 | 1,312 | 1,312 |

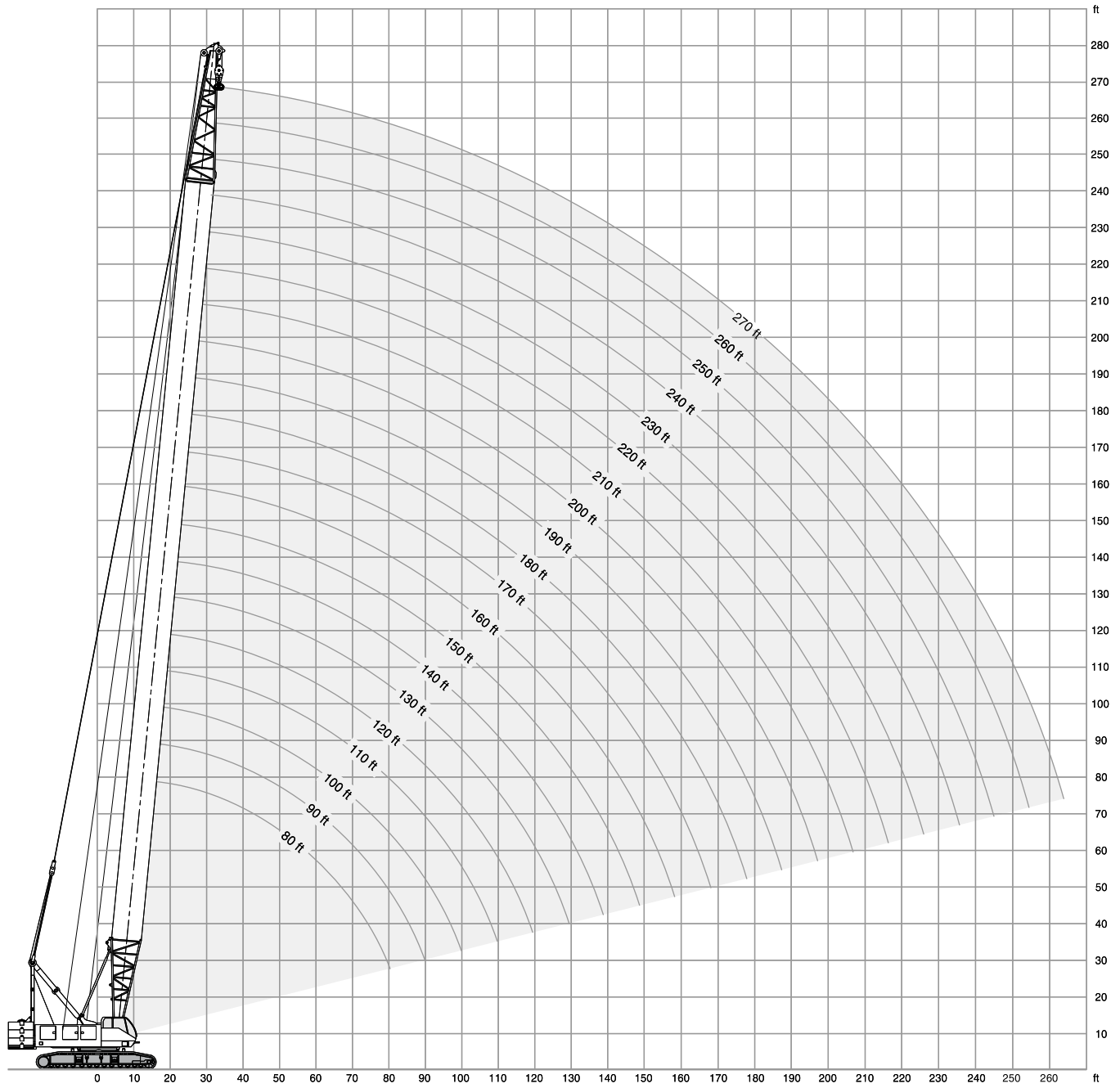
| LOAD HOISTING INFORMATION (ROTATION RESISTANT LOAD LINE) 1.125 inch diameter BRIDON ENDURANCE DYFORM 34LR Grade 2160 wire rope | | | |
|--|-----------------------|----------------------------------|---------------|
| MAXIMUM LIFTING CAPACITY - LBS. | MINIMUM PARTS OF LINE | MAXIMUM HOISTING DISTANCE - FEET | |
| | | MAIN - (FRONT) | AUX. - (REAR) |
| 330,000 | 10 | 131 | 131 |
| 300,960 | 9 | 145 | 145 |
| 267,520 | 8 | 164 | 164 |
| 234,080 | 7 | 187 | 187 |
| 200,640 | 6 | 218 | 218 |
| 167,200 | 5 | 262 | 262 |
| 133,760 | 4 | 328 | 328 |
| 100,320 | 3 | 437 | 437 |
| 66,880 | 2 | 656 | 656 |
| 33,440 | 1 | 1,312 | 1,312 |

| 77SI HAMMERHEAD BOOM COMPOSITION CHART | | | | | | | |
|---|--------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|---------------------------------|-----------------------------|
| BOOM LENGTH (METERS) | BOOM LENGTH (FEET) | BOOM SECTIONS | | | | | |
| | | 9.1 M 30' 77SI INNER | 3.0 M 10' 77S CENTER | 6.1 M 20' 77S CENTER | 15.2 M 50' 77S CENTER | 5.9 M 19.5' 77HL OUTER | 0 M 0' HAMMER HEAD |
| 15.2 M | 50 | 1 | 0 | 0 | 0 | 1 | 1 |
| 18.3 M | 60 | 1 | 1 | 0 | 0 | 1 | 1 |
| 21.3 M | 70 | 1 | 0 | 1 | 0 | 1 | 1 |
| 24.4 M | 80 | 1 | 1 | 1 | 0 | 1 | 1 |
| 27.4 M | 90 | 1 | 0 | 2 | 0 | 1 | 1 |
| 30.5 M | 100 | 1 | 0 | 0 | 1 | 1 | 1 |
| 33.5 M | 110 | 1 | 1 | 0 | 1 | 1 | 1 |
| 36.6 M | 120 | 1 | 0 | 1 | 1 | 1 | 1 |
| 39.6 M | 130 | 1 | 1 | 1 | 1 | 1 | 1 |
| 42.7 M | 140 | 1 | 0 | 2 | 1 | 1 | 1 |
| 45.7 M | 150 | 1 | 0 | 0 | 2 | 1 | 1 |
| 48.8 M | 160 | 1 | 1 | 0 | 2 | 1 | 1 |
| 51.8 M | 170 | 1 | 0 | 1 | 2 | 1 | 1 |
| 54.9 M | 180 | 1 | 1 | 1 | 2 | 1 | 1 |
| 57.9 M | 190 | 1 | 0 | 2 | 2 | 1 | 1 |
| 61.0 M | 200 | 1 | 0 | 0 | 3 | 1 | 1 |
| 64.0 M | 210 | 1 | 1 | 1 | 0 | 3 | 1 |
| 67.1 M | 220 | 1 | 0 | 1 | 3 | 1 | 1 |
| 70.1 M | 230 | 1 | 1 | 1 | 3 | 1 | 1 |
| 73.2 M | 240 | 1 | 0 | 2 | 3 | 1 | 1 |

RANGE DIAGRAM

HC 165

77SI Offset Tip Boom



LOAD CHART

HC 165

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

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | |
|------------------|----------------------|----------------------------|--------------------------------|------------------|----------------------|----------------------------|--------------------------------|-------------|--|--|--|
| 80' 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) | | | | |
| 17 | 81.0 | 235,130* | 86 | 24 | 80.6 | 196,990 | 125 | | | | |
| 20 | 78.8 | 235,130* | 86 | 25 | 80.1 | 184,190 | 125 | | | | |
| 25 | 75.1 | 184,750 | 84 | 30 | 77.7 | 138,670 | 124 | | | | |
| 30 | 71.4 | 139,390 | 83 | 35 | 75.2 | 110,750 | 123 | | | | |
| 35 | 67.5 | 111,510 | 81 | 40 | 72.8 | 91,640 | 122 | | | | |
| 40 | 63.6 | 92,490 | 79 | 50 | 67.7 | 67,650 | 118 | | | | |
| 50 | 55.3 | 68,510 | 73 | 60 | 62.4 | 52,890 | 113 | | | | |
| 60 | 46.0 | 53,820 | 65 | 70 | 56.9 | 42,970 | 108 | | | | |
| 70 | 35.0 | 43,940 | 53 | 80 | 51.0 | 36,050 | 100 | | | | |
| 80 | 19.2 | 36,910 | 33 | 90 | 44.5 | 30,660 | 91 | | | | |
| | | | | 100 | 37.2 | 26,460 | 80 | | | | |
| | | | | 110 | 28.4 | 23,090 | 64 | | | | |
| | | | | 120 | 15.6 | 20,330 | 39 | | | | |
| 90' Boom length | | | | 130' Boom length | | | | | | | |
| 19 | 80.7 | 234,610* | 96 | 25 | 80.9 | 184,010 | 135 | | | | |
| 20 | 80.0 | 230,880* | 96 | 30 | 78.7 | 138,480 | 135 | | | | |
| 25 | 76.8 | 184,680 | 95 | 35 | 76.4 | 110,550 | 133 | | | | |
| 30 | 73.5 | 139,270 | 93 | 40 | 74.1 | 91,420 | 132 | | | | |
| 35 | 70.1 | 111,380 | 92 | 50 | 69.5 | 67,430 | 129 | | | | |
| 40 | 66.7 | 92,330 | 90 | 60 | 64.7 | 52,660 | 125 | | | | |
| 50 | 59.6 | 68,350 | 85 | 70 | 59.7 | 42,730 | 119 | | | | |
| 60 | 51.9 | 53,640 | 78 | 80 | 54.5 | 35,840 | 113 | | | | |
| 70 | 43.2 | 43,750 | 69 | 90 | 48.8 | 30,450 | 105 | | | | |
| 80 | 32.9 | 36,750 | 56 | 100 | 42.7 | 26,250 | 95 | | | | |
| 90 | 18.0 | 31,380 | 35 | 110 | 35.7 | 22,870 | 83 | | | | |
| | | | | 120 | 27.3 | 20,100 | 67 | | | | |
| | | | | 130 | 15.0 | 17,800 | 41 | | | | |
| 100' Boom length | | | | 140' Boom length | | | | | | | |
| 21 | 80.5 | 221,940* | 106 | 27 | 80.7 | 162,360 | 145 | | | | |
| 25 | 78.1 | 184,560 | 105 | 30 | 79.5 | 138,200 | 145 | | | | |
| 30 | 75.2 | 139,120 | 104 | 35 | 77.4 | 110,270 | 144 | | | | |
| 35 | 72.2 | 111,220 | 102 | 40 | 75.3 | 91,110 | 143 | | | | |
| 40 | 69.2 | 92,150 | 101 | 50 | 71.0 | 67,120 | 139 | | | | |
| 50 | 62.9 | 68,150 | 96 | 60 | 66.6 | 52,340 | 136 | | | | |
| 60 | 56.2 | 53,430 | 90 | 70 | 62.1 | 42,400 | 131 | | | | |
| 70 | 49.0 | 43,530 | 83 | 80 | 57.3 | 35,540 | 125 | | | | |
| 80 | 40.9 | 36,570 | 73 | 90 | 52.3 | 30,140 | 118 | | | | |
| 90 | 31.2 | 31,180 | 59 | 100 | 47.0 | 25,930 | 109 | | | | |
| 100 | 17.1 | 26,980 | 37 | 110 | 41.1 | 22,560 | 99 | | | | |
| | | | | 120 | 34.4 | 19,790 | 86 | | | | |
| | | | | 130 | 26.2 | 17,480 | 69 | | | | |
| | | | | 140 | 14.4 | 15,530 | 42 | | | | |
| 110' Boom length | | | | 150' Boom length | | | | | | | |
| 22 | 80.8 | 213,950* | 116 | 28 | 81.0 | 153,400 | 155 | | | | |
| 25 | 79.2 | 184,380 | 115 | 30 | 80.2 | 137,920 | 155 | | | | |
| 30 | 76.6 | 138,910 | 114 | 35 | 78.2 | 109,970 | 154 | | | | |
| 35 | 73.9 | 110,990 | 113 | 40 | 76.3 | 90,810 | 153 | | | | |
| 40 | 71.1 | 91,900 | 111 | 50 | 72.3 | 66,810 | 150 | | | | |
| 50 | 65.5 | 67,910 | 107 | 60 | 68.3 | 52,020 | 146 | | | | |
| 60 | 59.7 | 53,160 | 102 | 70 | 64.1 | 42,070 | 142 | | | | |
| 70 | 53.4 | 43,260 | 95 | 80 | 59.7 | 35,220 | 137 | | | | |
| 80 | 46.6 | 36,310 | 87 | 90 | 55.2 | 29,820 | 130 | | | | |
| 90 | 38.9 | 30,930 | 76 | 100 | 50.4 | 25,610 | 123 | | | | |
| 100 | 29.7 | 26,720 | 62 | 110 | 45.3 | 22,230 | 114 | | | | |
| 110 | 16.3 | 23,360 | 38 | 120 | 39.6 | 19,470 | 103 | | | | |
| | | | | 130 | 33.2 | 17,160 | 89 | | | | |
| | | | | 140 | 25.3 | 15,200 | 71 | | | | |
| | | | | 150 | 14.0 | 13,530 | 43 | | | | |

LOAD CHART

HC 165

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

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | |
|------------------|----------------------|----------------------------|--------------------------------|------------------|----------------------|----------------------------|--------------------------------|-------------|--|--|--|
| 160' Boom length | | | | 190' 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) | | | | |
| 30 | 80.8 | 137,620 | 165 | 35 | 80.7 | 108,760 | 195 | | | | |
| 35 | 79.0 | 109,670 | 164 | 40 | 79.2 | 89,520 | 194 | | | | |
| 40 | 77.2 | 90,480 | 163 | 50 | 76.1 | 65,520 | 192 | | | | |
| 50 | 73.4 | 66,480 | 160 | 60 | 73.0 | 50,660 | 189 | | | | |
| 60 | 69.7 | 51,680 | 157 | 70 | 69.8 | 40,670 | 185 | | | | |
| 70 | 65.8 | 41,720 | 153 | 80 | 66.6 | 33,900 | 181 | | | | |
| 80 | 61.8 | 34,880 | 148 | 90 | 63.2 | 28,490 | 177 | | | | |
| 90 | 57.7 | 29,490 | 142 | 100 | 59.8 | 24,280 | 171 | | | | |
| 100 | 53.3 | 25,270 | 135 | 110 | 56.3 | 20,880 | 165 | | | | |
| 110 | 48.7 | 21,890 | 127 | 120 | 52.5 | 18,110 | 158 | | | | |
| 120 | 43.8 | 19,120 | 118 | 130 | 48.6 | 15,790 | 150 | | | | |
| 130 | 38.3 | 16,810 | 106 | 140 | 44.5 | 13,830 | 140 | | | | |
| 140 | 32.1 | 14,840 | 92 | 150 | 40.0 | 12,150 | 129 | | | | |
| 150 | 24.5 | 13,180 | 74 | 160 | 35.0 | 10,690 | 116 | | | | |
| 160 | 13.5 | 11,720 | 44 | 170 | 29.4 | 9,410 | 100 | | | | |
| | | | | 180 | 22.5 | 8,300 | 80 | | | | |
| | | | | 190 | 12.4 | 7,330 | 48 | | | | |
| 170' Boom length | | | | 200' 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) | | | | |
| 32 | 80.7 | 124,500 | 175 | 36 | 80.9 | 104,020 | 205 | | | | |
| 35 | 79.6 | 109,360 | 174 | 40 | 79.8 | 89,170 | 204 | | | | |
| 40 | 77.9 | 90,150 | 173 | 50 | 76.8 | 65,180 | 202 | | | | |
| 50 | 74.4 | 66,150 | 171 | 60 | 73.9 | 50,310 | 199 | | | | |
| 60 | 70.9 | 51,330 | 168 | 70 | 70.9 | 40,310 | 196 | | | | |
| 70 | 67.3 | 41,360 | 164 | 80 | 67.8 | 33,560 | 192 | | | | |
| 80 | 63.6 | 34,560 | 159 | 90 | 64.7 | 28,150 | 188 | | | | |
| 90 | 59.8 | 29,150 | 154 | 100 | 61.5 | 23,920 | 183 | | | | |
| 100 | 55.8 | 24,930 | 148 | 110 | 58.1 | 20,520 | 177 | | | | |
| 110 | 51.6 | 21,550 | 140 | 120 | 54.7 | 17,750 | 170 | | | | |
| 120 | 47.2 | 18,780 | 132 | 130 | 51.1 | 15,430 | 163 | | | | |
| 130 | 42.4 | 16,460 | 122 | 140 | 47.3 | 13,470 | 154 | | | | |
| 140 | 37.1 | 14,500 | 110 | 150 | 43.3 | 11,780 | 144 | | | | |
| 150 | 31.1 | 12,830 | 95 | 160 | 38.9 | 10,320 | 133 | | | | |
| 160 | 23.8 | 11,370 | 76 | 170 | 34.1 | 9,050 | 119 | | | | |
| 170 | 13.1 | 10,110 | 46 | 180 | 28.6 | 7,930 | 103 | | | | |
| | | | | 190 | 21.9 | 6,940 | 82 | | | | |
| | | | | 200 | 12.1 | 6,060 | 49 | | | | |
| 180' Boom length | | | | 210' 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) | | | | |
| 33 | 80.9 | 119,010 | 185 | 38 | 80.8 | 95,740 | 214 | | | | |
| 35 | 80.2 | 109,080 | 184 | 40 | 80.3 | 88,820 | 214 | | | | |
| 40 | 78.6 | 89,860 | 184 | 50 | 77.5 | 64,820 | 212 | | | | |
| 50 | 75.3 | 65,860 | 181 | 60 | 74.7 | 49,940 | 210 | | | | |
| 60 | 72.0 | 51,030 | 178 | 70 | 71.8 | 40,390 | 207 | | | | |
| 70 | 68.6 | 41,040 | 175 | 80 | 68.9 | 33,190 | 203 | | | | |
| 80 | 65.2 | 34,260 | 170 | 90 | 65.9 | 27,770 | 199 | | | | |
| 90 | 61.6 | 28,850 | 165 | 100 | 62.9 | 23,540 | 194 | | | | |
| 100 | 57.9 | 24,630 | 160 | 110 | 59.8 | 20,160 | 189 | | | | |
| 110 | 54.1 | 21,250 | 153 | 120 | 56.6 | 17,370 | 182 | | | | |
| 120 | 50.0 | 18,470 | 145 | 130 | 53.3 | 15,050 | 175 | | | | |
| 130 | 45.8 | 16,160 | 136 | 140 | 49.8 | 13,090 | 167 | | | | |
| 140 | 41.1 | 14,190 | 126 | 150 | 46.1 | 11,400 | 158 | | | | |
| 150 | 36.0 | 12,510 | 113 | 160 | 42.2 | 9,940 | 148 | | | | |
| 160 | 30.2 | 11,060 | 98 | 170 | 38.0 | 8,660 | 136 | | | | |
| 170 | 23.1 | 9,800 | 78 | 180 | 33.3 | 7,530 | 122 | | | | |
| 180 | 12.7 | 8,690 | 47 | 190 | 27.9 | 6,540 | 105 | | | | |
| | | | | 200 | 21.4 | 5,660 | 84 | | | | |
| | | | | 210 | 11.8 | 4,880 | 50 | | | | |



LOAD CHART

HC 165

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

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | |
|------------------|----------------------|----------------------------|--------------------------------|------------------|----------------------|----------------------------|--------------------------------|-------------|--|--|--|
| 220' Boom length | | | | 250' 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) | | | | |
| 39 | 81.0 | 91,810 | 224 | 44 | 80.9 | 74,200* | 254 | | | | |
| 40 | 80.7 | 88,470 | 224 | 50 | 79.5 | 63,430 | 253 | | | | |
| 50 | 78.1 | 64,470 | 222 | 60 | 77.2 | 48,490 | 251 | | | | |
| 60 | 75.4 | 49,570 | 220 | 70 | 74.8 | 39,010 | 248 | | | | |
| 70 | 72.7 | 40,040 | 217 | 80 | 72.4 | 31,780 | 245 | | | | |
| 80 | 69.9 | 32,840 | 214 | 90 | 70.0 | 26,340 | 242 | | | | |
| 90 | 67.1 | 27,420 | 210 | 100 | 67.5 | 22,100 | 238 | | | | |
| 100 | 64.2 | 23,180 | 205 | 110 | 65.0 | 18,690 | 234 | | | | |
| 110 | 61.3 | 19,790 | 200 | 120 | 62.5 | 15,900 | 229 | | | | |
| 120 | 58.3 | 17,000 | 194 | 130 | 59.8 | 13,580 | 223 | | | | |
| 130 | 55.2 | 14,680 | 188 | 140 | 57.2 | 11,600 | 217 | | | | |
| 140 | 52.0 | 12,710 | 180 | 150 | 54.4 | 9,920 | 210 | | | | |
| 150 | 48.6 | 11,030 | 172 | 160 | 51.5 | 8,440 | 203 | | | | |
| 160 | 45.0 | 9,560 | 163 | 170 | 48.5 | 7,160 | 194 | | | | |
| 170 | 41.2 | 8,280 | 152 | 180 | 45.4 | 6,040 | 185 | | | | |
| 180 | 37.1 | 7,150 | 140 | 190 | 42.1 | 5,030 | 175 | | | | |
| 190 | 32.5 | 6,160 | 125 | 200 | 38.5 | 4,140 | 163 | | | | |
| 200 | 27.3 | 5,270 | 108 | 210 | 34.7 | 3,330 | 149 | | | | |
| 210 | 20.9 | 4,480 | 85 | 220 | 30.4 | 2,610 | 134 | | | | |
| 220 | 11.5 | 3,780 | 51 | | | | | | | | |
| 230' Boom length | | | | 260' 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) | | | | |
| 41 | 80.8 | 85,000 | 234 | 46 | 80.8 | 68,160* | 264 | | | | |
| 50 | 78.6 | 64,140 | 233 | 50 | 79.9 | 63,560 | 263 | | | | |
| 60 | 76.0 | 49,230 | 230 | 60 | 77.7 | 48,610 | 261 | | | | |
| 70 | 73.4 | 39,720 | 228 | 70 | 75.4 | 39,130 | 259 | | | | |
| 80 | 70.8 | 32,510 | 224 | 80 | 73.1 | 31,910 | 256 | | | | |
| 90 | 68.2 | 27,080 | 221 | 90 | 70.8 | 26,460 | 253 | | | | |
| 100 | 65.4 | 22,850 | 216 | 100 | 68.4 | 22,220 | 249 | | | | |
| 110 | 62.7 | 19,450 | 211 | 110 | 66.0 | 18,810 | 245 | | | | |
| 120 | 59.8 | 16,670 | 206 | 120 | 63.6 | 16,020 | 240 | | | | |
| 130 | 56.9 | 14,340 | 200 | 130 | 61.1 | 13,680 | 235 | | | | |
| 140 | 53.9 | 12,370 | 193 | 140 | 58.6 | 11,710 | 229 | | | | |
| 150 | 50.7 | 10,690 | 185 | 150 | 56.0 | 10,020 | 223 | | | | |
| 160 | 47.4 | 9,220 | 177 | 160 | 53.3 | 8,540 | 215 | | | | |
| 170 | 44.0 | 7,940 | 167 | 170 | 50.5 | 7,260 | 208 | | | | |
| 180 | 40.2 | 6,810 | 156 | 180 | 47.5 | 6,130 | 199 | | | | |
| 190 | 36.2 | 5,810 | 143 | 190 | 44.5 | 5,130 | 189 | | | | |
| 200 | 31.7 | 4,920 | 128 | 200 | 41.2 | 4,230 | 178 | | | | |
| 210 | 26.6 | 4,120 | 110 | 210 | 37.7 | 3,420 | 166 | | | | |
| 220 | 20.4 | 3,410 | 87 | 220 | 34.0 | 2,700 | 152 | | | | |
| 230 | 11.3 | 2,790 | 52 | | | | | | | | |
| 240' Boom length | | | | 270' 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) | | | | |
| 42 | 81.0 | 81,680 | 244 | 47 | 80.9 | 62,440* | 274 | | | | |
| 50 | 79.1 | 63,790 | 243 | 50 | 80.3 | 61,770* | 273 | | | | |
| 60 | 76.6 | 48,860 | 241 | 60 | 78.1 | 48,230 | 271 | | | | |
| 70 | 74.1 | 39,360 | 238 | 70 | 75.9 | 38,770 | 269 | | | | |
| 80 | 71.7 | 32,150 | 235 | 80 | 73.8 | 31,540 | 266 | | | | |
| 90 | 69.1 | 26,710 | 231 | 90 | 71.5 | 26,090 | 263 | | | | |
| 100 | 66.5 | 22,480 | 227 | 100 | 69.3 | 21,840 | 260 | | | | |
| 110 | 63.9 | 19,070 | 223 | 110 | 67.0 | 18,430 | 256 | | | | |
| 120 | 61.2 | 16,280 | 217 | 120 | 64.7 | 15,630 | 251 | | | | |
| 130 | 58.5 | 13,950 | 212 | 130 | 62.3 | 13,290 | 246 | | | | |
| 140 | 55.6 | 11,990 | 205 | 140 | 59.9 | 11,330 | 241 | | | | |
| 150 | 52.7 | 10,300 | 198 | 150 | 57.4 | 9,630 | 235 | | | | |
| 160 | 49.6 | 8,830 | 190 | 160 | 54.8 | 8,160 | 228 | | | | |
| 170 | 46.4 | 7,550 | 181 | 170 | 52.2 | 6,870 | 220 | | | | |
| 180 | 43.0 | 6,420 | 171 | 180 | 49.4 | 5,740 | 212 | | | | |
| 190 | 39.4 | 5,420 | 159 | 190 | 46.6 | 4,730 | 203 | | | | |
| 200 | 35.4 | 4,530 | 146 | 200 | 43.6 | 3,840 | 193 | | | | |
| 210 | 31.1 | 3,720 | 131 | 210 | 40.4 | 3,030 | 182 | | | | |
| 220 | 26.1 | 3,000 | 113 | | | | | | | | |

LOAD CHART

HC 165

With 77SI Offset Tip Boom and 116,400 Pound Counterweight

| 108,400 lb + 8,000 lb carbody counterweight | | | | 360° | | | | ANSI B 30.5 | | | |
|---|----------------------|----------------------------|--------------------------------|-------------------------|----------------------|----------------------------|--------------------------------|-------------|--|--|--|
| 80' 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) | | | | |
| 17 | 81.0 | 235,130* | 86 | 24 | 80.6 | 201,030* | 125 | | | | |
| 20 | 78.8 | 235,130* | 86 | 25 | 80.1 | 194,570 | 125 | | | | |
| 25 | 75.1 | 195,140 | 84 | 30 | 77.7 | 146,580 | 124 | | | | |
| 30 | 71.4 | 147,300 | 83 | 35 | 75.2 | 117,140 | 123 | | | | |
| 35 | 67.5 | 117,910 | 81 | 40 | 72.8 | 97,000 | 122 | | | | |
| 40 | 63.6 | 97,850 | 79 | 50 | 67.7 | 71,700 | 118 | | | | |
| 50 | 55.3 | 72,560 | 73 | 60 | 62.4 | 56,150 | 113 | | | | |
| 60 | 46.0 | 57,080 | 65 | 70 | 56.9 | 45,700 | 108 | | | | |
| 70 | 35.0 | 46,660 | 53 | 80 | 51.0 | 38,390 | 100 | | | | |
| 80 | 19.1 | 39,250 | 33 | 90 | 44.5 | 32,720 | 91 | | | | |
| | | | | 100 | 37.2 | 28,290 | 80 | | | | |
| | | | | 110 | 28.4 | 24,740 | 64 | | | | |
| | | | | 120 | 15.6 | 21,830 | 39 | | | | |
| 90' 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) | | | | |
| 19 | 80.7 | 234,610* | 96 | 25 | 80.9 | 192,950* | 135 | | | | |
| 20 | 80.0 | 230,880* | 96 | 30 | 78.7 | 146,390 | 135 | | | | |
| 25 | 76.8 | 195,060 | 95 | 35 | 76.4 | 116,940 | 133 | | | | |
| 30 | 73.5 | 147,180 | 93 | 40 | 74.1 | 96,780 | 132 | | | | |
| 35 | 70.1 | 117,770 | 92 | 50 | 69.5 | 71,480 | 129 | | | | |
| 40 | 66.7 | 97,690 | 90 | 60 | 64.7 | 55,920 | 125 | | | | |
| 50 | 59.6 | 72,410 | 85 | 70 | 59.7 | 45,460 | 119 | | | | |
| 60 | 51.9 | 56,900 | 78 | 80 | 54.5 | 38,180 | 113 | | | | |
| 70 | 43.2 | 46,470 | 69 | 90 | 48.8 | 32,500 | 105 | | | | |
| 80 | 32.9 | 39,100 | 56 | 100 | 42.7 | 28,080 | 95 | | | | |
| 90 | 18.0 | 33,430 | 35 | 110 | 35.7 | 24,520 | 83 | | | | |
| | | | | 120 | 27.3 | 21,600 | 67 | | | | |
| | | | | 130 | 15.0 | 19,170 | 41 | | | | |
| 100' Boom length | | | | 140' 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) | | | | |
| 21 | 80.5 | 221,940* | 106 | 27 | 80.7 | 171,590 | 145 | | | | |
| 25 | 78.1 | 194,940 | 105 | 30 | 79.5 | 146,110 | 145 | | | | |
| 30 | 75.2 | 147,040 | 104 | 35 | 77.4 | 116,660 | 144 | | | | |
| 35 | 72.2 | 117,610 | 102 | 40 | 75.3 | 96,470 | 143 | | | | |
| 40 | 69.2 | 97,510 | 101 | 50 | 71.0 | 71,180 | 139 | | | | |
| 50 | 62.9 | 72,210 | 96 | 60 | 66.6 | 55,600 | 136 | | | | |
| 60 | 56.2 | 56,690 | 90 | 70 | 62.1 | 45,130 | 131 | | | | |
| 70 | 49.0 | 46,260 | 83 | 80 | 57.3 | 37,880 | 125 | | | | |
| 80 | 40.9 | 38,910 | 73 | 90 | 52.3 | 32,190 | 118 | | | | |
| 90 | 31.2 | 33,240 | 59 | 100 | 47.0 | 27,760 | 109 | | | | |
| 100 | 17.1 | 28,810 | 37 | 110 | 41.1 | 24,200 | 99 | | | | |
| | | | | 120 | 34.4 | 21,290 | 86 | | | | |
| | | | | 130 | 26.2 | 18,850 | 69 | | | | |
| | | | | 140 | 14.4 | 16,800 | 42 | | | | |
| 110' Boom length | | | | 150' 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) | | | | |
| 22 | 80.8 | 213,950* | 116 | 28 | 81.0 | 161,800 | 155 | | | | |
| 25 | 79.2 | 194,760 | 115 | 30 | 80.2 | 145,830 | 155 | | | | |
| 30 | 76.6 | 146,820 | 114 | 35 | 78.2 | 116,360 | 154 | | | | |
| 35 | 73.9 | 117,380 | 113 | 40 | 76.3 | 96,170 | 153 | | | | |
| 40 | 71.1 | 97,260 | 111 | 50 | 72.3 | 70,870 | 150 | | | | |
| 50 | 65.5 | 71,960 | 107 | 60 | 68.3 | 55,280 | 146 | | | | |
| 60 | 59.7 | 56,420 | 102 | 70 | 64.1 | 44,800 | 142 | | | | |
| 70 | 53.4 | 45,980 | 95 | 80 | 59.7 | 37,570 | 137 | | | | |
| 80 | 46.6 | 38,650 | 87 | 90 | 55.2 | 31,880 | 130 | | | | |
| 90 | 38.9 | 32,980 | 76 | 100 | 50.4 | 27,440 | 123 | | | | |
| 100 | 29.7 | 28,550 | 62 | 110 | 45.3 | 23,880 | 114 | | | | |
| 110 | 16.3 | 25,000 | 38 | 120 | 39.6 | 20,970 | 103 | | | | |
| | | | | 130 | 33.2 | 18,530 | 89 | | | | |
| | | | | 140 | 25.3 | 16,470 | 71 | | | | |
| | | | | 150 | 14.0 | 14,710 | 43 | | | | |



LOAD CHART

HC 165

With 77SI Offset Tip Boom and 116,400 Pound Counterweight

| 108,400 lb + 8,000 lb carbody counterweight | | | | 360° | | | | ANSI B 30.5 | | | |
|---|----------------------|----------------------------|--------------------------------|-------------------------|----------------------|----------------------------|--------------------------------|---------------|----------------------|----------------------------|--------------------------------|
| 160' Boom length | | | | 190' 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) | Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) |
| 30 | 80.8 | 145,530 | 165 | 35 | 80.7 | 115,150 | 195 | | | | |
| 35 | 79.0 | 116,060 | 164 | 40 | 79.2 | 94,880 | 194 | | | | |
| 40 | 77.2 | 95,840 | 163 | 50 | 76.1 | 69,580 | 192 | | | | |
| 50 | 73.4 | 70,540 | 160 | 60 | 73.0 | 53,930 | 189 | | | | |
| 60 | 69.7 | 54,940 | 157 | 70 | 69.8 | 43,400 | 185 | | | | |
| 70 | 65.8 | 44,450 | 153 | 80 | 66.6 | 36,250 | 181 | | | | |
| 80 | 61.8 | 37,230 | 148 | 90 | 63.2 | 30,540 | 177 | | | | |
| 90 | 57.7 | 31,540 | 142 | 100 | 59.8 | 26,100 | 171 | | | | |
| 100 | 53.3 | 27,100 | 135 | 110 | 56.3 | 22,530 | 165 | | | | |
| 110 | 48.7 | 23,540 | 127 | 120 | 52.5 | 19,610 | 158 | | | | |
| 120 | 43.8 | 20,610 | 118 | 130 | 48.6 | 17,170 | 150 | | | | |
| 130 | 38.3 | 18,180 | 106 | 140 | 44.5 | 15,100 | 140 | | | | |
| 140 | 32.1 | 16,110 | 92 | 150 | 40.0 | 13,330 | 129 | | | | |
| 150 | 24.5 | 14,350 | 74 | 160 | 35.0 | 11,790 | 116 | | | | |
| 160 | 13.5 | 12,830 | 44 | 170 | 29.4 | 10,440 | 100 | | | | |
| | | | | 180 | 22.5 | 9,270 | 80 | | | | |
| | | | | 190 | 12.4 | 8,240 | 48 | | | | |
| 170' Boom length | | | | 200' Boom length | | | | | | | |
| 32 | 80.7 | 131,730 | 175 | 36 | 80.9 | 110,170 | 205 | | | | |
| 35 | 79.6 | 115,750 | 174 | 40 | 79.8 | 94,530 | 204 | | | | |
| 40 | 77.9 | 95,510 | 173 | 50 | 76.8 | 69,230 | 202 | | | | |
| 50 | 74.4 | 70,210 | 171 | 60 | 73.9 | 53,570 | 199 | | | | |
| 60 | 70.9 | 54,590 | 168 | 70 | 70.9 | 43,030 | 196 | | | | |
| 70 | 67.3 | 44,080 | 164 | 80 | 67.8 | 35,900 | 192 | | | | |
| 80 | 63.6 | 36,900 | 159 | 90 | 64.7 | 30,200 | 188 | | | | |
| 90 | 59.8 | 31,200 | 154 | 100 | 61.5 | 25,750 | 183 | | | | |
| 100 | 55.8 | 26,760 | 148 | 110 | 58.1 | 22,170 | 177 | | | | |
| 110 | 51.6 | 23,200 | 140 | 120 | 54.7 | 19,250 | 170 | | | | |
| 120 | 47.2 | 20,270 | 132 | 130 | 51.1 | 16,810 | 163 | | | | |
| 130 | 42.4 | 17,830 | 122 | 140 | 47.3 | 14,740 | 154 | | | | |
| 140 | 37.1 | 15,770 | 110 | 150 | 43.3 | 12,960 | 144 | | | | |
| 150 | 31.1 | 14,000 | 95 | 160 | 38.9 | 11,430 | 133 | | | | |
| 160 | 23.8 | 12,470 | 76 | 170 | 34.1 | 10,080 | 119 | | | | |
| 170 | 13.1 | 11,140 | 46 | 180 | 28.6 | 8,900 | 103 | | | | |
| | | | | 190 | 21.9 | 7,860 | 82 | | | | |
| | | | | 200 | 12.1 | 6,930 | 49 | | | | |
| 180' Boom length | | | | 210' Boom length | | | | | | | |
| 33 | 80.9 | 125,530 | 185 | 38 | 80.8 | 101,470 | 214 | | | | |
| 35 | 80.2 | 115,470 | 184 | 40 | 80.3 | 94,180 | 214 | | | | |
| 40 | 78.6 | 95,220 | 184 | 50 | 77.5 | 68,880 | 212 | | | | |
| 50 | 75.3 | 69,910 | 181 | 60 | 74.7 | 53,200 | 210 | | | | |
| 60 | 72.0 | 54,290 | 178 | 70 | 71.8 | 42,650 | 207 | | | | |
| 70 | 68.6 | 43,770 | 175 | 80 | 68.9 | 35,540 | 203 | | | | |
| 80 | 65.2 | 36,600 | 170 | 90 | 65.9 | 29,830 | 199 | | | | |
| 90 | 61.6 | 30,900 | 165 | 100 | 62.9 | 25,370 | 194 | | | | |
| 100 | 57.9 | 26,460 | 160 | 110 | 59.8 | 21,800 | 189 | | | | |
| 110 | 54.1 | 22,900 | 153 | 120 | 56.6 | 18,870 | 182 | | | | |
| 120 | 50.0 | 19,970 | 145 | 130 | 53.3 | 16,430 | 175 | | | | |
| 130 | 45.8 | 17,530 | 136 | 140 | 49.8 | 14,360 | 167 | | | | |
| 140 | 41.1 | 15,460 | 126 | 150 | 46.1 | 12,580 | 158 | | | | |
| 150 | 36.0 | 13,690 | 113 | 160 | 42.2 | 11,040 | 148 | | | | |
| 160 | 30.2 | 12,160 | 98 | 170 | 38.0 | 9,690 | 136 | | | | |
| 170 | 23.1 | 10,830 | 78 | 180 | 33.3 | 8,510 | 122 | | | | |
| 180 | 12.7 | 9,660 | 47 | 190 | 27.9 | 7,460 | 105 | | | | |
| | | | | 200 | 21.4 | 6,530 | 84 | | | | |
| | | | | 210 | 11.8 | 5,710 | 50 | | | | |

LOAD CHART

HC 165

With 77SI Offset Tip Boom and 116,400 Pound Counterweight

| 108,400 lb + 8,000 lb carbody counterweight | | | | 360° | ANSI B 30.5 | | |
|---|----------------------|----------------------------|--------------------------------|------------------|----------------------|----------|-----|
| 220' Boom length | | | | 250' Boom length | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | Radius (Feet) | Boom Angle (Degrees) | | |
| 39 | 81.0 | 97,360 | 224 | 44 | 80.9 | 74,200 * | 254 |
| 40 | 80.7 | 93,830 | 224 | 50 | 79.5 | 67,490 | 253 |
| 50 | 78.1 | 68,520 | 222 | 60 | 77.2 | 51,750 | 251 |
| 60 | 75.4 | 52,830 | 220 | 70 | 74.8 | 41,170 | 248 |
| 70 | 72.7 | 42,290 | 217 | 80 | 72.4 | 34,120 | 245 |
| 80 | 69.9 | 35,180 | 214 | 90 | 70.0 | 28,400 | 242 |
| 90 | 67.1 | 29,470 | 210 | 100 | 67.5 | 23,930 | 238 |
| 100 | 64.2 | 25,010 | 205 | 110 | 65.0 | 20,340 | 234 |
| 110 | 61.3 | 21,430 | 200 | 120 | 62.5 | 17,400 | 229 |
| 120 | 58.3 | 18,500 | 194 | 130 | 59.8 | 14,960 | 223 |
| 130 | 55.2 | 16,050 | 188 | 140 | 57.2 | 12,870 | 217 |
| 140 | 52.0 | 13,980 | 180 | 150 | 54.4 | 11,100 | 210 |
| 150 | 48.6 | 12,210 | 172 | 160 | 51.5 | 9,540 | 203 |
| 160 | 45.0 | 10,660 | 163 | 170 | 48.5 | 8,190 | 194 |
| 170 | 41.2 | 9,310 | 152 | 180 | 45.4 | 7,010 | 185 |
| 180 | 37.1 | 8,130 | 140 | 190 | 42.1 | 5,950 | 175 |
| 190 | 32.5 | 7,080 | 125 | 200 | 38.5 | 5,010 | 163 |
| 200 | 27.3 | 6,140 | 108 | 210 | 34.7 | 4,160 | 149 |
| 210 | 20.9 | 5,310 | 85 | 220 | 30.4 | 3,400 | 134 |
| 220 | 11.5 | 4,570 | 51 | 230 | 25.5 | 2,710 | 115 |
| 230' Boom length | | | | 260' Boom length | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | Radius (Feet) | Boom Angle (Degrees) | | |
| 41 | 80.8 | 90,190 | 234 | 46 | 80.8 | 68,160 * | 264 |
| 50 | 78.6 | 68,190 | 233 | 50 | 79.9 | 67,250 * | 263 |
| 60 | 76.0 | 52,490 | 230 | 60 | 77.7 | 51,870 | 261 |
| 70 | 73.4 | 41,940 | 228 | 70 | 75.4 | 41,280 | 259 |
| 80 | 70.8 | 34,850 | 224 | 80 | 73.1 | 34,250 | 256 |
| 90 | 68.2 | 29,130 | 221 | 90 | 70.8 | 28,520 | 253 |
| 100 | 65.4 | 24,670 | 216 | 100 | 68.4 | 24,050 | 249 |
| 110 | 62.7 | 21,090 | 211 | 110 | 66.0 | 20,460 | 245 |
| 120 | 59.8 | 18,170 | 206 | 120 | 63.6 | 17,510 | 240 |
| 130 | 56.9 | 15,710 | 200 | 130 | 61.1 | 15,060 | 235 |
| 140 | 53.9 | 13,640 | 193 | 140 | 58.6 | 12,980 | 229 |
| 150 | 50.7 | 11,870 | 185 | 150 | 56.0 | 11,200 | 223 |
| 160 | 47.4 | 10,320 | 177 | 160 | 53.3 | 9,640 | 215 |
| 170 | 44.0 | 8,970 | 167 | 170 | 50.5 | 8,290 | 208 |
| 180 | 40.2 | 7,780 | 156 | 180 | 47.5 | 7,100 | 199 |
| 190 | 36.2 | 6,730 | 143 | 190 | 44.5 | 6,050 | 189 |
| 200 | 31.7 | 5,790 | 128 | 200 | 41.2 | 5,100 | 178 |
| 210 | 26.6 | 4,950 | 110 | 210 | 37.7 | 4,250 | 166 |
| 220 | 20.4 | 4,200 | 87 | 220 | 34.0 | 3,490 | 152 |
| 230 | 11.3 | 3,540 | 52 | 230 | 29.8 | 2,800 | 136 |
| 240' Boom length | | | | 270' Boom length | | | |
| Radius (Feet) | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | Radius (Feet) | Boom Angle (Degrees) | | |
| 42 | 81.0 | 83,410 * | 244 | 47 | 80.9 | 62,440 * | 274 |
| 50 | 79.1 | 67,840 | 243 | 50 | 80.3 | 61,770 * | 273 |
| 60 | 76.6 | 52,120 | 241 | 60 | 78.1 | 51,490 | 271 |
| 70 | 74.1 | 41,550 | 238 | 70 | 75.9 | 40,890 | 269 |
| 80 | 71.7 | 34,490 | 235 | 80 | 73.8 | 33,880 | 266 |
| 90 | 69.1 | 28,770 | 231 | 90 | 71.5 | 28,140 | 263 |
| 100 | 66.5 | 24,300 | 227 | 100 | 69.3 | 23,660 | 260 |
| 110 | 63.9 | 20,720 | 223 | 110 | 67.0 | 20,070 | 256 |
| 120 | 61.2 | 17,780 | 217 | 120 | 64.7 | 17,130 | 251 |
| 130 | 58.5 | 15,330 | 212 | 130 | 62.3 | 14,670 | 246 |
| 140 | 55.6 | 13,260 | 205 | 140 | 59.9 | 12,600 | 241 |
| 150 | 52.7 | 11,480 | 198 | 150 | 57.4 | 10,810 | 235 |
| 160 | 49.6 | 9,930 | 190 | 160 | 54.8 | 9,260 | 228 |
| 170 | 46.4 | 8,590 | 181 | 170 | 52.2 | 7,900 | 220 |
| 180 | 43.0 | 7,390 | 171 | 180 | 49.4 | 6,710 | 212 |
| 190 | 39.4 | 6,340 | 159 | 190 | 46.6 | 5,650 | 203 |
| 200 | 35.4 | 5,400 | 146 | 200 | 43.6 | 4,710 | 193 |
| 210 | 31.1 | 4,550 | 131 | 210 | 40.4 | 3,850 | 182 |
| 220 | 26.1 | 3,790 | 113 | 220 | 37.0 | 3,090 | 170 |
| 230 | 20.0 | 3,110 | 89 | | | | |

Warning

This rating chart is invalid if the crane has been modified or altered by use of other than GENUINE AMERICAN PARTS as such modifications or alterations may affect its capacity or safe operation. See American Crane Corporation Service Bulliten #259.

Ratings in this chart are in POUNDS and do not exceed the percentage of tipping specified for this crane by ANSI B30.5. All ratings require that the crane be standing level on a firm uniformly supporting surface.

Do not lift loads in excess of those shown on this chart. Lifting loads in excess of those shown or operation not in accordance with good operating practice, including limitations shown on page 3499 of Operator's Manual, can cause tipping, structural damage or catastrophic failure.

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

„RADIUS IN FEET“ is the horizontal distance at ground level from the crane centerline of rotation to a vertical line through the center of gravity of the suspended load.

When using the main boom fall with jib in place, the main fall ratings must be reduced by the jib effective weight shown on the jib rating chart plus twice the weight of all suspended blocks, slings, rope, etc., at the jib fall. See Appendix A.

When using the main boom fall with boom tip extension in place, the main fall ratings must be reduced by the weight of the boom tip extension plus twice the weight of all suspended blocks, slings, rope, etc., at the boom tip extension fall. See Appendix A.

Blocks, slings, buckets and other load carrying devices are considered part of the load. The weight of standard hoisting ropes for the rating at a given radius has been calculated as part of the boom point load and need not be considered in determining net allowable loads. See Appendix A.

This chart was developed exclusively for use with a boom only. Under no circumstances are these ratings to be interpreted for use with a jib. Ratings shown on this chart make no allowance for such factors as out of plumb loads, wind, poor soil conditions, improper inflation of rubber tires and dynamic effects due to excessive operating speeds. The user (operator) must exercise judgement to make allowance for these conditions. See page 3499 of Operator's Manual for detailed information.

No account is taken of the wind force on the load. This effect, which can be substantial for loads with large surface areas, must be considered by the user. In any wind it is strongly recommended that taglines be used to control the load.

MAST HOIST LINE is 14 parts of 7/8 inch diameter EIPS wire rope with a minimum breaking strength of 79,600 pound.

PENDANT SUSPENSION LINE is 4 parts of 1.375 inch diameter MONOLAY wire rope with a minimum breaking strength of 208,000 pound.

MAIN LOAD LINE – 1.125 inch diameter EIPS wire rope with a minimum breaking strength of 130,000 pound.

ALTERNATE LOAD LINE (ROTATION RESISTANT) – 1.125 inch diameter BRIDON ENDURANCE DYFORM 34LR Grade 2160 wire rope with a minimum breaking strength of 167,200 pound.

ERECTION

Erection „OVER THE END“ is with the boom over the idler end with idler tumblers blocked (See operator's manual for blocking instructions). Erection „OVER THE SIDE“ is with the boom 90° to the sideframes and with the side frames extended. Blocks, slings and other load carrying devices must be on the ground during erection.

| 77SI OFFSET TIP BOOM MAXIMUM BOOM & JIB SELF-ERECTION DATA | | | | |
|---|------------------|-----------------|------------------|-----------------|
| | OVER THE END | | OVER THE SIDE | |
| | BOOM LENGTH (FT) | JIB LENGTH (FT) | BOOM LENGTH (FT) | JIB LENGTH (FT) |
| #16HL JIB | 270 | 0 | 240 | 0 |
| | 260 | 0 | 230 | 60 |
| | 250 | 60 | 220 | 80 |
| | 240 | 80 | | |

| LOAD HOISTING INFORMATION - 1.125 inch diameter EIPS wire rope | | | |
|--|-----------------------|----------------------------------|---------------|
| MAXIMUM LIFTING CAPACITY - LBS. | MINIMUM PARTS OF LINE | MAXIMUM HOISTING DISTANCE - FEET | |
| | | MAIN - (FRONT) | AUX. - (REAR) |
| 235,130 | 7 | 187 | 187 |
| 222,840 | 6 | 218 | 218 |
| 185,700 | 5 | 262 | 262 |
| 148,560 | 4 | 328 | 328 |
| 111,420 | 3 | 437 | 437 |
| 74,280 | 2 | 656 | 656 |
| 37,140 | 1 | 1,312 | 1,312 |

| LOAD HOISTING INFORMATION (ROTATION RESISTANT LOAD LINE) 1.125 inch diameter BRIDON ENDURANCE DYFORM 34LR Grade 2160 wire rope | | | |
|--|-----------------------|----------------------------------|---------------|
| MAXIMUM LIFTING CAPACITY - LBS. | MINIMUM PARTS OF LINE | MAXIMUM HOISTING DISTANCE - FEET | |
| | | MAIN - (FRONT) | AUX. - (REAR) |
| 234,080 | 7 | 187 | 187 |
| 200,640 | 6 | 218 | 218 |
| 167,200 | 5 | 262 | 262 |
| 133,760 | 4 | 328 | 328 |
| 100,320 | 3 | 437 | 437 |
| 66,880 | 2 | 656 | 656 |
| 33,440 | 1 | 1,312 | 1,312 |

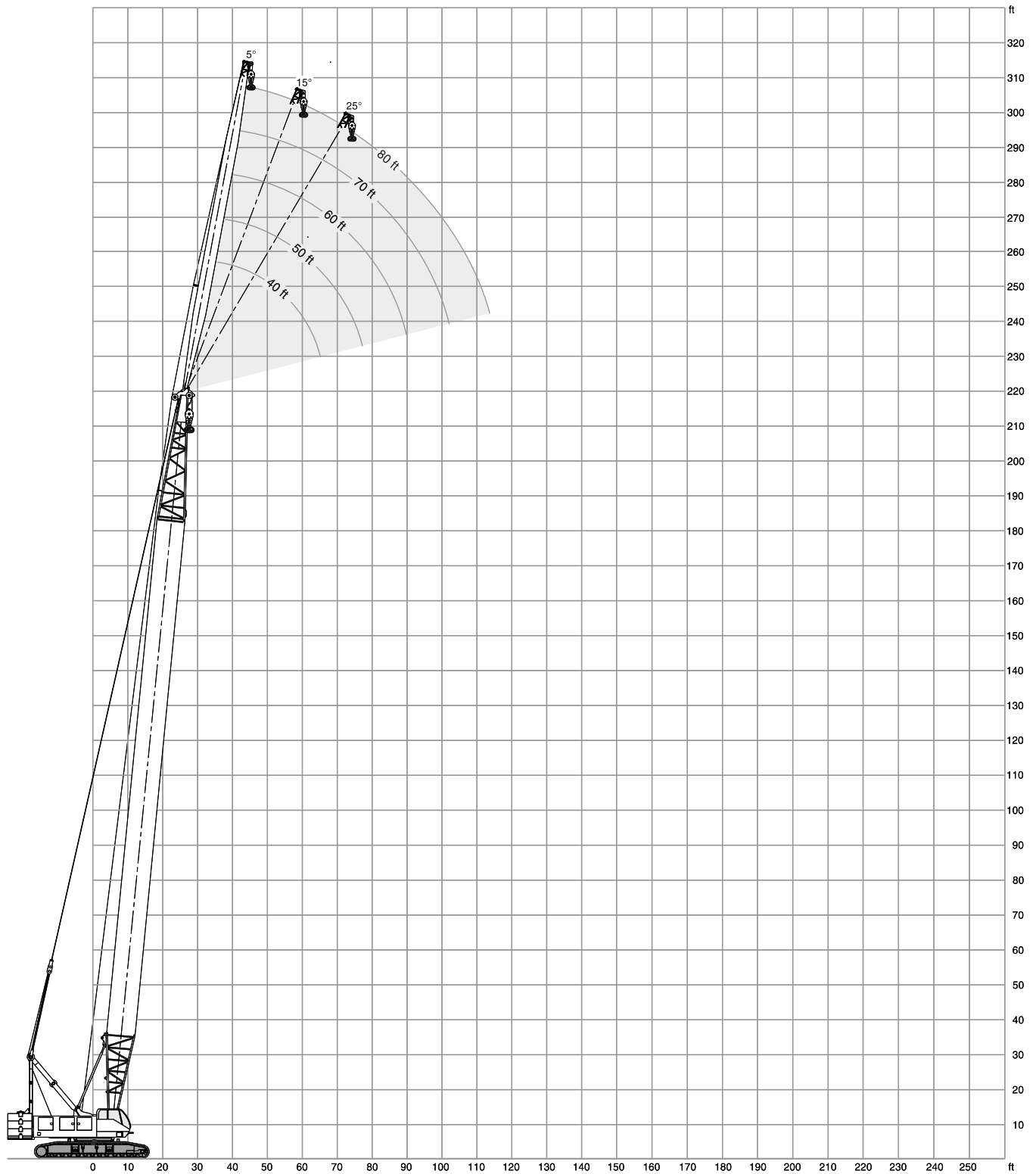
Note: The Single Sheave Boom Point Extension is required to reeve 7 parts of line. The weight of the Single Sheave Boom Point Extension is 590 Pounds.

| 77SI OFFSET TIP BOOM COMPOSITION CHART | | | | | | | |
|---|--------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|---------------------------------|------------------------------------|
| BOOM LENGTH (METERS) | BOOM LENGTH (FEET) | BOOM SECTIONS | | | | | |
| | | 9.1 M 30' 77SI INNER | 3.0 M 10' 77S CENTER | 6.1 M 20' 77S CENTER | 15.2 M 50' 77S CENTER | 5.9 M 19.5' 77HL OUTER | 9.1 M 30' 77LA OFFSET TIP |
| 24.4 M | 80 | 1 | 0 | 0 | 0 | 1 | 1 |
| 27.4 M | 90 | 1 | 1 | 0 | 0 | 1 | 1 |
| 30.5 M | 100 | 1 | 0 | 1 | 0 | 1 | 1 |
| 33.5 M | 110 | 1 | 1 | 1 | 0 | 1 | 1 |
| 36.6 M | 120 | 1 | 0 | 2 | 0 | 1 | 1 |
| 39.6 M | 130 | 1 | 0 | 0 | 1 | 1 | 1 |
| 42.7 M | 140 | 1 | 1 | 0 | 1 | 1 | 1 |
| 45.7 M | 150 | 1 | 0 | 1 | 1 | 1 | 1 |
| 48.8 M | 160 | 1 | 1 | 1 | 1 | 1 | 1 |
| 51.8 M | 170 | 1 | 0 | 2 | 1 | 1 | 1 |
| 54.9 M | 180 | 1 | 0 | 0 | 2 | 1 | 1 |
| 57.9 M | 190 | 1 | 1 | 0 | 2 | 1 | 1 |
| 61.0 M | 200 | 1 | 0 | 1 | 2 | 1 | 1 |
| 64.0 M | 210 | 1 | 1 | 1 | 2 | 1 | 1 |
| 67.1 M | 220 | 1 | 0 | 2 | 2 | 1 | 1 |
| 70.1 M | 230 | 1 | 0 | 0 | 3 | 1 | 1 |
| 73.2 M | 240 | 1 | 1 | 0 | 3 | 1 | 1 |
| 76.2 M | 250 | 1 | 0 | 1 | 3 | 1 | 1 |
| 79.2 M | 260 | 1 | 1 | 1 | 3 | 1 | 1 |
| 82.3 M | 270 | 1 | 0 | 2 | 3 | 1 | 1 |

RANGE DIAGRAM

HC 165

77SI Hammerhead Tip Boom, #16HL Jib



LOAD CHART

HC 165

With 77SI Hammerhead Tip Boom and 102,000 Pound Upper Counterweight #16HL Jib

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | | | | | |
|----------------|-------------------|---------------------------|-------------------------|----------------------------|-------------------------|----------------------------|-------------------------|-------------|-------------------|---------------------------|-------------------------|----------------------------|-------------------------|----------------------------|-------------------------|
| 40' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 32,000* Rating (Pounds) | 15.0 Deg offset Boom Angle | 32,000* Rating (Pounds) | 25.0 Deg offset Boom Angle | 32,000* Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 32,000* Rating (Pounds) | 15.0 Deg offset Boom Angle | 32,000* Rating (Pounds) | 25.0 Deg offset Boom Angle | 32,000* Rating (Pounds) |
| 100' | 26 | 82.8 | 32,000* | - | - | - | - | 140' | 31 | 82.8 | 32,000* | - | - | - | - |
| | 30 | 81.2 | 32,000* | - | - | - | - | | 35 | 81.5 | 32,000* | - | - | - | - |
| | 35 | 79.1 | 32,000* | 81.8 | 32,000* | - | - | | 40 | 79.9 | 32,000* | 82.0 | 32,000* | - | - |
| | 40 | 77.0 | 32,000* | 79.7 | 32,000* | 82.3 | 32,000* | | 50 | 76.7 | 32,000* | 78.8 | 32,000* | 80.8 | 32,000* |
| | 50 | 72.8 | 32,000* | 75.5 | 32,000* | 78.0 | 31,870* | | 60 | 73.4 | 32,000* | 75.5 | 32,000* | 77.4 | 31,230* |
| | 60 | 68.5 | 32,000* | 71.2 | 32,000* | 73.6 | 28,630* | | 70 | 70.1 | 32,000* | 72.2 | 32,000* | 74.1 | 28,760* |
| | 70 | 64.1 | 32,000* | 66.7 | 31,970* | 69.1 | 25,980* | | 80 | 66.7 | 32,000* | 68.7 | 32,000* | 70.6 | 26,630* |
| | 80 | 59.4 | 32,000* | 62.0 | 28,980* | 64.3 | 23,890* | | 90 | 63.2 | 28,700 | 65.2 | 28,710 | 67.0 | 24,870* |
| | 90 | 54.6 | 30,460 | 57.1 | 26,510* | 59.3 | 22,270* | | 100 | 59.6 | 24,510 | 61.6 | 24,520 | 63.3 | 23,370* |
| | 100 | 49.3 | 26,280 | 51.8 | 24,550* | 53.9 | 20,840* | | 110 | 55.8 | 21,150 | 57.8 | 21,160 | 59.5 | 21,170 |
| 110' | 27 | 82.9 | 32,000* | - | - | - | - | 150' | 32 | 82.9 | 32,000* | - | - | - | - |
| | 30 | 81.7 | 32,000* | - | - | - | - | | 35 | 82.0 | 32,000* | - | - | - | - |
| | 35 | 79.8 | 32,000* | 82.4 | 32,000* | - | - | | 40 | 80.5 | 32,000* | 82.5 | 32,000* | - | - |
| | 40 | 77.9 | 32,000* | 80.4 | 32,000* | 82.8 | 32,000* | | 50 | 77.4 | 32,000* | 79.4 | 32,000* | 81.3 | 32,000* |
| | 50 | 74.0 | 32,000* | 76.5 | 32,000* | 78.9 | 32,000* | | 60 | 74.3 | 32,000* | 76.3 | 32,000* | 78.1 | 31,780* |
| | 60 | 70.0 | 32,000* | 72.5 | 32,000* | 74.8 | 29,370* | | 70 | 71.2 | 32,000* | 73.1 | 32,000* | 74.9 | 29,350* |
| | 70 | 65.9 | 32,000* | 68.4 | 32,000* | 70.6 | 26,830* | | 80 | 68.0 | 32,000* | 69.9 | 32,000* | 71.7 | 27,250* |
| | 80 | 61.7 | 32,000* | 64.1 | 30,190* | 66.3 | 24,630* | | 90 | 64.7 | 28,310 | 66.6 | 28,320 | 68.3 | 25,450* |
| | 90 | 57.2 | 30,010 | 59.6 | 27,680* | 61.7 | 22,970* | | 100 | 61.3 | 24,120 | 63.2 | 24,120 | 64.9 | 23,970* |
| | 100 | 52.6 | 25,830 | 54.9 | 25,620* | 56.9 | 21,490* | | 110 | 57.8 | 20,760 | 59.7 | 20,760 | 61.3 | 20,770 |
| 110 | 47.5 | 22,480 | 49.8 | 22,490 | 51.7 | 20,330* | 120 | 54.2 | 18,010 | 56.0 | 18,010 | 57.6 | 18,030 | | |
| 120' | 28 | 83.0 | 32,000* | - | - | - | - | 130 | 50.4 | 15,730 | 52.2 | 15,730 | 53.7 | 15,740 | |
| | 30 | 82.3 | 32,000* | - | - | - | - | 140 | 46.3 | 13,790 | 48.1 | 13,800 | 49.5 | 13,810 | |
| | 35 | 80.5 | 32,000* | 82.8 | 32,000* | - | - | 150 | 41.9 | 12,140 | 43.7 | 12,150 | 45.0 | 12,160 | |
| | 40 | 78.7 | 32,000* | 81.0 | 32,000* | - | - | 160' | 33 | 82.9 | 32,000* | - | - | - | - |
| | 50 | 75.0 | 32,000* | 77.4 | 32,000* | 79.6 | 32,000* | | 35 | 82.4 | 32,000* | - | - | - | - |
| | 60 | 71.3 | 32,000* | 73.6 | 32,000* | 75.8 | 30,060* | | 40 | 80.9 | 32,000* | 82.8 | 32,000* | - | - |
| | 70 | 67.5 | 32,000* | 69.8 | 32,000* | 71.9 | 27,510* | | 50 | 78.0 | 32,000* | 79.9 | 32,000* | 81.7 | 32,000* |
| | 80 | 63.6 | 32,000* | 65.9 | 31,210* | 67.9 | 25,410* | | 60 | 75.1 | 32,000* | 77.0 | 32,000* | 78.8 | 32,000* |
| | 90 | 59.5 | 29,580 | 61.8 | 28,740* | 63.8 | 23,590* | | 70 | 72.1 | 32,000* | 74.0 | 32,000* | 75.7 | 29,780* |
| | 100 | 55.3 | 25,390 | 57.5 | 25,400 | 59.4 | 22,190* | | 80 | 69.1 | 32,000* | 71.0 | 32,000* | 72.7 | 27,800* |
| 110 | 50.8 | 22,050 | 52.9 | 22,060 | 54.8 | 20,950* | 90 | | 66.0 | 27,870 | 67.9 | 27,880 | 69.5 | 26,000* | |
| 120 | 45.9 | 19,300 | 48.1 | 19,310 | 49.8 | 19,320 | 100 | | 62.9 | 23,670 | 64.7 | 23,680 | 66.3 | 23,690 | |
| 130' | 30 | 82.7 | 32,000* | - | - | - | - | | 110 | 59.6 | 20,310 | 61.4 | 20,320 | 63.0 | 20,330 |
| | 35 | 81.0 | 32,000* | - | - | - | - | 120 | 56.2 | 17,560 | 58.0 | 17,570 | 59.5 | 17,580 | |
| | 40 | 79.3 | 32,000* | 81.6 | 32,000* | - | - | 130 | 52.7 | 15,280 | 54.4 | 15,280 | 55.9 | 15,290 | |
| | 50 | 75.9 | 32,000* | 78.1 | 32,000* | 80.2 | 32,000* | 140 | 49.0 | 13,340 | 50.7 | 13,340 | 52.1 | 13,350 | |
| | 60 | 72.4 | 32,000* | 74.6 | 32,000* | 76.7 | 30,720* | 150 | 45.1 | 11,690 | 46.7 | 11,700 | 48.1 | 11,710 | |
| | 70 | 68.9 | 32,000* | 71.1 | 32,000* | 73.1 | 28,150* | 160 | 40.8 | 10,260 | 42.4 | 10,270 | 43.7 | 10,280 | |
| | 80 | 65.2 | 32,000* | 67.4 | 32,000* | 69.3 | 26,040* | | | | | | | | |
| | 90 | 61.5 | 29,140 | 63.6 | 29,140 | 65.5 | 24,230* | | | | | | | | |
| | 100 | 57.6 | 24,950 | 59.7 | 24,950 | 61.5 | 22,810* | | | | | | | | |
| | 110 | 53.5 | 21,590 | 55.5 | 21,600 | 57.3 | 21,540* | | | | | | | | |
| 120 | 49.1 | 18,850 | 51.2 | 18,860 | 52.8 | 18,870 | | | | | | | | | |
| 130 | 44.5 | 16,580 | 46.5 | 16,580 | 48.0 | 16,590 | | | | | | | | | |

LOAD CHART

HC 165

With 77SI Hammerhead Tip Boom and 102,000 Pound Upper Counterweight #16HL Jib

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | | | | | |
|----------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|-------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|
| 40' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | Rating (Pounds) | 15.0 Deg offset Boom Angle | Rating (Pounds) | 25.0 Deg offset Boom Angle | Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | Rating (Pounds) | 15.0 Deg offset Boom Angle | Rating (Pounds) | 25.0 Deg offset Boom Angle | Rating (Pounds) |
| 170' | 34 | 83.0 | 32,000* | - | - | - | - | 200' | 38 | 82.9 | 32,000* | - | - | - | - |
| | 35 | 82.7 | 32,000* | - | - | - | - | | 40 | 82.4 | 32,000* | - | - | - | - |
| | 40 | 81.4 | 32,000* | - | - | - | - | | 50 | 80.0 | 32,000* | 81.6 | 32,000* | - | - |
| | 50 | 78.6 | 32,000* | 80.4 | 32,000* | 82.1 | 32,000* | | 60 | 77.6 | 32,000* | 79.2 | 32,000* | 80.7 | 32,000* |
| | 60 | 75.8 | 32,000* | 77.6 | 32,000* | 79.3 | 32,000* | | 70 | 75.2 | 32,000* | 76.7 | 32,000* | 78.2 | 31,590* |
| | 70 | 73.0 | 32,000* | 74.8 | 32,000* | 76.4 | 30,390* | | 80 | 72.7 | 31,570 | 74.3 | 31,580 | 75.7 | 29,630* |
| | 80 | 70.2 | 32,000* | 71.9 | 32,000* | 73.5 | 28,310* | | 90 | 70.2 | 26,180 | 71.7 | 26,180 | 73.2 | 26,190 |
| | 90 | 67.2 | 27,440 | 69.0 | 27,440 | 70.6 | 26,500* | | 100 | 67.7 | 21,970 | 69.2 | 21,970 | 70.6 | 21,980 |
| | 100 | 64.3 | 23,240 | 66.0 | 23,250 | 67.5 | 23,260 | | 110 | 65.1 | 18,600 | 66.6 | 18,600 | 67.9 | 18,610 |
| | 110 | 61.2 | 19,880 | 62.9 | 19,880 | 64.4 | 19,890 | | 120 | 62.4 | 15,830 | 63.9 | 15,840 | 65.2 | 15,850 |
| | 120 | 58.0 | 17,120 | 59.7 | 17,130 | 61.2 | 17,140 | | 130 | 59.7 | 13,530 | 61.2 | 13,530 | 62.5 | 13,540 |
| | 130 | 54.8 | 14,840 | 56.4 | 14,840 | 57.9 | 14,850 | | 140 | 56.9 | 11,590 | 58.3 | 11,590 | 59.6 | 11,610 |
| | 140 | 51.3 | 12,890 | 53.0 | 12,900 | 54.4 | 12,910 | | 150 | 54.0 | 9,920 | 55.4 | 9,930 | 56.6 | 9,940 |
| | 150 | 47.7 | 11,230 | 49.3 | 11,240 | 50.7 | 11,250 | | 160 | 50.9 | 8,490 | 52.4 | 8,490 | 53.6 | 8,510 |
| 160 | 43.9 | 9,810 | 45.5 | 9,820 | 46.7 | 9,830 | 170 | 47.8 | 7,240 | 49.2 | 7,250 | 50.3 | 7,260 | | |
| 170 | 39.8 | 8,570 | 41.3 | 8,570 | 42.5 | 8,590 | 180 | 44.5 | 6,140 | 45.8 | 6,140 | 46.9 | 6,160 | | |
| | | | | | | | | 190 | 40.9 | 5,170 | 42.3 | 5,180 | 43.3 | 5,190 | |
| | | | | | | | | 200 | 37.1 | 4,310 | 38.4 | 4,320 | 39.3 | 4,330 | |
| 180' | 36 | 82.8 | 32,000* | - | - | - | - | 210' | 39 | 83.0 | 32,000* | - | - | - | - |
| | 40 | 81.8 | 32,000* | - | - | - | - | | 40 | 82.7 | 32,000* | - | - | - | - |
| | 50 | 79.1 | 32,000* | 80.9 | 32,000* | 82.5 | 32,000* | | 50 | 80.4 | 32,000* | 82.0 | 32,000* | - | - |
| | 60 | 76.5 | 32,000* | 78.2 | 32,000* | 79.8 | 32,000* | | 60 | 78.1 | 32,000* | 79.6 | 32,000* | 81.1 | 32,000* |
| | 70 | 73.8 | 32,000* | 75.5 | 32,000* | 77.1 | 30,810* | | 70 | 75.8 | 32,000* | 77.3 | 32,000* | 78.7 | 31,970* |
| | 80 | 71.1 | 32,000* | 72.8 | 32,000* | 74.3 | 28,800* | | 80 | 73.4 | 31,140 | 74.9 | 31,150 | 76.3 | 30,080* |
| | 90 | 68.3 | 27,010 | 70.0 | 27,010 | 71.5 | 27,010* | | 90 | 71.0 | 25,740 | 72.5 | 25,740 | 73.9 | 25,750 |
| | 100 | 65.5 | 22,800 | 67.2 | 22,800 | 68.7 | 22,810 | | 100 | 68.6 | 21,530 | 70.1 | 21,530 | 71.4 | 21,540 |
| | 110 | 62.6 | 19,430 | 64.3 | 19,440 | 65.7 | 19,450 | | 110 | 66.1 | 18,160 | 67.6 | 18,160 | 68.9 | 18,170 |
| | 120 | 59.6 | 16,680 | 61.3 | 16,680 | 62.7 | 16,700 | | 120 | 63.6 | 15,390 | 65.0 | 15,390 | 66.3 | 15,400 |
| | 130 | 56.6 | 14,380 | 58.2 | 14,390 | 59.6 | 14,400 | | 130 | 61.0 | 13,080 | 62.4 | 13,090 | 63.7 | 13,100 |
| | 140 | 53.4 | 12,440 | 55.0 | 12,450 | 56.3 | 12,460 | | 140 | 58.4 | 11,140 | 59.8 | 11,150 | 61.0 | 11,160 |
| | 150 | 50.1 | 10,780 | 51.6 | 10,790 | 52.9 | 10,800 | | 150 | 55.6 | 9,470 | 57.0 | 9,480 | 58.2 | 9,490 |
| | 160 | 46.6 | 9,340 | 48.1 | 9,350 | 49.3 | 9,360 | | 160 | 52.8 | 8,040 | 54.2 | 8,040 | 55.3 | 8,060 |
| 170 | 42.8 | 8,100 | 44.3 | 8,110 | 45.5 | 8,120 | 170 | 49.8 | 6,780 | 51.2 | 6,780 | 52.3 | 6,800 | | |
| 180 | 38.8 | 7,010 | 40.3 | 7,020 | 41.3 | 7,030 | 180 | 46.8 | 5,680 | 48.1 | 5,690 | 49.2 | 5,700 | | |
| 190' | 37 | 82.9 | 32,000* | - | - | - | - | 220' | 41 | 82.8 | 32,000* | - | - | - | - |
| | 40 | 82.1 | 32,000* | - | - | - | - | | 50 | 80.8 | 32,000* | 82.3 | 32,000* | - | - |
| | 50 | 79.6 | 32,000* | 81.3 | 32,000* | 82.8 | 32,000* | | 60 | 78.6 | 32,000* | 80.0 | 32,000* | 81.4 | 32,000* |
| | 60 | 77.1 | 32,000* | 78.7 | 32,000* | 80.3 | 32,000* | | 70 | 76.3 | 32,000* | 77.8 | 32,000* | 79.1 | 32,000* |
| | 70 | 74.5 | 32,000* | 76.2 | 32,000* | 77.7 | 31,190* | | 80 | 74.1 | 30,720 | 75.5 | 30,730 | 76.8 | 30,360* |
| | 80 | 71.9 | 31,970 | 73.6 | 31,980 | 75.0 | 29,180* | | 90 | 71.8 | 25,320 | 73.2 | 25,320 | 74.5 | 25,330 |
| | 90 | 69.3 | 26,570 | 70.9 | 26,570 | 72.4 | 26,580 | | 100 | 69.4 | 21,090 | 70.9 | 21,100 | 72.2 | 21,110 |
| | 100 | 66.6 | 22,370 | 68.2 | 22,370 | 69.7 | 22,380 | | 110 | 67.1 | 17,720 | 68.5 | 17,730 | 69.8 | 17,740 |
| | 110 | 63.9 | 19,000 | 65.5 | 19,000 | 66.9 | 19,020 | | 120 | 64.7 | 14,960 | 66.1 | 14,960 | 67.3 | 14,970 |
| | 120 | 61.1 | 16,240 | 62.7 | 16,240 | 64.0 | 16,250 | | 130 | 62.2 | 12,650 | 63.6 | 12,660 | 64.8 | 12,670 |
| | 130 | 58.2 | 13,940 | 59.8 | 13,950 | 61.1 | 13,960 | | 140 | 59.7 | 10,700 | 61.1 | 10,700 | 62.3 | 10,710 |
| | 140 | 55.2 | 12,000 | 56.8 | 12,000 | 58.1 | 12,010 | | 150 | 57.1 | 9,040 | 58.5 | 9,040 | 59.6 | 9,050 |
| | 150 | 52.1 | 10,330 | 53.6 | 10,340 | 54.9 | 10,350 | | 160 | 54.4 | 7,590 | 55.8 | 7,600 | 56.9 | 7,610 |
| | 160 | 48.9 | 8,900 | 50.4 | 8,910 | 51.6 | 8,920 | | 170 | 51.7 | 6,340 | 53.0 | 6,340 | 54.1 | 6,350 |
| 170 | 45.5 | 7,650 | 46.9 | 7,650 | 48.1 | 7,670 | 180 | 48.8 | 5,230 | 50.1 | 5,230 | 51.2 | 5,250 | | |
| 180 | 41.8 | 6,560 | 43.3 | 6,560 | 44.3 | 6,580 | 190 | 45.8 | 4,250 | 47.1 | 4,260 | 48.1 | 4,270 | | |
| 190 | 37.9 | 5,590 | 39.3 | 5,600 | 40.3 | 5,620 | 200 | 42.6 | 3,390 | 43.9 | 3,400 | 44.8 | 3,410 | | |
| | | | | | | | | 210 | 39.2 | 2,620 | 40.5 | 2,620 | 41.3 | 2,640 | |



LOAD CHART

HC 165

With 77SI Hammerhead Tip Boom and 102,000 Pound Upper Counterweight #16HL Jib

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | | | | | |
|----------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| 50' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) |
| | 32 | 82.7 | 32,000* | - | - | - | - | | 37 | 82.8 | 32,000* | - | - | - | - |
| | 35 | 81.8 | 32,000* | - | - | - | - | | 40 | 82.0 | 32,000* | - | - | - | - |
| | 40 | 80.2 | 32,000* | 82.8 | 29,160* | - | - | | 50 | 79.4 | 31,260* | 81.5 | 28,440* | - | - |
| | 50 | 77.0 | 30,720* | 79.6 | 28,290* | 82.1 | 26,260* | | 60 | 76.7 | 30,360* | 78.9 | 27,790* | 80.9 | 25,790* |
| 130' | 60 | 73.7 | 29,600* | 76.3 | 27,380* | 78.8 | 25,740* | | 70 | 74.0 | 29,380* | 76.2 | 27,100* | 78.2 | 25,270* |
| | 70 | 70.4 | 28,580* | 73.0 | 26,640* | 75.4 | 23,910* | | 80 | 71.3 | 28,590* | 73.4 | 26,460* | 75.4 | 23,790* |
| | 80 | 67.0 | 27,750* | 69.5 | 25,930* | 71.9 | 22,110* | 170' | 90 | 68.5 | 27,710 | 70.7 | 25,870* | 72.6 | 22,270* |
| | 90 | 63.5 | 26,890* | 66.0 | 25,320* | 68.3 | 20,640* | | | 100 | 65.7 | 23,510 | 67.8 | 23,510 | 69.7 |
| | 100 | 59.8 | 25,230 | 62.3 | 23,620* | 64.6 | 19,330* | | 110 | 62.8 | 20,140 | 64.9 | 20,150 | 66.8 | 19,840* |
| | 110 | 56.1 | 21,880 | 58.5 | 21,890 | 60.7 | 18,220* | | 120 | 59.9 | 17,390 | 61.9 | 17,400 | 63.7 | 17,410 |
| | 120 | 52.1 | 19,140 | 54.6 | 19,140 | 56.7 | 17,280* | | 130 | 56.8 | 15,100 | 58.8 | 15,110 | 60.6 | 15,120 |
| | 130 | 47.9 | 16,850 | 50.3 | 16,860 | 52.3 | 16,470* | | 140 | 53.6 | 13,150 | 55.6 | 13,160 | 57.3 | 13,170 |
| | | | | | | | | | 150 | 50.3 | 11,500 | 52.3 | 11,510 | 53.9 | 11,520 |
| | | | | | | | | | 160 | 46.8 | 10,070 | 48.7 | 10,070 | 50.3 | 10,090 |
| | | | | | | | | | 170 | 43.1 | 8,820 | 44.9 | 8,830 | 46.4 | 8,850 |
| | 33 | 82.8 | 32,000* | - | - | - | - | | 38 | 82.8 | 32,000* | - | - | - | - |
| | 35 | 82.2 | 32,000* | - | - | - | - | | 40 | 82.3 | 32,000* | - | - | - | - |
| | 40 | 80.7 | 32,000* | - | - | - | - | | 50 | 79.8 | 31,420* | 81.9 | 28,480* | - | - |
| | 50 | 77.7 | 30,910* | 80.2 | 28,390* | 82.5 | 26,350* | | 60 | 77.3 | 30,430* | 79.4 | 27,790* | 81.3 | 25,770* |
| | 60 | 74.6 | 29,810* | 77.1 | 27,490* | 79.4 | 25,740* | | 70 | 74.7 | 29,570* | 76.8 | 27,210* | 78.7 | 25,320* |
| | 70 | 71.4 | 28,910* | 73.9 | 26,760* | 76.2 | 24,390* | | 80 | 72.2 | 28,720* | 74.2 | 26,530* | 76.1 | 24,160* |
| 140' | 80 | 68.2 | 27,980* | 70.7 | 26,070* | 72.9 | 22,570* | 180' | 90 | 69.5 | 27,270 | 71.5 | 25,960* | 73.4 | 22,620* |
| | 90 | 65.0 | 27,100* | 67.4 | 25,520* | 69.6 | 21,030* | | | 100 | 66.8 | 23,070 | 68.8 | 23,070 | 70.7 |
| | 100 | 61.6 | 24,790 | 64.0 | 24,430* | 66.1 | 19,800* | | 110 | 64.1 | 19,700 | 66.1 | 19,710 | 67.9 | 19,720 |
| | 110 | 58.1 | 21,440 | 60.4 | 21,440 | 62.5 | 18,650* | | 120 | 61.3 | 16,940 | 63.3 | 16,940 | 65.0 | 16,950 |
| | 120 | 54.4 | 18,690 | 56.8 | 18,700 | 58.8 | 17,680* | | 130 | 58.4 | 14,640 | 60.4 | 14,650 | 62.1 | 14,660 |
| | 130 | 50.6 | 16,400 | 52.9 | 16,400 | 54.9 | 16,420 | | 140 | 55.4 | 12,710 | 57.4 | 12,710 | 59.0 | 12,730 |
| | 140 | 46.6 | 14,470 | 48.8 | 14,480 | 50.7 | 14,490 | | 150 | 52.3 | 11,040 | 54.2 | 11,050 | 55.8 | 11,060 |
| | | | | | | | | | 160 | 49.1 | 9,610 | 51.0 | 9,620 | 52.5 | 9,630 |
| | | | | | | | | | 170 | 45.7 | 8,360 | 47.5 | 8,360 | 49.0 | 8,380 |
| | | | | | | | | | 180 | 42.1 | 7,270 | 43.8 | 7,270 | 45.2 | 7,290 |
| | 34 | 82.9 | 32,000* | - | - | - | - | | 39 | 82.9 | 32,000* | - | - | - | - |
| | 35 | 82.6 | 32,000* | - | - | - | - | | 40 | 82.6 | 32,000* | - | - | - | - |
| | 40 | 81.2 | 32,000* | - | - | - | - | | 50 | 80.2 | 31,420* | 82.2 | 28,450* | - | - |
| | 50 | 78.3 | 31,040* | 80.7 | 28,390* | 82.9 | 26,300* | | 60 | 77.8 | 30,490* | 79.8 | 27,820* | 81.7 | 25,700* |
| | 60 | 75.4 | 30,100* | 77.7 | 27,650* | 79.9 | 25,720* | | 70 | 75.4 | 29,730* | 77.4 | 27,200* | 79.2 | 25,270* |
| | 70 | 72.4 | 29,120* | 74.7 | 26,880* | 76.9 | 24,760* | | 80 | 72.9 | 28,960* | 74.9 | 26,580* | 76.7 | 24,420* |
| 150' | 80 | 69.4 | 28,170* | 71.7 | 26,230* | 73.8 | 23,020* | | 90 | 70.4 | 26,840 | 72.3 | 26,140* | 74.1 | 22,960* |
| | 90 | 66.3 | 27,360* | 68.6 | 25,670* | 70.7 | 21,480* | | 100 | 67.9 | 22,630 | 69.8 | 22,630 | 71.5 | 21,700* |
| | 100 | 63.1 | 24,390 | 65.4 | 24,400 | 67.5 | 20,170* | 190' | 110 | 65.3 | 19,260 | 67.2 | 19,260 | 68.9 | 19,280 |
| | 110 | 59.9 | 21,030 | 62.1 | 21,040 | 64.1 | 19,080* | | | 120 | 62.6 | 16,500 | 64.5 | 16,510 | 66.2 |
| | 120 | 56.5 | 18,280 | 58.7 | 18,290 | 60.7 | 18,110* | | 130 | 59.9 | 14,200 | 61.8 | 14,210 | 63.4 | 14,220 |
| | 130 | 52.9 | 16,000 | 55.1 | 16,000 | 57.0 | 16,020 | | 140 | 57.1 | 12,260 | 58.9 | 12,270 | 60.5 | 12,280 |
| | 140 | 49.2 | 14,060 | 51.4 | 14,060 | 53.2 | 14,080 | | 150 | 54.2 | 10,590 | 56.0 | 10,600 | 57.6 | 10,610 |
| | 150 | 45.3 | 12,410 | 47.4 | 12,420 | 49.1 | 12,430 | | 160 | 51.1 | 9,160 | 53.0 | 9,170 | 54.5 | 9,180 |
| | | | | | | | | | 170 | 48.0 | 7,900 | 49.8 | 7,910 | 51.2 | 7,920 |
| | | | | | | | | | 180 | 44.7 | 6,810 | 46.4 | 6,810 | 47.8 | 6,830 |
| | | | | | | | | | 190 | 41.1 | 5,840 | 42.8 | 5,850 | 44.1 | 5,870 |
| | 35 | 83.0 | 32,000* | - | - | - | - | | | | | | | | |
| | 40 | 81.6 | 32,000* | - | - | - | - | | | | | | | | |
| | 50 | 78.8 | 31,280* | 81.1 | 28,400* | - | - | | | | | | | | |
| | 60 | 76.1 | 30,170* | 78.3 | 27,660* | 80.4 | 25,790* | | | | | | | | |
| | 70 | 73.3 | 29,310* | 75.5 | 26,990* | 77.6 | 25,220* | | | | | | | | |
| | 80 | 70.4 | 28,440* | 72.6 | 26,390* | 74.7 | 23,380* | | | | | | | | |
| 160' | 90 | 67.5 | 27,570* | 69.7 | 25,780* | 71.7 | 21,890* | | | | | | | | |
| | 100 | 64.5 | 23,950 | 66.7 | 23,960 | 68.6 | 20,590* | | | | | | | | |
| | 110 | 61.4 | 20,590 | 63.6 | 20,590 | 65.5 | 19,440* | | | | | | | | |
| | 120 | 58.3 | 17,830 | 60.4 | 17,840 | 62.3 | 17,850 | | | | | | | | |
| | 130 | 55.0 | 15,540 | 57.1 | 15,540 | 58.9 | 15,560 | | | | | | | | |
| | 140 | 51.6 | 13,600 | 53.6 | 13,610 | 55.4 | 13,620 | | | | | | | | |
| | 150 | 48.0 | 11,940 | 50.0 | 11,950 | 51.7 | 11,970 | | | | | | | | |
| | 160 | 44.1 | 10,520 | 46.1 | 10,530 | 47.7 | 10,550 | | | | | | | | |

LOAD CHART

HC 165

With 77SI Hammerhead Tip Boom and 102,000 Pound Upper Counterweight #16HL Jib

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | | | | | |
|----------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| 60' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) |
| | 39 | 82.8 | 29,570* | - | - | - | - | | 42 | 83.0 | 29,210* | - | - | - | - |
| | 40 | 82.5 | 29,440* | - | - | - | - | | 50 | 81.2 | 28,530* | - | - | - | - |
| | 50 | 80.0 | 28,370* | 82.5 | 25,520* | - | - | | 60 | 79.0 | 27,680* | 81.2 | 24,820* | - | - |
| | 60 | 77.5 | 27,510* | 80.0 | 24,800* | 82.3 | 22,770* | | 70 | 76.7 | 26,860* | 78.9 | 24,260* | 81.0 | 22,250* |
| | 70 | 75.0 | 26,630* | 77.4 | 24,150* | 79.7 | 22,200* | | 80 | 74.4 | 26,170* | 76.6 | 23,730* | 78.7 | 21,470* |
| | 80 | 72.4 | 25,710* | 74.8 | 23,540* | 77.1 | 20,670* | | 90 | 72.2 | 25,450* | 74.3 | 23,220* | 76.3 | 20,170* |
| 170' | 90 | 69.7 | 24,980* | 72.2 | 22,990* | 74.4 | 19,390* | | 100 | 69.8 | 22,470 | 72.0 | 22,470 | 74.0 | 19,000* |
| | 100 | 67.1 | 23,760 | 69.5 | 22,480* | 71.7 | 18,230* | | 110 | 67.5 | 19,090 | 69.6 | 19,100 | 71.5 | 18,040* |
| | 110 | 64.3 | 20,390 | 66.7 | 20,400 | 68.9 | 17,210* | 200' | 120 | 65.1 | 16,330 | 67.2 | 16,330 | 69.1 | 16,350 |
| | 120 | 61.5 | 17,640 | 63.9 | 17,640 | 66.0 | 16,350* | | | 130 | 62.6 | 14,030 | 64.7 | 14,040 | 66.6 |
| | 130 | 58.6 | 15,340 | 61.0 | 15,350 | 63.1 | 15,370 | | 140 | 60.1 | 12,080 | 62.2 | 12,090 | 64.0 | 12,100 |
| | 140 | 55.6 | 13,400 | 58.0 | 13,400 | 60.0 | 13,420 | | 150 | 57.5 | 10,420 | 59.6 | 10,430 | 61.4 | 10,440 |
| | 150 | 52.5 | 11,740 | 54.8 | 11,750 | 56.8 | 11,770 | | 160 | 54.8 | 8,970 | 56.9 | 8,980 | 58.6 | 8,990 |
| | 160 | 49.3 | 10,310 | 51.6 | 10,320 | 53.5 | 10,340 | | 170 | 52.1 | 7,720 | 54.1 | 7,720 | 55.8 | 7,740 |
| | 170 | 45.9 | 9,060 | 48.1 | 9,060 | 50.0 | 9,080 | | 180 | 49.2 | 6,620 | 51.2 | 6,630 | 52.8 | 6,640 |
| | | | | | | | | | 190 | 46.2 | 5,640 | 48.1 | 5,650 | 49.7 | 5,670 |
| | | | | | | | | | 200 | 43.0 | 4,780 | 44.9 | 4,790 | 46.4 | 4,810 |
| | 40 | 82.8 | 29,400* | - | - | - | - | | 44 | 82.8 | 28,990* | - | - | - | - |
| | 50 | 80.5 | 28,510* | 82.8 | 25,470* | - | - | | 50 | 81.5 | 28,480* | - | - | - | - |
| | 60 | 78.0 | 27,520* | 80.4 | 24,890* | 82.7 | 22,790* | | 60 | 79.4 | 27,700* | 81.5 | 24,760* | - | - |
| | 70 | 75.6 | 26,740* | 78.0 | 24,220* | 80.2 | 22,280* | | 70 | 77.2 | 26,960* | 79.3 | 24,260* | 81.3 | 22,190* |
| | 80 | 73.1 | 25,920* | 75.5 | 23,700* | 77.7 | 20,960* | | 80 | 75.0 | 26,210* | 77.1 | 23,790* | 79.1 | 21,680* |
| | 90 | 70.6 | 25,170* | 72.9 | 23,130* | 75.1 | 19,690* | | 90 | 72.8 | 25,510* | 74.9 | 23,240* | 76.9 | 20,390* |
| 180' | 100 | 68.1 | 23,320 | 70.4 | 22,540* | 72.5 | 18,490* | | 100 | 70.6 | 22,030 | 72.7 | 22,030 | 74.6 | 19,300* |
| | 110 | 65.5 | 19,940 | 67.8 | 19,940 | 69.9 | 17,500* | | 110 | 68.3 | 18,640 | 70.4 | 18,650 | 72.3 | 18,320* |
| | 120 | 62.8 | 17,180 | 65.1 | 17,190 | 67.1 | 16,630* | 210' | 120 | 66.0 | 15,880 | 68.1 | 15,890 | 69.9 | 15,910 |
| | 130 | 60.1 | 14,890 | 62.3 | 14,900 | 64.4 | 14,910 | | | 130 | 63.7 | 13,580 | 65.7 | 13,590 | 67.5 |
| | 140 | 57.3 | 12,940 | 59.5 | 12,950 | 61.5 | 12,960 | | 140 | 61.3 | 11,630 | 63.3 | 11,640 | 65.1 | 11,660 |
| | 150 | 54.4 | 11,280 | 56.6 | 11,290 | 58.5 | 11,310 | | 150 | 58.8 | 9,960 | 60.8 | 9,970 | 62.6 | 9,980 |
| | 160 | 51.4 | 9,850 | 53.5 | 9,860 | 55.4 | 9,870 | | 160 | 56.3 | 8,520 | 58.3 | 8,530 | 60.0 | 8,550 |
| | 170 | 48.2 | 8,590 | 50.3 | 8,600 | 52.1 | 8,620 | | 170 | 53.7 | 7,260 | 55.7 | 7,270 | 57.3 | 7,280 |
| | 180 | 44.9 | 7,500 | 47.0 | 7,510 | 48.7 | 7,520 | | 180 | 51.0 | 6,150 | 52.9 | 6,160 | 54.6 | 6,180 |
| | | | | | | | | | 190 | 48.2 | 5,180 | 50.1 | 5,180 | 51.7 | 5,200 |
| | | | | | | | | | 200 | 45.2 | 4,310 | 47.1 | 4,320 | 48.6 | 4,340 |
| | | | | | | | | | 210 | 42.1 | 3,540 | 44.0 | 3,550 | 45.4 | 3,570 |
| | 41 | 82.9 | 29,230* | - | - | - | - | | 45 | 82.8 | 28,840* | - | - | - | - |
| | 50 | 80.8 | 28,450* | - | - | - | - | | 50 | 81.8 | 28,460* | - | - | - | - |
| | 60 | 78.5 | 27,650* | 80.8 | 24,810* | 83.0 | 22,650* | | 60 | 79.8 | 27,720* | 81.8 | 24,760* | - | - |
| | 70 | 76.2 | 26,850* | 78.5 | 24,290* | 80.6 | 22,320* | | 70 | 77.7 | 26,950* | 79.7 | 24,230* | 81.6 | 22,130* |
| | 80 | 73.8 | 25,990* | 76.1 | 23,760* | 78.2 | 21,170* | | 80 | 75.6 | 26,270* | 77.6 | 23,790* | 79.5 | 21,800* |
| | 90 | 71.4 | 25,250* | 73.7 | 23,180* | 75.7 | 19,950* | | 90 | 73.5 | 25,560* | 75.5 | 23,260* | 77.4 | 20,630* |
| 190' | 100 | 69.0 | 22,880 | 71.2 | 22,690* | 73.3 | 18,810* | | 100 | 71.3 | 21,600 | 73.3 | 21,600 | 75.2 | 19,490* |
| | 110 | 66.5 | 19,500 | 68.7 | 19,500 | 70.7 | 17,800* | | 110 | 69.1 | 18,210 | 71.1 | 18,220 | 73.0 | 18,230 |
| | 120 | 64.0 | 16,740 | 66.2 | 16,750 | 68.2 | 16,760 | 220' | 120 | 66.9 | 15,440 | 68.9 | 15,450 | 70.7 | 15,460 |
| | 130 | 61.4 | 14,430 | 63.6 | 14,440 | 65.5 | 14,460 | | | 130 | 64.7 | 13,140 | 66.7 | 13,140 | 68.4 |
| | 140 | 58.7 | 12,490 | 60.9 | 12,500 | 62.8 | 12,520 | | 140 | 62.4 | 11,190 | 64.4 | 11,200 | 66.1 | 11,210 |
| | 150 | 56.0 | 10,830 | 58.1 | 10,840 | 60.0 | 10,860 | | 150 | 60.1 | 9,520 | 62.0 | 9,520 | 63.7 | 9,540 |
| | 160 | 53.2 | 9,390 | 55.3 | 9,400 | 57.1 | 9,410 | | 160 | 57.7 | 8,080 | 59.6 | 8,080 | 61.3 | 8,100 |
| | 170 | 50.2 | 8,140 | 52.3 | 8,150 | 54.1 | 8,160 | | 170 | 55.2 | 6,810 | 57.1 | 6,820 | 58.7 | 6,830 |
| | 180 | 47.1 | 7,040 | 49.2 | 7,050 | 50.9 | 7,070 | | 180 | 52.7 | 5,700 | 54.5 | 5,710 | 56.1 | 5,730 |
| | 190 | 43.9 | 6,070 | 45.9 | 6,080 | 47.5 | 6,100 | | 190 | 50.0 | 4,720 | 51.9 | 4,730 | 53.4 | 4,750 |
| | | | | | | | | | 200 | 47.3 | 3,860 | 49.1 | 3,860 | 50.6 | 3,880 |
| | | | | | | | | | 210 | 44.4 | 3,080 | 46.2 | 3,090 | 47.6 | 3,110 |
| | | | | | | | | | 220 | 41.3 | 2,390 | 43.1 | 2,400 | 44.4 | 2,420 |

LOAD CHART

HC 165

With 77SI Hammerhead Tip Boom and 102,000 Pound Upper Counterweight #16HL Jib

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | | | | | |
|----------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|-------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|
| 70' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | Rating (Pounds) | 15.0 Deg offset Boom Angle | Rating (Pounds) | 25.0 Deg offset Boom Angle | Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | Rating (Pounds) | 15.0 Deg offset Boom Angle | Rating (Pounds) | 25.0 Deg offset Boom Angle | Rating (Pounds) |
| | 42 | 82.9 | 22,110* | - | - | - | - | | 46 | 82.8 | 21,860* | - | - | - | - |
| | 50 | 81.0 | 21,490* | - | - | - | - | | 50 | 82.0 | 21,580* | - | - | - | - |
| | 60 | 78.7 | 20,710* | 81.4 | 18,400* | - | - | | 60 | 79.9 | 20,880* | 82.3 | 18,400* | - | - |
| | 70 | 76.4 | 19,960* | 79.0 | 17,880* | 81.6 | 16,230* | | 70 | 77.9 | 20,210* | 80.2 | 17,960* | 82.5 | 16,210* |
| | 80 | 74.0 | 19,300* | 76.7 | 17,360* | 79.2 | 15,910* | | 80 | 75.8 | 19,580* | 78.1 | 17,510* | 80.4 | 15,860* |
| | 90 | 71.6 | 18,660* | 74.2 | 16,880* | 76.7 | 15,460* | | 90 | 73.6 | 18,980* | 76.0 | 17,020* | 78.2 | 15,510* |
| 180' | 100 | 69.2 | 18,060* | 71.8 | 16,460* | 74.2 | 15,030* | | 100 | 71.5 | 18,440* | 73.8 | 16,620* | 76.0 | 15,150* |
| | 110 | 66.7 | 17,480* | 69.3 | 15,990* | 71.7 | 14,640* | | 110 | 69.3 | 17,880* | 71.7 | 16,200* | 73.8 | 14,810* |
| | 120 | 64.2 | 16,990* | 66.8 | 15,490* | 69.1 | 14,300* | 210' | 120 | 67.1 | 16,080* | 69.4 | 15,890* | 71.6 | 14,460* |
| | 130 | 61.6 | 15,080* | 64.1 | 15,070* | 66.5 | 13,810* | | | 130 | 64.9 | 13,780* | 67.2 | 13,780* | 69.3 |
| | 140 | 58.9 | 13,140* | 61.5 | 13,150* | 63.7 | 13,170* | | 140 | 62.6 | 11,830* | 64.9 | 11,840* | 66.9 | 11,860* |
| | 150 | 56.2 | 11,480* | 58.7 | 11,490* | 60.9 | 11,510* | | 150 | 60.2 | 10,160* | 62.5 | 10,170* | 64.5 | 10,180* |
| | 160 | 53.4 | 10,040* | 55.9 | 10,050* | 58.0 | 10,070* | | 160 | 57.8 | 8,720* | 60.1 | 8,730* | 62.1 | 8,740* |
| | 170 | 50.4 | 8,790* | 52.9 | 8,800* | 55.0 | 8,820* | | 170 | 55.4 | 7,460* | 57.6 | 7,470* | 59.5 | 7,490* |
| | 180 | 47.3 | 7,690* | 49.8 | 7,700* | 51.8 | 7,720* | | 180 | 52.8 | 6,350* | 55.0 | 6,360* | 56.9 | 6,380* |
| | | | | | | | | | 190 | 50.2 | 5,370* | 52.4 | 5,380* | 54.2 | 5,400* |
| | | | | | | | | | 200 | 47.4 | 4,510* | 49.6 | 4,520* | 51.4 | 4,540* |
| | | | | | | | | | 210 | 44.6 | 3,720* | 46.7 | 3,730* | 48.4 | 3,760* |
| | 43 | 82.9 | 22,040* | - | - | - | - | | 47 | 82.9 | 21,780* | - | - | - | - |
| | 50 | 81.4 | 21,550* | - | - | - | - | | 50 | 82.3 | 21,550* | - | - | - | - |
| | 60 | 79.2 | 20,740* | 81.7 | 18,420* | - | - | | 60 | 80.3 | 20,910* | 82.6 | 18,430* | - | - |
| | 70 | 76.9 | 20,000* | 79.5 | 17,870* | 81.9 | 16,210* | | 70 | 78.3 | 20,250* | 80.6 | 17,960* | 82.8 | 16,120* |
| | 80 | 74.6 | 19,340* | 77.2 | 17,450* | 79.6 | 15,880* | | 80 | 76.3 | 19,620* | 78.6 | 17,490* | 80.7 | 15,860* |
| | 90 | 72.3 | 18,800* | 74.9 | 16,980* | 77.2 | 15,460* | | 90 | 74.2 | 19,010* | 76.5 | 17,100* | 78.6 | 15,550* |
| 190' | 100 | 70.0 | 18,210* | 72.5 | 16,490* | 74.9 | 15,030* | | 100 | 72.2 | 18,540* | 74.4 | 16,640* | 76.5 | 15,210* |
| | 110 | 67.7 | 17,620* | 70.2 | 16,110* | 72.5 | 14,660* | | 110 | 70.1 | 17,970* | 72.3 | 16,290* | 74.4 | 14,820* |
| | 120 | 65.2 | 16,950* | 67.7 | 15,620* | 70.0 | 14,350* | 220' | 120 | 68.0 | 15,640* | 70.2 | 15,650* | 72.2 | 14,530* |
| | 130 | 62.8 | 14,640* | 65.2 | 14,650* | 67.5 | 14,010* | | | 130 | 65.8 | 13,330* | 68.0 | 13,340* | 70.1 |
| | 140 | 60.3 | 12,700* | 62.7 | 12,710* | 64.9 | 12,720* | | 140 | 63.6 | 11,390* | 65.8 | 11,400* | 67.8 | 11,410* |
| | 150 | 57.7 | 11,030* | 60.1 | 11,040* | 62.2 | 11,050* | | 150 | 61.4 | 9,710* | 63.6 | 9,720* | 65.5 | 9,740* |
| | 160 | 55.0 | 9,590* | 57.4 | 9,600* | 59.5 | 9,620* | | 160 | 59.1 | 8,270* | 61.3 | 8,280* | 63.2 | 8,300* |
| | 170 | 52.2 | 8,340* | 54.6 | 8,350* | 56.7 | 8,360* | | 170 | 56.7 | 7,010* | 58.9 | 7,020* | 60.8 | 7,040* |
| | 180 | 49.4 | 7,240* | 51.7 | 7,250* | 53.7 | 7,270* | | 180 | 54.3 | 5,900* | 56.5 | 5,910* | 58.3 | 5,930* |
| | 190 | 46.4 | 6,260* | 48.7 | 6,270* | 50.6 | 6,290* | | 190 | 51.8 | 4,920* | 53.9 | 4,930* | 55.8 | 4,950* |
| | | | | | | | | | 200 | 49.2 | 4,050* | 51.3 | 4,060* | 53.1 | 4,080* |
| | | | | | | | | | 210 | 46.5 | 3,270* | 48.6 | 3,280* | 50.3 | 3,300* |
| | | | | | | | | | 220 | 43.7 | 2,570* | 45.8 | 2,590* | 47.4 | 2,610* |
| | 44 | 83.0 | 22,000* | - | - | - | - | | | | | | | | |
| | 50 | 81.7 | 21,520* | - | - | - | - | | | | | | | | |
| | 60 | 79.6 | 20,770* | 82.0 | 18,450* | - | - | | | | | | | | |
| | 70 | 77.4 | 20,140* | 79.9 | 17,950* | 82.2 | 16,190* | | | | | | | | |
| | 80 | 75.2 | 19,470* | 77.7 | 17,420* | 80.0 | 15,860* | | | | | | | | |
| | 90 | 73.0 | 18,860* | 75.5 | 17,010* | 77.7 | 15,530* | | | | | | | | |
| | 100 | 70.8 | 18,290* | 73.2 | 16,600* | 75.5 | 15,100* | | | | | | | | |
| | 110 | 68.5 | 17,770* | 70.9 | 16,170* | 73.2 | 14,740* | | | | | | | | |
| 200' | 120 | 66.2 | 16,520* | 68.6 | 15,740* | 70.8 | 14,380* | | | | | | | | |
| | 130 | 63.9 | 14,230* | 66.3 | 14,240* | 68.4 | 14,120* | | | | | | | | |
| | 140 | 61.5 | 12,280* | 63.8 | 12,290* | 66.0 | 12,310* | | | | | | | | |
| | 150 | 59.0 | 10,610* | 61.4 | 10,620* | 63.4 | 10,640* | | | | | | | | |
| | 160 | 56.5 | 9,170* | 58.8 | 9,180* | 60.9 | 9,200* | | | | | | | | |
| | 170 | 53.9 | 7,920* | 56.2 | 7,930* | 58.2 | 7,940* | | | | | | | | |
| | 180 | 51.2 | 6,810* | 53.5 | 6,820* | 55.4 | 6,840* | | | | | | | | |
| | 190 | 48.4 | 5,840* | 50.6 | 5,850* | 52.5 | 5,870* | | | | | | | | |
| | 200 | 45.4 | 4,970* | 47.6 | 4,980* | 49.4 | 5,000* | | | | | | | | |



LOAD CHART

HC 165

**With 77SI Hammerhead Tip Boom and 116,400 Pound Counterweight
#16HL Jib**

| 108,400 lb + 8,000 lb carbody counterweight | | | | | | | | 360° | | | | ANSI B 30.5 | | | |
|---|-------------------|---------------------------|-------------------------|----------------------------|-------------------------|----------------------------|-------------------------|-------------|-------------------|---------------------------|-------------------------|----------------------------|-------------------------|----------------------------|-------------------------|
| 40' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 32,000* Rating (Pounds) | 15.0 Deg offset Boom Angle | 32,000* Rating (Pounds) | 25.0 Deg offset Boom Angle | 32,000* Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 32,000* Rating (Pounds) | 15.0 Deg offset Boom Angle | 32,000* Rating (Pounds) | 25.0 Deg offset Boom Angle | 32,000* Rating (Pounds) |
| 100' | 26 | 82.8 | 32,000* | - | - | - | - | 140' | 31 | 82.8 | 32,000* | - | - | - | - |
| | 30 | 81.2 | 32,000* | - | - | - | - | | 35 | 81.5 | 32,000* | - | - | - | - |
| | 35 | 79.1 | 32,000* | 81.8 | 32,000* | - | - | | 40 | 79.9 | 32,000* | 82.0 | 32,000* | - | - |
| | 40 | 77.0 | 32,000* | 79.7 | 32,000* | 82.3 | 32,000* | | 50 | 76.7 | 32,000* | 78.8 | 32,000* | 80.8 | 32,000* |
| | 50 | 72.8 | 32,000* | 75.5 | 32,000* | 78.0 | 31,980* | | 60 | 73.4 | 32,000* | 75.5 | 32,000* | 77.4 | 31,210* |
| | 60 | 68.5 | 32,000* | 71.2 | 32,000* | 73.6 | 28,600* | | 70 | 70.1 | 32,000* | 72.2 | 32,000* | 74.1 | 28,730* |
| | 70 | 64.1 | 32,000* | 66.7 | 31,930* | 69.1 | 25,990* | | 80 | 66.7 | 32,000* | 68.7 | 32,000* | 70.6 | 26,600* |
| | 80 | 59.4 | 32,000* | 62.0 | 28,940* | 64.3 | 23,950* | | 90 | 63.2 | 30,630 | 65.2 | 30,640 | 67.0 | 24,840* |
| | 90 | 54.6 | 30,530* | 57.1 | 26,570* | 59.3 | 22,240* | | 100 | 59.6 | 26,220 | 61.6 | 26,230 | 63.3 | 23,430* |
| | 100 | 49.3 | 27,580* | 51.8 | 24,610* | 53.9 | 20,800* | | 110 | 55.8 | 22,690 | 57.8 | 22,700 | 59.5 | 22,110* |
| 110' | 27 | 82.9 | 32,000* | - | - | - | - | 150' | 32 | 82.9 | 32,000* | - | - | - | - |
| | 30 | 81.7 | 32,000* | - | - | - | - | | 35 | 82.0 | 32,000* | - | - | - | - |
| | 35 | 79.8 | 32,000* | 82.4 | 32,000* | - | - | | 40 | 80.5 | 32,000* | 82.5 | 32,000* | - | - |
| | 40 | 77.9 | 32,000* | 80.4 | 32,000* | 82.8 | 32,000* | | 50 | 77.4 | 32,000* | 79.4 | 32,000* | 81.3 | 32,000* |
| | 50 | 74.0 | 32,000* | 76.5 | 32,000* | 78.9 | 32,000* | | 60 | 74.3 | 32,000* | 76.3 | 32,000* | 78.1 | 31,750* |
| | 60 | 70.0 | 32,000* | 72.5 | 32,000* | 74.8 | 29,340* | | 70 | 71.2 | 32,000* | 73.1 | 32,000* | 74.9 | 29,330* |
| | 70 | 65.9 | 32,000* | 68.4 | 32,000* | 70.6 | 26,800* | | 80 | 68.0 | 32,000* | 69.9 | 32,000* | 71.7 | 27,220* |
| | 80 | 61.7 | 32,000* | 64.1 | 30,140* | 66.3 | 24,700* | | 90 | 64.7 | 30,250 | 66.6 | 30,260 | 68.3 | 25,420* |
| | 90 | 57.2 | 31,930 | 59.6 | 27,640* | 61.7 | 22,940* | | 100 | 61.3 | 25,840 | 63.2 | 25,840 | 64.9 | 23,940* |
| | 100 | 52.6 | 27,520 | 54.9 | 25,570* | 56.9 | 21,540* | | 110 | 57.8 | 22,300 | 59.7 | 22,300 | 61.3 | 22,310 |
| 110 | 47.5 | 24,000 | 49.8 | 23,870* | 51.7 | 20,370* | 120 | 54.2 | 19,410 | 56.0 | 19,410 | 57.6 | 19,430 | | |
| 120' | 28 | 83.0 | 32,000* | - | - | - | - | 130 | 50.4 | 17,000 | 52.2 | 17,000 | 53.7 | 17,010 | |
| | 30 | 82.3 | 32,000* | - | - | - | - | 140 | 46.3 | 14,960 | 48.1 | 14,970 | 49.5 | 14,980 | |
| | 35 | 80.5 | 32,000* | 82.8 | 32,000* | - | - | 150 | 41.9 | 13,220 | 43.7 | 13,230 | 45.0 | 13,240 | |
| | 40 | 78.7 | 32,000* | 81.0 | 32,000* | - | - | 160' | 33 | 82.9 | 32,000* | - | - | - | - |
| | 50 | 75.0 | 32,000* | 77.4 | 32,000* | 79.6 | 32,000* | | 35 | 82.4 | 32,000* | - | - | - | - |
| | 60 | 71.3 | 32,000* | 73.6 | 32,000* | 75.8 | 30,030* | | 40 | 80.9 | 32,000* | 82.8 | 32,000* | - | - |
| | 70 | 67.5 | 32,000* | 69.8 | 32,000* | 71.9 | 27,480* | | 50 | 78.0 | 32,000* | 79.9 | 32,000* | 81.7 | 32,000* |
| | 80 | 63.6 | 32,000* | 65.9 | 31,300* | 67.9 | 25,380* | | 60 | 75.1 | 32,000* | 77.0 | 32,000* | 78.8 | 32,000* |
| | 90 | 59.5 | 31,500 | 61.8 | 28,700* | 63.8 | 23,650* | | 70 | 72.1 | 32,000* | 74.0 | 32,000* | 75.7 | 29,880* |
| | 100 | 55.3 | 27,090 | 57.5 | 26,600* | 59.4 | 22,160* | | 80 | 69.1 | 32,000* | 71.0 | 32,000* | 72.7 | 27,770* |
| 110 | 50.8 | 23,570 | 52.9 | 23,580 | 54.8 | 20,990* | 90 | | 66.0 | 29,820 | 67.9 | 29,830 | 69.5 | 25,960* | |
| 120 | 45.9 | 20,680 | 48.1 | 20,690 | 49.8 | 19,920* | 100 | | 62.9 | 25,390 | 64.7 | 25,400 | 66.3 | 24,470* | |
| 130' | 30 | 82.7 | 32,000* | - | - | - | - | | 110 | 59.6 | 21,860 | 61.4 | 21,870 | 63.0 | 21,880 |
| | 35 | 81.0 | 32,000* | - | - | - | - | 120 | 56.2 | 18,960 | 58.0 | 18,970 | 59.5 | 18,980 | |
| | 40 | 79.3 | 32,000* | 81.6 | 32,000* | - | - | 130 | 52.7 | 16,550 | 54.4 | 16,550 | 55.9 | 16,560 | |
| | 50 | 75.9 | 32,000* | 78.1 | 32,000* | 80.2 | 32,000* | 140 | 49.0 | 14,510 | 50.7 | 14,510 | 52.1 | 14,520 | |
| | 60 | 72.4 | 32,000* | 74.6 | 32,000* | 76.7 | 30,690* | 150 | 45.1 | 12,770 | 46.7 | 12,780 | 48.1 | 12,790 | |
| | 70 | 68.9 | 32,000* | 71.1 | 32,000* | 73.1 | 28,120* | 160 | 40.8 | 11,260 | 42.4 | 11,270 | 43.7 | 11,280 | |
| | 80 | 65.2 | 32,000* | 67.4 | 32,000* | 69.3 | 26,010* | | | | | | | | |
| | 90 | 61.5 | 31,070 | 63.6 | 29,710* | 65.5 | 24,290* | | | | | | | | |
| | 100 | 57.6 | 26,660 | 59.7 | 26,660 | 61.5 | 22,770* | | | | | | | | |
| | 110 | 53.5 | 23,120 | 55.5 | 23,130 | 57.3 | 21,590* | | | | | | | | |
| 120 | 49.1 | 20,230 | 51.2 | 20,240 | 52.8 | 20,250 | | | | | | | | | |
| 130 | 44.5 | 17,830 | 46.5 | 17,830 | 48.0 | 17,840 | | | | | | | | | |



LOAD CHART

HC 165

**With 77SI Hammerhead Tip Boom and 116,400 Pound Counterweight
#16HL Jib**

| 108,400 lb + 8,000 lb carbody counterweight | | | | | | | | 360° | | | | ANSI B 30.5 | | | |
|---|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| 40' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) |
| 170' | 34 | 83.0 | 32,000* | - | - | - | - | 200' | 38 | 82.9 | 32,000* | - | - | - | - |
| | 35 | 82.7 | 32,000* | - | - | - | - | | 40 | 82.4 | 32,000* | - | - | - | - |
| | 40 | 81.4 | 32,000* | - | - | - | - | | 50 | 80.0 | 32,000* | 81.6 | 32,000* | - | - |
| | 50 | 78.6 | 32,000* | 80.4 | 32,000* | 82.1 | 32,000* | | 60 | 77.6 | 32,000* | 79.2 | 32,000* | 80.7 | 32,000* |
| | 60 | 75.8 | 32,000* | 77.6 | 32,000* | 79.3 | 32,000* | | 70 | 75.2 | 32,000* | 76.7 | 32,000* | 78.2 | 31,700* |
| | 70 | 73.0 | 32,000* | 74.8 | 32,000* | 76.4 | 30,360* | | 80 | 72.7 | 32,000* | 74.3 | 32,000* | 75.7 | 29,610* |
| | 80 | 70.2 | 32,000* | 71.9 | 32,000* | 73.5 | 28,290* | | 90 | 70.2 | 28,140 | 71.7 | 28,140 | 73.2 | 27,840* |
| | 90 | 67.2 | 29,390 | 69.0 | 29,390 | 70.6 | 26,460* | | 100 | 67.7 | 23,710 | 69.2 | 23,710 | 70.6 | 23,720 |
| | 100 | 64.3 | 24,970 | 66.0 | 24,980 | 67.5 | 24,990 | | 110 | 65.1 | 20,150 | 66.6 | 20,150 | 67.9 | 20,160 |
| | 110 | 61.2 | 21,430 | 62.9 | 21,430 | 64.4 | 21,440 | | 120 | 62.4 | 17,240 | 63.9 | 17,250 | 65.2 | 17,260 |
| | 120 | 58.0 | 18,520 | 59.7 | 18,530 | 61.2 | 18,540 | | 130 | 59.7 | 14,820 | 61.2 | 14,820 | 62.5 | 14,830 |
| | 130 | 54.8 | 16,110 | 56.4 | 16,110 | 57.9 | 16,120 | | 140 | 56.9 | 12,780 | 58.3 | 12,780 | 59.6 | 12,800 |
| | 140 | 51.3 | 14,070 | 53.0 | 14,080 | 54.4 | 14,090 | | 150 | 54.0 | 11,020 | 55.4 | 11,030 | 56.6 | 11,040 |
| | 150 | 47.7 | 12,320 | 49.3 | 12,330 | 50.7 | 12,340 | | 160 | 50.9 | 9,510 | 52.4 | 9,510 | 53.6 | 9,530 |
| 160 | 43.9 | 10,820 | 45.5 | 10,830 | 46.7 | 10,840 | 170 | 47.8 | 8,190 | 49.2 | 8,200 | 50.3 | 8,210 | | |
| 170 | 39.8 | 9,510 | 41.3 | 9,510 | 42.5 | 9,530 | 180 | 44.5 | 7,030 | 45.8 | 7,030 | 46.9 | 7,050 | | |
| 180 | 37.1 | 8,100 | 38.4 | 8,100 | 39.3 | 8,120 | 190 | 40.9 | 6,010 | 42.3 | 6,020 | 43.3 | 6,030 | | |
| 190 | 37.1 | 5,100 | 38.4 | 5,110 | 39.3 | 5,120 | 200 | 37.1 | 5,100 | 38.4 | 5,110 | 39.3 | 5,120 | | |
| 180' | 36 | 82.8 | 32,000* | - | - | - | - | 210' | 39 | 83.0 | 32,000* | - | - | - | - |
| | 40 | 81.8 | 32,000* | - | - | - | - | | 40 | 82.7 | 32,000* | - | - | - | - |
| | 50 | 79.1 | 32,000* | 80.9 | 32,000* | 82.5 | 32,000* | | 50 | 80.4 | 32,000* | 82.0 | 32,000* | - | - |
| | 60 | 76.5 | 32,000* | 78.2 | 32,000* | 79.8 | 32,000* | | 60 | 78.1 | 32,000* | 79.6 | 32,000* | 81.1 | 32,000* |
| | 70 | 73.8 | 32,000* | 75.5 | 32,000* | 77.1 | 30,790* | | 70 | 75.8 | 32,000* | 77.3 | 32,000* | 78.7 | 32,000* |
| | 80 | 71.1 | 32,000* | 72.8 | 32,000* | 74.3 | 28,770* | | 80 | 73.4 | 32,000* | 74.9 | 32,000* | 76.3 | 30,050* |
| | 90 | 68.3 | 28,960 | 70.0 | 28,960 | 71.5 | 26,980* | | 90 | 71.0 | 27,700 | 72.5 | 27,700 | 73.9 | 27,710 |
| | 100 | 65.5 | 24,530 | 67.2 | 24,530 | 68.7 | 24,540 | | 100 | 68.6 | 23,270 | 70.1 | 23,270 | 71.4 | 23,280 |
| | 110 | 62.6 | 20,980 | 64.3 | 20,990 | 65.7 | 21,000 | | 110 | 66.1 | 19,720 | 67.6 | 19,720 | 68.9 | 19,730 |
| | 120 | 59.6 | 18,080 | 61.3 | 18,080 | 62.7 | 18,100 | | 120 | 63.6 | 16,810 | 65.0 | 16,810 | 66.3 | 16,820 |
| | 130 | 56.6 | 15,660 | 58.2 | 15,670 | 59.6 | 15,680 | | 130 | 61.0 | 14,380 | 62.4 | 14,390 | 63.7 | 14,400 |
| | 140 | 53.4 | 13,620 | 55.0 | 13,630 | 56.3 | 13,640 | | 140 | 58.4 | 12,330 | 59.8 | 12,340 | 61.0 | 12,350 |
| | 150 | 50.1 | 11,870 | 51.6 | 11,880 | 52.9 | 11,890 | | 150 | 55.6 | 10,570 | 57.0 | 10,580 | 58.2 | 10,590 |
| | 160 | 46.6 | 10,360 | 48.1 | 10,370 | 49.3 | 10,380 | | 160 | 52.8 | 9,060 | 54.2 | 9,060 | 55.3 | 9,080 |
| 170 | 42.8 | 9,040 | 44.3 | 9,050 | 45.5 | 9,060 | 170 | 49.8 | 7,740 | 51.2 | 7,740 | 52.3 | 7,760 | | |
| 180 | 38.8 | 7,900 | 40.3 | 7,910 | 41.3 | 7,920 | 180 | 46.8 | 6,570 | 48.1 | 6,580 | 49.2 | 6,590 | | |
| 190 | 37.1 | 5,550 | 38.4 | 5,560 | 39.3 | 5,570 | 190 | 43.5 | 5,550 | 44.8 | 5,560 | 45.8 | 5,570 | | |
| 200 | 40.0 | 4,640 | 41.3 | 4,650 | 42.3 | 4,660 | 200 | 40.0 | 4,640 | 41.3 | 4,650 | 42.3 | 4,660 | | |
| 210 | 36.3 | 3,820 | 37.5 | 3,830 | 38.4 | 3,850 | 210 | 36.3 | 3,820 | 37.5 | 3,830 | 38.4 | 3,850 | | |
| 190' | 41 | 82.8 | 32,000* | - | - | - | - | 220' | 41 | 82.8 | 32,000* | - | - | - | - |
| | 50 | 80.8 | 32,000* | 82.3 | 32,000* | - | - | | 50 | 80.8 | 32,000* | 80.0 | 32,000* | 81.4 | 32,000* |
| | 60 | 78.6 | 32,000* | 80.0 | 32,000* | 81.4 | 32,000* | | 60 | 78.6 | 32,000* | 77.8 | 32,000* | 79.1 | 32,000* |
| | 70 | 76.3 | 32,000* | 77.8 | 32,000* | 79.1 | 30,460* | | 70 | 76.3 | 32,000* | 75.5 | 32,000* | 76.8 | 30,460* |
| | 80 | 74.1 | 32,000* | 75.5 | 32,000* | 76.8 | 30,460* | | 80 | 74.1 | 32,000* | 73.2 | 27,280 | 74.5 | 27,290 |
| | 90 | 71.8 | 27,280 | 73.2 | 27,280 | 74.5 | 27,290 | | 90 | 71.8 | 27,280 | 70.9 | 22,840 | 72.2 | 22,850 |
| | 100 | 69.4 | 22,830 | 70.9 | 22,840 | 72.2 | 22,850 | | 100 | 69.4 | 22,830 | 68.5 | 19,290 | 69.8 | 19,300 |
| | 110 | 67.1 | 19,280 | 68.5 | 19,290 | 69.8 | 19,300 | | 110 | 67.1 | 19,280 | 66.1 | 16,380 | 67.3 | 16,390 |
| | 120 | 64.7 | 16,380 | 66.1 | 16,380 | 67.3 | 16,390 | | 120 | 64.7 | 16,380 | 63.6 | 13,940 | 64.8 | 13,960 |
| | 130 | 62.2 | 13,940 | 63.6 | 13,950 | 64.8 | 13,960 | | 130 | 62.2 | 13,940 | 61.1 | 11,890 | 62.3 | 11,900 |
| | 140 | 59.7 | 11,890 | 61.1 | 11,890 | 62.3 | 11,900 | | 140 | 59.7 | 11,890 | 58.5 | 10,140 | 59.6 | 10,150 |
| | 150 | 57.1 | 10,140 | 58.5 | 10,140 | 59.6 | 10,150 | | 150 | 57.1 | 10,140 | 55.8 | 8,630 | 56.9 | 8,640 |
| | 160 | 54.4 | 8,620 | 55.8 | 8,630 | 56.9 | 8,640 | | 160 | 54.4 | 8,620 | 53.0 | 7,290 | 54.1 | 7,300 |
| | 170 | 51.7 | 7,290 | 53.0 | 7,290 | 54.1 | 7,300 | | 170 | 51.7 | 7,290 | 50.1 | 6,130 | 51.2 | 6,150 |
| 180 | 48.8 | 6,130 | 50.1 | 6,130 | 51.2 | 6,150 | 180 | 48.8 | 6,130 | 47.1 | 5,110 | 48.1 | 5,120 | | |
| 190 | 45.8 | 5,100 | 47.1 | 5,110 | 48.1 | 5,120 | 190 | 45.8 | 5,100 | 43.9 | 4,190 | 44.8 | 4,200 | | |
| 200 | 42.6 | 4,180 | 43.9 | 4,190 | 44.8 | 4,200 | 200 | 42.6 | 4,180 | 40.5 | 3,370 | 41.3 | 3,390 | | |
| 210 | 39.2 | 3,370 | 40.5 | 3,370 | 41.3 | 3,390 | 210 | 39.2 | 3,370 | 36.7 | 2,660 | 37.6 | 2,670 | | |
| 220 | 35.6 | 2,650 | 36.7 | 2,660 | 37.6 | 2,670 | 220 | 35.6 | 2,650 | 36.7 | 2,660 | 37.6 | 2,670 | | |

LOAD CHART

HC 165

**With 77SI Hammerhead Tip Boom and 116,400 Pound Counterweight
#16HL Jib**

| 108,400 lb + 8,000 lb carbody counterweight | | | | | | 360° | | | | | ANSI B 30.5 | | | | | | | | | | |
|---|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|--|--|--|--|--|--|
| 50' Jib length | | | | | | | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | | | | | | |
| | 32 | 82.7 | 32,000* | - | - | - | - | | | | | | | | | | | | | | |
| | 35 | 81.8 | 32,000* | - | - | - | - | | | | | | | | | | | | | | |
| | 40 | 80.2 | 32,000* | 82.8 | 29,150* | - | - | | | | | | | | | | | | | | |
| | 50 | 77.0 | 30,830* | 79.6 | 28,270* | 82.1 | 26,350* | | | | | | | | | | | | | | |
| 130' | 60 | 73.7 | 29,600* | 76.3 | 27,480* | 78.8 | 25,720* | | | | | | | | | | | | | | |
| | 70 | 70.4 | 28,670* | 73.0 | 26,620* | 75.4 | 23,990* | | | | | | | | | | | | | | |
| | 80 | 67.0 | 27,710* | 69.5 | 26,010* | 71.9 | 22,090* | | | | | | | | | | | | | | |
| | 90 | 63.5 | 26,850* | 66.0 | 25,290* | 68.3 | 20,610* | | | | | | | | | | | | | | |
| | 100 | 59.8 | 26,090* | 62.3 | 23,680* | 64.6 | 19,300* | | | | | | | | | | | | | | |
| | 110 | 56.1 | 23,410 | 58.5 | 22,060* | 60.7 | 18,180* | | | | | | | | | | | | | | |
| | 120 | 52.1 | 20,520 | 54.6 | 20,520 | 56.7 | 17,250* | | | | | | | | | | | | | | |
| | 130 | 47.9 | 18,110 | 50.3 | 18,120 | 52.3 | 16,520* | | | | | | | | | | | | | | |
| | 33 | 82.8 | 32,000* | - | - | - | - | | | | | | | | | | | | | | |
| | 35 | 82.2 | 32,000* | - | - | - | - | | | | | | | | | | | | | | |
| | 40 | 80.7 | 32,000* | - | - | - | - | | | | | | | | | | | | | | |
| | 50 | 77.7 | 30,900* | 80.2 | 28,370* | 82.5 | 26,340* | | | | | | | | | | | | | | |
| 140' | 60 | 74.6 | 29,910* | 77.1 | 27,590* | 79.4 | 25,730* | | | | | | | | | | | | | | |
| | 70 | 71.4 | 28,870* | 73.9 | 26,840* | 76.2 | 24,370* | | | | | | | | | | | | | | |
| | 80 | 68.2 | 27,940* | 70.7 | 26,150* | 72.9 | 22,550* | | | | | | | | | | | | | | |
| | 90 | 65.0 | 27,180* | 67.4 | 25,490* | 69.6 | 21,090* | | | | | | | | | | | | | | |
| | 100 | 61.6 | 26,330* | 64.0 | 24,400* | 66.1 | 19,780* | | | | | | | | | | | | | | |
| | 110 | 58.1 | 22,980 | 60.4 | 22,810* | 62.5 | 18,700* | | | | | | | | | | | | | | |
| | 120 | 54.4 | 20,080 | 56.8 | 20,090 | 58.8 | 17,730* | | | | | | | | | | | | | | |
| | 130 | 50.6 | 17,670 | 52.9 | 17,670 | 54.9 | 16,910* | | | | | | | | | | | | | | |
| | 140 | 46.6 | 15,640 | 48.8 | 15,650 | 50.7 | 15,660 | | | | | | | | | | | | | | |
| | 34 | 82.9 | 32,000* | - | - | - | - | | | | | | | | | | | | | | |
| | 35 | 82.6 | 32,000* | - | - | - | - | | | | | | | | | | | | | | |
| | 40 | 81.2 | 32,000* | - | - | - | - | | | | | | | | | | | | | | |
| | 50 | 78.3 | 31,150* | 80.7 | 28,380* | 82.9 | 26,290* | | | | | | | | | | | | | | |
| 150' | 60 | 75.4 | 30,070* | 77.7 | 27,630* | 79.9 | 25,700* | | | | | | | | | | | | | | |
| | 70 | 72.4 | 29,090* | 74.7 | 26,860* | 76.9 | 24,840* | | | | | | | | | | | | | | |
| | 80 | 69.4 | 28,250* | 71.7 | 26,310* | 73.8 | 23,000* | | | | | | | | | | | | | | |
| | 90 | 66.3 | 27,440* | 68.6 | 25,640* | 70.7 | 21,460* | | | | | | | | | | | | | | |
| | 100 | 63.1 | 26,110 | 65.4 | 25,080* | 67.5 | 20,230* | | | | | | | | | | | | | | |
| | 110 | 59.9 | 22,580 | 62.1 | 22,590 | 64.1 | 19,050* | | | | | | | | | | | | | | |
| | 120 | 56.5 | 19,680 | 58.7 | 19,690 | 60.7 | 18,080* | | | | | | | | | | | | | | |
| | 130 | 52.9 | 17,270 | 55.1 | 17,270 | 57.0 | 17,290 | | | | | | | | | | | | | | |
| | 140 | 49.2 | 15,240 | 51.4 | 15,240 | 53.2 | 15,260 | | | | | | | | | | | | | | |
| | 150 | 45.3 | 13,490 | 47.4 | 13,500 | 49.1 | 13,510 | | | | | | | | | | | | | | |
| | 35 | 83.0 | 32,000* | - | - | - | - | | | | | | | | | | | | | | |
| | 40 | 81.6 | 32,000* | - | - | - | - | | | | | | | | | | | | | | |
| | 50 | 78.8 | 31,260* | 81.1 | 28,390* | - | - | | | | | | | | | | | | | | |
| | 60 | 76.1 | 30,270* | 78.3 | 27,640* | 80.4 | 25,770* | | | | | | | | | | | | | | |
| 160' | 70 | 73.3 | 29,280* | 75.5 | 26,960* | 77.6 | 25,200* | | | | | | | | | | | | | | |
| | 80 | 70.4 | 28,410* | 72.6 | 26,360* | 74.7 | 23,360* | | | | | | | | | | | | | | |
| | 90 | 67.5 | 27,590* | 69.7 | 25,740* | 71.7 | 21,860* | | | | | | | | | | | | | | |
| | 100 | 64.5 | 25,670 | 66.7 | 25,230* | 68.6 | 20,580* | | | | | | | | | | | | | | |
| | 110 | 61.4 | 22,140 | 63.6 | 22,140 | 65.5 | 19,500* | | | | | | | | | | | | | | |
| | 120 | 58.3 | 19,230 | 60.4 | 19,240 | 62.3 | 18,540* | | | | | | | | | | | | | | |
| | 130 | 55.0 | 16,820 | 57.1 | 16,820 | 58.9 | 16,840 | | | | | | | | | | | | | | |
| | 140 | 51.6 | 14,770 | 53.6 | 14,780 | 55.4 | 14,790 | | | | | | | | | | | | | | |
| | 150 | 48.0 | 13,030 | 50.0 | 13,040 | 51.7 | 13,060 | | | | | | | | | | | | | | |
| | 160 | 44.1 | 11,530 | 46.1 | 11,540 | 47.7 | 11,560 | | | | | | | | | | | | | | |
| | 37 | 82.8 | 32,000* | - | - | - | - | | | | | | | | | | | | | | |
| | 40 | 82.0 | 32,000* | - | - | - | - | | | | | | | | | | | | | | |
| | 50 | 79.4 | 31,370* | 81.5 | 28,420* | - | - | | | | | | | | | | | | | | |
| 170' | 60 | 76.7 | 30,340* | 78.9 | 27,770* | 80.9 | 25,780* | | | | | | | | | | | | | | |
| | 70 | 74.0 | 29,470* | 76.2 | 27,070* | 78.2 | 25,250* | | | | | | | | | | | | | | |
| | 80 | 71.3 | 28,560* | 73.4 | 26,440* | 75.4 | 23,770* | | | | | | | | | | | | | | |
| | 90 | 68.5 | 27,780* | 70.7 | 25,950* | 72.6 | 22,250* | | | | | | | | | | | | | | |
| | 100 | 65.7 | 25,240 | 67.8 | 25,240 | 69.7 | 20,960* | | | | | | | | | | | | | | |
| | 110 | 62.8 | 21,690 | 64.9 | 21,700 | 66.8 | 19,890* | | | | | | | | | | | | | | |
| | 120 | 59.9 | 18,800 | 61.9 | 18,810 | 63.7 | 18,820 | | | | | | | | | | | | | | |
| | 130 | 56.8 | 16,380 | 58.8 | 16,390 | 60.6 | 16,400 | | | | | | | | | | | | | | |
| | 140 | 53.6 | 14,330 | 55.6 | 14,340 | 57.3 | 14,350 | | | | | | | | | | | | | | |
| | 150 | 50.3 | 12,590 | 52.3 | 12,600 | 53.9 | 12,610 | | | | | | | | | | | | | | |
| | 160 | 46.8 | 11,090 | 48.7 | 11,090 | 50.3 | 11,110 | | | | | | | | | | | | | | |
| | 170 | 43.1 | 9,760 | 44.9 | 9,770 | 46.4 | 9,790 | | | | | | | | | | | | | | |
| | 38 | 82.8 | 32,000* | - | - | - | - | | | | | | | | | | | | | | |
| | 40 | 82.3 | 32,000* | - | - | - | - | | | | | | | | | | | | | | |
| | 50 | 79.8 | 31,400* | 81.9 | 28,460* | - | - | | | | | | | | | | | | | | |
| 180' | 60 | 77.3 | 30,400* | 79.4 | 27,770* | 81.3 | 25,760* | | | | | | | | | | | | | | |
| | 70 | 74.7 | 29,540* | 76.8 | 27,180* | 78.7 | 25,300* | | | | | | | | | | | | | | |
| | 80 | 72.2 | 28,800* | 74.2 | 26,610* | 76.1 | 24,140* | | | | | | | | | | | | | | |
| | 90 | 69.5 | 28,050* | 71.5 | 26,030* | 73.4 | 22,600* | | | | | | | | | | | | | | |
| | 100 | 66.8 | 24,800 | 68.8 | 24,800 | 70.7 | 21,330* | | | | | | | | | | | | | | |
| | 110 | 64.1 | 21,250 | 66.1 | 21,260 | 67.9 | 20,270* | | | | | | | | | | | | | | |
| | 120 | 61.3 | 18,350 | 63.3 | 18,350 | 65.0 | 18,360 | | | | | | | | | | | | | | |
| | 130 | 58.4 | 15,920 | 60.4 | 15,930 | 62.1 | 15,940 | | | | | | | | | | | | | | |
| | 140 | 55.4 | 13,890 | 57.4 | 13,890 | 59.0 | 13,910 | | | | | | | | | | | | | | |
| | 150 | 52.3 | 12,130 | 54.2 | 12,140 | 55.8 | 12,150 | | | | | | | | | | | | | | |
| | 160 | 49.1 | 10,620 | 51.0 | 10,630 | 52.5 | 10,640 | | | | | | | | | | | | | | |
| | 170 | 45.7 | 9,310 | 47.5 | 9,310 | 49.0 | 9,330 | | | | | | | | | | | | | | |
| | 180 | 42.1 | 8,160 | 43.8 | 8,160 | 45.2 | 8,180 | | | | | | | | | | | | | | |
| | 39 | 82.9 | 32,000* | - | - | - | - | | | | | | | | | | | | | | |
| | 40 | 82.6 | 32,000* | - | - | - | - | | | | | | | | | | | | | | |
| | 50 | 80.2 | 31,400* | 82.2 | 28,430* | - | - | | | | | | | | | | | | | | |
| 190' | 60 | 77.8 | 30,600* | 79.8 | 27,810* | 81.7 | 25,690* | | | | | | | | | | | | | | |
| | 70 | 75.4 | 29,700* | 77.4 | 27,180* | 79.2 | 25,250* | | | | | | | | | | | | | | |
| | 80 | 72.9 | 28,930* | 74.9 | 26,670* | 76.7 | 24,500* | | | | | | | | | | | | | | |
| | 90 | 70.4 | 28,210* | 72.3 | 26,110* | 74.1 | 23,030* | | | | | | | | | | | | | | |
| | 100 | 67.9 | 24,370 | 69.8 | 24,370 | 71.5 | 21,680* | | | | | | | | | | | | | | |
| | 110 | 65.3 | 20,820 | 67.2 | 20,820 | 68.9 | 20,600* | | | | | | | | | | | | | | |
| | 120 | 62.6 | 17,910 | 64.5 | 17,920 | 66.2 | 17,930 | | | | | | | | | | | | | | |
| | 130 | 59.9 | 15,490 | 61.8 | 15,500 | 63.4 | 15,510 | | | | | | | | | | | | | | |
| | 140 | 57.1 | 13,440 | 58.9 | 13,450 | 60.5 | 13,460 | | | | | | | | | | | | | | |
| | 150 | 54.2 | 11,690 | 56.0 | 11,700 | 57.6 | 11,710 | | | | | | | | | | | | | | |
| | 160 | 51.1 | 10,170 | 53.0 | 10,180 | 54.5 | 10,190 | | | | | | | | | | | | | | |
| | 170 | 48.0 | 8,850 | 49.8 | 8,860 | 51.2 | 8,870 | | | | | | | | | | | | | | |
| | 180 | 44.7 | 7,700 | 46.4 | 7,700 | 47.8 | 7,720 | | | | | | | | | | | | | | |
| | 190 | 41.1 | 6,680 | 42.8 | 6,690 | 44.1 | 6,710 | | | | | | | | | | | | | | |



LOAD CHART

HC 165

**With 77SI Hammerhead Tip Boom and 116,400 Pound Counterweight
#16HL Jib**

| 108,400 lb + 8,000 lb carbody counterweight | | | | | | | 360° | | | | | ANSI B 30.5 | | | | |
|---|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|---------|
| 50' Jib length | | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | |
| | 40 | 82.9 | 32,000* | - | - | - | - | | 43 | 82.8 | 31,930* | - | - | - | - | |
| | 50 | 80.6 | 31,470* | 82.6 | 28,410* | - | - | | 50 | 81.3 | 31,440* | - | - | - | - | |
| | 60 | 78.3 | 30,630* | 80.2 | 27,840* | 82.0 | 25,690* | | 60 | 79.2 | 30,650* | 81.0 | 27,690* | 82.6 | 25,540* | |
| | 70 | 76.0 | 29,840* | 77.9 | 27,180* | 79.6 | 25,260* | | 70 | 77.0 | 29,940* | 78.8 | 27,190* | 80.4 | 25,170* | |
| | 80 | 73.6 | 29,060* | 75.5 | 26,630* | 77.2 | 24,750* | | 80 | 74.9 | 29,220* | 76.6 | 26,760* | 78.2 | 24,830* | |
| | 90 | 71.2 | 28,370* | 73.1 | 26,200* | 74.8 | 23,280* | | 90 | 72.7 | 27,540* | 74.4 | 26,200* | 76.0 | 23,890* | |
| | 100 | 68.8 | 23,970 | 70.6 | 23,970 | 72.3 | 22,010* | | 100 | 70.4 | 23,100 | 72.1 | 23,100 | 73.7 | 22,600* | |
| | 110 | 66.3 | 20,410 | 68.1 | 20,410 | 69.8 | 20,420 | | 110 | 68.2 | 19,530 | 69.9 | 19,540 | 71.4 | 19,550 | |
| 200' | 120 | 63.8 | 17,500 | 65.6 | 17,510 | 67.2 | 17,520 | 220' | 120 | 65.9 | 16,620 | 67.6 | 16,630 | 69.1 | 16,640 | |
| | 130 | 61.2 | 15,070 | 63.0 | 15,080 | 64.6 | 15,090 | | | 130 | 63.5 | 14,200 | 65.2 | 14,200 | 66.7 | 14,220 |
| | 140 | 58.5 | 13,030 | 60.3 | 13,040 | 61.9 | 13,050 | | 140 | 61.1 | 12,140 | 62.8 | 12,150 | 64.3 | 12,160 | |
| | 150 | 55.8 | 11,270 | 57.6 | 11,280 | 59.1 | 11,290 | | 150 | 58.7 | 10,380 | 60.3 | 10,390 | 61.8 | 10,400 | |
| | 160 | 53.0 | 9,760 | 54.7 | 9,770 | 56.2 | 9,780 | | 160 | 56.1 | 8,860 | 57.8 | 8,870 | 59.2 | 8,880 | |
| | 170 | 50.0 | 8,440 | 51.8 | 8,440 | 53.2 | 8,460 | | 170 | 53.5 | 7,540 | 55.1 | 7,540 | 56.5 | 7,560 | |
| | 180 | 47.0 | 7,280 | 48.7 | 7,290 | 50.0 | 7,300 | | 180 | 50.8 | 6,370 | 52.4 | 6,380 | 53.8 | 6,400 | |
| | 190 | 43.7 | 6,260 | 45.4 | 6,270 | 46.7 | 6,280 | | 190 | 48.0 | 5,350 | 49.6 | 5,350 | 50.9 | 5,370 | |
| | 200 | 40.2 | 5,340 | 41.9 | 5,350 | 43.1 | 5,370 | | 200 | 45.1 | 4,430 | 46.6 | 4,440 | 47.8 | 4,460 | |
| | | | | | | | | | 210 | 42.0 | 3,610 | 43.5 | 3,620 | 44.6 | 3,640 | |
| | | | | | | | | | 220 | 38.6 | 2,880 | 40.1 | 2,890 | 41.2 | 2,910 | |
| | 41 | 83.0 | 32,000* | - | - | - | - | | | | | | | | | |
| | 50 | 81.0 | 31,480* | 82.8 | 28,380* | - | - | | | | | | | | | |
| | 60 | 78.8 | 30,580* | 80.6 | 27,770* | 82.3 | 25,540* | | | | | | | | | |
| | 70 | 76.5 | 29,810* | 78.3 | 27,180* | 80.1 | 25,220* | | | | | | | | | |
| | 80 | 74.3 | 29,100* | 76.1 | 26,680* | 77.8 | 24,820* | | | | | | | | | |
| | 90 | 72.0 | 27,960 | 73.8 | 26,250* | 75.4 | 23,600* | | | | | | | | | |
| | 100 | 69.6 | 23,530 | 71.4 | 23,530 | 73.1 | 22,340* | | | | | | | | | |
| | 110 | 67.3 | 19,970 | 69.0 | 19,980 | 70.7 | 19,990 | | | | | | | | | |
| 210' | 120 | 64.9 | 17,060 | 66.6 | 17,060 | 68.2 | 17,080 | | | | | | | | | |
| | 130 | 62.4 | 14,630 | 64.1 | 14,640 | 65.7 | 14,650 | | | | | | | | | |
| | 140 | 59.9 | 12,590 | 61.6 | 12,590 | 63.1 | 12,610 | | | | | | | | | |
| | 150 | 57.3 | 10,830 | 59.0 | 10,830 | 60.5 | 10,850 | | | | | | | | | |
| | 160 | 54.6 | 9,310 | 56.3 | 9,320 | 57.8 | 9,330 | | | | | | | | | |
| | 170 | 51.9 | 7,990 | 53.5 | 7,990 | 54.9 | 8,010 | | | | | | | | | |
| | 180 | 49.0 | 6,830 | 50.6 | 6,830 | 52.0 | 6,850 | | | | | | | | | |
| | 190 | 46.0 | 5,790 | 47.6 | 5,800 | 48.9 | 5,810 | | | | | | | | | |
| | 200 | 42.8 | 4,880 | 44.4 | 4,890 | 45.6 | 4,910 | | | | | | | | | |
| | 210 | 39.4 | 4,070 | 41.0 | 4,070 | 42.1 | 4,090 | | | | | | | | | |
| 60' Jib length | | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | |
| | 36 | 82.9 | 29,880* | - | - | - | - | | 37 | 83.0 | 29,680* | - | - | - | - | |
| | 40 | 81.8 | 29,420* | - | - | - | - | | 40 | 82.2 | 29,340* | - | - | - | - | |
| | 50 | 79.1 | 28,200* | 81.8 | 25,510* | - | - | | 50 | 79.6 | 28,330* | 82.2 | 25,530* | - | - | |
| | 60 | 76.3 | 27,270* | 79.0 | 24,810* | 81.6 | 22,830* | | 60 | 76.9 | 27,340* | 79.5 | 24,790* | 82.0 | 22,830* | |
| | 70 | 73.5 | 26,260* | 76.2 | 24,010* | 78.7 | 21,680* | | 70 | 74.3 | 26,490* | 76.8 | 24,170* | 79.3 | 21,980* | |
| | 80 | 70.6 | 25,410* | 73.3 | 23,400* | 75.8 | 20,150* | | 80 | 71.5 | 25,550* | 74.1 | 23,460* | 76.5 | 20,440* | |
| 150' | 90 | 67.7 | 24,590* | 70.4 | 22,830* | 72.8 | 18,770* | 160' | 90 | 68.8 | 24,830* | 71.3 | 22,930* | 73.7 | 19,080* | |
| | 100 | 64.7 | 23,830* | 67.4 | 21,900* | 69.8 | 17,590* | | | 100 | 65.9 | 24,100* | 68.5 | 22,370* | 70.8 | 17,960* |
| | 110 | 61.7 | 22,830 | 64.3 | 20,430* | 66.6 | 16,600* | | 110 | 63.1 | 22,380 | 65.6 | 21,000* | 67.8 | 16,910* | |
| | 120 | 58.5 | 19,930 | 61.1 | 19,150* | 63.4 | 15,730* | | 120 | 60.1 | 19,480 | 62.6 | 19,490 | 64.8 | 16,060* | |
| | 130 | 55.2 | 17,520 | 57.8 | 17,520 | 60.0 | 15,020* | | 130 | 57.0 | 17,070 | 59.5 | 17,080 | 61.6 | 15,300* | |
| | 140 | 51.8 | 15,470 | 54.3 | 15,480 | 56.5 | 14,350* | | 140 | 53.8 | 15,020 | 56.3 | 15,030 | 58.4 | 14,600* | |
| | 150 | 48.2 | 13,740 | 50.7 | 13,740 | 52.8 | 13,760 | | 150 | 50.5 | 13,280 | 52.9 | 13,290 | 54.9 | 13,310 | |
| | | | | | | | | | 160 | 47.0 | 11,780 | 49.3 | 11,780 | 51.3 | 11,800 | |

LOAD CHART

HC 165

**With 77SI Hammerhead Tip Boom and 116,400 Pound Counterweight
#16HL Jib**

| 108,400 lb + 8,000 lb carbody counterweight | | | | | | | 360° | | | | | ANSI B 30.5 | | | |
|---|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|-------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|
| 60' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | Rating (Pounds) | 15.0 Deg offset Boom Angle | Rating (Pounds) | 25.0 Deg offset Boom Angle | Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | Rating (Pounds) | 15.0 Deg offset Boom Angle | Rating (Pounds) | 25.0 Deg offset Boom Angle | Rating (Pounds) |
| | 39 | 82.8 | 29,550* | - | - | - | - | | | | | | | | |
| | 40 | 82.5 | 29,420* | - | - | - | - | | 42 | 83.0 | 29,200* | - | - | - | - |
| | 50 | 80.0 | 28,470* | 82.5 | 25,510* | - | - | | 50 | 81.2 | 28,520* | - | - | - | - |
| | 60 | 77.5 | 27,490* | 80.0 | 24,890* | 82.3 | 22,760* | | 60 | 79.0 | 27,660* | 81.2 | 24,800* | - | - |
| | 70 | 75.0 | 26,600* | 77.4 | 24,230* | 79.7 | 22,280* | | 70 | 76.7 | 26,840* | 78.9 | 24,240* | 81.0 | 22,240* |
| | 80 | 72.4 | 25,710* | 74.8 | 23,620* | 77.1 | 20,740* | | 80 | 74.4 | 26,140* | 76.6 | 23,710* | 78.7 | 21,460* |
| 170' | 90 | 69.7 | 24,950* | 72.2 | 23,000* | 74.4 | 19,370* | | 90 | 72.2 | 25,420* | 74.3 | 23,200* | 76.3 | 20,160* |
| | 100 | 67.1 | 24,260* | 69.5 | 22,450* | 71.7 | 18,210* | | 100 | 69.8 | 24,210 | 72.0 | 22,720* | 74.0 | 19,010* |
| | 110 | 64.3 | 21,950 | 66.7 | 21,540* | 68.9 | 17,260* | 200' | 110 | 67.5 | 20,650 | 69.6 | 20,660 | 71.5 | 18,020* |
| | 120 | 61.5 | 19,050 | 63.9 | 19,050 | 66.0 | 16,350* | | 120 | 65.1 | 17,750 | 67.2 | 17,750 | 69.1 | 17,170* |
| | 130 | 58.6 | 16,620 | 61.0 | 16,630 | 63.1 | 15,610* | | 130 | 62.6 | 15,320 | 64.7 | 15,330 | 66.6 | 15,340 |
| 140 | 55.6 | 14,590 | 58.0 | 14,590 | 60.0 | 14,610 | 140 | | 60.1 | 13,270 | 62.2 | 13,280 | 64.0 | 13,290 | |
| 150 | 52.5 | 12,830 | 54.8 | 12,840 | 56.8 | 12,860 | 150 | | 57.5 | 11,520 | 59.6 | 11,530 | 61.4 | 11,540 | |
| | 160 | 49.3 | 11,320 | 51.6 | 11,330 | 53.5 | 11,350 | 160 | 54.8 | 10,000 | 56.9 | 10,010 | 58.6 | 10,020 | |
| | 170 | 45.9 | 10,010 | 48.1 | 10,010 | 50.0 | 10,030 | 170 | 52.1 | 8,680 | 54.1 | 8,680 | 55.8 | 8,700 | |
| | | | | | | | | 180 | 49.2 | 7,520 | 51.2 | 7,530 | 52.8 | 7,540 | |
| | | | | | | | | 190 | 46.2 | 6,480 | 48.1 | 6,490 | 49.7 | 6,510 | |
| | | | | | | | | 200 | 43.0 | 5,570 | 44.9 | 5,580 | 46.4 | 5,600 | |
| | 40 | 82.8 | 29,390* | - | - | - | - | | | | | | | | |
| | 50 | 80.5 | 28,490* | 82.8 | 25,460* | - | - | | | | | | | | |
| | 60 | 78.0 | 27,500* | 80.4 | 24,870* | 82.7 | 22,780* | | 44 | 82.8 | 28,980* | - | - | - | - |
| | 70 | 75.6 | 26,720* | 78.0 | 24,200* | 80.2 | 22,270* | | 50 | 81.5 | 28,460* | - | - | - | - |
| | 80 | 73.1 | 25,890* | 75.5 | 23,680* | 77.7 | 20,950* | | 60 | 79.4 | 27,680* | 81.5 | 24,860* | - | - |
| 180' | 90 | 70.6 | 25,140* | 72.9 | 23,110* | 75.1 | 19,680* | | 70 | 77.2 | 26,940* | 79.3 | 24,250* | 81.3 | 22,180* |
| | 100 | 68.1 | 24,420* | 70.4 | 22,610* | 72.5 | 18,550* | | 80 | 75.0 | 26,190* | 77.1 | 23,760* | 79.1 | 21,670* |
| | 110 | 65.5 | 21,500 | 67.8 | 21,500 | 69.9 | 17,550* | | 90 | 72.8 | 25,480* | 74.9 | 23,320* | 76.9 | 20,370* |
| | 120 | 62.8 | 18,590 | 65.1 | 18,600 | 67.1 | 16,680* | 210' | 100 | 70.6 | 23,770 | 72.7 | 22,760* | 74.6 | 19,280* |
| | 130 | 60.1 | 16,170 | 62.3 | 16,180 | 64.4 | 15,900* | | 110 | 68.3 | 20,210 | 70.4 | 20,220 | 72.3 | 18,300* |
| 140 | 57.3 | 14,130 | 59.5 | 14,140 | 61.5 | 14,150 | 120 | | 66.0 | 17,300 | 68.1 | 17,310 | 69.9 | 17,330 | |
| 150 | 54.4 | 12,370 | 56.6 | 12,380 | 58.5 | 12,400 | 130 | | 63.7 | 14,880 | 65.7 | 14,890 | 67.5 | 14,900 | |
| 160 | 51.4 | 10,860 | 53.5 | 10,870 | 55.4 | 10,880 | 140 | | 61.3 | 12,820 | 63.3 | 12,830 | 65.1 | 12,850 | |
| | 170 | 48.2 | 9,540 | 50.3 | 9,550 | 52.1 | 9,570 | 150 | 58.8 | 11,060 | 60.8 | 11,070 | 62.6 | 11,080 | |
| | 180 | 44.9 | 8,390 | 47.0 | 8,400 | 48.7 | 8,410 | 160 | 56.3 | 9,540 | 58.3 | 9,550 | 60.0 | 9,570 | |
| | | | | | | | | 170 | 53.7 | 8,220 | 55.7 | 8,230 | 57.3 | 8,240 | |
| | | | | | | | | 180 | 51.0 | 7,050 | 52.9 | 7,060 | 54.6 | 7,080 | |
| | | | | | | | | 190 | 48.2 | 6,030 | 50.1 | 6,030 | 51.7 | 6,050 | |
| | | | | | | | | 200 | 45.2 | 5,110 | 47.1 | 5,120 | 48.6 | 5,140 | |
| | | | | | | | | 210 | 42.1 | 4,290 | 44.0 | 4,300 | 45.4 | 4,320 | |
| | 41 | 82.9 | 29,340* | - | - | - | - | | | | | | | | |
| | 50 | 80.8 | 28,440* | - | - | - | - | | | | | | | | |
| | 60 | 78.5 | 27,630* | 80.8 | 24,900* | 83.0 | 22,650* | | 45 | 82.8 | 28,830* | - | - | - | - |
| | 70 | 76.2 | 26,830* | 78.5 | 24,270* | 80.6 | 22,300* | | 50 | 81.8 | 28,440* | - | - | - | - |
| | 80 | 73.8 | 26,070* | 76.1 | 23,740* | 78.2 | 21,250* | | 60 | 79.8 | 27,700* | 81.8 | 24,750* | - | - |
| 190' | 90 | 71.4 | 25,330* | 73.7 | 23,150* | 75.7 | 19,930* | | 70 | 77.7 | 26,930* | 79.7 | 24,220* | 81.6 | 22,110* |
| | 100 | 69.0 | 24,620 | 71.2 | 22,660* | 73.3 | 18,790* | | 80 | 75.6 | 26,240* | 77.6 | 23,770* | 79.5 | 21,790* |
| | 110 | 66.5 | 21,060 | 68.7 | 21,060 | 70.7 | 17,770* | | 90 | 73.5 | 25,640* | 75.5 | 23,340* | 77.4 | 20,620* |
| | 120 | 64.0 | 18,150 | 66.2 | 18,160 | 68.2 | 16,920* | 220' | 100 | 71.3 | 23,340 | 73.3 | 22,800* | 75.2 | 19,460* |
| | 130 | 61.4 | 15,730 | 63.6 | 15,740 | 65.5 | 15,760 | | 110 | 69.1 | 19,780 | 71.1 | 19,790 | 73.0 | 18,550* |
| 140 | 58.7 | 13,680 | 60.9 | 13,690 | 62.8 | 13,710 | 120 | | 66.9 | 16,860 | 68.9 | 16,870 | 70.7 | 16,880 | |
| 150 | 56.0 | 11,920 | 58.1 | 11,930 | 60.0 | 11,950 | 130 | | 64.7 | 14,440 | 66.7 | 14,440 | 68.4 | 14,460 | |
| 160 | 53.2 | 10,410 | 55.3 | 10,420 | 57.1 | 10,430 | 140 | | 62.4 | 12,380 | 64.4 | 12,390 | 66.1 | 12,400 | |
| | 170 | 50.2 | 9,100 | 52.3 | 9,110 | 54.1 | 9,120 | 150 | 60.1 | 10,630 | 62.0 | 10,630 | 63.7 | 10,650 | |
| | 180 | 47.1 | 7,930 | 49.2 | 7,940 | 50.9 | 7,960 | 160 | 57.7 | 9,110 | 59.6 | 9,110 | 61.3 | 9,130 | |
| | 190 | 43.9 | 6,910 | 45.9 | 6,920 | 47.5 | 6,940 | 170 | 55.2 | 7,780 | 57.1 | 7,790 | 58.7 | 7,800 | |
| | | | | | | | | 180 | 52.7 | 6,600 | 54.5 | 6,610 | 56.1 | 6,630 | |
| | | | | | | | | 190 | 50.0 | 5,570 | 51.9 | 5,580 | 53.4 | 5,600 | |
| | | | | | | | | 200 | 47.3 | 4,660 | 49.1 | 4,660 | 50.6 | 4,680 | |
| | | | | | | | | 210 | 44.4 | 3,840 | 46.2 | 3,850 | 47.6 | 3,870 | |
| | | | | | | | | 220 | 41.3 | 3,110 | 43.1 | 3,120 | 44.4 | 3,140 | |



LOAD CHART

HC 165

**With 77SI Hammerhead Tip Boom and 116,400 Pound Counterweight
#16HL Jib**

| 108,400 lb + 8,000 lb carbody counterweight | | | | | | | 360° | | | | | ANSI B 30.5 | | | |
|---|-------------------|---------------------------|---------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------|-------------------|---------------------------|---------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| 70' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 22.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 18.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 20.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 22.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 18.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 20.0 Deg offset Rating (Pounds) |
| | 42 | 82.9 | 22,100* | - | - | - | - | | | | | | | | |
| | 50 | 81.0 | 21,480* | - | - | - | - | | 46 | 82.8 | 21,850* | - | - | - | - |
| | 60 | 78.7 | 20,700* | 81.4 | 18,390* | - | - | | 50 | 82.0 | 21,570* | - | - | - | - |
| | 70 | 76.4 | 19,940* | 79.0 | 17,870* | 81.6 | 16,230* | | 60 | 79.9 | 20,860* | 82.3 | 18,390* | - | - |
| | 80 | 74.0 | 19,280* | 76.7 | 17,350* | 79.2 | 15,900* | | 70 | 77.9 | 20,190* | 80.2 | 17,940* | 82.5 | 16,200* |
| | 90 | 71.6 | 18,640* | 74.2 | 16,860* | 76.7 | 15,440* | | 80 | 75.8 | 19,560* | 78.1 | 17,500* | 80.4 | 15,850* |
| 180' | 100 | 69.2 | 18,040* | 71.8 | 16,440* | 74.2 | 15,020* | | 90 | 73.6 | 18,950* | 76.0 | 17,000* | 78.2 | 15,570* |
| | 110 | 66.7 | 17,450* | 69.3 | 15,970* | 71.7 | 14,620* | | 100 | 71.5 | 18,420* | 73.8 | 16,600* | 76.0 | 15,140* |
| | 120 | 64.2 | 16,970* | 66.8 | 15,470* | 69.1 | 14,280* | 210' | 110 | 69.3 | 17,850* | 71.7 | 16,200* | 73.8 | 14,790* |
| | 130 | 61.6 | 16,370 | 64.1 | 15,050* | 66.5 | 13,780* | | 120 | 67.1 | 17,400* | 69.4 | 15,870* | 71.6 | 14,440* |
| | 140 | 58.9 | 14,330 | 61.5 | 14,340 | 63.7 | 13,200* | 130 | 64.9 | 15,080 | 67.2 | 15,080 | 69.3 | 14,160* | |
| | 150 | 56.2 | 12,570 | 58.7 | 12,580 | 60.9 | 12,600 | 140 | 62.6 | 13,020 | 64.9 | 13,030 | 66.9 | 13,050 | |
| | 160 | 53.4 | 11,060 | 55.9 | 11,070 | 58.0 | 11,090 | 150 | 60.2 | 11,270 | 62.5 | 11,280 | 64.5 | 11,290 | |
| | 170 | 50.4 | 9,750 | 52.9 | 9,760 | 55.0 | 9,780 | 160 | 57.8 | 9,750 | 60.1 | 9,760 | 62.1 | 9,770 | |
| | 180 | 47.3 | 8,580 | 49.8 | 8,590 | 51.8 | 8,610 | 170 | 55.4 | 8,420 | 57.6 | 8,430 | 59.5 | 8,450 | |
| | | | | | | | | 180 | 52.8 | 7,250 | 55.0 | 7,260 | 56.9 | 7,280 | |
| | | | | | | | | 190 | 50.2 | 6,220 | 52.4 | 6,230 | 54.2 | 6,250 | |
| | | | | | | | | 200 | 47.4 | 5,310 | 49.6 | 5,320 | 51.4 | 5,340 | |
| | | | | | | | | 210 | 44.6 | 4,480 | 46.7 | 4,490 | 48.4 | 4,520 | |
| | 43 | 82.9 | 22,030* | - | - | - | - | | | | | | | | |
| | 50 | 81.4 | 21,540* | - | - | - | - | | | | | | | | |
| | 60 | 79.2 | 20,720* | 81.7 | 18,410* | - | - | | | | | | | | |
| | 70 | 76.9 | 20,070* | 79.5 | 17,940* | 81.9 | 16,200* | | | | | | | | |
| | 80 | 74.6 | 19,410* | 77.2 | 17,440* | 79.6 | 15,860* | | | | | | | | |
| | 90 | 72.3 | 18,780* | 74.9 | 16,960* | 77.2 | 15,510* | | | | | | | | |
| 190' | 100 | 70.0 | 18,190* | 72.5 | 16,540* | 74.9 | 15,080* | | | | | | | | |
| | 110 | 67.7 | 17,600* | 70.2 | 16,090* | 72.5 | 14,700* | | | | | | | | |
| | 120 | 65.2 | 17,130* | 67.7 | 15,600* | 70.0 | 14,330* | | | | | | | | |
| | 130 | 62.8 | 15,930 | 65.2 | 15,190* | 67.5 | 14,010* | | | | | | | | |
| | 140 | 60.3 | 13,890 | 62.7 | 13,900 | 64.9 | 13,380* | | | | | | | | |
| | 150 | 57.7 | 12,130 | 60.1 | 12,140 | 62.2 | 12,150 | | | | | | | | |
| | 160 | 55.0 | 10,610 | 57.4 | 10,620 | 59.5 | 10,640 | | | | | | | | |
| | 170 | 52.2 | 9,300 | 54.6 | 9,310 | 56.7 | 9,320 | | | | | | | | |
| | 180 | 49.4 | 8,130 | 51.7 | 8,140 | 53.7 | 8,160 | | | | | | | | |
| | 190 | 46.4 | 7,100 | 48.7 | 7,110 | 50.6 | 7,130 | | | | | | | | |
| | 44 | 83.0 | 21,990* | - | - | - | - | | | | | | | | |
| | 50 | 81.7 | 21,500* | - | - | - | - | | | | | | | | |
| | 60 | 79.6 | 20,850* | 82.0 | 18,440* | - | - | | | | | | | | |
| | 70 | 77.4 | 20,120* | 79.9 | 17,940* | 82.2 | 16,180* | | | | | | | | |
| | 80 | 75.2 | 19,450* | 77.7 | 17,480* | 80.0 | 15,850* | | | | | | | | |
| | 90 | 73.0 | 18,840* | 75.5 | 16,990* | 77.7 | 15,510* | | | | | | | | |
| | 100 | 70.8 | 18,340* | 73.2 | 16,580* | 75.5 | 15,150* | | | | | | | | |
| 200' | 110 | 68.5 | 17,740* | 70.9 | 16,150* | 73.2 | 14,720* | | | | | | | | |
| | 120 | 66.2 | 17,270* | 68.6 | 15,780* | 70.8 | 14,430* | | | | | | | | |
| | 130 | 63.9 | 15,520 | 66.3 | 15,320* | 68.4 | 14,100* | | | | | | | | |
| | 140 | 61.5 | 13,470 | 63.8 | 13,480 | 66.0 | 13,500 | | | | | | | | |
| | 150 | 59.0 | 11,710 | 61.4 | 11,720 | 63.4 | 11,740 | | | | | | | | |
| | 160 | 56.5 | 10,190 | 58.8 | 10,200 | 60.9 | 10,220 | | | | | | | | |
| | 170 | 53.9 | 8,880 | 56.2 | 8,890 | 58.2 | 8,900 | | | | | | | | |
| | 180 | 51.2 | 7,700 | 53.5 | 7,710 | 55.4 | 7,730 | | | | | | | | |
| | 190 | 48.4 | 6,680 | 50.6 | 6,690 | 52.5 | 6,710 | | | | | | | | |
| | 200 | 45.4 | 5,760 | 47.6 | 5,770 | 49.4 | 5,790 | | | | | | | | |
| | 47 | 82.9 | 21,770* | - | - | - | - | | | | | | | | |
| | 50 | 82.3 | 21,540* | - | - | - | - | | | | | | | | |
| | 60 | 80.3 | 20,900* | 82.6 | 18,420* | - | - | | | | | | | | |
| | 70 | 78.3 | 20,230* | 80.6 | 17,950* | 82.8 | 16,110* | | | | | | | | |
| | 80 | 76.3 | 19,600* | 78.6 | 17,480* | 80.7 | 15,850* | | | | | | | | |
| | 90 | 74.2 | 19,070* | 76.5 | 17,090* | 78.6 | 15,540* | | | | | | | | |
| | 100 | 72.2 | 18,510* | 74.4 | 16,690* | 76.5 | 15,190* | | | | | | | | |
| 220' | 110 | 70.1 | 18,030* | 72.3 | 16,270* | 74.4 | 14,870* | | | | | | | | |
| | 120 | 68.0 | 17,070 | 70.2 | 15,950* | 72.2 | 14,510* | | | | | | | | |
| | 130 | 65.8 | 14,630 | 68.0 | 14,640 | 70.1 | 14,220* | | | | | | | | |
| | 140 | 63.6 | 12,590 | 65.8 | 12,600 | 67.8 | 12,610 | | | | | | | | |
| | 150 | 61.4 | 10,820 | 63.6 | 10,830 | 65.5 | 10,850 | | | | | | | | |
| | 160 | 59.1 | 9,300 | 61.3 | 9,310 | 63.2 | 9,330 | | | | | | | | |
| | 170 | 56.7 | 7,970 | 58.9 | 7,980 | 60.8 | 8,000 | | | | | | | | |
| | 180 | 54.3 | 6,800 | 56.5 | 6,810 | 58.3 | 6,830 | | | | | | | | |
| | 190 | 51.8 | 5,770 | 53.9 | 5,780 | 55.8 | 5,800 | | | | | | | | |
| | 200 | 49.2 | 4,850 | 51.3 | 4,860 | 53.1 | 4,880 | | | | | | | | |
| | 210 | 46.5 | 4,030 | 48.6 | 4,040 | 50.3 | 4,060 | | | | | | | | |
| | 220 | 43.7 | 3,290 | 45.8 | 3,310 | 47.4 | 3,330 | | | | | | | | |

LOAD CHART

HC 165

**With 77SI Hammerhead Tip Boom and 116,400 Pound Counterweight
#16HL Jib**

| 108,400 lb + 8,000 lb carbody counterweight | | | | | | | 360° | | ANSI B 30.5 | | | | | | | |
|---|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|--|
| 80' Jib length | | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | |
| | 46 | 83.0 | 17,270* | - | - | - | - | | | | | | | | | |
| | 50 | 82.2 | 16,970* | - | - | - | - | | | | | | | | | |
| | 60 | 80.1 | 16,290* | 82.9 | 14,140* | - | - | | | | | | | | | |
| | 70 | 78.0 | 15,670* | 80.8 | 13,670* | - | - | | | | | | | | | |
| | 80 | 75.9 | 15,090* | 78.7 | 13,280* | 81.2 | 11,660* | | | | | | | | | |
| | 90 | 73.8 | 14,540* | 76.5 | 12,780* | 79.1 | 11,300* | | | | | | | | | |
| | 100 | 71.7 | 14,020* | 74.4 | 12,320* | 76.9 | 10,950* | | | | | | | | | |
| | 110 | 69.5 | 13,530* | 72.2 | 11,880* | 74.7 | 10,600* | | | | | | | | | |
| 200' | 120 | 67.3 | 13,030* | 70.0 | 11,480* | 72.4 | 10,340* | | | | | | | | | |
| | 130 | 65.0 | 12,530* | 67.7 | 11,100* | 70.1 | 10,080* | | | | | | | | | |
| | 140 | 62.8 | 12,070* | 65.4 | 10,760* | 67.8 | 9,840* | | | | | | | | | |
| | 150 | 60.4 | 11,630* | 63.0 | 10,460* | 65.4 | 9,630* | | | | | | | | | |
| | 160 | 58.0 | 10,390 | 60.6 | 10,200* | 62.9 | 9,480* | | | | | | | | | |
| | 170 | 55.6 | 9,060 | 58.1 | 9,070 | 60.4 | 9,090 | | | | | | | | | |
| | 180 | 53.0 | 7,890 | 55.5 | 7,900 | 57.7 | 7,930 | | | | | | | | | |
| | 190 | 50.4 | 6,860 | 52.9 | 6,870 | 55.0 | 6,900 | | | | | | | | | |
| | 200 | 47.6 | 5,950 | 50.1 | 5,960 | 52.2 | 5,980 | | | | | | | | | |
| | 48 | 82.8 | 17,160* | - | - | - | - | | | | | | | | | |
| | 50 | 82.4 | 17,010* | - | - | - | - | | | | | | | | | |
| | 60 | 80.5 | 16,330* | - | - | - | - | | | | | | | | | |
| | 70 | 78.4 | 15,690* | 81.1 | 13,680* | - | - | | | | | | | | | |
| | 80 | 76.4 | 15,110* | 79.1 | 13,290* | 81.5 | 11,650* | | | | | | | | | |
| | 90 | 74.4 | 14,590* | 77.0 | 12,850* | 79.5 | 11,300* | | | | | | | | | |
| | 100 | 72.3 | 14,080* | 74.9 | 12,410* | 77.4 | 10,960* | | | | | | | | | |
| | 110 | 70.2 | 13,650* | 72.8 | 11,930* | 75.2 | 10,630* | | | | | | | | | |
| 210' | 120 | 68.1 | 13,190* | 70.7 | 11,540* | 73.1 | 10,380* | | | | | | | | | |
| | 130 | 66.0 | 12,680* | 68.5 | 11,170* | 70.9 | 10,120* | | | | | | | | | |
| | 140 | 63.8 | 12,180* | 66.3 | 10,870* | 68.6 | 9,900* | | | | | | | | | |
| | 150 | 61.5 | 11,460 | 64.1 | 10,570* | 66.3 | 9,690* | | | | | | | | | |
| | 160 | 59.3 | 9,940 | 61.8 | 9,950 | 64.0 | 9,490* | | | | | | | | | |
| | 170 | 56.9 | 8,610 | 59.4 | 8,620 | 61.6 | 8,640 | | | | | | | | | |
| | 180 | 54.5 | 7,440 | 57.0 | 7,460 | 59.1 | 7,480 | | | | | | | | | |
| | 190 | 52.0 | 6,410 | 54.4 | 6,420 | 56.5 | 6,440 | | | | | | | | | |
| | 200 | 49.4 | 5,490 | 51.8 | 5,500 | 53.9 | 5,530 | | | | | | | | | |
| | 210 | 46.7 | 4,670 | 49.1 | 4,680 | 51.1 | 4,700 | | | | | | | | | |
| | 49 | 82.9 | 17,050* | - | - | - | - | | | | | | | | | |
| | 50 | 82.7 | 17,020* | - | - | - | - | | | | | | | | | |
| | 60 | 80.8 | 16,340* | - | - | - | - | | | | | | | | | |
| | 70 | 78.8 | 15,740* | 81.4 | 13,690* | - | - | | | | | | | | | |
| | 80 | 76.9 | 15,200* | 79.4 | 13,310* | 81.8 | 11,660* | | | | | | | | | |
| | 90 | 74.9 | 14,660* | 77.5 | 12,920* | 79.8 | 11,300* | | | | | | | | | |
| | 100 | 72.9 | 14,190* | 75.5 | 12,440* | 77.8 | 10,960* | | | | | | | | | |
| | 110 | 70.9 | 13,750* | 73.4 | 12,040* | 75.8 | 10,660* | | | | | | | | | |
| 220' | 120 | 68.9 | 13,320* | 71.4 | 11,630* | 73.7 | 10,390* | | | | | | | | | |
| | 130 | 66.8 | 12,810* | 69.3 | 11,250* | 71.6 | 10,160* | | | | | | | | | |
| | 140 | 64.7 | 12,370* | 67.2 | 10,950* | 69.4 | 9,950* | | | | | | | | | |
| | 150 | 62.6 | 11,020 | 65.0 | 10,620* | 67.2 | 9,720* | | | | | | | | | |
| | 160 | 60.4 | 9,500 | 62.8 | 9,510 | 65.0 | 9,520 | | | | | | | | | |
| | 170 | 58.2 | 8,160 | 60.6 | 8,170 | 62.7 | 8,190 | | | | | | | | | |
| | 180 | 55.9 | 7,000 | 58.2 | 7,010 | 60.3 | 7,030 | | | | | | | | | |
| | 190 | 53.5 | 5,960 | 55.9 | 5,970 | 57.9 | 5,990 | | | | | | | | | |
| | 200 | 51.1 | 5,040 | 53.4 | 5,050 | 55.4 | 5,070 | | | | | | | | | |
| | 210 | 48.5 | 4,210 | 50.8 | 4,220 | 52.8 | 4,250 | | | | | | | | | |
| | 220 | 45.9 | 3,480 | 48.2 | 3,490 | 50.0 | 3,510 | | | | | | | | | |

Warning

This rating chart is invalid if the crane has been modified or altered by use of other than GENUINE AMERICAN PARTS as such modifications or alterations may affect its capacity or safe operation. See American Crane Corporation Service Bulliten #259.

Ratings in this chart are in POUNDS and do not exceed the percentage of tipping specified for this crane by ANSI B30.5. All ratings require that the crane be standing level on a firm uniformly supporting surface.

Do not lift loads in excess of those shown on this chart. Lifting loads in excess of those shown or operation not in accordance with good operating practice, including limitations shown on page 3499 of Operator's Manual, can cause tipping, structural damage or catastrophic failure.

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

„JIB RADIUS IN FEET“ is the horizontal distance at ground level from the crane centerline of rotation to a vertical line through the center of gravity of the suspended load.

When using the main boom fall with jib in place, the main fall ratings must be reduced by the jib effective weight shown on the jib rating chart plus twice the weight of all suspended blocks, slings, rope, etc., at the jib fall. See Appendix A.

Blocks, slings, buckets and other load carrying devices are considered part of the load. The weight of standard hoisting ropes for the rating at a given radius has been calculated as part of the boom point load and need not be considered in determining net allowable loads. See Appendix A.

Ratings shown on this chart make no allowance for such factors as out of plumb loads, wind, poor soil conditions, improper inflation of rubber tires and dynamic effects due to excessive operating speeds. The user (operator) must exercise judgement to make allowance for these conditions. See page 3499 of Operator's Manual for detailed information.

No account is taken of the wind force on the load. This effect, which can be substantial for loads with large surface areas, must be considered by the user. In any wind it is strongly recommended that taglines be used to control the load.

BOOM HOIST LINE is 14 parts of 7/8 inch diameter EIPS wire rope with a minimum breaking strength of 79,600 pound.

PENDANT SUSPENSION LINE is 4 parts of 1.375 inch diameter EEIPS wire rope with a minimum breaking strength of 211,000 pound.

JIB BACKSTAY LINE AND FRONTSTAY LINES are 2 parts of 0.875 inch diameter wire rope with a minimum breaking strength of 69,200 pound.

WHIP LINE – 1.125 inch diameter EIPS wire rope with a minimum breaking strength of 130,000 pound or

ALTERNATE WHIP LINE (ROTATION RESISTANT) – 1.125 inch diameter BRIDON ENDURANCE DYFORM 34LR Grade 2160 wire rope with a minimum breaking strength of 167,200 pound.

ERECTION

Erection „OVER THE END“ is with the boom over the idler end with idler tumblers blocked (See operator's manual for blocking instructions).

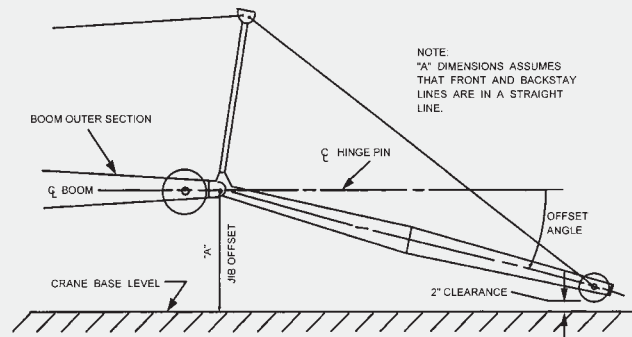
Erection „OVER THE SIDE“ is with the boom 90° to the sideframes and with the side frames extended. Blocks, slings and other load carrying devices must be on the ground during erection.

| LOAD HOISTING INFORMATION - 1.125 inch diameter EIPS wire rope | | | |
|--|-----------------------|--------------------------------|-------------|
| MAXIMUM LIFTING CAPACITY - LBS. | MINIMUM PARTS OF LINE | MAXIMUM HOISTING DISTANCE - FT | |
| | | MAIN (FRONT) | AUX. (REAR) |
| 32,000 | 1 | 1,312 | 1,312 |

| LOAD HOISTING INFORMATION (ROTATION RESISTANT LOAD LINE) 1.125 inch diameter BRIDON ENDURANCE DYFORM 34LR Grade 2160 wire rope | | | |
|---|-----------------------|----------------------------------|-------------|
| MAXIMUM LIFTING CAPACITY - LBS. | MINIMUM PARTS OF LINE | MAXIMUM HOISTING DISTANCE - FEET | |
| | | MAIN (FRONT) | AUX. (REAR) |
| 32,000 | 1 | 1,312 | 1,312 |

| 77SI HAMMERHEAD BOOM COMPOSITION CHART | | | | | | | |
|--|--------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|---------------------------------|-----------------------------|
| BOOM LENGTH (METERS) | BOOM LENGTH (FEET) | BOOM SECTIONS | | | | | |
| | | 9.1 M 30' 77SI INNER | 3.0 M 10' 77S CENTER | 6.1 M 20' 77S CENTER | 15.2 M 50' 77S CENTER | 5.9 M 19.5' 77HL OUTER | 0 M 0' HAMMER HEAD |
| 15.2 M | 50 | 1 | 0 | 0 | 0 | 1 | 1 |
| 18.3 M | 60 | 1 | 1 | 0 | 0 | 1 | 1 |
| 21.3 M | 70 | 1 | 1 | 0 | 1 | 1 | 1 |
| 24.4 M | 80 | 1 | 1 | 1 | 0 | 1 | 1 |
| 27.4 M | 90 | 1 | 0 | 2 | 0 | 1 | 1 |
| 30.5 M | 100 | 1 | 0 | 0 | 1 | 1 | 1 |
| 33.5 M | 110 | 1 | 1 | 0 | 1 | 1 | 1 |
| 36.6 M | 120 | 1 | 0 | 1 | 1 | 1 | 1 |
| 39.6 M | 130 | 1 | 1 | 1 | 1 | 1 | 1 |
| 42.7 M | 140 | 1 | 0 | 2 | 1 | 1 | 1 |
| 45.7 M | 150 | 1 | 0 | 0 | 2 | 1 | 1 |
| 48.8 M | 160 | 1 | 1 | 0 | 2 | 1 | 1 |
| 51.8 M | 170 | 1 | 0 | 1 | 2 | 1 | 1 |
| 54.9 M | 180 | 1 | 1 | 1 | 2 | 1 | 1 |
| 57.9 M | 190 | 1 | 0 | 2 | 2 | 1 | 1 |
| 61.0 M | 200 | 1 | 0 | 0 | 3 | 1 | 1 |
| 64.0 M | 210 | 1 | 1 | 0 | 3 | 1 | 1 |
| 67.1 M | 220 | 1 | 0 | 1 | 3 | 1 | 1 |
| 70.1 M | 230 | 1 | 1 | 1 | 3 | 1 | 1 |
| 73.2 M | 240 | 1 | 0 | 2 | 3 | 1 | 1 |

| 77SI HAMMERHEAD BOOM MAXIMUM BOOM & JIB SELF-ERECTION DATA | | | | |
|---|--------------------|-------------------|--------------------|-------------------|
| | OVER THE END | | OVER THE SIDE | |
| | BOOM LENGTH (FEET) | JIB LENGTH (FEET) | BOOM LENGTH (FEET) | JIB LENGTH (FEET) |
| #16HL JIB | 240 | 0 | 220 | 0 |
| | 230 | 0 | 210 | 40 |
| | 220 | 80 | 200 | 80 |

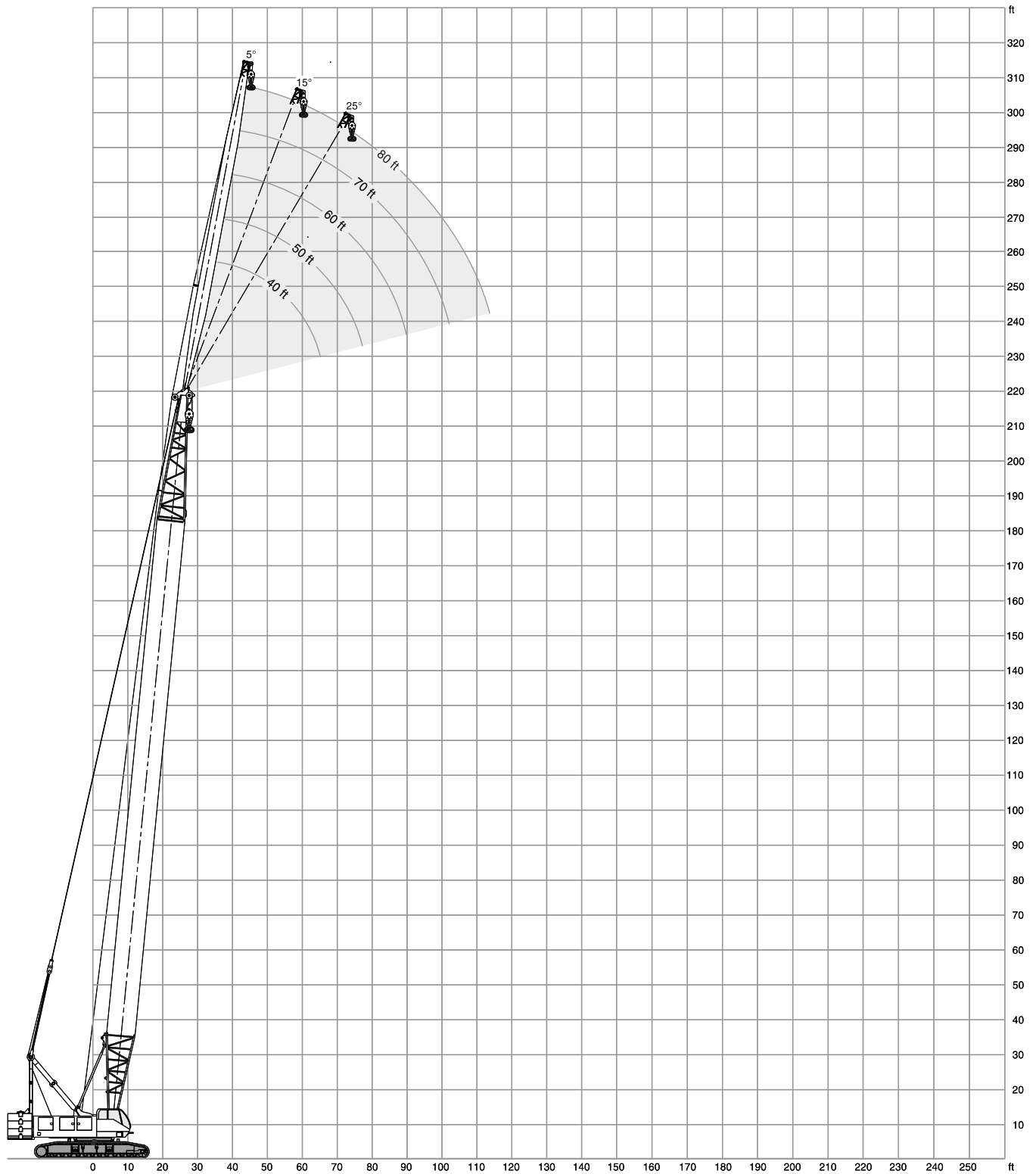


| #16HL JIB COMPOSITION CHART | | | | | | | | |
|-----------------------------|-----------|------------|------------|-----------|--------------------------|--------------------------|----------|---------|
| JIB LENGTH (FEET) | 20' INNER | 10' CENTER | 20' CENTER | 20' OUTER | EFF. JIB WEIGHT (POUNDS) | JIB OFFSET \"A\" IN FEET | | |
| | | | | | | 5' | 15' | 25' |
| 40 | 1 | 0 | 0 | 1 | 1,500 | 4'-10" | 10'- 2" | 15'- 1" |
| 50 | 1 | 1 | 0 | 1 | 2,050 | 5'- 8" | 12'- 11" | 18'- 3" |
| 60 | 1 | 0 | 1 | 1 | 2,600 | 6'- 6" | 13'-10" | 21'- 2" |
| 70 | 1 | 1 | 1 | 1 | 3,150 | 7'- 1" | 15'-10" | 24'- 4" |
| 80 | 1 | 0 | 2 | 1 | 3,700 | 7'- 9" | 17'- 8" | 27'- 4" |

RANGE DIAGRAM

HC 165

77SI Offset Tip Boom, #16HL Jib



LOAD CHART

HC 165

**With 77SI Offset Tip Boom and 102,000 Pound Upper Counterweight
#16HL Jib**

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | | | | | |
|----------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| 40' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) |
| 100' | 31 | 80.6 | 32,000* | - | - | - | - | 140' | 37 | 80.8 | 32,000* | - | - | - | - |
| | 35 | 78.9 | 32,000* | - | - | - | - | | 40 | 79.8 | 32,000* | - | - | - | - |
| | 40 | 76.9 | 32,000* | 79.6 | 32,000* | - | - | | 50 | 76.6 | 32,000* | 78.7 | 32,000* | 80.7 | 32,000* |
| | 50 | 72.6 | 32,000* | 75.3 | 32,000* | 77.8 | 31,510* | | 60 | 73.3 | 32,000* | 75.4 | 32,000* | 77.3 | 30,910* |
| | 60 | 68.3 | 32,000* | 71.0 | 32,000* | 73.4 | 28,280* | | 70 | 69.9 | 32,000* | 72.0 | 32,000* | 73.9 | 28,450* |
| | 70 | 63.8 | 32,000* | 66.4 | 31,740* | 68.8 | 25,680* | | 80 | 66.5 | 32,000* | 68.6 | 32,000* | 70.4 | 26,350* |
| | 80 | 59.2 | 32,000* | 61.7 | 28,780* | 64.0 | 23,630* | | 90 | 63.0 | 30,350 | 65.0 | 30,350 | 66.8 | 24,570* |
| | 90 | 54.2 | 30,280* | 56.8 | 26,380* | 59.0 | 21,980* | | 100 | 59.3 | 26,180 | 61.3 | 26,180 | 63.1 | 23,090* |
| | 100 | 49.0 | 27,480* | 51.4 | 24,450* | 53.5 | 20,650* | | 110 | 55.6 | 22,830 | 57.5 | 22,830 | 59.2 | 21,890* |
| | | | | | | | | | | 120 | 51.6 | 20,090 | 53.5 | 20,100 | 55.1 |
| 110' | 32 | 80.8 | 32,000* | - | - | - | - | 150' | 38 | 81.0 | 32,000* | - | - | - | - |
| | 35 | 79.7 | 32,000* | - | - | - | - | | 40 | 80.3 | 32,000* | - | - | - | - |
| | 40 | 77.7 | 32,000* | 80.3 | 32,000* | - | - | | 50 | 77.3 | 32,000* | 79.3 | 32,000* | - | - |
| | 50 | 73.8 | 32,000* | 76.3 | 32,000* | 78.7 | 32,000* | | 60 | 74.2 | 32,000* | 76.2 | 32,000* | 78.0 | 31,480* |
| | 60 | 69.8 | 32,000* | 72.3 | 32,000* | 74.6 | 28,980* | | 70 | 71.0 | 32,000* | 73.0 | 32,000* | 74.8 | 28,990* |
| | 70 | 65.7 | 32,000* | 68.1 | 32,000* | 70.4 | 26,500* | | 80 | 67.8 | 32,000* | 69.8 | 32,000* | 71.5 | 26,990* |
| | 80 | 61.4 | 32,000* | 63.8 | 30,030* | 66.0 | 24,370* | | 90 | 64.5 | 29,960 | 66.4 | 29,960 | 68.2 | 25,210* |
| | 90 | 57.0 | 31,470 | 59.3 | 27,580* | 61.4 | 22,710* | | 100 | 61.1 | 25,770 | 63.0 | 25,780 | 64.7 | 23,680* |
| | 100 | 52.2 | 27,310 | 54.6 | 25,450* | 56.6 | 21,280* | | 110 | 57.6 | 22,430 | 59.5 | 22,440 | 61.1 | 22,430* |
| | 110 | 47.2 | 23,980 | 49.5 | 23,790* | 51.4 | 20,120* | | 120 | 53.9 | 19,690 | 55.8 | 19,700 | 57.4 | 19,710 |
| 120' | 34 | 80.7 | 32,000* | - | - | - | - | 160' | 40 | 80.8 | 32,000* | - | - | - | - |
| | 35 | 80.3 | 32,000* | - | - | - | - | | 50 | 77.9 | 32,000* | 79.8 | 32,000* | - | - |
| | 40 | 78.5 | 32,000* | 80.9 | 32,000* | - | - | | 60 | 75.0 | 32,000* | 76.9 | 32,000* | 78.6 | 31,940* |
| | 50 | 74.9 | 32,000* | 77.2 | 32,000* | 79.4 | 32,000* | | 70 | 72.0 | 32,000* | 73.9 | 32,000* | 75.6 | 29,580* |
| | 60 | 71.1 | 32,000* | 73.5 | 32,000* | 75.6 | 29,690* | | 80 | 69.0 | 32,000* | 70.8 | 32,000* | 72.5 | 27,520* |
| | 70 | 67.3 | 32,000* | 69.6 | 32,000* | 71.7 | 27,140* | | 90 | 65.9 | 29,540 | 67.7 | 29,550 | 69.4 | 25,740* |
| | 80 | 63.4 | 32,000* | 65.6 | 31,170* | 67.7 | 25,050* | | 100 | 62.7 | 25,360 | 64.5 | 25,360 | 66.1 | 24,220* |
| | 90 | 59.3 | 31,090 | 61.5 | 28,640* | 63.5 | 23,330* | | 110 | 59.4 | 22,010 | 61.2 | 22,020 | 62.8 | 22,030 |
| | 100 | 55.0 | 26,920 | 57.2 | 26,480* | 59.1 | 21,910* | | 120 | 56.0 | 19,280 | 57.8 | 19,280 | 59.3 | 19,290 |
| | 110 | 50.4 | 23,590 | 52.6 | 23,590 | 54.5 | 20,730* | | 130 | 52.5 | 16,990 | 54.2 | 17,000 | 55.7 | 17,010 |
| 120 | 45.6 | 20,860 | 47.7 | 20,870 | 49.4 | 19,770* | 140 | 48.7 | 15,060 | 50.4 | 15,070 | 51.9 | 15,080 | | |
| | | | | | | | | 150 | 44.8 | 13,420 | 46.4 | 13,420 | 47.8 | 13,440 | |
| | | | | | | | | 160 | 40.5 | 12,000 | 42.1 | 12,010 | 43.3 | 12,020 | |
| 130' | 35 | 80.9 | 32,000* | - | - | - | - | 170' | 41 | 81.0 | 32,000* | - | - | - | - |
| | 40 | 79.2 | 32,000* | - | - | - | - | | 50 | 78.5 | 32,000* | 80.3 | 32,000* | - | - |
| | 50 | 75.8 | 32,000* | 78.0 | 32,000* | 80.1 | 32,000* | | 60 | 75.7 | 32,000* | 77.5 | 32,000* | 79.2 | 32,000* |
| | 60 | 72.3 | 32,000* | 74.5 | 32,000* | 76.5 | 30,320* | | 70 | 72.9 | 32,000* | 74.7 | 32,000* | 76.3 | 29,950* |
| | 70 | 68.7 | 32,000* | 70.9 | 32,000* | 72.9 | 27,880* | | 80 | 70.0 | 32,000* | 71.8 | 32,000* | 73.4 | 27,990* |
| | 80 | 65.0 | 32,000* | 67.2 | 32,000* | 69.2 | 25,790* | | 90 | 67.1 | 29,140 | 68.8 | 29,150 | 70.4 | 26,220* |
| | 90 | 61.3 | 30,750 | 63.4 | 29,620* | 65.3 | 23,990* | | 100 | 64.1 | 24,960 | 65.8 | 24,960 | 67.4 | 24,710* |
| | 100 | 57.3 | 26,580 | 59.4 | 26,590 | 61.3 | 22,550* | | 110 | 61.0 | 21,600 | 62.7 | 21,610 | 64.3 | 21,620 |
| | 110 | 53.2 | 23,240 | 55.3 | 23,240 | 57.0 | 21,300* | | 120 | 57.8 | 18,860 | 59.5 | 18,860 | 61.0 | 18,880 |
| | 120 | 48.8 | 20,500 | 50.9 | 20,510 | 52.5 | 20,280* | | 130 | 54.5 | 16,570 | 56.2 | 16,580 | 57.6 | 16,590 |
| 130 | 44.1 | 18,240 | 46.1 | 18,250 | 47.7 | 18,260 | 140 | 51.1 | 14,650 | 52.7 | 14,650 | 54.1 | 14,670 | | |
| | | | | | | | | 150 | 47.5 | 13,000 | 49.1 | 13,010 | 50.4 | 13,020 | |
| | | | | | | | | 160 | 43.6 | 11,580 | 45.2 | 11,580 | 46.4 | 11,600 | |
| | | | | | | | | 170 | 39.5 | 10,340 | 41.0 | 10,350 | 42.1 | 10,360 | |

LOAD CHART

HC 165

**With 77SI Offset Tip Boom and 102,000 Pound Upper Counterweight
#16HL Jib**

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | | | | | |
|----------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| 40' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) |
| | 43 | 80.9 | 32,000* | - | - | - | - | | | | | | | | |
| | 50 | 79.0 | 32,000* | 80.8 | 32,000* | - | - | | 48 | 80.8 | 32,000* | - | - | - | - |
| | 60 | 76.4 | 32,000* | 78.1 | 32,000* | 79.7 | 32,000* | | 50 | 80.4 | 32,000* | - | - | - | - |
| | 70 | 73.7 | 32,000* | 75.4 | 32,000* | 77.0 | 30,450* | | 60 | 78.0 | 32,000* | 79.6 | 32,000* | 81.0 | 32,000* |
| | 80 | 71.0 | 32,000* | 72.7 | 32,000* | 74.2 | 28,440* | | 70 | 75.7 | 32,000* | 77.2 | 32,000* | 78.6 | 31,760* |
| | 90 | 68.2 | 28,770 | 69.9 | 28,780 | 71.4 | 26,700* | | 80 | 73.3 | 32,000* | 74.8 | 32,000* | 76.2 | 29,790* |
| 180' | 100 | 65.4 | 24,580 | 67.0 | 24,590 | 68.5 | 24,600 | | 90 | 70.9 | 27,530 | 72.4 | 27,540 | 73.8 | 27,550 |
| | 110 | 62.4 | 21,230 | 64.1 | 21,230 | 65.6 | 21,240 | | 100 | 68.5 | 23,330 | 69.9 | 23,330 | 71.3 | 23,340 |
| | 120 | 59.5 | 18,480 | 61.1 | 18,490 | 62.5 | 18,500 | 210' | 110 | 66.0 | 19,970 | 67.4 | 19,980 | 68.8 | 19,990 |
| | 130 | 56.4 | 16,190 | 58.0 | 16,200 | 59.4 | 16,210 | | 120 | 63.4 | 17,210 | 64.9 | 17,220 | 66.2 | 17,230 |
| | 140 | 53.2 | 14,270 | 54.8 | 14,270 | 56.1 | 14,290 | | 130 | 60.9 | 14,930 | 62.3 | 14,930 | 63.6 | 14,940 |
| | 150 | 49.8 | 12,620 | 51.4 | 12,620 | 52.7 | 12,640 | | 140 | 58.2 | 12,990 | 59.6 | 12,990 | 60.8 | 13,000 |
| 160 | 46.3 | 11,190 | 47.8 | 11,200 | 49.1 | 11,210 | 150 | | 55.4 | 11,330 | 56.8 | 11,330 | 58.0 | 11,350 | |
| 170 | 42.6 | 9,950 | 44.0 | 9,960 | 45.2 | 9,970 | 160 | | 52.6 | 9,890 | 54.0 | 9,900 | 55.1 | 9,910 | |
| | 180 | 38.5 | 8,870 | 39.9 | 8,870 | 41.0 | 8,890 | 170 | 49.6 | 8,640 | 51.0 | 8,650 | 52.1 | 8,660 | |
| | | | | | | | | 180 | 46.5 | 7,550 | 47.9 | 7,550 | 49.0 | 7,570 | |
| | | | | | | | | 190 | 43.3 | 6,570 | 44.6 | 6,580 | 45.6 | 6,590 | |
| | | | | | | | | 200 | 39.8 | 5,720 | 41.1 | 5,730 | 42.0 | 5,740 | |
| | | | | | | | | 210 | 36.0 | 4,960 | 37.2 | 4,970 | 38.1 | 4,980 | |
| | 45 | 80.8 | 32,000* | - | - | - | - | | | | | | | | |
| | 50 | 79.5 | 32,000* | - | - | - | - | | | | | | | | |
| | 60 | 77.0 | 32,000* | 78.6 | 32,000* | 80.2 | 32,000* | | 49 | 81.0 | 32,000* | - | - | - | - |
| | 70 | 74.4 | 32,000* | 76.1 | 32,000* | 77.6 | 30,910* | | 50 | 80.7 | 32,000* | - | - | - | - |
| | 80 | 71.8 | 32,000* | 73.4 | 32,000* | 74.9 | 28,870* | | 60 | 78.5 | 32,000* | 80.0 | 32,000* | - | - |
| | 90 | 69.2 | 28,350 | 70.8 | 28,360 | 72.3 | 27,220* | | 70 | 76.2 | 32,000* | 77.7 | 32,000* | 79.1 | 32,000* |
| 190' | 100 | 66.5 | 24,160 | 68.1 | 24,170 | 69.5 | 24,180 | | 80 | 74.0 | 32,000* | 75.4 | 32,000* | 76.8 | 30,080* |
| | 110 | 63.7 | 20,800 | 65.3 | 20,810 | 66.7 | 20,820 | | 90 | 71.7 | 27,110 | 73.1 | 27,120 | 74.4 | 27,130 |
| | 120 | 60.9 | 18,060 | 62.5 | 18,060 | 63.9 | 18,080 | 220' | 100 | 69.3 | 22,920 | 70.8 | 22,920 | 72.1 | 22,930 |
| | 130 | 58.0 | 15,770 | 59.6 | 15,770 | 60.9 | 15,780 | | 110 | 67.0 | 19,550 | 68.4 | 19,550 | 69.6 | 19,560 |
| | 140 | 55.0 | 13,840 | 56.6 | 13,850 | 57.9 | 13,860 | | 120 | 64.5 | 16,800 | 65.9 | 16,810 | 67.2 | 16,820 |
| | 150 | 51.9 | 12,190 | 53.4 | 12,190 | 54.7 | 12,200 | | 130 | 62.1 | 14,500 | 63.5 | 14,510 | 64.7 | 14,520 |
| 160 | 48.7 | 10,760 | 50.1 | 10,760 | 51.4 | 10,770 | 140 | | 59.5 | 12,560 | 60.9 | 12,570 | 62.1 | 12,580 | |
| 170 | 45.2 | 9,510 | 46.7 | 9,520 | 47.8 | 9,530 | 150 | | 56.9 | 10,900 | 58.3 | 10,910 | 59.5 | 10,920 | |
| | 180 | 41.6 | 8,420 | 43.0 | 8,430 | 44.1 | 8,440 | 160 | 54.3 | 9,460 | 55.6 | 9,470 | 56.8 | 9,480 | |
| | 190 | 37.6 | 7,460 | 39.0 | 7,470 | 40.0 | 7,480 | 170 | 51.5 | 8,210 | 52.8 | 8,220 | 53.9 | 8,230 | |
| | | | | | | | | 180 | 48.6 | 7,110 | 49.9 | 7,120 | 51.0 | 7,130 | |
| | | | | | | | | 190 | 45.6 | 6,150 | 46.9 | 6,150 | 47.9 | 6,170 | |
| | | | | | | | | 200 | 42.4 | 5,280 | 43.6 | 5,280 | 44.6 | 5,300 | |
| | | | | | | | | 210 | 39.0 | 4,510 | 40.2 | 4,520 | 41.1 | 4,530 | |
| | | | | | | | | 220 | 35.3 | 3,840 | 36.4 | 3,840 | 37.2 | 3,860 | |
| | 46 | 80.9 | 32,000* | - | - | - | - | | | | | | | | |
| | 50 | 80.0 | 32,000* | - | - | - | - | | | | | | | | |
| | 60 | 77.5 | 32,000* | 79.1 | 32,000* | 80.6 | 32,000* | | 51 | 80.9 | 32,000* | - | - | - | - |
| | 70 | 75.1 | 32,000* | 76.6 | 32,000* | 78.1 | 31,340* | | 60 | 78.9 | 32,000* | 80.3 | 32,000* | - | - |
| | 80 | 72.6 | 32,000* | 74.2 | 32,000* | 75.6 | 29,380* | | 70 | 76.8 | 32,000* | 78.2 | 32,000* | 79.5 | 32,000* |
| | 90 | 70.1 | 27,950 | 71.6 | 27,960 | 73.0 | 27,670* | | 80 | 74.6 | 32,000* | 76.0 | 32,000* | 77.3 | 30,500* |
| 200' | 100 | 67.5 | 23,750 | 69.1 | 23,760 | 70.4 | 23,770 | | 90 | 72.4 | 26,730 | 73.8 | 26,740 | 75.0 | 26,750 |
| | 110 | 64.9 | 20,390 | 66.4 | 20,400 | 67.8 | 20,410 | | 100 | 70.1 | 22,530 | 71.5 | 22,530 | 72.8 | 22,540 |
| | 120 | 62.2 | 17,650 | 63.8 | 17,650 | 65.1 | 17,660 | 230' | 110 | 67.9 | 19,160 | 69.2 | 19,160 | 70.5 | 19,170 |
| | 130 | 59.5 | 15,350 | 61.0 | 15,360 | 62.3 | 15,370 | | 120 | 65.6 | 16,410 | 66.9 | 16,410 | 68.1 | 16,420 |
| | 140 | 56.7 | 13,410 | 58.2 | 13,420 | 59.4 | 13,430 | | 130 | 63.2 | 14,110 | 64.5 | 14,120 | 65.7 | 14,130 |
| | 150 | 53.8 | 11,760 | 55.2 | 11,760 | 56.5 | 11,770 | | 140 | 60.8 | 12,170 | 62.1 | 12,170 | 63.3 | 12,180 |
| 160 | 50.7 | 10,320 | 52.2 | 10,330 | 53.4 | 10,340 | 150 | | 58.3 | 10,510 | 59.6 | 10,510 | 60.8 | 10,520 | |
| 170 | 47.6 | 9,090 | 49.0 | 9,090 | 50.1 | 9,100 | 160 | | 55.8 | 9,070 | 57.1 | 9,070 | 58.2 | 9,080 | |
| | 180 | 44.2 | 7,990 | 45.6 | 8,000 | 46.7 | 8,010 | 170 | 53.2 | 7,810 | 54.5 | 7,820 | 55.5 | 7,830 | |
| | 190 | 40.6 | 7,020 | 42.0 | 7,030 | 43.0 | 7,050 | 180 | 50.5 | 6,710 | 51.7 | 6,720 | 52.8 | 6,730 | |
| | 200 | 36.8 | 6,170 | 38.1 | 6,180 | 39.0 | 6,200 | 190 | 47.6 | 5,740 | 48.9 | 5,750 | 49.9 | 5,760 | |
| | | | | | | | | 200 | 44.7 | 4,880 | 45.9 | 4,880 | 46.9 | 4,900 | |
| | | | | | | | | 210 | 41.5 | 4,100 | 42.7 | 4,110 | 43.6 | 4,120 | |
| | | | | | | | | 220 | 38.2 | 3,420 | 39.4 | 3,420 | 40.2 | 3,440 | |
| | | | | | | | | 230 | 34.6 | 2,800 | 35.7 | 2,810 | 36.5 | 2,830 | |



LOAD CHART

HC 165

**With 77SI Offset Tip Boom and 102,000 Pound Upper Counterweight
#16HL Jib**

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | | | | | |
|----------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|-------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|
| 40' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | Rating (Pounds) | 15.0 Deg offset Boom Angle | Rating (Pounds) | 25.0 Deg offset Boom Angle | Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | Rating (Pounds) | 15.0 Deg offset Boom Angle | Rating (Pounds) | 25.0 Deg offset Boom Angle | Rating (Pounds) |
| | 52 | 81.0 | 32,000* | - | - | - | - | | | | | | | | |
| | 60 | 79.3 | 32,000* | 80.7 | 32,000* | - | - | | 54 | 80.9 | 32,000* | - | - | - | - |
| | 70 | 77.2 | 32,000* | 78.6 | 32,000* | 79.9 | 32,000* | | 60 | 79.7 | 32,000* | - | - | - | - |
| | 80 | 75.1 | 31,700 | 76.5 | 31,700 | 77.7 | 30,780* | | 70 | 77.7 | 32,000* | 79.0 | 32,000* | 80.2 | 32,000* |
| | 90 | 73.0 | 26,310 | 74.4 | 26,320 | 75.6 | 26,330 | | 80 | 75.7 | 31,290 | 77.0 | 31,300 | 78.2 | 31,190* |
| | 100 | 70.9 | 22,110 | 72.2 | 22,110 | 73.4 | 22,120 | | 90 | 73.6 | 25,890 | 74.9 | 25,900 | 76.1 | 25,910 |
| | 110 | 68.7 | 18,740 | 70.0 | 18,740 | 71.2 | 18,750 | | 100 | 71.6 | 21,690 | 72.8 | 21,690 | 74.0 | 21,700 |
| | 120 | 66.5 | 15,980 | 67.8 | 15,980 | 69.0 | 15,990 | | 110 | 69.5 | 18,320 | 70.7 | 18,320 | 71.9 | 18,330 |
| 240' | 130 | 64.2 | 13,680 | 65.5 | 13,680 | 66.7 | 13,700 | | 120 | 67.3 | 15,560 | 68.6 | 15,560 | 69.7 | 15,570 |
| | 140 | 61.9 | 11,730 | 63.2 | 11,740 | 64.3 | 11,750 | | 130 | 65.2 | 13,260 | 66.4 | 13,260 | 67.6 | 13,270 |
| | 150 | 59.6 | 10,070 | 60.9 | 10,080 | 62.0 | 10,090 | | 140 | 63.0 | 11,310 | 64.2 | 11,320 | 65.3 | 11,330 |
| | 160 | 57.2 | 8,630 | 58.4 | 8,640 | 59.5 | 8,650 | | 150 | 60.7 | 9,650 | 62.0 | 9,650 | 63.1 | 9,660 |
| | 170 | 54.7 | 7,370 | 55.9 | 7,380 | 57.0 | 7,390 | | 160 | 58.4 | 8,200 | 59.7 | 8,210 | 60.7 | 8,220 |
| | 180 | 52.1 | 6,270 | 53.4 | 6,270 | 54.4 | 6,290 | | 170 | 56.1 | 6,950 | 57.3 | 6,950 | 58.3 | 6,960 |
| | 190 | 49.5 | 5,300 | 50.7 | 5,300 | 51.7 | 5,320 | | 180 | 53.7 | 5,840 | 54.9 | 5,850 | 55.9 | 5,860 |
| | 200 | 46.7 | 4,430 | 47.9 | 4,440 | 48.9 | 4,450 | | 190 | 51.2 | 4,860 | 52.3 | 4,860 | 53.3 | 4,880 |
| | 210 | 43.8 | 3,660 | 45.0 | 3,670 | 45.9 | 3,680 | | 200 | 48.6 | 3,990 | 49.7 | 3,990 | 50.7 | 4,010 |
| | 220 | 40.8 | 2,960 | 41.9 | 2,970 | 42.8 | 2,980 | | 210 | 45.9 | 3,210 | 47.0 | 3,220 | 47.9 | 3,230 |
| | 230 | 37.5 | 2,340 | 38.6 | 2,350 | 39.4 | 2,360 | | 220 | 43.0 | 2,520 | 44.1 | 2,530 | 45.0 | 2,540 |
| | | | | | | | | | 230 | 40.0 | 1,890 | 41.1 | 1,900 | 41.9 | 1,920 |

| 50' Jib length | | | | | | | | | | | | | | | |
|----------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|-------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | Rating (Pounds) | 15.0 Deg offset Boom Angle | Rating (Pounds) | 25.0 Deg offset Boom Angle | Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | Rating (Pounds) | 15.0 Deg offset Boom Angle | Rating (Pounds) | 25.0 Deg offset Boom Angle | Rating (Pounds) |
| | 38 | 80.7 | 32,000* | - | - | - | - | | | | | | | | |
| | 40 | 80.1 | 31,900* | - | - | - | - | | 41 | 80.8 | 32,000* | - | - | - | - |
| | 50 | 76.8 | 30,710* | 79.5 | 28,230* | - | - | | 50 | 78.2 | 31,020* | 80.6 | 28,330* | - | - |
| | 60 | 73.6 | 29,560* | 76.2 | 27,410* | 78.6 | 25,610* | | 60 | 75.2 | 29,930* | 77.6 | 27,520* | 79.8 | 25,640* |
| 130' | 70 | 70.2 | 28,590* | 72.8 | 26,560* | 75.2 | 23,760* | | 70 | 72.3 | 29,000* | 74.6 | 26,860* | 76.8 | 24,550* |
| | 80 | 66.8 | 27,570* | 69.4 | 25,940* | 71.7 | 21,930* | | 80 | 69.2 | 28,120* | 71.6 | 26,210* | 73.7 | 22,850* |
| | 90 | 63.3 | 26,760* | 65.8 | 25,250* | 68.1 | 20,400* | | 90 | 66.1 | 27,290* | 68.4 | 25,650* | 70.5 | 21,310* |
| | 100 | 59.6 | 26,020* | 62.1 | 23,580* | 64.4 | 19,140* | | 100 | 62.9 | 25,960 | 65.2 | 25,070* | 67.3 | 20,000* |
| | 110 | 55.8 | 23,430 | 58.3 | 21,960* | 60.5 | 18,090* | | 110 | 59.7 | 22,610 | 61.9 | 22,620 | 63.9 | 18,900* |
| | 120 | 51.8 | 20,690 | 54.3 | 20,590* | 56.4 | 17,170* | | 120 | 56.3 | 19,880 | 58.5 | 19,880 | 60.4 | 17,980* |
| | 130 | 47.6 | 18,410 | 50.0 | 18,420 | 52.0 | 16,340* | | 130 | 52.7 | 17,590 | 54.9 | 17,600 | 56.8 | 17,160* |
| | | | | | | | | | 140 | 49.0 | 15,670 | 51.1 | 15,680 | 53.0 | 15,690 |
| | | | | | | | | | 150 | 45.0 | 14,030 | 47.1 | 14,030 | 48.8 | 14,050 |
| | 39 | 80.9 | 32,000* | - | - | - | - | | | | | | | | |
| | 40 | 80.6 | 32,000* | - | - | - | - | | 42 | 81.0 | 31,940* | - | - | - | - |
| | 50 | 77.5 | 30,800* | 80.1 | 28,220* | - | - | | 50 | 78.7 | 31,170* | - | - | - | - |
| 140' | 60 | 74.4 | 29,810* | 76.9 | 27,440* | 79.3 | 25,670* | | 60 | 76.0 | 30,160* | 78.2 | 27,640* | 80.3 | 25,700* |
| | 70 | 71.3 | 28,740* | 73.8 | 26,710* | 76.1 | 24,150* | | 70 | 73.1 | 29,170* | 75.4 | 26,930* | 77.5 | 24,960* |
| | 80 | 68.1 | 27,890* | 70.5 | 26,030* | 72.8 | 22,350* | | 80 | 70.3 | 28,340* | 72.5 | 26,380* | 74.5 | 23,220* |
| | 90 | 64.8 | 27,100* | 67.2 | 25,460* | 69.4 | 20,920* | | 90 | 67.3 | 27,610* | 69.5 | 25,740* | 71.5 | 21,690* |
| | 100 | 61.4 | 26,290* | 63.8 | 24,300* | 65.9 | 19,600* | | 100 | 64.3 | 25,550 | 66.5 | 25,190* | 68.5 | 20,400* |
| | 110 | 57.9 | 23,020 | 60.2 | 22,720* | 62.3 | 18,520* | | 110 | 61.2 | 22,200 | 63.4 | 22,210 | 65.3 | 19,340* |
| | 120 | 54.2 | 20,280 | 56.5 | 20,290 | 58.6 | 17,570* | | 120 | 58.1 | 19,450 | 60.2 | 19,460 | 62.1 | 18,340* |
| | 130 | 50.3 | 18,000 | 52.6 | 18,010 | 54.6 | 16,750* | | 130 | 54.8 | 17,170 | 56.9 | 17,180 | 58.7 | 17,190 |
| | 140 | 46.3 | 16,080 | 48.5 | 16,080 | 50.4 | 16,100 | | 140 | 51.3 | 15,240 | 53.4 | 15,250 | 55.2 | 15,260 |
| | | | | | | | | | 150 | 47.7 | 13,590 | 49.7 | 13,600 | 51.4 | 13,610 |
| | | | | | | | | | 160 | 43.8 | 12,180 | 45.8 | 12,190 | 47.4 | 12,200 |

LOAD CHART

HC 165

**With 77SI Offset Tip Boom and 102,000 Pound Upper Counterweight
#16HL Jib**

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | | | | | |
|----------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| 50' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) |
| | 44 | 80.8 | 31,790* | - | - | - | - | | 49 | 80.8 | 31,430* | - | - | - | - |
| | 50 | 79.3 | 31,190* | - | - | - | - | | 50 | 80.6 | 31,320* | - | - | - | - |
| | 60 | 76.6 | 30,230* | 78.8 | 27,630* | 80.8 | 25,710* | | 60 | 78.2 | 30,580* | 80.1 | 27,800* | - | - |
| | 70 | 73.9 | 29,400* | 76.1 | 27,080* | 78.1 | 25,240* | | 70 | 75.9 | 29,760* | 77.8 | 27,210* | 79.6 | 25,200* |
| | 80 | 71.2 | 28,560* | 73.3 | 26,430* | 75.3 | 23,620* | | 80 | 73.5 | 29,010* | 75.4 | 26,650* | 77.1 | 24,550* |
| | 90 | 68.4 | 27,740* | 70.5 | 25,900* | 72.5 | 22,120* | | 90 | 71.1 | 28,130 | 73.0 | 26,090* | 74.7 | 23,100* |
| 170' | 100 | 65.6 | 25,130 | 67.7 | 25,140 | 69.6 | 20,860* | | 100 | 68.7 | 23,930 | 70.5 | 23,940 | 72.2 | 21,810* |
| | 110 | 62.7 | 21,790 | 64.7 | 21,790 | 66.6 | 19,740* | | 110 | 66.2 | 20,570 | 68.0 | 20,580 | 69.7 | 20,590 |
| | 120 | 59.7 | 19,040 | 61.7 | 19,050 | 63.6 | 18,750* | 200' | 120 | 63.6 | 17,820 | 65.5 | 17,830 | 67.1 | 17,840 |
| | 130 | 56.6 | 16,750 | 58.6 | 16,760 | 60.4 | 16,770 | | 130 | 61.0 | 15,530 | 62.9 | 15,530 | 64.5 | 15,550 |
| | 140 | 53.4 | 14,820 | 55.4 | 14,830 | 57.1 | 14,840 | | 140 | 58.4 | 13,600 | 60.2 | 13,600 | 61.7 | 13,620 |
| | 150 | 50.1 | 13,180 | 52.0 | 13,180 | 53.7 | 13,200 | | 150 | 55.6 | 11,940 | 57.4 | 11,950 | 58.9 | 11,960 |
| | 160 | 46.5 | 11,750 | 48.5 | 11,760 | 50.0 | 11,770 | | 160 | 52.8 | 10,500 | 54.5 | 10,510 | 56.0 | 10,530 |
| | 170 | 42.8 | 10,510 | 44.7 | 10,520 | 46.2 | 10,530 | | 170 | 49.8 | 9,250 | 51.6 | 9,260 | 53.0 | 9,270 |
| | | | | | | | | | 180 | 46.7 | 8,160 | 48.4 | 8,160 | 49.8 | 8,180 |
| | | | | | | | | | 190 | 43.5 | 7,190 | 45.1 | 7,200 | 46.4 | 7,220 |
| | | | | | | | | | 200 | 40.0 | 6,340 | 41.6 | 6,350 | 42.8 | 6,370 |
| | | | | | | | | | | | | | | | |
| | 45 | 81.0 | 31,770* | - | - | - | - | | 50 | 80.9 | 31,350* | - | - | - | - |
| | 50 | 79.7 | 31,230* | - | - | - | - | | 60 | 78.7 | 30,550* | 80.5 | 27,740* | - | - |
| | 60 | 77.2 | 30,360* | 79.3 | 27,700* | - | - | | 70 | 76.4 | 29,800* | 78.3 | 27,230* | 80.0 | 25,170* |
| | 70 | 74.6 | 29,520* | 76.7 | 27,140* | 78.6 | 25,220* | | 80 | 74.2 | 29,040* | 76.0 | 26,620* | 77.7 | 24,770* |
| | 80 | 72.0 | 28,650* | 74.1 | 26,540* | 76.0 | 23,960* | | 90 | 71.9 | 27,710 | 73.7 | 26,200* | 75.3 | 23,470* |
| | 90 | 69.4 | 27,990* | 71.4 | 25,950* | 73.3 | 22,470* | | 100 | 69.5 | 23,510 | 71.3 | 23,520 | 72.9 | 22,180* |
| 180' | 100 | 66.7 | 24,760 | 68.7 | 24,770 | 70.5 | 21,210* | | 110 | 67.1 | 20,150 | 68.9 | 20,150 | 70.5 | 20,170 |
| | 110 | 64.0 | 21,400 | 65.9 | 21,410 | 67.7 | 20,100* | | 120 | 64.7 | 17,400 | 66.5 | 17,410 | 68.1 | 17,420 |
| | 120 | 61.1 | 18,660 | 63.1 | 18,670 | 64.9 | 18,680 | 210' | 130 | 62.3 | 15,100 | 64.0 | 15,110 | 65.6 | 15,120 |
| | 130 | 58.2 | 16,380 | 60.2 | 16,380 | 61.9 | 16,400 | | 140 | 59.7 | 13,160 | 61.5 | 13,170 | 63.0 | 13,180 |
| | 140 | 55.2 | 14,440 | 57.2 | 14,450 | 58.8 | 14,460 | | 150 | 57.1 | 11,500 | 58.9 | 11,510 | 60.3 | 11,520 |
| | 150 | 52.1 | 12,790 | 54.0 | 12,790 | 55.6 | 12,810 | | 160 | 54.5 | 10,060 | 56.2 | 10,070 | 57.6 | 10,090 |
| | 160 | 48.9 | 11,360 | 50.7 | 11,360 | 52.3 | 11,380 | | 170 | 51.7 | 8,820 | 53.4 | 8,830 | 54.8 | 8,840 |
| | 170 | 45.4 | 10,120 | 47.3 | 10,130 | 48.8 | 10,140 | | 180 | 48.8 | 7,720 | 50.4 | 7,730 | 51.8 | 7,740 |
| | 180 | 41.8 | 9,030 | 43.6 | 9,040 | 45.0 | 9,060 | | 190 | 45.8 | 6,750 | 47.4 | 6,750 | 48.7 | 6,770 |
| | | | | | | | | | 200 | 42.6 | 5,890 | 44.2 | 5,890 | 45.4 | 5,910 |
| | | | | | | | | | 210 | 39.1 | 5,120 | 40.7 | 5,130 | 41.8 | 5,150 |
| | | | | | | | | | | | | | | | |
| | 47 | 80.9 | 31,550* | - | - | - | - | | 52 | 80.8 | 31,140* | - | - | - | - |
| | 50 | 80.2 | 31,380* | - | - | - | - | | 60 | 79.1 | 30,600* | 80.9 | 27,680* | - | - |
| | 60 | 77.7 | 30,470* | 79.7 | 27,760* | - | - | | 70 | 76.9 | 29,800* | 78.7 | 27,140* | 80.4 | 25,100* |
| | 70 | 75.3 | 29,610* | 77.3 | 27,170* | 79.1 | 25,220* | | 80 | 74.8 | 29,070* | 76.5 | 26,710* | 78.1 | 24,800* |
| | 80 | 72.8 | 28,830* | 74.8 | 26,540* | 76.6 | 24,260* | | 90 | 72.6 | 27,290 | 74.3 | 26,190* | 75.9 | 23,730* |
| | 90 | 70.3 | 28,090* | 72.2 | 26,080* | 74.0 | 22,820* | | 100 | 70.3 | 23,100 | 72.0 | 23,110 | 73.6 | 22,420* |
| 190' | 100 | 67.7 | 24,350 | 69.7 | 24,360 | 71.4 | 21,520* | | 110 | 68.0 | 19,730 | 69.8 | 19,730 | 71.3 | 19,750 |
| | 110 | 65.1 | 20,990 | 67.0 | 21,000 | 68.8 | 20,420* | | 120 | 65.7 | 16,980 | 67.4 | 16,980 | 69.0 | 17,000 |
| | 120 | 62.5 | 18,240 | 64.3 | 18,240 | 66.0 | 18,260 | 220' | 130 | 63.4 | 14,680 | 65.1 | 14,690 | 66.6 | 14,700 |
| | 130 | 59.7 | 15,950 | 61.6 | 15,960 | 63.2 | 15,970 | | 140 | 61.0 | 12,740 | 62.6 | 12,740 | 64.1 | 12,760 |
| | 140 | 56.9 | 14,010 | 58.8 | 14,020 | 60.4 | 14,030 | | 150 | 58.5 | 11,080 | 60.2 | 11,080 | 61.6 | 11,100 |
| | 150 | 54.0 | 12,360 | 55.8 | 12,360 | 57.4 | 12,380 | | 160 | 56.0 | 9,640 | 57.6 | 9,640 | 59.0 | 9,660 |
| | 160 | 50.9 | 10,920 | 52.8 | 10,930 | 54.3 | 10,950 | | 170 | 53.4 | 8,380 | 55.0 | 8,390 | 56.3 | 8,400 |
| | 170 | 47.8 | 9,690 | 49.5 | 9,690 | 51.0 | 9,710 | | 180 | 50.6 | 7,290 | 52.2 | 7,300 | 53.6 | 7,310 |
| | 180 | 44.4 | 8,590 | 46.2 | 8,600 | 47.6 | 8,620 | | 190 | 47.8 | 6,310 | 49.4 | 6,320 | 50.7 | 6,330 |
| | 190 | 40.8 | 7,620 | 42.5 | 7,630 | 43.9 | 7,650 | | 200 | 44.8 | 5,450 | 46.4 | 5,460 | 47.6 | 5,470 |
| | | | | | | | | | 210 | 41.7 | 4,680 | 43.2 | 4,690 | 44.4 | 4,700 |
| | | | | | | | | | 220 | 38.4 | 4,000 | 39.9 | 4,010 | 40.9 | 4,020 |



LOAD CHART

HC 165

**With 77SI Offset Tip Boom and 102,000 Pound Upper Counterweight
#16HL Jib**

102,000 lb 360° ANSI B 30.5

| 50' Jib length | | | | | | | |
|----------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) |
| | 53 | 81.0 | 31,080* | - | - | - | - |
| | 60 | 79.5 | 30,600* | - | - | - | - |
| | 70 | 77.4 | 29,850* | 79.1 | 27,190* | 80.7 | 24,980* |
| | 80 | 75.3 | 29,110* | 77.0 | 26,710* | 78.6 | 24,700* |
| | 90 | 73.2 | 26,910 | 74.9 | 26,190* | 76.4 | 23,990* |
| | 100 | 71.0 | 22,710 | 72.7 | 22,720 | 74.2 | 22,730 |
| | 110 | 68.9 | 19,340 | 70.5 | 19,340 | 72.0 | 19,360 |
| | 120 | 66.7 | 16,580 | 68.3 | 16,580 | 69.8 | 16,600 |
| 230' | 130 | 64.4 | 14,280 | 66.0 | 14,290 | 67.5 | 14,300 |
| | 140 | 62.1 | 12,340 | 63.7 | 12,350 | 65.2 | 12,360 |
| | 150 | 59.8 | 10,680 | 61.4 | 10,690 | 62.8 | 10,700 |
| | 160 | 57.3 | 9,240 | 58.9 | 9,250 | 60.3 | 9,260 |
| | 170 | 54.9 | 7,980 | 56.4 | 7,990 | 57.8 | 8,000 |
| | 180 | 52.3 | 6,880 | 53.9 | 6,890 | 55.2 | 6,900 |
| | 190 | 49.7 | 5,910 | 51.2 | 5,920 | 52.5 | 5,930 |
| | 200 | 46.9 | 5,040 | 48.4 | 5,050 | 49.6 | 5,070 |
| | 210 | 44.0 | 4,270 | 45.5 | 4,280 | 46.6 | 4,290 |
| | 220 | 40.9 | 3,570 | 42.4 | 3,580 | 43.5 | 3,600 |
| | 230 | 37.6 | 2,960 | 39.1 | 2,970 | 40.1 | 2,990 |

| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) |
|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| | 56 | 81.0 | 30,720* | - | - | - | - |
| | 60 | 80.2 | 30,390* | - | - | - | - |
| | 70 | 78.3 | 29,780* | 79.9 | 27,030* | - | - |
| | 80 | 76.3 | 29,170* | 77.9 | 26,550* | 79.4 | 24,540* |
| | 90 | 74.3 | 26,080 | 75.9 | 26,080 | 77.4 | 24,260* |
| | 100 | 72.4 | 21,870 | 73.9 | 21,880 | 75.3 | 21,890 |
| | 110 | 70.3 | 18,500 | 71.9 | 18,500 | 73.3 | 18,520 |
| | 120 | 68.3 | 15,740 | 69.8 | 15,740 | 71.2 | 15,750 |
| 250' | 130 | 66.2 | 13,440 | 67.8 | 13,440 | 69.1 | 13,450 |
| | 140 | 64.1 | 11,490 | 65.6 | 11,490 | 67.0 | 11,510 |
| | 150 | 62.0 | 9,820 | 63.5 | 9,830 | 64.8 | 9,840 |
| | 160 | 59.8 | 8,380 | 61.3 | 8,390 | 62.6 | 8,400 |
| | 170 | 57.5 | 7,120 | 59.0 | 7,130 | 60.3 | 7,140 |
| | 180 | 55.2 | 6,010 | 56.7 | 6,020 | 57.9 | 6,030 |
| | 190 | 52.8 | 5,040 | 54.3 | 5,040 | 55.5 | 5,060 |
| | 200 | 50.4 | 4,160 | 51.8 | 4,170 | 53.0 | 4,190 |
| | 210 | 47.9 | 3,390 | 49.3 | 3,390 | 50.4 | 3,410 |
| | 220 | 45.2 | 2,680 | 46.6 | 2,690 | 47.7 | 2,710 |
| | 230 | 42.4 | 2,060 | 43.8 | 2,070 | 44.8 | 2,090 |

| | | | | | | | |
|------|-----|------|---------|------|---------|------|---------|
| | 55 | 80.9 | 30,840* | - | - | - | - |
| | 60 | 79.9 | 30,530* | - | - | - | - |
| | 70 | 77.9 | 29,880* | 79.5 | 27,100* | - | - |
| | 80 | 75.8 | 29,190* | 77.5 | 26,690* | 79.0 | 24,610* |
| | 90 | 73.8 | 26,490 | 75.4 | 26,250* | 76.9 | 24,230* |
| | 100 | 71.7 | 22,290 | 73.3 | 22,300 | 74.8 | 22,310 |
| | 110 | 69.6 | 18,920 | 71.2 | 18,920 | 72.7 | 18,940 |
| | 120 | 67.5 | 16,160 | 69.1 | 16,160 | 70.5 | 16,170 |
| 240' | 130 | 65.3 | 13,860 | 66.9 | 13,860 | 68.3 | 13,880 |
| | 140 | 63.1 | 11,910 | 64.7 | 11,920 | 66.1 | 11,930 |
| | 150 | 60.9 | 10,250 | 62.5 | 10,250 | 63.8 | 10,270 |
| | 160 | 58.6 | 8,800 | 60.1 | 8,810 | 61.5 | 8,830 |
| | 170 | 56.3 | 7,550 | 57.8 | 7,550 | 59.1 | 7,570 |
| | 180 | 53.8 | 6,440 | 55.3 | 6,450 | 56.6 | 6,460 |
| | 190 | 51.3 | 5,470 | 52.8 | 5,470 | 54.1 | 5,490 |
| | 200 | 48.7 | 4,600 | 50.2 | 4,600 | 51.4 | 4,620 |
| | 210 | 46.0 | 3,820 | 47.5 | 3,830 | 48.6 | 3,850 |
| | 220 | 43.2 | 3,130 | 44.6 | 3,140 | 45.7 | 3,160 |
| | 230 | 40.2 | 2,500 | 41.6 | 2,510 | 42.6 | 2,530 |
| | 240 | 37.0 | 1,940 | 38.3 | 1,950 | 39.3 | 1,970 |

| 60' Jib length | | | | | | | |
|----------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) |
| | 43 | 80.9 | 28,920* | - | - | - | - |
| | 50 | 79.0 | 28,190* | - | - | - | - |
| | 60 | 76.2 | 27,190* | 78.9 | 24,740* | - | - |
| | 70 | 73.4 | 26,160* | 76.1 | 24,040* | 78.6 | 21,560* |
| 150' | 80 | 70.5 | 25,280* | 73.2 | 23,380* | 75.7 | 20,000* |
| | 90 | 67.6 | 24,480* | 70.2 | 22,750* | 72.7 | 18,670* |
| | 100 | 64.6 | 23,780* | 67.2 | 21,830* | 69.6 | 17,500* |
| | 110 | 61.5 | 22,780 | 64.1 | 20,370* | 66.5 | 16,520* |
| | 120 | 58.3 | 20,040 | 60.9 | 19,080* | 63.2 | 15,660* |
| | 130 | 55.0 | 17,760 | 57.6 | 17,770 | 59.8 | 14,880* |
| | 140 | 51.6 | 15,830 | 54.1 | 15,840 | 56.3 | 14,230* |
| | 150 | 47.9 | 14,180 | 50.4 | 14,190 | 52.5 | 13,700* |

| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) |
|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| | 45 | 80.8 | 28,710* | - | - | - | - |
| | 50 | 79.5 | 28,220* | - | - | - | - |
| | 60 | 76.8 | 27,220* | 79.4 | 24,690* | - | - |
| | 70 | 74.1 | 26,330* | 76.7 | 24,110* | 79.2 | 21,790* |
| | 80 | 71.4 | 25,470* | 74.0 | 23,480* | 76.4 | 20,320* |
| | 90 | 68.6 | 24,710* | 71.2 | 22,890* | 73.5 | 18,950* |
| 160' | 100 | 65.8 | 24,020* | 68.3 | 22,290* | 70.6 | 17,790* |
| | 110 | 62.9 | 22,370 | 65.4 | 20,920* | 67.7 | 16,820* |
| | 120 | 59.9 | 19,620 | 62.4 | 19,630 | 64.6 | 15,980* |
| | 130 | 56.8 | 17,330 | 59.3 | 17,340 | 61.4 | 15,170* |
| | 140 | 53.6 | 15,410 | 56.0 | 15,420 | 58.1 | 14,540* |
| | 150 | 50.3 | 13,760 | 52.7 | 13,770 | 54.7 | 13,780 |
| | 160 | 46.7 | 12,330 | 49.1 | 12,340 | 51.0 | 12,360 |

LOAD CHART

HC 165

**With 77SI Offset Tip Boom and 102,000 Pound Upper Counterweight
#16HL Jib**

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | | | | | |
|----------------|-------------------|---------------------------|-------------------------|----------------------------|-------------------------|----------------------------|-------------------------|-------------|-------------------|---------------------------|-------------------------|----------------------------|-------------------------|----------------------------|-------------------------|
| 60' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 28,710* Rating (Pounds) | 15.0 Deg offset Boom Angle | 24,100* Rating (Pounds) | 25.0 Deg offset Boom Angle | 18,150* Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 28,250* Rating (Pounds) | 15.0 Deg offset Boom Angle | 23,160* Rating (Pounds) | 25.0 Deg offset Boom Angle | 17,890* Rating (Pounds) |
| | 46 | 81.0 | 28,710* | - | - | - | - | | 51 | 80.9 | 28,250* | - | - | - | - |
| | 50 | 79.9 | 28,370* | - | - | - | - | | 60 | 78.9 | 27,540* | - | - | - | - |
| | 60 | 77.4 | 27,410* | 79.9 | 24,820* | - | - | | 70 | 76.6 | 26,750* | 78.8 | 24,200* | 80.9 | 22,160* |
| | 70 | 74.8 | 26,500* | 77.3 | 24,100* | 79.6 | 22,130* | | 80 | 74.4 | 26,060* | 76.5 | 23,690* | 78.6 | 21,350* |
| | 80 | 72.2 | 25,670* | 74.7 | 23,590* | 77.0 | 20,560* | | 90 | 72.0 | 25,320* | 74.2 | 23,160* | 76.2 | 20,030* |
| | 90 | 69.6 | 24,880* | 72.0 | 22,940* | 74.3 | 19,210* | | 100 | 69.7 | 24,110 | 71.9 | 22,720* | 73.9 | 18,950* |
| 170' | 100 | 66.9 | 24,210* | 69.3 | 22,410* | 71.6 | 18,150* | 200' | 110 | 67.3 | 20,740 | 69.5 | 20,750 | 71.4 | 17,890* |
| | 110 | 64.2 | 21,950 | 66.6 | 21,450* | 68.8 | 17,160* | | | 120 | 64.9 | 17,990 | 67.0 | 18,000 | 69.0 |
| | 120 | 61.4 | 19,210 | 63.7 | 19,220 | 65.9 | 16,270* | | 130 | 62.5 | 15,690 | 64.6 | 15,700 | 66.4 | 15,720 |
| | 130 | 58.5 | 16,920 | 60.8 | 16,930 | 62.9 | 15,510* | | 140 | 59.9 | 13,760 | 62.0 | 13,770 | 63.9 | 13,780 |
| | 140 | 55.5 | 14,990 | 57.8 | 15,000 | 59.8 | 14,810* | | 150 | 57.3 | 12,100 | 59.4 | 12,110 | 61.2 | 12,130 |
| | 150 | 52.3 | 13,340 | 54.6 | 13,340 | 56.6 | 13,360 | | 160 | 54.6 | 10,660 | 56.7 | 10,670 | 58.5 | 10,690 |
| | 160 | 49.1 | 11,910 | 51.3 | 11,910 | 53.3 | 11,930 | | 170 | 51.9 | 9,420 | 53.9 | 9,430 | 55.6 | 9,450 |
| | 170 | 45.6 | 10,670 | 47.9 | 10,680 | 49.7 | 10,700 | | 180 | 49.0 | 8,320 | 51.0 | 8,330 | 52.6 | 8,350 |
| | | | | | | | | | 190 | 45.9 | 7,350 | 47.9 | 7,360 | 49.5 | 7,370 |
| | | | | | | | | | 200 | 42.7 | 6,500 | 44.7 | 6,510 | 46.2 | 6,530 |
| | 48 | 80.8 | 28,530* | - | - | - | - | | 53 | 80.8 | 28,110* | - | - | - | - |
| | 50 | 80.4 | 28,420* | - | - | - | - | | 60 | 79.3 | 27,580* | - | - | - | - |
| | 60 | 77.9 | 27,470* | 80.3 | 24,840* | - | - | | 70 | 77.1 | 26,900* | 79.2 | 24,200* | - | - |
| | 70 | 75.5 | 26,670* | 77.9 | 24,210* | 80.1 | 22,280* | | 80 | 74.9 | 26,160* | 77.0 | 23,670* | 79.0 | 21,580* |
| | 80 | 73.0 | 25,850* | 75.4 | 23,600* | 77.6 | 20,810* | | 90 | 72.7 | 25,440* | 74.8 | 23,200* | 76.8 | 20,280* |
| | 90 | 70.5 | 25,060* | 72.8 | 23,080* | 75.0 | 19,570* | | 100 | 70.5 | 23,690 | 72.6 | 22,740* | 74.5 | 19,130* |
| 180' | 100 | 67.9 | 24,410* | 70.3 | 22,540* | 72.4 | 18,400* | | 110 | 68.2 | 20,320 | 70.3 | 20,320 | 72.2 | 18,220* |
| | 110 | 65.3 | 21,570 | 67.6 | 21,580 | 69.7 | 17,400* | | 120 | 65.9 | 17,570 | 68.0 | 17,580 | 69.8 | 17,270* |
| | 120 | 62.7 | 18,830 | 64.9 | 18,830 | 67.0 | 16,570* | 210' | 130 | 63.6 | 15,270 | 65.6 | 15,280 | 67.4 | 15,290 |
| | 130 | 59.9 | 16,540 | 62.2 | 16,550 | 64.2 | 15,750* | | | 140 | 61.2 | 13,330 | 63.2 | 13,340 | 65.0 |
| | 140 | 57.1 | 14,600 | 59.3 | 14,610 | 61.3 | 14,630 | | 150 | 58.7 | 11,670 | 60.7 | 11,670 | 62.4 | 11,690 |
| | 150 | 54.2 | 12,950 | 56.4 | 12,950 | 58.3 | 12,970 | | 160 | 56.1 | 10,240 | 58.1 | 10,250 | 59.9 | 10,260 |
| | 160 | 51.1 | 11,520 | 53.3 | 11,530 | 55.2 | 11,550 | | 170 | 53.5 | 8,980 | 55.5 | 8,990 | 57.2 | 9,010 |
| | 170 | 48.0 | 10,280 | 50.1 | 10,280 | 51.9 | 10,300 | | 180 | 50.8 | 7,880 | 52.8 | 7,890 | 54.4 | 7,910 |
| | 180 | 44.6 | 9,180 | 46.7 | 9,190 | 48.4 | 9,210 | | 190 | 48.0 | 6,910 | 49.9 | 6,920 | 51.5 | 6,940 |
| | | | | | | | | | 200 | 45.0 | 6,050 | 46.9 | 6,060 | 48.4 | 6,080 |
| | | | | | | | | | 210 | 41.9 | 5,280 | 43.7 | 5,290 | 45.2 | 5,310 |
| | 49 | 81.0 | 28,420* | - | - | - | - | | 54 | 80.9 | 27,970* | - | - | - | - |
| | 50 | 80.8 | 28,350* | - | - | - | - | | 60 | 79.7 | 27,630* | - | - | - | - |
| | 60 | 78.4 | 27,480* | 80.7 | 24,760* | - | - | | 70 | 77.6 | 26,930* | 79.6 | 24,190* | - | - |
| | 70 | 76.1 | 26,720* | 78.4 | 24,200* | 80.5 | 22,240* | | 80 | 75.5 | 26,250* | 77.5 | 23,760* | 79.4 | 21,710* |
| | 80 | 73.7 | 25,940* | 76.0 | 23,700* | 78.1 | 21,050* | | 90 | 73.4 | 25,540* | 75.4 | 23,270* | 77.3 | 20,450* |
| | 90 | 71.3 | 25,200* | 73.6 | 23,090* | 75.6 | 19,790* | | 100 | 71.2 | 23,270 | 73.2 | 22,810* | 75.1 | 19,380* |
| 190' | 100 | 68.9 | 24,520 | 71.1 | 22,630* | 73.2 | 18,670* | | 110 | 69.0 | 19,900 | 71.0 | 19,900 | 72.9 | 18,380* |
| | 110 | 66.4 | 21,160 | 68.6 | 21,170 | 70.6 | 17,700* | | 120 | 66.8 | 17,150 | 68.8 | 17,150 | 70.6 | 17,170 |
| | 120 | 63.8 | 18,400 | 66.0 | 18,410 | 68.0 | 16,790* | 220' | 130 | 64.6 | 14,850 | 66.5 | 14,860 | 68.3 | 14,870 |
| | 130 | 61.2 | 16,120 | 63.4 | 16,130 | 65.4 | 16,000* | | | 140 | 62.3 | 12,900 | 64.2 | 12,910 | 66.0 |
| | 140 | 58.6 | 14,180 | 60.7 | 14,180 | 62.7 | 14,200 | | 150 | 59.9 | 11,240 | 61.9 | 11,250 | 63.6 | 11,260 |
| | 150 | 55.8 | 12,520 | 58.0 | 12,530 | 59.8 | 12,540 | | 160 | 57.5 | 9,800 | 59.4 | 9,810 | 61.1 | 9,820 |
| | 160 | 53.0 | 11,090 | 55.1 | 11,100 | 56.9 | 11,120 | | 170 | 55.0 | 8,550 | 56.9 | 8,560 | 58.6 | 8,580 |
| | 170 | 50.0 | 9,840 | 52.1 | 9,850 | 53.9 | 9,870 | | 180 | 52.5 | 7,450 | 54.4 | 7,460 | 56.0 | 7,470 |
| | 180 | 46.9 | 8,750 | 49.0 | 8,750 | 50.7 | 8,770 | | 190 | 49.8 | 6,480 | 51.7 | 6,490 | 53.2 | 6,500 |
| | 190 | 43.7 | 7,780 | 45.7 | 7,790 | 47.3 | 7,810 | | 200 | 47.1 | 5,610 | 48.9 | 5,620 | 50.4 | 5,640 |
| | | | | | | | | | 210 | 44.2 | 4,840 | 46.0 | 4,850 | 47.4 | 4,870 |
| | | | | | | | | | 220 | 41.1 | 4,140 | 42.9 | 4,150 | 44.2 | 4,170 |



LOAD CHART

HC 165

**With 77SI Offset Tip Boom and 102,000 Pound Upper Counterweight
#16HL Jib**

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | | | | | |
|----------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|-------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|
| 70' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | Rating (Pounds) | 15.0 Deg offset Boom Angle | Rating (Pounds) | 25.0 Deg offset Boom Angle | Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | Rating (Pounds) | 15.0 Deg offset Boom Angle | Rating (Pounds) | 25.0 Deg offset Boom Angle | Rating (Pounds) |
| | 52 | 80.9 | 21,300* | - | - | - | - | | | | | | | | |
| | 60 | 79.1 | 20,740* | - | - | - | - | | | | | | | | |
| | 70 | 76.8 | 19,950* | 79.4 | 17,910* | - | - | | | | | | | | |
| | 80 | 74.5 | 19,320* | 77.1 | 17,350* | 79.5 | 15,870* | | | | | | | | |
| | 90 | 72.2 | 18,740* | 74.8 | 16,890* | 77.2 | 15,440* | | | | | | | | |
| | 100 | 69.9 | 18,130* | 72.4 | 16,510* | 74.8 | 15,020* | | | | | | | | |
| 190' | 110 | 67.5 | 17,580* | 70.0 | 16,110* | 72.3 | 14,680* | | | | | | | | |
| | 120 | 65.1 | 17,080* | 67.6 | 15,600* | 69.9 | 14,360* | | | | | | | | |
| | 130 | 62.6 | 16,240 | 65.1 | 15,130* | 67.3 | 13,960* | | | | | | | | |
| | 140 | 60.1 | 14,310 | 62.6 | 14,320 | 64.8 | 13,320* | | | | | | | | |
| | 150 | 57.5 | 12,650 | 59.9 | 12,660 | 62.1 | 12,680 | | | | | | | | |
| | 160 | 54.8 | 11,220 | 57.2 | 11,230 | 59.3 | 11,250 | | | | | | | | |
| | 170 | 52.1 | 9,970 | 54.4 | 9,980 | 56.5 | 10,000 | | | | | | | | |
| | 180 | 49.2 | 8,870 | 51.5 | 8,880 | 53.5 | 8,900 | | | | | | | | |
| | 190 | 46.1 | 7,910 | 48.4 | 7,920 | 50.4 | 7,940 | | | | | | | | |
| | 53 | 81.0 | 21,240* | - | - | - | - | | | | | | | | |
| | 60 | 79.5 | 20,790* | - | - | - | - | | | | | | | | |
| | 70 | 77.3 | 20,110* | 79.8 | 17,920* | - | - | | | | | | | | |
| | 80 | 75.1 | 19,390* | 77.6 | 17,400* | 79.9 | 15,860* | | | | | | | | |
| | 90 | 72.9 | 18,830* | 75.4 | 16,940* | 77.7 | 15,520* | | | | | | | | |
| | 100 | 70.7 | 18,230* | 73.1 | 16,580* | 75.4 | 15,120* | | | | | | | | |
| 200' | 110 | 68.4 | 17,700* | 70.8 | 16,130* | 73.1 | 14,730* | | | | | | | | |
| | 120 | 66.1 | 17,210* | 68.5 | 15,720* | 70.7 | 14,420* | | | | | | | | |
| | 130 | 63.7 | 15,830 | 66.1 | 15,320* | 68.3 | 14,100* | | | | | | | | |
| | 140 | 61.3 | 13,900 | 63.7 | 13,910 | 65.8 | 13,550* | | | | | | | | |
| | 150 | 58.9 | 12,240 | 61.2 | 12,240 | 63.3 | 12,260 | | | | | | | | |
| | 160 | 56.3 | 10,800 | 58.7 | 10,810 | 60.7 | 10,820 | | | | | | | | |
| | 170 | 53.7 | 9,550 | 56.0 | 9,560 | 58.0 | 9,580 | | | | | | | | |
| | 180 | 51.0 | 8,450 | 53.3 | 8,460 | 55.2 | 8,480 | | | | | | | | |
| | 190 | 48.2 | 7,480 | 50.4 | 7,490 | 52.3 | 7,510 | | | | | | | | |
| | 200 | 45.2 | 6,620 | 47.4 | 6,630 | 49.2 | 6,650 | | | | | | | | |
| | 55 | 80.9 | 21,110* | - | - | - | - | | | | | | | | |
| | 60 | 79.9 | 20,840* | - | - | - | - | | | | | | | | |
| | 70 | 77.8 | 20,100* | 80.2 | 17,940* | - | - | | | | | | | | |
| | 80 | 75.7 | 19,530* | 78.0 | 17,440* | 80.3 | 15,840* | | | | | | | | |
| | 90 | 73.5 | 18,900* | 75.9 | 17,040* | 78.1 | 15,490* | | | | | | | | |
| | 100 | 71.4 | 18,420* | 73.7 | 16,630* | 75.9 | 15,130* | | | | | | | | |
| | 110 | 69.2 | 17,850* | 71.6 | 16,200* | 73.7 | 14,760* | | | | | | | | |
| | 120 | 67.0 | 17,380* | 69.3 | 15,860* | 71.5 | 14,470* | | | | | | | | |
| 210' | 130 | 64.8 | 15,410 | 67.1 | 15,400* | 69.2 | 14,160* | | | | | | | | |
| | 140 | 62.5 | 13,460 | 64.7 | 13,470 | 66.8 | 13,490 | | | | | | | | |
| | 150 | 60.1 | 11,800 | 62.4 | 11,810 | 64.4 | 11,830 | | | | | | | | |
| | 160 | 57.7 | 10,370 | 59.9 | 10,380 | 61.9 | 10,400 | | | | | | | | |
| | 170 | 55.2 | 9,110 | 57.4 | 9,120 | 59.4 | 9,140 | | | | | | | | |
| | 180 | 52.7 | 8,010 | 54.9 | 8,020 | 56.8 | 8,040 | | | | | | | | |
| | 190 | 50.0 | 7,040 | 52.2 | 7,050 | 54.0 | 7,070 | | | | | | | | |
| | 200 | 47.2 | 6,170 | 49.4 | 6,180 | 51.2 | 6,200 | | | | | | | | |
| | 210 | 44.3 | 5,400 | 46.5 | 5,410 | 48.2 | 5,430 | | | | | | | | |
| | 57 | 80.8 | 21,020* | - | - | - | - | | | | | | | | |
| | 60 | 80.2 | 20,800* | - | - | - | - | | | | | | | | |
| | 70 | 78.2 | 20,170* | 80.5 | 17,880* | - | - | | | | | | | | |
| | 80 | 76.2 | 19,590* | 78.5 | 17,420* | 80.6 | 15,770* | | | | | | | | |
| | 90 | 74.1 | 18,980* | 76.4 | 17,010* | 78.6 | 15,500* | | | | | | | | |
| | 100 | 72.1 | 18,500* | 74.3 | 16,610* | 76.4 | 15,210* | | | | | | | | |
| | 110 | 70.0 | 17,920* | 72.2 | 16,260* | 74.3 | 14,820* | | | | | | | | |
| | 120 | 67.8 | 17,290 | 70.1 | 15,920* | 72.1 | 14,510* | | | | | | | | |
| 220' | 130 | 65.7 | 14,990 | 67.9 | 15,000 | 69.9 | 14,200* | | | | | | | | |
| | 140 | 63.5 | 13,040 | 65.7 | 13,050 | 67.7 | 13,070 | | | | | | | | |
| | 150 | 61.2 | 11,380 | 63.4 | 11,390 | 65.4 | 11,400 | | | | | | | | |
| | 160 | 58.9 | 9,940 | 61.1 | 9,950 | 63.1 | 9,970 | | | | | | | | |
| | 170 | 56.6 | 8,690 | 58.8 | 8,690 | 60.6 | 8,710 | | | | | | | | |
| | 180 | 54.2 | 7,580 | 56.3 | 7,590 | 58.2 | 7,610 | | | | | | | | |
| | 190 | 51.7 | 6,610 | 53.8 | 6,620 | 55.6 | 6,640 | | | | | | | | |
| | 200 | 49.1 | 5,740 | 51.2 | 5,750 | 52.9 | 5,770 | | | | | | | | |
| | 210 | 46.4 | 4,960 | 48.4 | 4,970 | 50.1 | 4,990 | | | | | | | | |
| | 220 | 43.5 | 4,270 | 45.5 | 4,280 | 47.2 | 4,300 | | | | | | | | |
| | 58 | 80.9 | 20,970* | - | - | - | - | | | | | | | | |
| | 60 | 80.5 | 20,850* | - | - | - | - | | | | | | | | |
| | 70 | 78.6 | 20,270* | 80.8 | 17,900* | - | - | | | | | | | | |
| | 80 | 76.6 | 19,650* | 78.9 | 17,460* | 81.0 | 15,780* | | | | | | | | |
| | 90 | 74.7 | 19,050* | 76.9 | 17,050* | 79.0 | 15,520* | | | | | | | | |
| | 100 | 72.7 | 18,540* | 74.9 | 16,660* | 76.9 | 15,230* | | | | | | | | |
| | 110 | 70.7 | 18,070* | 72.9 | 16,280* | 74.9 | 14,910* | | | | | | | | |
| | 120 | 68.6 | 16,890 | 70.8 | 15,970* | 72.8 | 14,560* | | | | | | | | |
| 230' | 130 | 66.5 | 14,590 | 68.7 | 14,590 | 70.7 | 14,240* | | | | | | | | |
| | 140 | 64.4 | 12,650 | 66.6 | 12,660 | 68.5 | 12,670 | | | | | | | | |
| | 150 | 62.3 | 10,980 | 64.4 | 10,990 | 66.3 | 11,010 | | | | | | | | |
| | 160 | 60.1 | 9,540 | 62.2 | 9,550 | 64.1 | 9,570 | | | | | | | | |
| | 170 | 57.9 | 8,280 | 59.9 | 8,290 | 61.8 | 8,310 | | | | | | | | |
| | 180 | 55.5 | 7,180 | 57.6 | 7,190 | 59.4 | 7,210 | | | | | | | | |
| | 190 | 53.2 | 6,210 | 55.2 | 6,220 | 57.0 | 6,240 | | | | | | | | |
| | 200 | 50.7 | 5,330 | 52.8 | 5,340 | 54.5 | 5,360 | | | | | | | | |
| | 210 | 48.2 | 4,560 | 50.2 | 4,570 | 51.9 | 4,590 | | | | | | | | |
| | 220 | 45.5 | 3,860 | 47.5 | 3,870 | 49.1 | 3,890 | | | | | | | | |
| | 230 | 42.7 | 3,230 | 44.7 | 3,240 | 46.2 | 3,270 | | | | | | | | |
| | 60 | 80.8 | 20,810* | - | - | - | - | | | | | | | | |
| | 70 | 79.0 | 20,240* | - | - | - | - | | | | | | | | |
| | 80 | 77.1 | 19,710* | 79.2 | 17,460* | - | - | | | | | | | | |
| | 90 | 75.2 | 19,110* | 77.3 | 17,080* | 79.3 | 15,430* | | | | | | | | |
| | 100 | 73.3 | 18,650* | 75.4 | 16,700* | 77.4 | 15,190* | | | | | | | | |
| | 110 | 71.3 | 18,110* | 73.4 | 16,300* | 75.4 | 14,920* | | | | | | | | |
| | 120 | 69.3 | 16,460 | 71.5 | 16,000* | 73.4 | 14,580* | | | | | | | | |
| | 130 | 67.3 | 14,160 | 69.4 | 14,170 | 71.4 | 14,190 | | | | | | | | |
| 240' | 140 | 65.3 | 12,220 | 67.4 | 12,220 | 69.3 | 12,240 | | | | | | | | |
| | 150 | 63.3 | 10,550 | 65.3 | 10,560 | 67.2 | 10,580 | | | | | | | | |
| | 160 | 61.2 | 9,110 | 63.2 | 9,110 | 65.0 | 9,130 | | | | | | | | |
| | 170 | 59.0 | 7,850 | 61.1 | 7,860 | 62.9 | 7,880 | | | | | | | | |
| | 180 | 56.8 | 6,740 | 58.8 | 6,750 | 60.6 | 6,770 | | | | | | | | |
| | 190 | 54.6 | 5,770 | 56.6 | 5,780 | 58.3 | 5,800 | | | | | | | | |
| | 200 | 52.2 | 4,890 | 54.2 | 4,900 | 55.9 | 4,920 | | | | | | | | |
| | 210 | 49.8 | 4,110 | 51.8 | 4,120 | 53.4 | 4,140 | | | | | | | | |
| | 220 | 47.3 | 3,420 | 49.3 | 3,430 | 50.9 | 3,450 | | | | | | | | |
| | 230 | 44.7 | 2,780 | 46.6 | 2,790 | 48.2 | 2,820 | | | | | | | | |
| | 240 | 42.0 | 2,210 | 43.9 | 2,230 | 45.3 | 2,250 | | | | | | | | |



LOAD CHART

HC 165

**With 77SI Offset Tip Boom and 102,000 Pound Upper Counterweight
#16HL Jib**

| 102,000 lb | | | | 360° | | | | ANSI B 30.5 | | | | | | | |
|----------------|-------------------|---------------------------|-------------------------|----------------------------|-------------------------|----------------------------|-------------------------|-------------|-------------------|---------------------------|-------------------------|----------------------------|-------------------------|----------------------------|-------------------------|
| 80' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 16.550* Rating (Pounds) | 15.0 Deg offset Boom Angle | 12,760* Rating (Pounds) | 25.0 Deg offset Boom Angle | 11,270* Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 16,310* Rating (Pounds) | 15.0 Deg offset Boom Angle | 12,480* Rating (Pounds) | 25.0 Deg offset Boom Angle | 10,990* Rating (Pounds) |
| | 56 | 80.9 | 16,550* | - | - | - | - | | 61 | 80.8 | 16,310* | - | - | - | - |
| | 60 | 80.0 | 16,300* | - | - | - | - | | 70 | 79.1 | 15,790* | - | - | - | - |
| | 70 | 77.9 | 15,600* | 80.7 | 13,680* | - | - | | 80 | 77.2 | 15,220* | 79.7 | 13,300* | - | - |
| | 80 | 75.8 | 15,020* | 78.6 | 13,260* | - | - | | 90 | 75.3 | 14,700* | 77.8 | 12,920* | 80.1 | 11,330* |
| | 90 | 73.7 | 14,470* | 76.4 | 12,760* | 79.0 | 11,270* | | 100 | 73.4 | 14,200* | 75.9 | 12,480* | 78.1 | 10,990* |
| | 100 | 71.6 | 14,000* | 74.3 | 12,310* | 76.8 | 10,920* | | 110 | 71.5 | 13,770* | 73.9 | 12,080* | 76.2 | 10,670* |
| 200' | 110 | 69.4 | 13,490* | 72.1 | 11,870* | 74.6 | 10,600* | | 120 | 69.5 | 13,340* | 71.9 | 11,670* | 74.2 | 10,420* |
| | 120 | 67.2 | 12,980* | 69.8 | 11,470* | 72.3 | 10,340* | | 130 | 67.5 | 12,960* | 69.9 | 11,320* | 72.1 | 10,180* |
| | 130 | 64.9 | 12,480* | 67.6 | 11,080* | 70.0 | 10,060* | 230' | 140 | 65.5 | 12,480* | 67.9 | 10,990* | 70.1 | 9,970* |
| | 140 | 62.6 | 12,000* | 65.3 | 10,760* | 67.6 | 9,860* | | | 150 | 63.4 | 11,110 | 65.8 | 10,720* | 67.9 |
| | 150 | 60.3 | 11,600* | 62.9 | 10,450* | 65.2 | 9,660* | | 160 | 61.3 | 9,680 | 63.7 | 9,690 | 65.8 | 9,560* |
| | 160 | 57.9 | 10,920 | 60.5 | 10,190* | 62.8 | 9,450* | | 170 | 59.2 | 8,410 | 61.5 | 8,420 | 63.6 | 8,440 |
| | 170 | 55.4 | 9,670 | 58.0 | 9,680 | 60.2 | 9,290* | | 180 | 57.0 | 7,300 | 59.3 | 7,310 | 61.3 | 7,340 |
| | 180 | 52.8 | 8,570 | 55.4 | 8,580 | 57.6 | 8,600 | | 190 | 54.7 | 6,330 | 57.0 | 6,340 | 59.0 | 6,360 |
| | 190 | 50.2 | 7,600 | 52.7 | 7,610 | 54.8 | 7,630 | | 200 | 52.4 | 5,460 | 54.7 | 5,470 | 56.6 | 5,500 |
| | 200 | 47.4 | 6,730 | 49.9 | 6,740 | 52.0 | 6,770 | | 210 | 50.0 | 4,680 | 52.2 | 4,690 | 54.2 | 4,720 |
| | | | | | | | | | 220 | 47.5 | 3,990 | 49.7 | 4,000 | 51.6 | 4,020 |
| | | | | | | | | | 230 | 44.9 | 3,350 | 47.1 | 3,370 | 48.9 | 3,390 |
| | 57 | 81.0 | 16,490* | - | - | - | - | | 62 | 80.9 | 16,250* | - | - | - | - |
| | 60 | 80.4 | 16,280* | - | - | - | - | | 70 | 79.5 | 15,800* | - | - | - | - |
| | 70 | 78.4 | 15,710* | - | - | - | - | | 80 | 77.6 | 15,260* | 80.0 | 13,270* | - | - |
| | 80 | 76.3 | 15,130* | 79.0 | 13,280* | - | - | | 90 | 75.8 | 14,760* | 78.2 | 12,950* | 80.4 | 11,340* |
| | 90 | 74.3 | 14,550* | 76.9 | 12,850* | 79.4 | 11,290* | | 100 | 73.9 | 14,270* | 76.3 | 12,590* | 78.5 | 11,010* |
| | 100 | 72.2 | 14,090* | 74.8 | 12,350* | 77.3 | 10,940* | | 110 | 72.1 | 13,840* | 74.4 | 12,140* | 76.6 | 10,710* |
| | 110 | 70.1 | 13,600* | 72.7 | 11,950* | 75.1 | 10,640* | | 120 | 70.2 | 13,430* | 72.5 | 11,740* | 74.7 | 10,470* |
| | 120 | 68.0 | 13,150* | 70.6 | 11,560* | 73.0 | 10,360* | | 130 | 68.3 | 13,050* | 70.6 | 11,420* | 72.7 | 10,190* |
| 210' | 130 | 65.9 | 12,640* | 68.4 | 11,180* | 70.8 | 10,130* | 240' | 140 | 66.3 | 12,350 | 68.6 | 11,080* | 70.7 | 9,990* |
| | 140 | 63.7 | 12,160* | 66.2 | 10,840* | 68.5 | 9,900* | | | 150 | 64.3 | 10,690 | 66.6 | 10,700 | 68.7 |
| | 150 | 61.4 | 11,750* | 63.9 | 10,540* | 66.2 | 9,670* | | 160 | 62.3 | 9,240 | 64.6 | 9,250 | 66.7 | 9,270 |
| | 160 | 59.1 | 10,490 | 61.6 | 10,280* | 63.9 | 9,490* | | 170 | 60.2 | 7,980 | 62.5 | 7,990 | 64.5 | 8,010 |
| | 170 | 56.8 | 9,240 | 59.2 | 9,250 | 61.4 | 9,270 | | 180 | 58.1 | 6,880 | 60.4 | 6,890 | 62.4 | 6,910 |
| | 180 | 54.3 | 8,140 | 56.8 | 8,150 | 58.9 | 8,170 | | 190 | 56.0 | 5,900 | 58.2 | 5,910 | 60.2 | 5,930 |
| | 190 | 51.8 | 7,170 | 54.3 | 7,180 | 56.4 | 7,200 | | 200 | 53.8 | 5,020 | 56.0 | 5,040 | 57.9 | 5,060 |
| | 200 | 49.2 | 6,300 | 51.6 | 6,310 | 53.7 | 6,330 | | 210 | 51.5 | 4,240 | 53.7 | 4,250 | 55.6 | 4,280 |
| | 210 | 46.5 | 5,520 | 48.9 | 5,530 | 50.9 | 5,560 | | 220 | 49.1 | 3,540 | 51.3 | 3,550 | 53.1 | 3,580 |
| | | | | | | | | | 230 | 46.7 | 2,910 | 48.8 | 2,920 | 50.6 | 2,940 |
| | | | | | | | | | 240 | 44.1 | 2,340 | 46.2 | 2,360 | 47.9 | 2,380 |
| | 59 | 80.9 | 16,420* | - | - | - | - | | | | | | | | |
| | 60 | 80.7 | 16,300* | - | - | - | - | | | | | | | | |
| | 70 | 78.8 | 15,750* | - | - | - | - | | | | | | | | |
| | 80 | 76.8 | 15,170* | 79.4 | 13,260* | - | - | | | | | | | | |
| | 90 | 74.8 | 14,630* | 77.4 | 12,880* | 79.8 | 11,310* | | | | | | | | |
| | 100 | 72.8 | 14,180* | 75.4 | 12,420* | 77.7 | 10,970* | | | | | | | | |
| | 110 | 70.8 | 13,690* | 73.3 | 12,010* | 75.7 | 10,670* | | | | | | | | |
| | 120 | 68.8 | 13,290* | 71.3 | 11,590* | 73.6 | 10,420* | | | | | | | | |
| 220' | 130 | 66.7 | 12,830* | 69.2 | 11,280* | 71.5 | 10,160* | | | | | | | | |
| | 140 | 64.6 | 12,350* | 67.1 | 10,920* | 69.3 | 9,930* | | | | | | | | |
| | 150 | 62.5 | 11,510 | 64.9 | 10,620* | 67.1 | 9,730* | | | | | | | | |
| | 160 | 60.3 | 10,070 | 62.7 | 10,080 | 64.9 | 9,520* | | | | | | | | |
| | 170 | 58.0 | 8,820 | 60.4 | 8,830 | 62.6 | 8,850 | | | | | | | | |
| | 180 | 55.7 | 7,710 | 58.1 | 7,720 | 60.2 | 7,740 | | | | | | | | |
| | 190 | 53.3 | 6,740 | 55.7 | 6,750 | 57.8 | 6,770 | | | | | | | | |
| | 200 | 50.9 | 5,860 | 53.2 | 5,880 | 55.2 | 5,900 | | | | | | | | |
| | 210 | 48.3 | 5,090 | 50.7 | 5,100 | 52.6 | 5,120 | | | | | | | | |
| | 220 | 45.7 | 4,390 | 48.0 | 4,400 | 49.8 | 4,430 | | | | | | | | |

LOAD CHART

HC 165

**With 77SI Offset Tip Boom and 116,400 Pound Counterweight
#16HL Jib**

| 108,400 lb + 8,000 lb carbody counterweight | | | | | | | 360° | | | | | ANSI B 30.5 | | | |
|---|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| 40' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) |
| 100' | 31 | 80.6 | 32,000* | - | - | - | - | 140' | 37 | 80.8 | 32,000* | - | - | - | - |
| | 35 | 78.9 | 32,000* | - | - | - | - | | 40 | 79.8 | 32,000* | - | - | - | - |
| | 40 | 76.9 | 32,000* | 79.6 | 32,000* | - | - | | 50 | 76.6 | 32,000* | 78.7 | 32,000* | 80.7 | 32,000* |
| | 50 | 72.6 | 32,000* | 75.3 | 32,000* | 77.8 | 31,510* | | 60 | 73.3 | 32,000* | 75.4 | 32,000* | 77.3 | 30,910* |
| | 60 | 68.3 | 32,000* | 71.0 | 32,000* | 73.4 | 28,280* | | 70 | 69.9 | 32,000* | 72.0 | 32,000* | 73.9 | 28,450* |
| | 70 | 63.8 | 32,000* | 66.4 | 31,740* | 68.8 | 25,680* | | 80 | 66.5 | 32,000* | 68.6 | 32,000* | 70.4 | 26,350* |
| | 80 | 59.2 | 32,000* | 61.7 | 28,780* | 64.0 | 23,630* | | 90 | 63.0 | 32,000* | 65.0 | 30,600* | 66.8 | 24,570* |
| | 90 | 54.2 | 30,280* | 56.8 | 26,380* | 59.0 | 21,980* | | 100 | 59.3 | 28,010 | 61.3 | 28,010 | 63.1 | 23,090* |
| | 100 | 49.0 | 27,480* | 51.4 | 24,450* | 53.5 | 20,650* | | 110 | 55.6 | 24,480 | 57.5 | 24,480 | 59.2 | 21,890* |
| | | | | | | | | | | 120 | 51.6 | 21,590 | 53.5 | 21,600 | 55.1 |
| | | | | | | | | 130 | 47.4 | 19,190 | 49.2 | 19,200 | 50.8 | 19,210 | |
| | | | | | | | | 140 | 42.8 | 17,170 | 44.7 | 17,180 | 46.1 | 17,190 | |
| 110' | 32 | 80.8 | 32,000* | - | - | - | - | 150' | 38 | 81.0 | 32,000* | - | - | - | - |
| | 35 | 79.7 | 32,000* | - | - | - | - | | 40 | 80.3 | 32,000* | - | - | - | - |
| | 40 | 77.7 | 32,000* | 80.3 | 32,000* | - | - | | 50 | 77.3 | 32,000* | 79.3 | 32,000* | - | - |
| | 50 | 73.8 | 32,000* | 76.3 | 32,000* | 78.7 | 32,000* | | 60 | 74.2 | 32,000* | 76.2 | 32,000* | 78.0 | 31,480* |
| | 60 | 69.8 | 32,000* | 72.3 | 32,000* | 74.6 | 28,980* | | 70 | 71.0 | 32,000* | 73.0 | 32,000* | 74.8 | 28,990* |
| | 70 | 65.7 | 32,000* | 68.1 | 32,000* | 70.4 | 26,500* | | 80 | 67.8 | 32,000* | 69.8 | 32,000* | 71.5 | 26,990* |
| | 80 | 61.4 | 32,000* | 63.8 | 30,030* | 66.0 | 24,370* | | 90 | 64.5 | 32,000* | 66.4 | 31,540* | 68.2 | 25,210* |
| | 90 | 57.0 | 32,000* | 59.3 | 27,580* | 61.4 | 22,710* | | 100 | 61.1 | 27,600 | 63.0 | 27,610 | 64.7 | 23,680* |
| | 100 | 52.2 | 29,050* | 54.6 | 25,450* | 56.6 | 21,280* | | 110 | 57.6 | 24,080 | 59.5 | 24,090 | 61.1 | 22,430* |
| | 110 | 47.2 | 25,620 | 49.5 | 23,790* | 51.4 | 20,120* | | 120 | 53.9 | 21,190 | 55.8 | 21,200 | 57.4 | 21,210 |
| 120' | 34 | 80.7 | 32,000* | - | - | - | - | 160' | 40 | 80.8 | 32,000* | - | - | - | - |
| | 35 | 80.3 | 32,000* | - | - | - | - | | 50 | 77.9 | 32,000* | 79.8 | 32,000* | - | - |
| | 40 | 78.5 | 32,000* | 80.9 | 32,000* | - | - | | 60 | 75.0 | 32,000* | 76.9 | 32,000* | 78.6 | 31,940* |
| | 50 | 74.9 | 32,000* | 77.2 | 32,000* | 79.4 | 32,000* | | 70 | 72.0 | 32,000* | 73.9 | 32,000* | 75.6 | 29,580* |
| | 60 | 71.1 | 32,000* | 73.5 | 32,000* | 75.6 | 29,690* | | 80 | 69.0 | 32,000* | 70.8 | 32,000* | 72.5 | 27,520* |
| | 70 | 67.3 | 32,000* | 69.6 | 32,000* | 71.7 | 27,140* | | 90 | 65.9 | 31,590 | 67.7 | 31,600 | 69.4 | 25,740* |
| | 80 | 63.4 | 32,000* | 65.6 | 31,170* | 67.7 | 25,050* | | 100 | 62.7 | 27,190 | 64.5 | 27,190 | 66.1 | 24,220* |
| | 90 | 59.3 | 32,000* | 61.5 | 28,640* | 63.5 | 23,330* | | 110 | 59.4 | 23,650 | 61.2 | 23,660 | 62.8 | 22,980* |
| | 100 | 55.0 | 28,750 | 57.2 | 26,480* | 59.1 | 21,910* | | 120 | 56.0 | 20,770 | 57.8 | 20,770 | 59.3 | 20,780 |
| | 110 | 50.4 | 25,240 | 52.6 | 24,750* | 54.5 | 20,730* | | 130 | 52.5 | 18,360 | 54.2 | 18,370 | 55.7 | 18,380 |
| 120 | 45.6 | 22,360 | 47.7 | 22,370 | 49.4 | 19,770* | 140 | 48.7 | 16,330 | 50.4 | 16,340 | 51.9 | 16,350 | | |
| | | | | | | | | 150 | 44.8 | 14,600 | 46.4 | 14,600 | 47.8 | 14,620 | |
| | | | | | | | | 160 | 40.5 | 13,100 | 42.1 | 13,110 | 43.3 | 13,120 | |
| 130' | 35 | 80.9 | 32,000* | - | - | - | - | 170' | 41 | 81.0 | 32,000* | - | - | - | - |
| | 40 | 79.2 | 32,000* | - | - | - | - | | 50 | 78.5 | 32,000* | 80.3 | 32,000* | - | - |
| | 50 | 75.8 | 32,000* | 78.0 | 32,000* | 80.1 | 32,000* | | 60 | 75.7 | 32,000* | 77.5 | 32,000* | 79.2 | 32,000* |
| | 60 | 72.3 | 32,000* | 74.5 | 32,000* | 76.5 | 30,320* | | 70 | 72.9 | 32,000* | 74.7 | 32,000* | 76.3 | 29,950* |
| | 70 | 68.7 | 32,000* | 70.9 | 32,000* | 72.9 | 27,880* | | 80 | 70.0 | 32,000* | 71.8 | 32,000* | 73.4 | 27,990* |
| | 80 | 65.0 | 32,000* | 67.2 | 32,000* | 69.2 | 25,790* | | 90 | 67.1 | 31,190 | 68.8 | 31,200 | 70.4 | 26,220* |
| | 90 | 61.3 | 32,000* | 63.4 | 29,620* | 65.3 | 23,990* | | 100 | 64.1 | 26,790 | 65.8 | 26,790 | 67.4 | 24,710* |
| | 100 | 57.3 | 28,410 | 59.4 | 27,530* | 61.3 | 22,550* | | 110 | 61.0 | 23,250 | 62.7 | 23,260 | 64.3 | 23,270 |
| | 110 | 53.2 | 24,890 | 55.3 | 24,890 | 57.0 | 21,300* | | 120 | 57.8 | 20,360 | 59.5 | 20,360 | 61.0 | 20,380 |
| | 120 | 48.8 | 22,000 | 50.9 | 22,010 | 52.5 | 20,280* | | 130 | 54.5 | 17,950 | 56.2 | 17,960 | 57.6 | 17,970 |
| 130 | 44.1 | 19,610 | 46.1 | 19,620 | 47.7 | 19,400* | 140 | 51.1 | 15,920 | 52.7 | 15,920 | 54.1 | 15,940 | | |
| | | | | | | | | 150 | 47.5 | 14,180 | 49.1 | 14,190 | 50.4 | 14,200 | |
| | | | | | | | | 160 | 43.6 | 12,680 | 45.2 | 12,680 | 46.4 | 12,700 | |
| | | | | | | | | 170 | 39.5 | 11,370 | 41.0 | 11,380 | 42.1 | 11,390 | |

LOAD CHART

HC 165

**With 77SI Offset Tip Boom and 116,400 Pound Counterweight
#16HL Jib**

| 108,400 lb + 8,000 lb carbody counterweight | | | | | | | 360° | | | | | ANSI B 30.5 | | | |
|---|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| 40' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) |
| 180' | 43 | 80.9 | 32,000* | - | - | - | - | 210' | 48 | 80.8 | 32,000* | - | - | - | - |
| | 50 | 79.0 | 32,000* | 80.8 | 32,000* | - | - | | 50 | 80.4 | 32,000* | - | - | - | - |
| | 60 | 76.4 | 32,000* | 78.1 | 32,000* | 79.7 | 32,000* | | 60 | 78.0 | 32,000* | 79.6 | 32,000* | 81.0 | 32,000* |
| | 70 | 73.7 | 32,000* | 75.4 | 32,000* | 77.0 | 30,450* | | 70 | 75.7 | 32,000* | 77.2 | 32,000* | 78.6 | 31,760* |
| | 80 | 71.0 | 32,000* | 72.7 | 32,000* | 74.2 | 28,440* | | 80 | 73.3 | 32,000* | 74.8 | 32,000* | 76.2 | 29,790* |
| | 90 | 68.2 | 30,820 | 69.9 | 30,830 | 71.4 | 26,700* | | 90 | 70.9 | 29,580 | 72.4 | 29,590 | 73.8 | 28,010* |
| | 100 | 65.4 | 26,410 | 67.0 | 26,420 | 68.5 | 25,170* | | 100 | 68.5 | 25,160 | 69.9 | 25,160 | 71.3 | 25,170 |
| | 110 | 62.4 | 22,880 | 64.1 | 22,880 | 65.6 | 22,890 | | 110 | 66.0 | 21,620 | 67.4 | 21,630 | 68.8 | 21,640 |
| | 120 | 59.5 | 19,980 | 61.1 | 19,990 | 62.5 | 20,000 | | 120 | 63.4 | 18,710 | 64.9 | 18,720 | 66.2 | 18,730 |
| | 130 | 56.4 | 17,570 | 58.0 | 17,580 | 59.4 | 17,590 | | 130 | 60.9 | 16,300 | 62.3 | 16,300 | 63.6 | 16,310 |
| 190' | 140 | 53.2 | 15,540 | 54.8 | 15,540 | 56.1 | 15,560 | 140 | 58.2 | 14,260 | 59.6 | 14,260 | 60.8 | 14,270 | |
| | 150 | 49.8 | 13,800 | 51.4 | 13,800 | 52.7 | 13,820 | 150 | 55.4 | 12,510 | 56.8 | 12,510 | 58.0 | 12,530 | |
| | 160 | 46.3 | 12,290 | 47.8 | 12,300 | 49.1 | 12,310 | 160 | 52.6 | 10,990 | 54.0 | 11,000 | 55.1 | 11,010 | |
| | 170 | 42.6 | 10,980 | 44.0 | 10,990 | 45.2 | 11,000 | 170 | 49.6 | 9,670 | 51.0 | 9,680 | 52.1 | 9,690 | |
| | 180 | 38.5 | 9,840 | 39.9 | 9,840 | 41.0 | 9,860 | 180 | 46.5 | 8,520 | 47.9 | 8,520 | 49.0 | 8,540 | |
| | 45 | 80.8 | 32,000* | - | - | - | - | 190 | 43.3 | 7,490 | 44.6 | 7,500 | 45.6 | 7,510 | |
| | 50 | 79.5 | 32,000* | - | - | - | - | 200 | 39.8 | 6,590 | 41.1 | 6,600 | 42.0 | 6,610 | |
| | 60 | 77.0 | 32,000* | 78.6 | 32,000* | 80.2 | 32,000* | 210 | 36.0 | 5,790 | 37.2 | 5,800 | 38.1 | 5,810 | |
| | 70 | 74.4 | 32,000* | 76.1 | 32,000* | 77.6 | 30,910* | 220' | 49 | 81.0 | 32,000* | - | - | - | - |
| | 80 | 71.8 | 32,000* | 73.4 | 32,000* | 74.9 | 28,870* | | 50 | 80.7 | 32,000* | - | - | - | - |
| 90 | 69.2 | 30,410 | 70.8 | 30,420 | 72.3 | 27,220* | 60 | | 78.5 | 32,000* | 80.0 | 32,000* | - | - | |
| 100 | 66.5 | 25,990 | 68.1 | 26,000 | 69.5 | 25,650* | 70 | | 76.2 | 32,000* | 77.7 | 32,000* | 79.1 | 32,000* | |
| 110 | 63.7 | 22,450 | 65.3 | 22,460 | 66.7 | 22,470 | 80 | | 74.0 | 32,000* | 75.4 | 32,000* | 76.8 | 30,080* | |
| 120 | 60.9 | 19,560 | 62.5 | 19,560 | 63.9 | 19,580 | 90 | | 71.7 | 29,170 | 73.1 | 29,180 | 74.4 | 28,440* | |
| 130 | 58.0 | 17,150 | 59.6 | 17,150 | 60.9 | 17,160 | 100 | | 69.3 | 24,740 | 70.8 | 24,740 | 72.1 | 24,750 | |
| 140 | 55.0 | 15,110 | 56.6 | 15,120 | 57.9 | 15,130 | 110 | | 67.0 | 21,200 | 68.4 | 21,200 | 69.6 | 21,210 | |
| 150 | 51.9 | 13,370 | 53.4 | 13,370 | 54.7 | 13,380 | 120 | | 64.5 | 18,290 | 65.9 | 18,300 | 67.2 | 18,310 | |
| 160 | 48.7 | 11,860 | 50.1 | 11,860 | 51.4 | 11,870 | 130 | | 62.1 | 15,870 | 63.5 | 15,880 | 64.7 | 15,890 | |
| 200' | 170 | 45.2 | 10,540 | 46.7 | 10,550 | 47.8 | 10,560 | 140 | 59.5 | 13,830 | 60.9 | 13,840 | 62.1 | 13,850 | |
| | 180 | 41.6 | 9,390 | 43.0 | 9,400 | 44.1 | 9,410 | 150 | 56.9 | 12,080 | 58.3 | 12,090 | 59.5 | 12,100 | |
| | 190 | 37.6 | 8,380 | 39.0 | 8,390 | 40.0 | 8,400 | 160 | 54.3 | 10,560 | 55.6 | 10,570 | 56.8 | 10,580 | |
| | 46 | 80.9 | 32,000* | - | - | - | - | 170 | 51.5 | 9,240 | 52.8 | 9,250 | 53.9 | 9,260 | |
| | 50 | 80.0 | 32,000* | - | - | - | - | 180 | 48.6 | 8,080 | 49.9 | 8,090 | 51.0 | 8,100 | |
| | 60 | 77.5 | 32,000* | 79.1 | 32,000* | 80.6 | 32,000* | 190 | 45.6 | 7,060 | 46.9 | 7,060 | 47.9 | 7,080 | |
| | 70 | 75.1 | 32,000* | 76.6 | 32,000* | 78.1 | 31,340* | 200 | 42.4 | 6,160 | 43.6 | 6,160 | 44.6 | 6,180 | |
| | 80 | 72.6 | 32,000* | 74.2 | 32,000* | 75.6 | 29,380* | 210 | 39.0 | 5,340 | 40.2 | 5,350 | 41.1 | 5,360 | |
| | 90 | 70.1 | 30,000 | 71.6 | 30,010 | 73.0 | 27,670* | 220 | 35.3 | 4,620 | 36.4 | 4,620 | 37.2 | 4,640 | |
| | 100 | 67.5 | 25,580 | 69.1 | 25,590 | 70.4 | 25,600 | 230' | 51 | 80.9 | 32,000* | - | - | - | - |
| 110 | 64.9 | 22,040 | 66.4 | 22,050 | 67.8 | 22,060 | 60 | | 78.9 | 32,000* | 80.3 | 32,000* | - | - | |
| 120 | 62.2 | 19,150 | 63.8 | 19,150 | 65.1 | 19,160 | 70 | | 76.8 | 32,000* | 78.2 | 32,000* | 79.5 | 32,000* | |
| 130 | 59.5 | 16,720 | 61.0 | 16,730 | 62.3 | 16,740 | 80 | | 74.6 | 32,000* | 76.0 | 32,000* | 77.3 | 30,500* | |
| 140 | 56.7 | 14,680 | 58.2 | 14,690 | 59.4 | 14,700 | 90 | | 72.4 | 28,780 | 73.8 | 28,790 | 75.0 | 28,770* | |
| 150 | 53.8 | 12,940 | 55.2 | 12,940 | 56.5 | 12,950 | 100 | | 70.1 | 24,360 | 71.5 | 24,360 | 72.8 | 24,370 | |
| 160 | 50.7 | 11,430 | 52.2 | 11,440 | 53.4 | 11,450 | 110 | | 67.9 | 20,810 | 69.2 | 20,810 | 70.5 | 20,820 | |
| 170 | 47.6 | 10,120 | 49.0 | 10,120 | 50.1 | 10,130 | 120 | | 65.6 | 17,900 | 66.9 | 17,900 | 68.1 | 17,910 | |
| 180 | 44.2 | 8,960 | 45.6 | 8,970 | 46.7 | 8,980 | 130 | | 63.2 | 15,480 | 64.5 | 15,490 | 65.7 | 15,500 | |
| 190 | 40.6 | 7,940 | 42.0 | 7,950 | 43.0 | 7,970 | 140 | | 60.8 | 13,440 | 62.1 | 13,440 | 63.3 | 13,450 | |
| 200 | 36.8 | 7,040 | 38.1 | 7,050 | 39.0 | 7,070 | 150 | 58.3 | 11,690 | 59.6 | 11,690 | 60.8 | 11,700 | | |
| | | | | | | | | 160 | 55.8 | 10,170 | 57.1 | 10,170 | 58.2 | 10,180 | |
| | | | | | | | | 170 | 53.2 | 8,840 | 54.5 | 8,850 | 55.5 | 8,860 | |
| | | | | | | | | 180 | 50.5 | 7,680 | 51.7 | 7,690 | 52.8 | 7,700 | |
| | | | | | | | | 190 | 47.6 | 6,650 | 48.9 | 6,660 | 49.9 | 6,670 | |
| | | | | | | | | 200 | 44.7 | 5,750 | 45.9 | 5,750 | 46.9 | 5,770 | |
| | | | | | | | | 210 | 41.5 | 4,930 | 42.7 | 4,940 | 43.6 | 4,950 | |
| | | | | | | | | 220 | 38.2 | 4,210 | 39.4 | 4,210 | 40.2 | 4,230 | |
| | | | | | | | | 230 | 34.6 | 3,550 | 35.7 | 3,560 | 36.5 | 3,580 | |

LOAD CHART

HC 165

**With 77SI Offset Tip Boom and 116,400 Pound Counterweight
#16HL Jib**

| 108,400 lb + 8,000 lb carbody counterweight | | | | | | | 360° | | | | | ANSI B 30.5 | | | |
|---|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|-------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|
| 40' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | Rating (Pounds) | 15.0 Deg offset Boom Angle | Rating (Pounds) | 25.0 Deg offset Boom Angle | Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | Rating (Pounds) | 15.0 Deg offset Boom Angle | Rating (Pounds) | 25.0 Deg offset Boom Angle | Rating (Pounds) |
| | 52 | 81.0 | 32,000* | - | - | - | - | | | | | | | | |
| | 60 | 79.3 | 32,000* | 80.7 | 32,000* | - | - | | 54 | 80.9 | 32,000* | - | - | - | - |
| | 70 | 77.2 | 32,000* | 78.6 | 32,000* | 79.9 | 32,000* | | 60 | 79.7 | 32,000* | - | - | - | - |
| | 80 | 75.1 | 32,000* | 76.5 | 32,000* | 77.7 | 30,780* | | 70 | 77.7 | 32,000* | 79.0 | 32,000* | 80.2 | 32,000* |
| | 90 | 73.0 | 28,360 | 74.4 | 28,370 | 75.6 | 28,380 | | 80 | 75.7 | 32,000* | 77.0 | 32,000* | 78.2 | 31,190* |
| | 100 | 70.9 | 23,940 | 72.2 | 23,940 | 73.4 | 23,950 | | 90 | 73.6 | 27,950 | 74.9 | 27,960 | 76.1 | 27,970 |
| | 110 | 68.7 | 20,390 | 70.0 | 20,390 | 71.2 | 20,400 | | 100 | 71.6 | 23,520 | 72.8 | 23,520 | 74.0 | 23,530 |
| | 120 | 66.5 | 17,480 | 67.8 | 17,480 | 69.0 | 17,490 | | 110 | 69.5 | 19,970 | 70.7 | 19,970 | 71.9 | 19,980 |
| 240' | 130 | 64.2 | 15,050 | 65.5 | 15,050 | 66.7 | 15,070 | | 120 | 67.3 | 17,060 | 68.6 | 17,060 | 69.7 | 17,070 |
| | 140 | 61.9 | 13,000 | 63.2 | 13,010 | 64.3 | 13,020 | | 130 | 65.2 | 14,630 | 66.4 | 14,630 | 67.6 | 14,640 |
| | 150 | 59.6 | 11,250 | 60.9 | 11,260 | 62.0 | 11,270 | | 140 | 63.0 | 12,580 | 64.2 | 12,590 | 65.3 | 12,600 |
| | 160 | 57.2 | 9,730 | 58.4 | 9,740 | 59.5 | 9,750 | | 150 | 60.7 | 10,830 | 62.0 | 10,830 | 63.1 | 10,840 |
| | 170 | 54.7 | 8,410 | 55.9 | 8,420 | 57.0 | 8,430 | | 160 | 58.4 | 9,300 | 59.7 | 9,310 | 60.7 | 9,320 |
| | 180 | 52.1 | 7,250 | 53.4 | 7,250 | 54.4 | 7,270 | | 170 | 56.1 | 7,980 | 57.3 | 7,980 | 58.3 | 7,990 |
| | 190 | 49.5 | 6,220 | 50.7 | 6,220 | 51.7 | 6,240 | | 180 | 53.7 | 6,810 | 54.9 | 6,820 | 55.9 | 6,830 |
| | 200 | 46.7 | 5,300 | 47.9 | 5,310 | 48.9 | 5,320 | | 190 | 51.2 | 5,780 | 52.3 | 5,780 | 53.3 | 5,800 |
| | 210 | 43.8 | 4,480 | 45.0 | 4,490 | 45.9 | 4,500 | | 200 | 48.6 | 4,870 | 49.7 | 4,870 | 50.7 | 4,890 |
| | 220 | 40.8 | 3,750 | 41.9 | 3,760 | 42.8 | 3,770 | | 210 | 45.9 | 4,040 | 47.0 | 4,050 | 47.9 | 4,060 |
| | 230 | 37.5 | 3,090 | 38.6 | 3,100 | 39.4 | 3,110 | | 220 | 43.0 | 3,310 | 44.1 | 3,320 | 45.0 | 3,330 |
| | 240 | 33.9 | 2,510 | 35.0 | 2,520 | 35.7 | 2,530 | | 230 | 40.0 | 2,640 | 41.1 | 2,650 | 41.9 | 2,670 |
| | | | | | | | | | 240 | 36.8 | 2,050 | 37.9 | 2,060 | 38.6 | 2,080 |

| 50' Jib length | | | | | | | | | | | | | | | |
|----------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|-------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | Rating (Pounds) | 15.0 Deg offset Boom Angle | Rating (Pounds) | 25.0 Deg offset Boom Angle | Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | Rating (Pounds) | 15.0 Deg offset Boom Angle | Rating (Pounds) | 25.0 Deg offset Boom Angle | Rating (Pounds) |
| | 38 | 80.7 | 32,000* | - | - | - | - | | | | | | | | |
| | 40 | 80.1 | 31,900* | - | - | - | - | | 41 | 80.8 | 32,000* | - | - | - | - |
| | 50 | 76.8 | 30,710* | 79.5 | 28,230* | - | - | | 50 | 78.2 | 31,020* | 80.6 | 28,330* | - | - |
| | 60 | 73.6 | 29,560* | 76.2 | 27,410* | 78.6 | 25,610* | | 60 | 75.2 | 29,930* | 77.6 | 27,520* | 79.8 | 25,640* |
| 130' | 70 | 70.2 | 28,590* | 72.8 | 26,560* | 75.2 | 23,760* | | 70 | 72.3 | 29,000* | 74.6 | 26,860* | 76.8 | 24,550* |
| | 80 | 66.8 | 27,570* | 69.4 | 25,940* | 71.7 | 21,930* | | 80 | 69.2 | 28,120* | 71.6 | 26,210* | 73.7 | 22,850* |
| | 90 | 63.3 | 26,760* | 65.8 | 25,250* | 68.1 | 20,400* | | 90 | 66.1 | 27,290* | 68.4 | 25,650* | 70.5 | 21,310* |
| | 100 | 59.6 | 26,020* | 62.1 | 23,580* | 64.4 | 19,140* | | 100 | 62.9 | 26,560* | 65.2 | 25,070* | 67.3 | 20,000* |
| | 110 | 55.8 | 25,070 | 58.3 | 21,960* | 60.5 | 18,090* | | 110 | 59.7 | 24,260 | 61.9 | 23,410* | 63.9 | 18,900* |
| | 120 | 51.8 | 22,190 | 54.3 | 20,590* | 56.4 | 17,170* | | 120 | 56.3 | 21,380 | 58.5 | 21,380 | 60.4 | 17,980* |
| | 130 | 47.6 | 19,790 | 50.0 | 19,480* | 52.0 | 16,340* | | 130 | 52.7 | 18,970 | 54.9 | 18,980 | 56.8 | 17,160* |
| | | | | | | | | | 140 | 49.0 | 16,940 | 51.1 | 16,950 | 53.0 | 16,430* |
| | | | | | | | | | 150 | 45.0 | 15,210 | 47.1 | 15,210 | 48.8 | 15,230 |
| | 39 | 80.9 | 32,000* | - | - | - | - | | | | | | | | |
| | 40 | 80.6 | 32,000* | - | - | - | - | | 42 | 81.0 | 31,940* | - | - | - | - |
| | 50 | 77.5 | 30,800* | 80.1 | 28,220* | - | - | | 50 | 78.7 | 31,170* | - | - | - | - |
| | 60 | 74.4 | 29,810* | 76.9 | 27,440* | 79.3 | 25,670* | | 60 | 76.0 | 30,160* | 78.2 | 27,640* | 80.3 | 25,700* |
| 140' | 70 | 71.3 | 28,740* | 73.8 | 26,710* | 76.1 | 24,150* | | 70 | 73.1 | 29,170* | 75.4 | 26,930* | 77.5 | 24,960* |
| | 80 | 68.1 | 27,890* | 70.5 | 26,030* | 72.8 | 22,350* | | 80 | 70.3 | 28,340* | 72.5 | 26,380* | 74.5 | 23,220* |
| | 90 | 64.8 | 27,100* | 67.2 | 25,460* | 69.4 | 20,920* | | 90 | 67.3 | 27,610* | 69.5 | 25,740* | 71.5 | 21,690* |
| | 100 | 61.4 | 26,290* | 63.8 | 24,300* | 65.9 | 19,600* | | 100 | 64.3 | 26,890* | 66.5 | 25,190* | 68.5 | 20,400* |
| | 110 | 57.9 | 24,660 | 60.2 | 22,720* | 62.3 | 18,520* | | 110 | 61.2 | 23,840 | 63.4 | 23,850 | 65.3 | 19,340* |
| | 120 | 54.2 | 21,770 | 56.5 | 21,310* | 58.6 | 17,570* | | 120 | 58.1 | 20,950 | 60.2 | 20,960 | 62.1 | 18,340* |
| | 130 | 50.3 | 19,370 | 52.6 | 19,380 | 54.6 | 16,750* | | 130 | 54.8 | 18,540 | 56.9 | 18,550 | 58.7 | 17,500* |
| | 140 | 46.3 | 17,350 | 48.5 | 17,350 | 50.4 | 16,100* | | 140 | 51.3 | 16,510 | 53.4 | 16,520 | 55.2 | 16,530 |
| | | | | | | | | | 150 | 47.7 | 14,770 | 49.7 | 14,780 | 51.4 | 14,790 |
| | | | | | | | | | 160 | 43.8 | 13,280 | 45.8 | 13,290 | 47.4 | 13,300 |



LOAD CHART

HC 165

**With 77SI Offset Tip Boom and 116,400 Pound Counterweight
#16HL Jib**

| 108,400 lb + 8,000 lb carbody counterweight | | | | | | | | 360° | | | | ANSI B 30.5 | | | |
|---|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| 50' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) |
| | 44 | 80.8 | 31,790* | - | - | - | - | | | | | | | | |
| | 50 | 79.3 | 31,190* | - | - | - | - | | 49 | 80.8 | 31,430* | - | - | - | - |
| | 60 | 76.6 | 30,230* | 78.8 | 27,630* | 80.8 | 25,710* | | 50 | 80.6 | 31,320* | - | - | - | - |
| | 70 | 73.9 | 29,400* | 76.1 | 27,080* | 78.1 | 25,240* | | 60 | 78.2 | 30,580* | 80.1 | 27,800* | - | - |
| | 80 | 71.2 | 28,560* | 73.3 | 26,430* | 75.3 | 23,620* | | 70 | 75.9 | 29,760* | 77.8 | 27,210* | 79.6 | 25,200* |
| | 90 | 68.4 | 27,740* | 70.5 | 25,900* | 72.5 | 22,120* | | 80 | 73.5 | 29,010* | 75.4 | 26,650* | 77.1 | 24,550* |
| 170' | 100 | 65.6 | 26,960 | 67.7 | 25,390* | 69.6 | 20,860* | | 90 | 71.1 | 28,290* | 73.0 | 26,090* | 74.7 | 23,100* |
| | 110 | 62.7 | 23,430 | 64.7 | 23,430 | 66.6 | 19,740* | | 100 | 68.7 | 25,760 | 70.5 | 25,700* | 72.2 | 21,810* |
| | 120 | 59.7 | 20,530 | 61.7 | 20,540 | 63.6 | 18,750* | | 110 | 66.2 | 22,220 | 68.0 | 22,230 | 69.7 | 20,740* |
| | 130 | 56.6 | 18,120 | 58.6 | 18,130 | 60.4 | 17,850* | | 120 | 63.6 | 19,320 | 65.5 | 19,230 | 67.1 | 19,340 |
| | 140 | 53.4 | 16,090 | 55.4 | 16,100 | 57.1 | 16,110 | | 130 | 61.0 | 16,910 | 62.9 | 16,910 | 64.5 | 16,930 |
| | 150 | 50.1 | 14,350 | 52.0 | 14,350 | 53.7 | 14,370 | | 140 | 58.4 | 14,870 | 60.2 | 14,870 | 61.7 | 14,890 |
| | 160 | 46.5 | 12,850 | 48.5 | 12,860 | 50.0 | 12,870 | | 150 | 55.6 | 13,120 | 57.4 | 13,130 | 58.9 | 13,140 |
| | 170 | 42.8 | 11,540 | 44.7 | 11,550 | 46.2 | 11,560 | | 160 | 52.8 | 11,600 | 54.5 | 11,610 | 56.0 | 11,630 |
| | | | | | | | | | 170 | 49.8 | 10,290 | 51.6 | 10,300 | 53.0 | 10,310 |
| | | | | | | | | | 180 | 46.7 | 9,140 | 48.4 | 9,140 | 49.8 | 9,160 |
| | | | | | | | | | 190 | 43.5 | 8,110 | 45.1 | 8,120 | 46.4 | 8,140 |
| | | | | | | | | | 200 | 40.0 | 7,210 | 41.6 | 7,220 | 42.8 | 7,240 |
| | 45 | 81.0 | 31,770* | - | - | - | - | | | | | | | | |
| | 50 | 79.7 | 31,230* | - | - | - | - | | | | | | | | |
| | 60 | 77.2 | 30,360* | 79.3 | 27,700* | - | - | | | | | | | | |
| | 70 | 74.6 | 29,520* | 76.7 | 27,140* | 78.6 | 25,220* | | | | | | | | |
| | 80 | 72.0 | 28,650* | 74.1 | 26,540* | 76.0 | 23,960* | | | | | | | | |
| | 90 | 69.4 | 27,990* | 71.4 | 25,950* | 73.3 | 22,470* | | | | | | | | |
| 180' | 100 | 66.7 | 26,590 | 68.7 | 25,480* | 70.5 | 21,210* | | | | | | | | |
| | 110 | 64.0 | 23,050 | 65.9 | 23,060 | 67.7 | 20,100* | | | | | | | | |
| | 120 | 61.1 | 20,160 | 63.1 | 20,170 | 64.9 | 19,070* | | | | | | | | |
| | 130 | 58.2 | 17,750 | 60.2 | 17,750 | 61.9 | 17,770 | | | | | | | | |
| | 140 | 55.2 | 15,710 | 57.2 | 15,720 | 58.8 | 15,730 | | | | | | | | |
| | 150 | 52.1 | 13,970 | 54.0 | 13,970 | 55.6 | 13,990 | | | | | | | | |
| | 160 | 48.9 | 12,470 | 50.7 | 12,470 | 52.3 | 12,490 | | | | | | | | |
| | 170 | 45.4 | 11,150 | 47.3 | 11,160 | 48.8 | 11,170 | | | | | | | | |
| | 180 | 41.8 | 10,000 | 43.6 | 10,010 | 45.0 | 10,030 | | | | | | | | |
| | 47 | 80.9 | 31,550* | - | - | - | - | | | | | | | | |
| | 50 | 80.2 | 31,380* | - | - | - | - | | | | | | | | |
| | 60 | 77.7 | 30,470* | 79.7 | 27,760* | - | - | | | | | | | | |
| | 70 | 75.3 | 29,610* | 77.3 | 27,170* | 79.1 | 25,220* | | | | | | | | |
| | 80 | 72.8 | 28,830* | 74.8 | 26,540* | 76.6 | 24,260* | | | | | | | | |
| | 90 | 70.3 | 28,090* | 72.2 | 26,080* | 74.0 | 22,820* | | | | | | | | |
| 190' | 100 | 67.7 | 26,170 | 69.7 | 25,530* | 71.4 | 21,520* | | | | | | | | |
| | 110 | 65.1 | 22,630 | 67.0 | 22,640 | 68.8 | 20,420* | | | | | | | | |
| | 120 | 62.5 | 19,740 | 64.3 | 19,740 | 66.0 | 19,400* | | | | | | | | |
| | 130 | 59.7 | 17,320 | 61.6 | 17,330 | 63.2 | 17,340 | | | | | | | | |
| | 140 | 56.9 | 15,280 | 58.8 | 15,290 | 60.4 | 15,300 | | | | | | | | |
| | 150 | 54.0 | 13,540 | 55.8 | 13,540 | 57.4 | 13,560 | | | | | | | | |
| | 160 | 50.9 | 12,030 | 52.8 | 12,040 | 54.3 | 12,060 | | | | | | | | |
| | 170 | 47.8 | 10,720 | 49.5 | 10,720 | 51.0 | 10,740 | | | | | | | | |
| | 180 | 44.4 | 9,560 | 46.2 | 9,570 | 47.6 | 9,590 | | | | | | | | |
| | 190 | 40.8 | 8,540 | 42.5 | 8,550 | 43.9 | 8,570 | | | | | | | | |
| | 50 | 80.9 | 31,350* | - | - | - | - | | | | | | | | |
| | 60 | 78.7 | 30,550* | 80.5 | 27,740* | - | - | | | | | | | | |
| | 70 | 76.4 | 29,800* | 78.3 | 27,230* | 80.0 | 25,170* | | | | | | | | |
| | 80 | 74.2 | 29,040* | 76.0 | 26,620* | 77.7 | 24,770* | | | | | | | | |
| | 90 | 71.9 | 28,360* | 73.7 | 26,200* | 75.3 | 23,470* | | | | | | | | |
| | 100 | 69.5 | 25,340 | 71.3 | 25,350 | 72.9 | 22,180* | | | | | | | | |
| | 110 | 67.1 | 21,800 | 68.9 | 21,800 | 70.5 | 21,080* | | | | | | | | |
| | 120 | 64.7 | 18,890 | 66.5 | 18,900 | 68.1 | 18,910 | | | | | | | | |
| 210' | 130 | 62.3 | 16,470 | 64.0 | 16,480 | 65.6 | 16,490 | | | | | | | | |
| | 140 | 59.7 | 14,430 | 61.5 | 14,440 | 63.0 | 14,450 | | | | | | | | |
| | 150 | 57.1 | 12,680 | 58.9 | 12,690 | 60.3 | 12,700 | | | | | | | | |
| | 160 | 54.5 | 11,160 | 56.2 | 11,170 | 57.6 | 11,190 | | | | | | | | |
| | 170 | 51.7 | 9,850 | 53.4 | 9,860 | 54.8 | 9,870 | | | | | | | | |
| | 180 | 48.8 | 8,690 | 50.4 | 8,700 | 51.8 | 8,710 | | | | | | | | |
| | 190 | 45.8 | 7,670 | 47.4 | 7,670 | 48.7 | 7,690 | | | | | | | | |
| | 200 | 42.6 | 6,760 | 44.2 | 6,760 | 45.4 | 6,780 | | | | | | | | |
| | 210 | 39.1 | 5,950 | 40.7 | 5,960 | 41.8 | 5,980 | | | | | | | | |
| | 52 | 80.8 | 31,140* | - | - | - | - | | | | | | | | |
| | 60 | 79.1 | 30,600* | 80.9 | 27,680* | - | - | | | | | | | | |
| | 70 | 76.9 | 29,800* | 78.7 | 27,140* | 80.4 | 25,100* | | | | | | | | |
| | 80 | 74.8 | 29,070* | 76.5 | 26,710* | 78.1 | 24,800* | | | | | | | | |
| | 90 | 72.6 | 28,420* | 74.3 | 26,190* | 75.9 | 23,730* | | | | | | | | |
| | 100 | 70.3 | 24,920 | 72.0 | 24,930 | 73.6 | 22,420* | | | | | | | | |
| | 110 | 68.0 | 21,380 | 69.8 | 21,380 | 71.3 | 21,380* | | | | | | | | |
| | 120 | 65.7 | 18,470 | 67.4 | 18,470 | 69.0 | 18,490 | | | | | | | | |
| 220' | 130 | 63.4 | 16,050 | 65.1 | 16,060 | 66.6 | 16,070 | | | | | | | | |
| | 140 | 61.0 | 14,010 | 62.6 | 14,010 | 64.1 | 14,030 | | | | | | | | |
| | 150 | 58.5 | 12,260 | 60.2 | 12,260 | 61.6 | 12,280 | | | | | | | | |
| | 160 | 56.0 | 10,740 | 57.6 | 10,740 | 59.0 | 10,760 | | | | | | | | |
| | 170 | 53.4 | 9,420 | 55.0 | 9,430 | 56.3 | 9,440 | | | | | | | | |
| | 180 | 50.6 | 8,260 | 52.2 | 8,270 | 53.6 | 8,280 | | | | | | | | |
| | 190 | 47.8 | 7,230 | 49.4 | 7,240 | 50.7 | 7,250 | | | | | | | | |
| | 200 | 44.8 | 6,320 | 46.4 | 6,330 | 47.6 | 6,340 | | | | | | | | |
| | 210 | 41.7 | 5,510 | 43.2 | 5,520 | 44.4 | 5,530 | | | | | | | | |
| | 220 | 38.4 | 4,780 | 39.9 | 4,790 | 40.9 | 4,800 | | | | | | | | |

LOAD CHART

HC 165

**With 77SI Offset Tip Boom and 116,400 Pound Counterweight
#16HL Jib**

108,400 lb + 8,000 lb carbody counterweight 360° ANSI B 30.5

| 50' Jib length | | | | | | | 360° | | | | | | | ANSI B 30.5 | | | | | | |
|----------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|--|--|--|--|--|
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | | | | | |
| | 53 | 81.0 | 31,080* | - | - | - | - | | 56 | 81.0 | 30,720* | - | - | - | - | | | | | |
| | 60 | 79.5 | 30,600* | - | - | - | - | | 60 | 80.2 | 30,390* | - | - | - | - | | | | | |
| | 70 | 77.4 | 29,850* | 79.1 | 27,190* | 80.7 | 24,980* | | 70 | 78.3 | 29,780* | 79.9 | 27,030* | - | - | | | | | |
| | 80 | 75.3 | 29,110* | 77.0 | 26,710* | 78.6 | 24,700* | | 80 | 76.3 | 29,170* | 77.9 | 26,550* | 79.4 | 24,540* | | | | | |
| | 90 | 73.2 | 28,480* | 74.9 | 26,190* | 76.4 | 23,990* | | 90 | 74.3 | 28,130 | 75.9 | 26,120* | 77.4 | 24,260* | | | | | |
| | 100 | 71.0 | 24,530 | 72.7 | 24,540 | 74.2 | 22,790* | | 100 | 72.4 | 23,700 | 73.9 | 23,710 | 75.3 | 23,310* | | | | | |
| | 110 | 68.9 | 20,990 | 70.5 | 20,990 | 72.0 | 21,010 | | 110 | 70.3 | 20,150 | 71.9 | 20,150 | 73.3 | 20,170 | | | | | |
| | 120 | 66.7 | 18,080 | 68.3 | 18,080 | 69.8 | 18,100 | | 120 | 68.3 | 17,240 | 69.8 | 17,240 | 71.2 | 17,250 | | | | | |
| 230' | 130 | 64.4 | 15,660 | 66.0 | 15,670 | 67.5 | 15,680 | 250' | 130 | 66.2 | 14,810 | 67.8 | 14,810 | 69.1 | 14,820 | | | | | |
| | 140 | 62.1 | 13,610 | 63.7 | 13,620 | 65.2 | 13,630 | | 140 | 64.1 | 12,760 | 65.6 | 12,760 | 67.0 | 12,780 | | | | | |
| | 150 | 59.8 | 11,860 | 61.4 | 11,870 | 62.8 | 11,880 | | 150 | 62.0 | 11,000 | 63.5 | 11,010 | 64.8 | 11,020 | | | | | |
| | 160 | 57.3 | 10,340 | 58.9 | 10,350 | 60.3 | 10,360 | | 160 | 59.8 | 9,480 | 61.3 | 9,490 | 62.6 | 9,500 | | | | | |
| | 170 | 54.9 | 9,010 | 56.4 | 9,020 | 57.8 | 9,030 | | 170 | 57.5 | 8,150 | 59.0 | 8,160 | 60.3 | 8,170 | | | | | |
| | 180 | 52.3 | 7,860 | 53.9 | 7,870 | 55.2 | 7,880 | | 180 | 55.2 | 6,980 | 56.7 | 6,990 | 57.9 | 7,000 | | | | | |
| | 190 | 49.7 | 6,830 | 51.2 | 6,840 | 52.5 | 6,850 | | 190 | 52.8 | 5,960 | 54.3 | 5,960 | 55.5 | 5,980 | | | | | |
| | 200 | 46.9 | 5,910 | 48.4 | 5,920 | 49.6 | 5,940 | | 200 | 50.4 | 5,030 | 51.8 | 5,040 | 53.0 | 5,060 | | | | | |
| | 210 | 44.0 | 5,100 | 45.5 | 5,110 | 46.6 | 5,120 | | 210 | 47.9 | 4,210 | 49.3 | 4,210 | 50.4 | 4,230 | | | | | |
| | 220 | 40.9 | 4,360 | 42.4 | 4,370 | 43.5 | 4,390 | | 220 | 45.2 | 3,470 | 46.6 | 3,480 | 47.7 | 3,500 | | | | | |
| | 230 | 37.6 | 3,710 | 39.1 | 3,720 | 40.1 | 3,740 | | 230 | 42.4 | 2,810 | 43.8 | 2,820 | 44.8 | 2,840 | | | | | |
| | | | | | | | | | 240 | 39.5 | 2,210 | 40.8 | 2,220 | 41.8 | 2,240 | | | | | |

| | | | | | | | |
|------|-----|------|---------|------|---------|------|---------|
| | 55 | 80.9 | 30,840* | - | - | - | - |
| | 60 | 79.9 | 30,530* | - | - | - | - |
| | 70 | 77.9 | 29,880* | 79.5 | 27,100* | - | - |
| | 80 | 75.8 | 29,190* | 77.5 | 26,690* | 79.0 | 24,610* |
| | 90 | 73.8 | 28,540 | 75.4 | 26,250* | 76.9 | 24,230* |
| | 100 | 71.7 | 24,110 | 73.3 | 24,120 | 74.8 | 23,040* |
| | 110 | 69.6 | 20,570 | 71.2 | 20,570 | 72.7 | 20,590 |
| | 120 | 67.5 | 17,660 | 69.1 | 17,660 | 70.5 | 17,670 |
| 240' | 130 | 65.3 | 15,230 | 66.9 | 15,230 | 68.3 | 15,250 |
| | 140 | 63.1 | 13,180 | 64.7 | 13,190 | 66.1 | 13,200 |
| | 150 | 60.9 | 11,430 | 62.5 | 11,430 | 63.8 | 11,450 |
| | 160 | 58.6 | 9,900 | 60.1 | 9,910 | 61.5 | 9,930 |
| | 170 | 56.3 | 8,590 | 57.8 | 8,590 | 59.1 | 8,610 |
| | 180 | 53.8 | 7,420 | 55.3 | 7,430 | 56.6 | 7,440 |
| | 190 | 51.3 | 6,390 | 52.8 | 6,390 | 54.1 | 6,410 |
| | 200 | 48.7 | 5,470 | 50.2 | 5,470 | 51.4 | 5,490 |
| | 210 | 46.0 | 4,650 | 47.5 | 4,660 | 48.6 | 4,680 |
| | 220 | 43.2 | 3,910 | 44.6 | 3,920 | 45.7 | 3,940 |
| | 230 | 40.2 | 3,250 | 41.6 | 3,260 | 42.6 | 3,280 |
| | 240 | 37.0 | 2,660 | 38.3 | 2,670 | 39.3 | 2,690 |

| 60' Jib length | | | | | | | 360° | | | | | | | ANSI B 30.5 | | | | | | |
|----------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|--|--|--|--|--|
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | | | | | |
| | 43 | 80.9 | 28,920* | - | - | - | - | | 45 | 80.8 | 28,710* | - | - | - | - | | | | | |
| | 50 | 79.0 | 28,190* | - | - | - | - | | 50 | 79.5 | 28,220* | - | - | - | - | | | | | |
| | 60 | 76.2 | 27,190* | 78.9 | 24,740* | - | - | | 60 | 76.8 | 27,220* | 79.4 | 24,690* | - | - | | | | | |
| | 70 | 73.4 | 26,160* | 76.1 | 24,040* | 78.6 | 21,560* | | 70 | 74.1 | 26,330* | 76.7 | 24,110* | 79.2 | 21,790* | | | | | |
| 150' | 80 | 70.5 | 25,280* | 73.2 | 23,380* | 75.7 | 20,000* | | 80 | 71.4 | 25,470* | 74.0 | 23,480* | 76.4 | 20,320* | | | | | |
| | 90 | 67.6 | 24,480* | 70.2 | 22,750* | 72.7 | 18,670* | | 90 | 68.6 | 24,710* | 71.2 | 22,890* | 73.5 | 18,950* | | | | | |
| | 100 | 64.6 | 23,780* | 67.2 | 21,830* | 69.6 | 17,500* | 160' | 100 | 65.8 | 24,020* | 68.3 | 22,290* | 70.6 | 17,790* | | | | | |
| | 110 | 61.5 | 23,100* | 64.1 | 20,370* | 66.5 | 16,520* | | 110 | 62.9 | 23,300* | 65.4 | 20,920* | 67.7 | 16,820* | | | | | |
| | 120 | 58.3 | 21,540 | 60.9 | 19,080* | 63.2 | 15,660* | | 120 | 59.9 | 21,120 | 62.4 | 19,670* | 64.6 | 15,980* | | | | | |
| | 130 | 55.0 | 19,130 | 57.6 | 18,020* | 59.8 | 14,880* | | 130 | 56.8 | 18,710 | 59.3 | 18,550* | 61.4 | 15,170* | | | | | |
| | 140 | 51.6 | 17,100 | 54.1 | 17,060* | 56.3 | 14,230* | | 140 | 53.6 | 16,680 | 56.0 | 16,690 | 58.1 | 14,540* | | | | | |
| | 150 | 47.9 | 15,360 | 50.4 | 15,370 | 52.5 | 13,700* | | 150 | 50.3 | 14,940 | 52.7 | 14,950 | 54.7 | 13,950* | | | | | |
| | | | | | | | | | 160 | 46.7 | 13,430 | 49.1 | 13,440 | 51.0 | 13,460 | | | | | |



LOAD CHART

HC 165

**With 77SI Offset Tip Boom and 116,400 Pound Counterweight
#16HL Jib**

| 108,400 lb + 8,000 lb carbody counterweight | | | | | | | 360° | | | | | ANSI B 30.5 | | | |
|---|-------------------|---------------------------|-------------------------|----------------------------|-------------------------|----------------------------|-------------------------|-------------|-------------------|---------------------------|-------------------------|----------------------------|-------------------------|----------------------------|-------------------------|
| 60' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 28,710* Rating (Pounds) | 15.0 Deg offset Boom Angle | 24,100* Rating (Pounds) | 25.0 Deg offset Boom Angle | 18,150* Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 28,250* Rating (Pounds) | 15.0 Deg offset Boom Angle | 23,160* Rating (Pounds) | 25.0 Deg offset Boom Angle | 17,890* Rating (Pounds) |
| | 46 | 81.0 | 28,710* | - | - | - | - | | 51 | 80.9 | 28,250* | - | - | - | - |
| | 50 | 79.9 | 28,370* | - | - | - | - | | 60 | 78.9 | 27,540* | - | - | - | - |
| | 60 | 77.4 | 27,410* | 79.9 | 24,820* | - | - | | 70 | 76.6 | 26,750* | 78.8 | 24,200* | 80.9 | 22,160* |
| | 70 | 74.8 | 26,500* | 77.3 | 24,100* | 79.6 | 22,130* | | 80 | 74.4 | 26,060* | 76.5 | 23,690* | 78.6 | 21,350* |
| | 80 | 72.2 | 25,670* | 74.7 | 23,590* | 77.0 | 20,560* | | 90 | 72.0 | 25,320* | 74.2 | 23,160* | 76.2 | 20,030* |
| | 90 | 69.6 | 24,880* | 72.0 | 22,940* | 74.3 | 19,210* | | 100 | 69.7 | 24,740* | 71.9 | 22,720* | 73.9 | 18,950* |
| 170' | 100 | 66.9 | 24,210* | 69.3 | 22,410* | 71.6 | 18,150* | 200' | 110 | 67.3 | 22,390* | 69.5 | 22,220* | 71.4 | 17,890* |
| | 110 | 64.2 | 23,560* | 66.6 | 21,450* | 68.8 | 17,160* | | 120 | 64.9 | 19,490* | 67.0 | 19,500* | 69.0 | 17,080* |
| | 120 | 61.4 | 20,710* | 63.7 | 20,120* | 65.9 | 16,270* | | 130 | 62.5 | 17,070* | 64.6 | 17,080* | 66.4 | 16,300* |
| | 130 | 58.5 | 18,300* | 60.8 | 18,310* | 62.9 | 15,510* | | 140 | 59.9 | 15,030* | 62.0 | 15,040* | 63.9 | 15,050* |
| | 140 | 55.5 | 16,260* | 57.8 | 16,270* | 59.8 | 14,810* | | 150 | 57.3 | 13,280* | 59.4 | 13,290* | 61.2 | 13,310* |
| | 150 | 52.3 | 14,520* | 54.6 | 14,520* | 56.6 | 14,210* | | 160 | 54.6 | 11,760* | 56.7 | 11,770* | 58.5 | 11,790* |
| | 160 | 49.1 | 13,010* | 51.3 | 13,010* | 53.3 | 13,030* | | 170 | 51.9 | 10,450* | 53.9 | 10,460* | 55.6 | 10,480* |
| | 170 | 45.6 | 11,700* | 47.9 | 11,710* | 49.7 | 11,730* | | 180 | 49.0 | 9,290* | 51.0 | 9,300* | 52.6 | 9,320* |
| | | | | | | | | | 190 | 45.9 | 8,270* | 47.9 | 8,280* | 49.5 | 8,290* |
| | | | | | | | | | 200 | 42.7 | 7,370* | 44.7 | 7,380* | 46.2 | 7,400* |
| | 48 | 80.8 | 28,530* | - | - | - | - | | 53 | 80.8 | 28,110* | - | - | - | - |
| | 50 | 80.4 | 28,420* | - | - | - | - | | 60 | 79.3 | 27,580* | - | - | - | - |
| | 60 | 77.9 | 27,470* | 80.3 | 24,840* | - | - | | 70 | 77.1 | 26,900* | 79.2 | 24,200* | - | - |
| | 70 | 75.5 | 26,670* | 77.9 | 24,210* | 80.1 | 22,280* | | 80 | 74.9 | 26,160* | 77.0 | 23,670* | 79.0 | 21,580* |
| | 80 | 73.0 | 25,850* | 75.4 | 23,600* | 77.6 | 20,810* | | 90 | 72.7 | 25,440* | 74.8 | 23,200* | 76.8 | 20,280* |
| | 90 | 70.5 | 25,060* | 72.8 | 23,080* | 75.0 | 19,570* | | 100 | 70.5 | 24,770* | 72.6 | 22,740* | 74.5 | 19,130* |
| 180' | 100 | 67.9 | 24,410* | 70.3 | 22,540* | 72.4 | 18,400* | 210' | 110 | 68.2 | 21,970* | 70.3 | 21,970* | 72.2 | 18,220* |
| | 110 | 65.3 | 23,220* | 67.6 | 21,960* | 69.7 | 17,400* | | 120 | 65.9 | 19,070* | 68.0 | 19,080* | 69.8 | 17,270* |
| | 120 | 62.7 | 20,330* | 64.9 | 20,330* | 67.0 | 16,570* | | 130 | 63.6 | 16,640* | 65.6 | 16,650* | 67.4 | 16,520* |
| | 130 | 59.9 | 17,910* | 62.2 | 17,920* | 64.2 | 15,750* | | 140 | 61.2 | 14,600* | 63.2 | 14,610* | 65.0 | 14,620* |
| | 140 | 57.1 | 15,870* | 59.3 | 15,880* | 61.3 | 15,070* | | 150 | 58.7 | 12,850* | 60.7 | 12,850* | 62.4 | 12,870* |
| | 150 | 54.2 | 14,130* | 56.4 | 14,130* | 58.3 | 14,150* | | 160 | 56.1 | 11,340* | 58.1 | 11,350* | 59.9 | 11,360* |
| | 160 | 51.1 | 12,620* | 53.3 | 12,630* | 55.2 | 12,650* | | 170 | 53.5 | 10,010* | 55.5 | 10,020* | 57.2 | 10,040* |
| | 170 | 48.0 | 11,310* | 50.1 | 11,310* | 51.9 | 11,330* | | 180 | 50.8 | 8,850* | 52.8 | 8,860* | 54.4 | 8,880* |
| | 180 | 44.6 | 10,160* | 46.7 | 10,170* | 48.4 | 10,190* | | 190 | 48.0 | 7,830* | 49.9 | 7,840* | 51.5 | 7,860* |
| | | | | | | | | | 200 | 45.0 | 6,920* | 46.9 | 6,930* | 48.4 | 6,950* |
| | | | | | | | | | 210 | 41.9 | 6,110* | 43.7 | 6,120* | 45.2 | 6,140* |
| | 49 | 81.0 | 28,420* | - | - | - | - | | 54 | 80.9 | 27,970* | - | - | - | - |
| | 50 | 80.8 | 28,350* | - | - | - | - | | 60 | 79.7 | 27,630* | - | - | - | - |
| | 60 | 78.4 | 27,480* | 80.7 | 24,760* | - | - | | 70 | 77.6 | 26,930* | 79.6 | 24,190* | - | - |
| | 70 | 76.1 | 26,720* | 78.4 | 24,200* | 80.5 | 22,240* | | 80 | 75.5 | 26,250* | 77.5 | 23,760* | 79.4 | 21,710* |
| | 80 | 73.7 | 25,940* | 76.0 | 23,700* | 78.1 | 21,050* | | 90 | 73.4 | 25,540* | 75.4 | 23,270* | 77.3 | 20,450* |
| | 90 | 71.3 | 25,200* | 73.6 | 23,090* | 75.6 | 19,790* | | 100 | 71.2 | 24,900* | 73.2 | 22,810* | 75.1 | 19,380* |
| 190' | 100 | 68.9 | 24,580* | 71.1 | 22,630* | 73.2 | 18,670* | 220' | 110 | 69.0 | 21,550* | 71.0 | 21,550* | 72.9 | 18,380* |
| | 110 | 66.4 | 22,800* | 68.6 | 22,190* | 70.6 | 17,700* | | 120 | 66.8 | 18,650* | 68.8 | 18,650* | 70.6 | 17,510* |
| | 120 | 63.8 | 19,900* | 66.0 | 19,910* | 68.0 | 16,790* | | 130 | 64.6 | 16,220* | 66.5 | 16,230* | 68.3 | 16,240* |
| | 130 | 61.2 | 17,490* | 63.4 | 17,500* | 65.4 | 16,000* | | 140 | 62.3 | 14,170* | 64.2 | 14,180* | 66.0 | 14,200* |
| | 140 | 58.6 | 15,450* | 60.7 | 15,450* | 62.7 | 15,360* | | 150 | 59.9 | 12,420* | 61.9 | 12,430* | 63.6 | 12,440* |
| | 150 | 55.8 | 13,700* | 58.0 | 13,710* | 59.8 | 13,720* | | 160 | 57.5 | 10,910* | 59.4 | 10,920* | 61.1 | 10,930* |
| | 160 | 53.0 | 12,190* | 55.1 | 12,200* | 56.9 | 12,220* | | 170 | 55.0 | 9,580* | 56.9 | 9,590* | 58.6 | 9,610* |
| | 170 | 50.0 | 10,870* | 52.1 | 10,880* | 53.9 | 10,900* | | 180 | 52.5 | 8,420* | 54.4 | 8,430* | 56.0 | 8,440* |
| | 180 | 46.9 | 9,730* | 49.0 | 9,730* | 50.7 | 9,750* | | 190 | 49.8 | 7,400* | 51.7 | 7,410* | 53.2 | 7,420* |
| | 190 | 43.7 | 8,700* | 45.7 | 8,710* | 47.3 | 8,730* | | 200 | 47.1 | 6,480* | 48.9 | 6,490* | 50.4 | 6,510* |
| | | | | | | | | | 210 | 44.2 | 5,670* | 46.0 | 5,680* | 47.4 | 5,700* |
| | | | | | | | | | 220 | 41.1 | 4,930* | 42.9 | 4,940* | 44.2 | 4,960* |

LOAD CHART

HC 165

**With 77SI Offset Tip Boom and 116,400 Pound Counterweight
#16HL Jib**

| 108,400 lb + 8,000 lb carbody counterweight | | | | | | | 360° | | | | | ANSI B 30.5 | | | |
|---|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------|-------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|
| 70' Jib length | | | | | | | | | | | | | | | |
| Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) | Boom length | Jib Radius (Feet) | 5.0 Deg offset Boom Angle | 5.0 Deg offset Rating (Pounds) | 15.0 Deg offset Boom Angle | 15.0 Deg offset Rating (Pounds) | 25.0 Deg offset Boom Angle | 25.0 Deg offset Rating (Pounds) |
| | 52 | 80.9 | 21,300* | - | - | - | - | | | | | | | | |
| | 60 | 79.1 | 20,740* | - | - | - | - | | | | | | | | |
| | 70 | 76.8 | 19,950* | 79.4 | 17,910* | - | - | | | | | | | | |
| | 80 | 74.5 | 19,320* | 77.1 | 17,350* | 79.5 | 15,870* | | | | | | | | |
| | 90 | 72.2 | 18,740* | 74.8 | 16,890* | 77.2 | 15,440* | | | | | | | | |
| | 100 | 69.9 | 18,130* | 72.4 | 16,510* | 74.8 | 15,020* | | | | | | | | |
| 190' | 110 | 67.5 | 17,580* | 70.0 | 16,110* | 72.3 | 14,680* | | | | | | | | |
| | 120 | 65.1 | 17,080* | 67.6 | 15,600* | 69.9 | 14,360* | | | | | | | | |
| | 130 | 62.6 | 16,620* | 65.1 | 15,130* | 67.3 | 13,960* | | | | | | | | |
| | 140 | 60.1 | 15,580 | 62.6 | 14,730* | 64.8 | 13,320* | | | | | | | | |
| | 150 | 57.5 | 13,830 | 59.9 | 13,840 | 62.1 | 12,790* | | | | | | | | |
| | 160 | 54.8 | 12,320 | 57.2 | 12,330 | 59.3 | 12,310* | | | | | | | | |
| | 170 | 52.1 | 11,000 | 54.4 | 11,010 | 56.5 | 11,030 | | | | | | | | |
| | 180 | 49.2 | 9,850 | 51.5 | 9,860 | 53.5 | 9,880 | | | | | | | | |
| | 190 | 46.1 | 8,830 | 48.4 | 8,840 | 50.4 | 8,860 | | | | | | | | |
| | 53 | 81.0 | 21,240* | - | - | - | - | | | | | | | | |
| | 60 | 79.5 | 20,790* | - | - | - | - | | | | | | | | |
| | 70 | 77.3 | 20,110* | 79.8 | 17,920* | - | - | | | | | | | | |
| | 80 | 75.1 | 19,390* | 77.6 | 17,400* | 79.9 | 15,860* | | | | | | | | |
| | 90 | 72.9 | 18,830* | 75.4 | 16,940* | 77.7 | 15,520* | | | | | | | | |
| | 100 | 70.7 | 18,230* | 73.1 | 16,580* | 75.4 | 15,120* | | | | | | | | |
| 200' | 110 | 68.4 | 17,700* | 70.8 | 16,130* | 73.1 | 14,730* | | | | | | | | |
| | 120 | 66.1 | 17,210* | 68.5 | 15,720* | 70.7 | 14,420* | | | | | | | | |
| | 130 | 63.7 | 16,780* | 66.1 | 15,320* | 68.3 | 14,100* | | | | | | | | |
| | 140 | 61.3 | 15,170 | 63.7 | 14,870* | 65.8 | 13,550* | | | | | | | | |
| | 150 | 58.9 | 13,420 | 61.2 | 13,420 | 63.3 | 12,970* | | | | | | | | |
| | 160 | 56.3 | 11,900 | 58.7 | 11,910 | 60.7 | 11,920 | | | | | | | | |
| | 170 | 53.7 | 10,580 | 56.0 | 10,590 | 58.0 | 10,610 | | | | | | | | |
| | 180 | 51.0 | 9,420 | 53.3 | 9,430 | 55.2 | 9,450 | | | | | | | | |
| | 190 | 48.2 | 8,400 | 50.4 | 8,410 | 52.3 | 8,430 | | | | | | | | |
| | 200 | 45.2 | 7,490 | 47.4 | 7,500 | 49.2 | 7,520 | | | | | | | | |
| | 55 | 80.9 | 21,110* | - | - | - | - | | | | | | | | |
| | 60 | 79.9 | 20,840* | - | - | - | - | | | | | | | | |
| | 70 | 77.8 | 20,100* | 80.2 | 17,940* | - | - | | | | | | | | |
| | 80 | 75.7 | 19,530* | 78.0 | 17,440* | 80.3 | 15,840* | | | | | | | | |
| | 90 | 73.5 | 18,900* | 75.9 | 17,040* | 78.1 | 15,490* | | | | | | | | |
| | 100 | 71.4 | 18,420* | 73.7 | 16,630* | 75.9 | 15,130* | | | | | | | | |
| | 110 | 69.2 | 17,850* | 71.6 | 16,200* | 73.7 | 14,760* | | | | | | | | |
| | 120 | 67.0 | 17,380* | 69.3 | 15,860* | 71.5 | 14,470* | | | | | | | | |
| 210' | 130 | 64.8 | 16,780 | 67.1 | 15,400* | 69.2 | 14,160* | | | | | | | | |
| | 140 | 62.5 | 14,730 | 64.7 | 14,740 | 66.8 | 13,740* | | | | | | | | |
| | 150 | 60.1 | 12,980 | 62.4 | 12,990 | 64.4 | 13,010 | | | | | | | | |
| | 160 | 57.7 | 11,470 | 59.9 | 11,480 | 61.9 | 11,500 | | | | | | | | |
| | 170 | 55.2 | 10,140 | 57.4 | 10,150 | 59.4 | 10,170 | | | | | | | | |
| | 180 | 52.7 | 8,990 | 54.9 | 9,000 | 56.8 | 9,020 | | | | | | | | |
| | 190 | 50.0 | 7,960 | 52.2 | 7,970 | 54.0 | 7,990 | | | | | | | | |
| | 200 | 47.2 | 7,040 | 49.4 | 7,050 | 51.2 | 7,070 | | | | | | | | |
| | 210 | 44.3 | 6,230 | 46.5 | 6,240 | 48.2 | 6,260 | | | | | | | | |
| | 57 | 80.8 | 21,020* | - | - | - | - | | | | | | | | |
| | 60 | 80.2 | 20,800* | - | - | - | - | | | | | | | | |
| | 70 | 78.2 | 20,170* | 80.5 | 17,880* | - | - | | | | | | | | |
| | 80 | 76.2 | 19,590* | 78.5 | 17,420* | 80.6 | 15,770* | | | | | | | | |
| | 90 | 74.1 | 18,980* | 76.4 | 17,010* | 78.6 | 15,500* | | | | | | | | |
| | 100 | 72.1 | 18,500* | 74.3 | 16,610* | 76.4 | 15,210* | | | | | | | | |
| 190' | 110 | 70.0 | 17,920* | 72.2 | 16,260* | 74.3 | 14,820* | | | | | | | | |
| | 120 | 67.8 | 17,470* | 70.1 | 15,920* | 72.1 | 14,510* | | | | | | | | |
| | 130 | 65.7 | 16,360 | 67.9 | 15,550* | 69.9 | 14,200* | | | | | | | | |
| | 140 | 63.5 | 14,310 | 65.7 | 14,320 | 67.7 | 13,910* | | | | | | | | |
| 220' | 150 | 61.2 | 12,560 | 63.4 | 12,570 | 65.4 | 12,580 | | | | | | | | |
| | 160 | 58.9 | 11,040 | 61.1 | 11,050 | 63.1 | 11,070 | | | | | | | | |
| | 170 | 56.6 | 9,720 | 58.8 | 9,720 | 60.6 | 9,740 | | | | | | | | |
| | 180 | 54.2 | 8,550 | 56.3 | 8,560 | 58.2 | 8,580 | | | | | | | | |
| | 190 | 51.7 | 7,530 | 53.8 | 7,540 | 55.6 | 7,560 | | | | | | | | |
| | 200 | 49.1 | 6,610 | 51.2 | 6,620 | 52.9 | 6,640 | | | | | | | | |
| | 210 | 46.4 | 5,790 | 48.4 | 5,800 | 50.1 | 5,820 | | | | | | | | |
| | 220 | 43.5 | 5,060 | 45.5 | 5,070 | 47.2 | 5,090 | | | | | | | | |
| | 58 | 80.9 | 20,970* | - | - | - | - | | | | | | | | |
| | 60 | 80.5 | 20,850* | - | - | - | - | | | | | | | | |
| | 70 | 78.6 | 20,270* | 80.8 | 17,900* | - | - | | | | | | | | |
| | 80 | 76.6 | 19,650* | 78.9 | 17,460* | 81.0 | 15,780* | | | | | | | | |
| | 90 | 74.7 | 19,050* | 76.9 | 17,050* | 79.0 | 15,520* | | | | | | | | |
| | 100 | 72.7 | 18,540* | 74.9 | 16,660* | 76.9 | 15,230* | | | | | | | | |
| | 110 | 70.7 | 18,070* | 72.9 | 16,280* | 74.9 | 14,910* | | | | | | | | |
| | 120 | 68.6 | 17,570* | 70.8 | 15,970* | 72.8 | 14,560* | | | | | | | | |
| 230' | 130 | 66.5 | 15,970 | 68.7 | 15,620* | 70.7 | 14,240* | | | | | | | | |
| | 140 | 64.4 | 13,920 | 66.6 | 13,930 | 68.5 | 13,940 | | | | | | | | |
| | 150 | 62.3 | 12,160 | 64.4 | 12,170 | 66.3 | 12,190 | | | | | | | | |
| | 160 | 60.1 | 10,640 | 62.2 | 10,650 | 64.1 | 10,670 | | | | | | | | |
| | 170 | 57.9 | 9,320 | 59.9 | 9,330 | 61.8 | 9,350 | | | | | | | | |
| | 180 | 55.5 | 8,150 | 57.6 | 8,160 | 59.4 | 8,180 | | | | | | | | |
| | 190 | 53.2 | 7,120 | 55.2 | 7,130 | 57.0 | 7,150 | | | | | | | | |
| | 200 | 50.7 | 6,200 | 52.8 | 6,210 | 54.5 | 6,230 | | | | | | | | |
| | 210 | 48.2 | 5,390 | 50.2 | 5,400 | 51.9 | 5,420 | | | | | | | | |
| | 220 | 45.5 | 4,640 | 47.5 | 4,650 | 49.1 | 4,670 | | | | | | | | |
| | 230 | 42.7 | 3,980 | 44.7 | 3,990 | 46.2 | 4,020 | | | | | | | | |
| | 60 | 80.8 | 20,810* | - | - | - | - | | | | | | | | |
| | 70 | 79.0 | 20,240* | - | - | - | - | | | | | | | | |
| | 80 | 77.1 | 19,710* | 79.2 | 17,460* | - | - | | | | | | | | |
| | 90 | 75.2 | 19,110* | 77.3 | 17,080* | 79.3 | 15,430* | | | | | | | | |
| | 100 | 73.3 | 18,650* | 75.4 | 16,700* | 77.4 | 15,190* | | | | | | | | |
| | 110 | 71.3 | 18,110* | 73.4 | 16,300* | 75.4 | 14,920* | | | | | | | | |
| | 120 | 69.3 | 17,630* | 71.5 | 16,000* | 73.4 | 14,580* | | | | | | | | |
| | 130 | 67.3 | 15,530 | 69.4 | 15,540 | 71.4 | 14,310* | | | | | | | | |
| 240' | 140 | 65.3 | 13,490 | 67.4 | 13,490 | 69.3 | 13,510 | | | | | | | | |
| | 150 | 63.3 | 11,730 | 65.3 | 11,740 | 67.2 | 11,760 | | | | | | | | |
| | 160 | 61.2 | 10,220 | 63.2 | 10,220 | 65.0 | 10,240 | | | | | | | | |
| | 170 | 59.0 | 8,880 | 61.1 | 8,890 | 62.9 | 8,910 | | | | | | | | |
| | 180 | 56.8 | 7,710 | 58.8 | 7,720 | 60.6 | 7,740 | | | | | | | | |
| | 190 | 54.6 | 6,690 | 56.6 | 6,700 | 58.3 | 6,720 | | | | | | | | |
| | 200 | 52.2 | 5,760 | 54.2 | 5,770 | 55.9 | 5,790 | | | | | | | | |
| | 210 | 49.8 | 4,940 | 51.8 | 4,950 | 53.4 | 4,970 | | | | | | | | |
| | 220 | 47.3 | 4,210 | 49.3 | 4,220 | 50.9 | 4,240 | | | | | | | | |
| | 230 | 44.7 | 3,530 | 46.6 | 3,540 | 48.2 | 3,570 | | | | | | | | |
| | 240 | 42.0 | 2,930 | 43.9 | 2,950 | 45.3 | 2,970 | | | | | | | | |

Warning

This rating chart is invalid if the crane has been modified or altered by use of other than GENUINE AMERICAN PARTS as such modifications or alterations may affect its capacity or safe operation. See American Crane Corporation Service Bulliten #259.

Ratings in this chart are in POUNDS and do not exceed the percentage of tipping specified for this crane by ANSI B30.5. All ratings require that the crane be standing level on a firm uniformly supporting surface.

Do not lift loads in excess of those shown on this chart. Lifting loads in excess of those shown or operation not in accordance with good operating practice, including limitations shown on page 3499 of Operator's Manual, can cause tipping, structural damage or catastrophic failure.

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

„JIB RADIUS IN FEET“ is the horizontal distance at ground level from the crane centerline of rotation to a vertical line through the center of gravity of the suspended load.

When using the main boom fall with jib in place, the main fall ratings must be reduced by the jib effective weight shown on the jib rating chart plus twice the weight of all suspended blocks, slings, rope, etc., at the jib fall. See Appendix A.

When using the main boom fall with boom tip extension in place, the main fall ratings must be reduced by the weight of the boom tip extension plus twice the weight of all suspended blocks, slings, rope, etc., at the boom tip extension fall. See Appendix A.

Blocks, slings, buckets and other load carrying devices are considered part of the load. The weight of standard hoisting ropes for the rating at a given radius has been calculated as part of the boom point load and need not be considered in determining net allowable loads. See Appendix A.

Ratings shown on this chart make no allowance for such factors as out of plumb loads, wind, poor soil conditions, improper inflation of rubber tires and dynamic effects due to excessive operating speeds. The user (operator) must exercise judgement to make allowance for these conditions. See page 3499 of Operator's Manual for detailed information.

No account is taken of the wind force on the load. This effect, which can be substantial for loads with large surface areas, must be considered by the user. In any wind it is strongly recommended that taglines be used to control the load.

BOOM HOIST LINE is 14 parts of 7/8 inch diameter EIPS wire rope with a minimum breaking strength of 79,600 pound. PENDANT SUSPENSION LINE is 4 parts of 1.375 inch diameter EEIPS wire rope with a minimum breaking strength of 211,000 pound. JIB BACKSTAY LINE AND FRONTSTAY LINES are 2 parts of 0.875 inch diameter wire rope with a minimum breaking strength of 69,200 pound.

WHIP LINE – 1.125 inch diameter EIPS wire rope with a minimum breaking strength of 130,000 pound or ALTERNATE WHIP LINE (ROTATION RESISTANT) – 1.125 inch diameter BRIDON ENDURANCE DYFORM 34LR Grade 2160 wire rope with a minimum breaking strength of 167,200 pound.

ERECTION

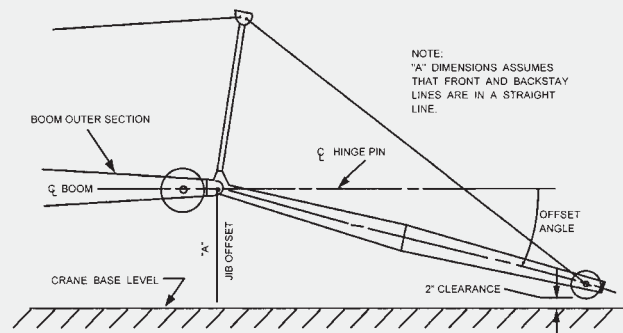
Erection „OVER THE END“ is with the boom over the idler end with idler tumblers blocked (See operator's manual for blocking instructions). Erection „OVER THE SIDE“ is with the boom 90° to the sideframes and with the side frames extended. Blocks, slings and other load carrying devices must be on the ground during erection.

| LOAD HOISTING INFORMATION - 1.125 inch diameter EIPS wire rope | | | |
|--|-----------------------|--------------------------------|-------------|
| MAXIMUM LIFTING CAPACITY - LBS. | MINIMUM PARTS OF LINE | MAXIMUM HOISTING DISTANCE - FT | |
| | | MAIN (FRONT) | AUX. (REAR) |
| 32,000 | 1 | 1,312 | 1,312 |

| LOAD HOISTING INFORMATION (ROTATION RESISTANT LOAD LINE) 1.125 inch diameter BRIDON ENDURANCE DYFORM 34LR Grade 2160 wire rope | | | |
|---|-----------------------|----------------------------------|-------------|
| MAXIMUM LIFTING CAPACITY - LBS. | MINIMUM PARTS OF LINE | MAXIMUM HOISTING DISTANCE - FEET | |
| | | MAIN (FRONT) | AUX. (REAR) |
| 32,000 | 1 | 1,312 | 1,312 |

| 77SI OFFSET TIP BOOM COMPOSITION CHART | | | | | | | |
|--|--------------------|----------------------|-----------------------|-----------------------|------------------------|------------------------|---------------------------|
| BOOM LENGTH (METERS) | BOOM LENGTH (FEET) | BOOM SECTIONS | | | | | |
| | | 9.1 M 30' 77SI INNER | 3.0 M 10' 77SI CENTER | 6.1 M 20' 77SI CENTER | 15.2 M 50' 77SI CENTER | 5.9 M 19.5' 77HL OUTER | 9.1 M 30' 77LA OFFSET TIP |
| 24.4 M | 80 | 1 | 0 | 0 | 0 | 1 | 1 |
| 27.4 M | 90 | 1 | 1 | 0 | 0 | 1 | 1 |
| 30.5 M | 100 | 1 | 0 | 1 | 0 | 1 | 1 |
| 33.5 M | 110 | 1 | 1 | 1 | 0 | 1 | 1 |
| 36.6 M | 120 | 1 | 0 | 2 | 0 | 1 | 1 |
| 39.6 M | 130 | 1 | 0 | 0 | 1 | 1 | 1 |
| 42.7 M | 140 | 1 | 1 | 0 | 1 | 1 | 1 |
| 45.7 M | 150 | 1 | 0 | 1 | 1 | 1 | 1 |
| 48.8 M | 160 | 1 | 1 | 1 | 1 | 1 | 1 |
| 51.8 M | 170 | 1 | 0 | 2 | 1 | 1 | 1 |
| 54.9 M | 180 | 1 | 0 | 0 | 2 | 1 | 1 |
| 57.9 M | 190 | 1 | 1 | 0 | 2 | 1 | 1 |
| 61.0 M | 200 | 1 | 0 | 1 | 2 | 1 | 1 |
| 64.0 M | 210 | 1 | 1 | 1 | 2 | 1 | 1 |
| 67.1 M | 220 | 1 | 0 | 2 | 2 | 1 | 1 |
| 70.1 M | 230 | 1 | 0 | 0 | 3 | 1 | 1 |
| 73.2 M | 240 | 1 | 1 | 0 | 3 | 1 | 1 |
| 76.2 M | 250 | 1 | 0 | 1 | 3 | 1 | 1 |
| 79.2 M | 260 | 1 | 1 | 1 | 3 | 1 | 1 |
| 82.3 M | 270 | 1 | 0 | 2 | 3 | 1 | 1 |

| 77SI OFFSET TIP BOOM MAXIMUM BOOM & JIB SELF-ERECTION DATA | | | | |
|--|------------------|--------------------------|--------------------|-------------------|
| | OVER THE END | | OVER THE SIDE | |
| | BOOM LENGTH (FT) | JIB LENGTH (FT) | BOOM LENGTH (FT) | JIB LENGTH (FT) |
| | #16HL JIB | 270 260 250 240 | 0 0 60 80 | 240 230 220 |



| #16HL JIB COMPOSITION CHART | | | | | | | | |
|-----------------------------|-----------|------------|------------|-----------|--------------------------|--------------------------|---------|---------|
| JIB LENGTH (FEET) | 20' INNER | 10' CENTER | 20' CENTER | 20' OUTER | EFF. JIB WEIGHT (POUNDS) | JIB OFFSET \"A\" IN FEET | | |
| | | | | | | 5° | 15° | 25° |
| 40 | 1 | 0 | 0 | 1 | 1,500 | 4'-10" | 10'- 2" | 15'- 1" |
| 50 | 1 | 1 | 0 | 1 | 2,050 | 5'- 8" | 12'- 1" | 18'- 3" |
| 60 | 1 | 0 | 1 | 1 | 2,600 | 6'- 8" | 13'-10" | 21'- 2" |
| 70 | 1 | 1 | 1 | 1 | 3,150 | 7'- 1" | 15'-10" | 24'- 4" |
| 80 | 1 | 0 | 2 | 1 | 3,700 | 7'- 9" | 17'- 8" | 27'- 4" |

Hydraulic Crawler Crane

Maximum lifting capacity: 165 tons.

Boom Systems

77SI Tubular Boom with Offset Tip

- 270 ft maximum boom length.
- 320 ft (240 ft + 80 ft) maximum boom and jib combination length.
- 77SI tubular chord boom, pin connected.
- 30 ft inner, 19'5" outer base and 30 ft outer and 10 / 20 / 50 ft available inserts provide boom compositions in 10 ft increments from 80 ft to 270 ft.

77SI Tubular Boom with Hammerhead

- 240 ft maximum boom length.
- 300 ft (220 ft + 80 ft) maximum boom and jib combination length.
- 77SI tubular chord boom, pin connected.
- 30 ft inner, 19'5" outer base and hammerhead and 10/20/50 ft available inserts provide boom compositions in 10 ft increments from 50 ft to 240 ft.

58ABSH Angle Boom

- Consult factory for details.

Robust engine

- Cummins QSC8.3 diesel engine supplies 310 HP (231 kW) @ 2000 rpm, 506 cu. in. displacement, 112 gallon fuel capacity.

Environmental operator's cab

- Designed to provide excellent viewing range and quiet, comfortable operation.
- 37 in. 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 features a shockless stop system. Operator can select from three display modes: loaded condition diagram, rated lifting curve, and rated lifting load table.
- Adjustable operator's seat, radio, air conditioner, overhead window, sun visor, fan, overhead and front wipers, and drum rotation indicators 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 circle and multiple pass hydraulic swivel joint.
- Crawlers have high alloy steel tumbler yokes and rigid fabricated structures with built-in sealed automatic lubrication system.
- 42" crawler shoes.
- Travel mechanism is set within shoe width.
- Side frames extended or retracted by cylinders inside the carbody.
- Two travel speed settings - 0.55 / 0.37 mph.
- 30 % (17°) gradeability.

Powerful, high-speed hoist system

- Two identical independent main and auxiliary load hoisting drums provide ample lifting power. Drums are grooved for 1-1/8 in. diameter rope. Max. line speed is 540 fpm, max. single line pull is 54,060 lb. Rated single line pull is 40,850 lb. Freefall on main and auxiliary drums.
- Each drum, including optional third, has power up/down. Load hoists are further controllable in stepless mode.
- Ample work space in front of drums allows easy access for cable installation and maintenance.
- External contracting brake.
- Internal expanding band clutch.

Smooth swing

- Separate swing circuit
- 2.0 rpm swing speed.

High capacity, dependable hydraulic system

- Open circuit system has 2 variable displacement piston pumps which supply power to the travel and hoisting functions, 3 gear pumps provide power for swing, hydraulic cylinders and pilot pressure.
- Hydraulic reservoir with 88.5 gallons capacity and 10 micron filtration. System capacity is 132 gallons.
- Component working range is between -4 and 203° F.

Seven piece removable counterweight

- 7 piece pin connected counterweight can be assembled or disassembled easily within minutes.
- Hydraulic counterweight removal system is standard and makes the HC165 one of the most transportable cranes in its class.
- Moves on 8 trucks with 240 ft 77SI offset tip boom and 80 ft of 16HL jib. At 11 ft 6-3/4 in. wide and 11 ft 5-3/4 in. high, the basic HC165 will transport on a standard lowboy trailer.

Options include:

- Third drum - machine mounted
- Third drum - boom inner mounted.
- Single sheave extension.
- 16HL tubular jib - 32,000 lb (77SI tubular boom only).
- #15 angle jib - 30,000 lb (58ABSH angle boom only).
- Optional 108,400 pound of upper and 8,000 pound of carbody counterweight.

HOIST DRUM PERFORMANCE

HC 165

| MAIN AND AUXILIARY HOIST – 1 1/8” DIAMETER ROPE | | | | | | | |
|---|----------------------------|------------------|----------------------------|------------------|-------|-------------------|--|
| Rope Layer | High Range | | | Low Range | | Total Rope Length | |
| | Line Speed Feet Per Minute | Single Line Pull | Line Speed Feet Per Minute | Single Line Pull | | | |
| 1st* | 358 | 27.030 | 179 | 54.060 | 153 | | |
| 2nd* | 389 | 24.910 | 194 | 49.850 | 313 | | |
| 3rd* | 419 | 23.015 | 210 | 46.230 | 493 | | |
| 4th* | 450 | 21.560 | 225 | 43.100 | 678 | | |
| 5th* | 480 | 20.195 | 240 | 40.390 | 883 | | |
| 6th* | 510 | 18.980 | 255 | 37.985 | 1.093 | | |
| 7th** | 540 | 17.925 | 269 | 35.845 | 1.325 | | |
| 8th** | 571 | 16.975 | 285 | 33.930 | 1.560 | | |
| 9th** | 601 | 16.115 | 301 | 32.230 | 1.817 | | |

| 3RD DRUM WITH FREE FALL | | | | 3RD DRUM WITHOUT FREE FALL | | | |
|-------------------------|----------------------------|------------------|-------------------|----------------------------|-----------------------------|------------------|-------------------|
| Rope Layer | Machine Mounted | | | Rope Layer | Boom Mounted – Braden CH210 | | |
| | Line Speed Feet Per Minute | Single Line Pull | Total Rope Length | | Line Speed Feet Per Minute | Single Line Pull | Total Rope Length |
| 1st* | 129 | 37.655 | 64 | 1st* | 193 | 19.100 | 116 |
| 2nd* | 140 | 34.725 | 129 | 2nd* | 210 | 17.530 | 242 |
| 3rd* | 150 | 32.210 | 204 | 3rd* | 227 | 16.200 | 379 |
| 4th* | 161 | 30.050 | 278 | 4th* | 244 | 15.050 | 526 |
| 5th* | 172 | 28.155 | 364 | 5th* | 262 | 14.060 | 683 |
| 6th* | 183 | 26.480 | 449 | 6th** | 279 | 13.190 | 851 |
| 7th* | 194 | 25.000 | 545 | | | | |
| 8th** | 205 | 23.680 | 640 | | | | |
| 9th** | 216 | 22.465 | 747 | | | | |

Remarks

- * Working Layers
- ** Storage Layers

TRANSPORT EXAMPLE FOR HC 165

HC 165

240' 77" SH Boom with Offset Tip 80' 16HL jib

Loads required as follows: (weights shown do **NOT** include blocking or tie-down material)

LOAD NO. 1

| | |
|--|------------------|
| Crawler side frame | 37,000 lb |
| 2 x 20' 16HL center sections @ 510 lb each | 1,020 lb |
| TOTAL LOAD | 38,020 lb |

LOAD NO. 2

| | |
|-----------------------------|------------------|
| Crawler side frame | 37,000 lb |
| Basic 40' of 16HL Jib | 3,060 lb |
| TOTAL LOAD | 40,060 lb |

LOAD NO. 3

| | |
|--|------------------|
| 2 x counterweights @ 9,200 lb each | 18,400 lb |
| 1 x 50' boom center section | 4,500 lb |
| TOTAL LOAD | 22,900 lb |

LOAD NO. 4

| | |
|---|------------------|
| 2 x counterweights @ 11,200 lb each | 22,400 lb |
| 1 x 50' boom center section | 4,500 lb |
| TOTAL LOAD | 26,900 lb |

LOAD NO. 5

| | |
|---|------------------|
| 2 x counterweights @ 11,200 lb each | 22,400 lb |
| 1 x 50' boom center section | 4,500 lb |
| TOTAL LOAD | 26,900 lb |

LOAD NO. 6

| | |
|---------------------------------|------------------|
| Base counterweight | 39,000 lb |
| 1 x 20' boom (outer base) | 2,900 lb |
| TOTAL LOAD | 41,900 lb |

LOAD NO. 7

| | |
|---|------------------|
| Miscellaneous, Block, Ball, Pendants, etc. | 12,000 lb |
| 1 x 30' offset tip | 5,300 lb |
| 1 x 10' boom center section | 1,000 lb |
| TOTAL LOAD | 18,300 lb |

LOAD NO. 8

Upperworks and Carbody:

- a) Transport system
- b) Boom inner section and boom stops
- c) Boom hoist rope
- d) Wire rope on main and auxiliary drums

| | |
|--|------------------|
| TOTAL WEIGHT OF UPPER, etc. | 94,000 lb |
|--|------------------|

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