



**TEREX®**

**HC 80**

**80tons capacity  
Crawler Crane**

**DATASHEET IMPERIAL**

# HC 80



**WORKS FOR YOU.™**

|                                          | Page: |
|------------------------------------------|-------|
| Key .....                                | 3     |
| Highlights .....                         | 3     |
| Dimensions .....                         | 4     |
| Range Diagram                            |       |
| 47HI Boom .....                          | 6     |
| Load Charts                              |       |
| With 47HI Offset Tip Boom .....          | 7     |
| Range Diagram                            |       |
| 46HI Boom .....                          | 11    |
| Load Charts                              |       |
| With 46HI Angle Boom, 4 Sheave Tip ..... | 12    |
| Range Diagram                            |       |
| 47HI Boom, #9HL Jib .....                | 16    |
| Load Charts                              |       |
| With 47HI Boom, #9HL Jib .....           | 17    |
| Range Diagram                            |       |
| 46 HI Boom, #9 Angle Jib .....           | 21    |
| Load Charts                              |       |
| With 46HI Boom, #9 Angle Jib .....       | 22    |
| Technical Description                    |       |
| Hydraulic Crawler Crane .....            | 28    |
| Transport Example                        |       |
| for HC 80 .....                          | 29    |

# HIGHLIGHTS

**HC 80**

- ▶ 80 tons maximum lifting capacity
- ▶ 200 ft maximum length of main boom
- ▶ 170 + 60 ft maximum boom and jib
- ▶ 240 ft maximum boom and luffing jib length
- ▶ Power up/down and freefall on main, auxiliary and optional third drum
- ▶ Quiet, spacious operator's cab
- ▶ Excellent visibility
- ▶ Two speed travel
- ▶ Superior transportability – 88,000 lb transport weight includes sideframes and boom inner



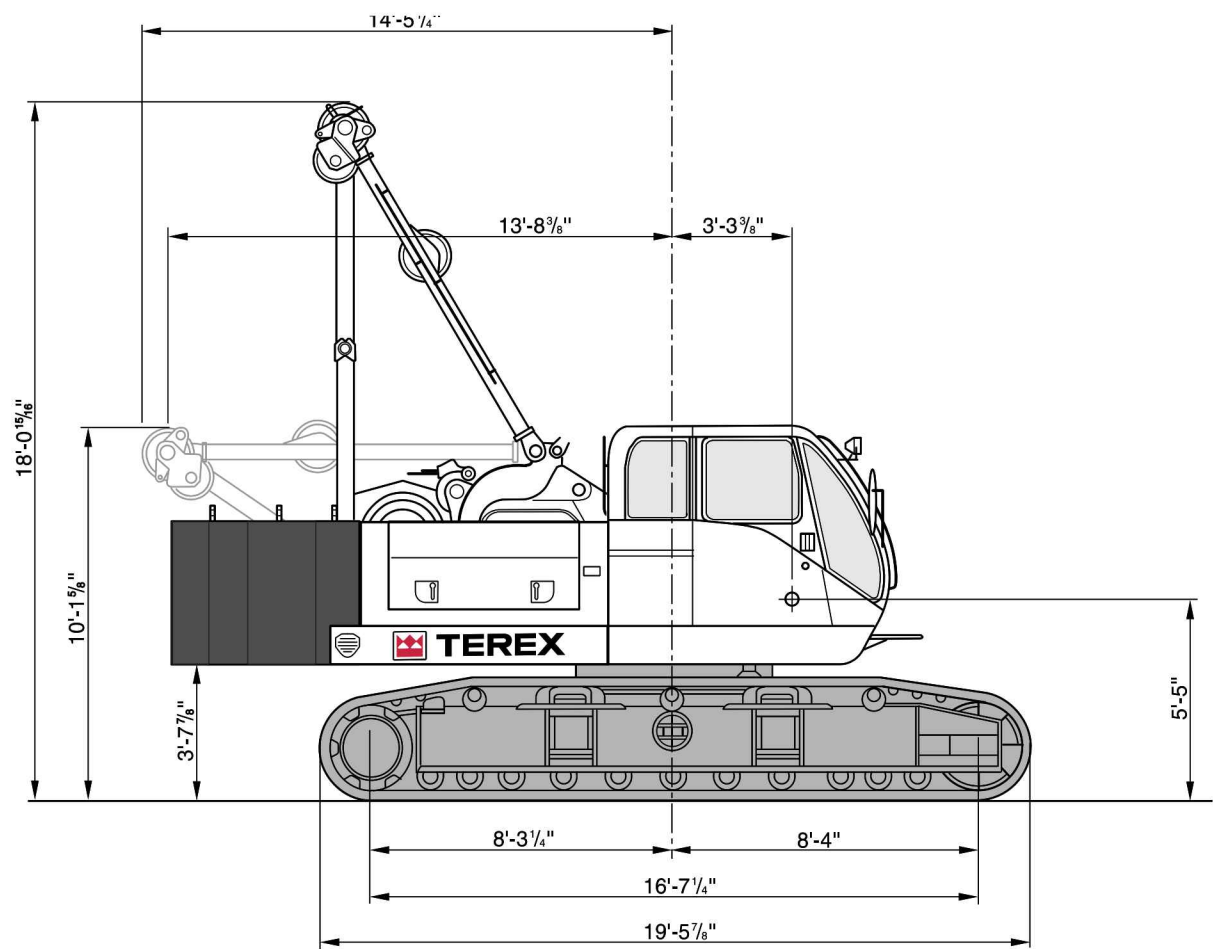
## KEY



Counterweight

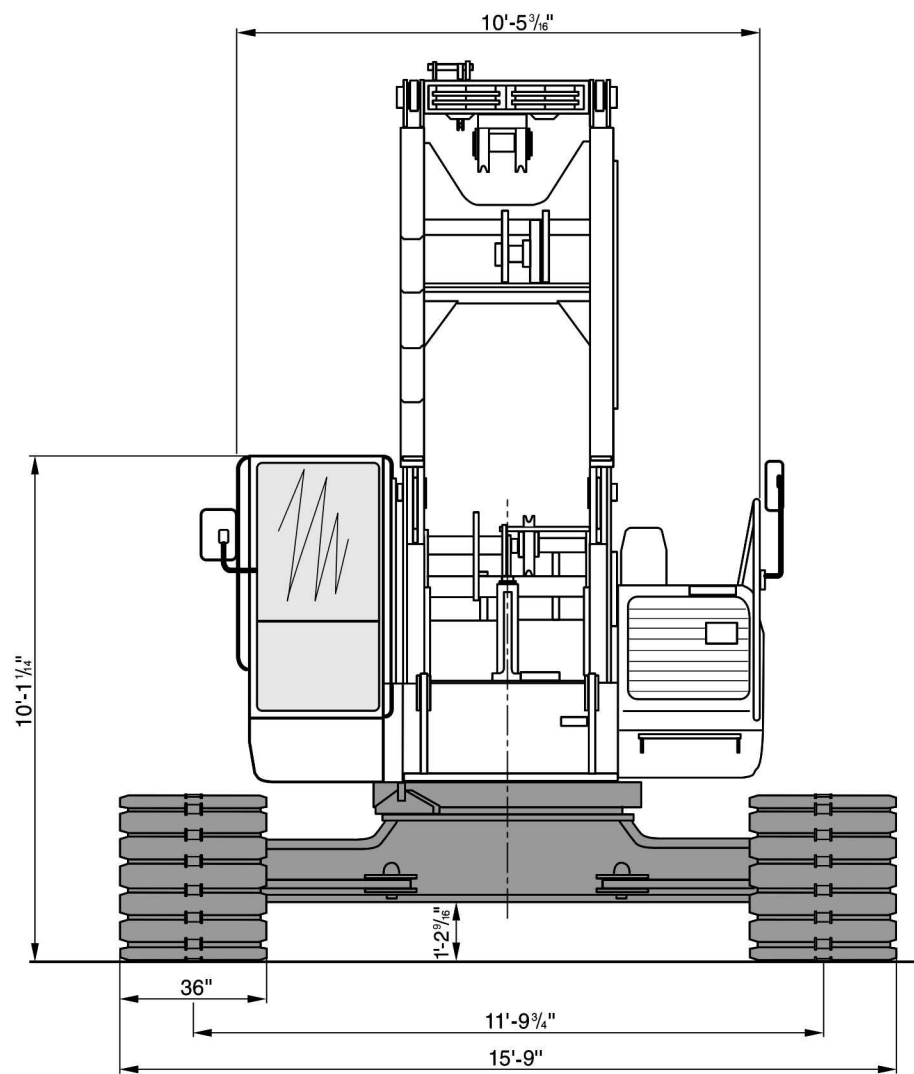
# DIMENSIONS

HC 80



# DIMENSIONS

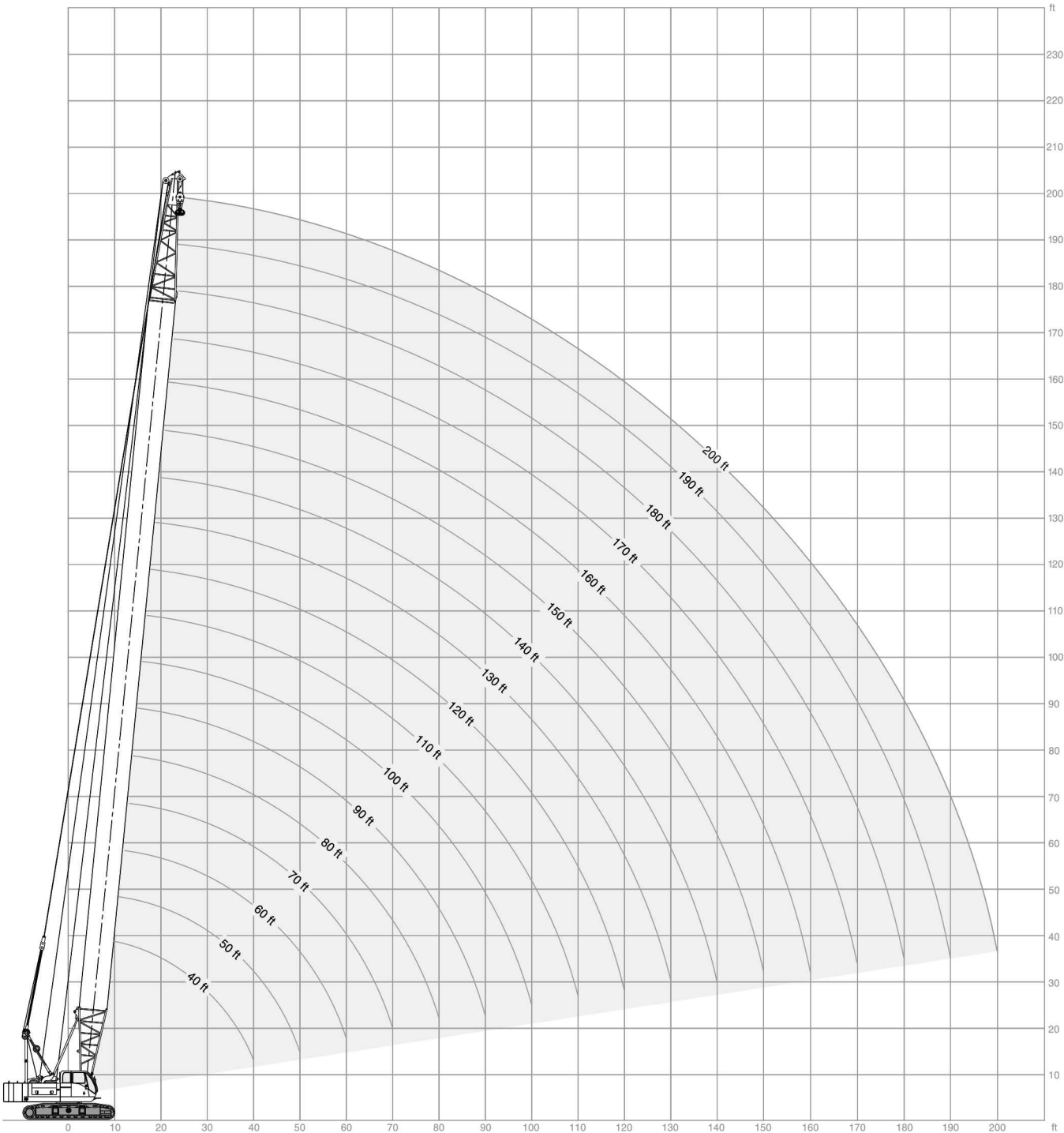
HC 80



# RANGE DIAGRAM

HC 80

47HI Boom



# LOAD CHART

**HC 80**

**With 47HI Offset Tip Boom**

| 58,100 lb       |                      |                               |                                | 360°             |                      |                               |                                | ANSI B 30.5      |                      |                               |                                |
|-----------------|----------------------|-------------------------------|--------------------------------|------------------|----------------------|-------------------------------|--------------------------------|------------------|----------------------|-------------------------------|--------------------------------|
| 40' Boom length |                      |                               |                                | 80' Boom length  |                      |                               |                                | 90' Boom length  |                      |                               |                                |
| Radius (Feet)   | Boom Angle (Degrees) | Side Frames Extended (Pounds) | From Boom Pt. to Ground (Feet) | Radius (Feet)    | Boom Angle (Degrees) | Side Frames Extended (Pounds) | From Boom Pt. to Ground (Feet) | Radius (Feet)    | Boom Angle (Degrees) | Side Frames Extended (Pounds) | From Boom Pt. to Ground (Feet) |
| 11              | 80.5                 | 160,000 *                     | 45                             | 17               | 80.9                 | 109,250 *                     | 84                             | 19               | 80.7                 | 94,540                        | 94                             |
| 12              | 79.0                 | 160,000 *                     | 45                             | 20               | 78.8                 | 87,470                        | 84                             | 20               | 80.0                 | 87,330                        | 94                             |
| 15              | 74.6                 | 141,480                       | 44                             | 25               | 75.1                 | 62,960                        | 83                             | 25               | 76.8                 | 62,810                        | 93                             |
| 20              | 67.0                 | 87,810                        | 42                             | 30               | 71.3                 | 48,880                        | 81                             | 30               | 73.5                 | 48,720                        | 92                             |
| 25              | 58.8                 | 63,360                        | 40                             | 35               | 67.5                 | 39,870                        | 79                             | 35               | 70.1                 | 39,720                        | 90                             |
| 30              | 49.9                 | 49,350                        | 36                             | 40               | 63.5                 | 33,480                        | 77                             | 40               | 66.7                 | 33,320                        | 88                             |
| 35              | 39.5                 | 40,320                        | 31                             | 50               | 55.1                 | 25,140                        | 71                             | 50               | 59.5                 | 24,970                        | 83                             |
| 40              | 25.8                 | 33,970                        | 23                             | 60               | 45.8                 | 20,000                        | 63                             | 60               | 51.7                 | 19,840                        | 76                             |
| 50' Boom length |                      |                               |                                | 70               | 34.5                 | 16,430                        | 51                             | 70               | 43.0                 | 16,260                        | 67                             |
| 13              | 80.1                 | 160,000 *                     | 55                             | 80               | 17.9                 | 13,830                        | 30                             | 80               | 32.5                 | 13,660                        | 54                             |
| 15              | 77.8                 | 141,440                       | 54                             | 100' Boom length |                      |                               |                                | 90               | 16.9                 | 11,690                        | 32                             |
| 20              | 71.8                 | 87,750                        | 53                             | 21               | 80.4                 | 80,910                        | 104                            | 110' Boom length |                      |                               |                                |
| 25              | 65.6                 | 63,280                        | 51                             | 25               | 78.1                 | 62,690                        | 103                            | 22               | 80.8                 | 72,040 *                      | 114                            |
| 30              | 59.1                 | 49,250                        | 48                             | 30               | 75.2                 | 48,580                        | 102                            | 25               | 79.2                 | 62,530                        | 113                            |
| 35              | 52.0                 | 40,220                        | 45                             | 35               | 72.2                 | 39,590                        | 101                            | 30               | 76.5                 | 48,420                        | 112                            |
| 40              | 44.2                 | 33,860                        | 40                             | 40               | 69.1                 | 33,190                        | 99                             | 35               | 73.8                 | 39,430                        | 111                            |
| 50              | 22.9                 | 25,540                        | 25                             | 50               | 62.8                 | 24,840                        | 94                             | 40               | 71.1                 | 33,020                        | 109                            |
| 60' Boom length |                      |                               |                                | 60               | 56.1                 | 19,720                        | 88                             | 50               | 65.5                 | 24,650                        | 105                            |
| 14              | 80.8                 | 145,370 *                     | 65                             | 70               | 48.9                 | 16,130                        | 81                             | 60               | 59.6                 | 19,560                        | 100                            |
| 15              | 79.8                 | 141,380                       | 64                             | 80               | 40.7                 | 13,540                        | 71                             | 70               | 53.3                 | 15,970                        | 94                             |
| 20              | 74.9                 | 87,660                        | 63                             | 90               | 30.7                 | 11,560                        | 56                             | 80               | 46.4                 | 13,360                        | 85                             |
| 25              | 69.9                 | 63,170                        | 62                             | 100              | 16.0                 | 10,010                        | 33                             | 90               | 38.7                 | 11,380                        | 74                             |
| 30              | 64.7                 | 49,120                        | 60                             |                  |                      |                               |                                | 100              | 29.2                 | 9,840                         | 59                             |
| 35              | 59.2                 | 40,100                        | 57                             |                  |                      |                               |                                | 110              | 15.2                 | 8,590                         | 34                             |
| 40              | 53.4                 | 33,730                        | 54                             |                  |                      |                               |                                |                  |                      |                               |                                |
| 50              | 40.2                 | 25,400                        | 44                             |                  |                      |                               |                                |                  |                      |                               |                                |
| 60              | 20.8                 | 20,230                        | 27                             |                  |                      |                               |                                |                  |                      |                               |                                |
| 70' Boom length |                      |                               |                                |                  |                      |                               |                                |                  |                      |                               |                                |
| 16              | 80.5                 | 125,040 *                     | 74                             |                  |                      |                               |                                |                  |                      |                               |                                |
| 20              | 77.1                 | 87,590                        | 74                             |                  |                      |                               |                                |                  |                      |                               |                                |
| 25              | 72.9                 | 63,090                        | 72                             |                  |                      |                               |                                |                  |                      |                               |                                |
| 30              | 68.5                 | 49,040                        | 71                             |                  |                      |                               |                                |                  |                      |                               |                                |
| 35              | 64.0                 | 40,020                        | 68                             |                  |                      |                               |                                |                  |                      |                               |                                |
| 40              | 59.3                 | 33,640                        | 66                             |                  |                      |                               |                                |                  |                      |                               |                                |
| 50              | 49.2                 | 25,310                        | 58                             |                  |                      |                               |                                |                  |                      |                               |                                |
| 60              | 37.0                 | 20,150                        | 48                             |                  |                      |                               |                                |                  |                      |                               |                                |
| 70              | 19.2                 | 16,580                        | 28                             |                  |                      |                               |                                |                  |                      |                               |                                |

# LOAD CHART

HC 80

With 47HI Offset Tip Boom

| 58,100 lb        |                      |                               |                                | 360° | ANSI B 30.5      |                      |                               |                                |
|------------------|----------------------|-------------------------------|--------------------------------|------|------------------|----------------------|-------------------------------|--------------------------------|
| 120' Boom length |                      |                               |                                |      | 150' Boom length |                      |                               |                                |
| Radius (Feet)    | Boom Angle (Degrees) | Side Frames Extended (Pounds) | From Boom Pt. to Ground (Feet) |      | Radius (Feet)    | Boom Angle (Degrees) | Side Frames Extended (Pounds) | From Boom Pt. to Ground (Feet) |
| 24               | 80.6                 | 60,160 *                      | 124                            |      | 28               | 80.9                 | 36,630 *                      | 154                            |
| 25               | 80.1                 | 60,160 *                      | 124                            |      | 30               | 80.2                 | 36,540 *                      | 153                            |
| 30               | 77.7                 | 48,260                        | 123                            |      | 35               | 78.2                 | 36,070 *                      | 152                            |
| 35               | 75.2                 | 39,260                        | 121                            |      | 40               | 76.3                 | 32,360                        | 151                            |
| 40               | 72.7                 | 32,850                        | 120                            |      | 50               | 72.3                 | 23,960                        | 148                            |
| 50               | 67.6                 | 24,470                        | 116                            |      | 60               | 68.2                 | 18,900                        | 145                            |
| 60               | 62.3                 | 19,390                        | 112                            |      | 70               | 64.0                 | 15,310                        | 140                            |
| 70               | 56.8                 | 15,800                        | 106                            |      | 80               | 59.7                 | 12,690                        | 135                            |
| 80               | 50.8                 | 13,190                        | 98                             |      | 90               | 55.1                 | 10,710                        | 128                            |
| 90               | 44.3                 | 11,210                        | 89                             |      | 100              | 50.3                 | 9,150                         | 121                            |
| 100              | 37.0                 | 9,660                         | 78                             |      | 110              | 45.1                 | 7,890                         | 112                            |
| 110              | 28.0                 | 8,410                         | 62                             |      | 120              | 39.4                 | 6,860                         | 101                            |
| 120              | 14.5                 | 7,390                         | 36                             |      | 130              | 32.9                 | 6,000                         | 87                             |
|                  |                      |                               |                                |      | 140              | 24.9                 | 5,270                         | 69                             |
|                  |                      |                               |                                |      | 150              | 12.9                 | 4,650                         | 39                             |
| 130' Boom length |                      |                               |                                |      | 160' Boom length |                      |                               |                                |
| 25               | 80.9                 | 50,970 *                      | 134                            |      | 30               | 80.8                 | 31,770 *                      | 163                            |
| 30               | 78.6                 | 48,100                        | 133                            |      | 35               | 79.0                 | 31,370 *                      | 162                            |
| 35               | 76.4                 | 39,120                        | 132                            |      | 40               | 77.1                 | 30,790 *                      | 161                            |
| 40               | 74.1                 | 32,700                        | 130                            |      | 50               | 73.4                 | 23,800                        | 159                            |
| 50               | 69.4                 | 24,320                        | 127                            |      | 60               | 69.7                 | 18,750                        | 155                            |
| 60               | 64.7                 | 19,240                        | 123                            |      | 70               | 65.8                 | 15,150                        | 151                            |
| 70               | 59.6                 | 15,650                        | 118                            |      | 80               | 61.8                 | 12,530                        | 146                            |
| 80               | 54.4                 | 13,040                        | 111                            |      | 90               | 57.6                 | 10,550                        | 141                            |
| 90               | 48.7                 | 11,060                        | 103                            |      | 100              | 53.2                 | 8,990                         | 134                            |
| 100              | 42.5                 | 9,510                         | 93                             |      | 110              | 48.6                 | 7,730                         | 125                            |
| 110              | 35.4                 | 8,250                         | 81                             |      | 120              | 43.6                 | 6,690                         | 116                            |
| 120              | 26.8                 | 7,230                         | 64                             |      | 130              | 38.1                 | 5,830                         | 104                            |
| 130              | 13.9                 | 6,380                         | 37                             |      | 140              | 31.8                 | 5,100                         | 90                             |
|                  |                      |                               |                                |      | 150              | 24.1                 | 4,480                         | 71                             |
|                  |                      |                               |                                |      | 160              | 12.5                 | 3,950                         | 40                             |
| 140' Boom length |                      |                               |                                |      | 170' Boom length |                      |                               |                                |
| 27               | 80.7                 | 42,380 *                      | 144                            |      | 31               | 81.0                 | 27,710 *                      | 173                            |
| 30               | 79.5                 | 42,370 *                      | 143                            |      | 35               | 79.6                 | 27,340 *                      | 173                            |
| 35               | 77.4                 | 38,950                        | 142                            |      | 40               | 77.9                 | 26,810 *                      | 172                            |
| 40               | 75.3                 | 32,530                        | 141                            |      | 50               | 74.4                 | 23,610                        | 169                            |
| 50               | 71.0                 | 24,140                        | 138                            |      | 60               | 70.9                 | 18,580                        | 166                            |
| 60               | 66.6                 | 19,070                        | 134                            |      | 70               | 67.3                 | 14,980                        | 162                            |
| 70               | 62.0                 | 15,480                        | 129                            |      | 80               | 63.6                 | 12,360                        | 158                            |
| 80               | 57.3                 | 12,860                        | 123                            |      | 90               | 59.7                 | 10,360                        | 152                            |
| 90               | 52.2                 | 10,880                        | 116                            |      | 100              | 55.7                 | 8,800                         | 146                            |
| 100              | 46.8                 | 9,330                         | 108                            |      | 110              | 51.5                 | 7,540                         | 139                            |
| 110              | 40.9                 | 8,070                         | 97                             |      | 120              | 47.1                 | 6,510                         | 130                            |
| 120              | 34.1                 | 7,040                         | 84                             |      | 130              | 42.2                 | 5,650                         | 120                            |
| 130              | 25.8                 | 6,180                         | 66                             |      | 140              | 36.9                 | 4,920                         | 108                            |
| 140              | 13.4                 | 5,470                         | 38                             |      | 150              | 30.8                 | 4,290                         | 93                             |
|                  |                      |                               |                                |      | 160              | 23.4                 | 3,750                         | 73                             |
|                  |                      |                               |                                |      | 170              | 12.1                 | 3,290                         | 41                             |

# LOAD CHART

**HC 80**

**With 47HI Offset Tip Boom**

| 58,100 lb        |                            |                                     |                                      | 360° | ANSI B 30.5      |                            |                                     |                                      |
|------------------|----------------------------|-------------------------------------|--------------------------------------|------|------------------|----------------------------|-------------------------------------|--------------------------------------|
| 180' Boom length |                            |                                     |                                      |      | 200' Boom length |                            |                                     |                                      |
| Radius<br>(Feet) | Boom<br>Angle<br>(Degrees) | Side Frames<br>Extended<br>(Pounds) | From Boom Pt.<br>to Ground<br>(Feet) |      | Radius<br>(Feet) | Boom<br>Angle<br>(Degrees) | Side Frames<br>Extended<br>(Pounds) | From Boom Pt.<br>to Ground<br>(Feet) |
| 33               | 80.9                       | 24,240 *                            | 183                                  |      | 36               | 80.9                       | 16,750 *                            | 203                                  |
| 35               | 80.2                       | 24,110 *                            | 183                                  |      | 40               | 79.7                       | 16,230 *                            | 202                                  |
| 40               | 78.6                       | 23,210 *                            | 182                                  |      | 50               | 76.8                       | 15,000 *                            | 200                                  |
| 50               | 75.3                       | 20,080 *                            | 180                                  |      | 60               | 73.8                       | 13,800 *                            | 198                                  |
| 60               | 72.0                       | 18,410                              | 177                                  |      | 70               | 70.8                       | 12,770 *                            | 194                                  |
| 70               | 68.6                       | 14,800                              | 173                                  |      | 80               | 67.8                       | 11,840                              | 191                                  |
| 80               | 65.1                       | 12,180                              | 169                                  |      | 90               | 64.6                       | 9,840                               | 186                                  |
| 90               | 61.6                       | 10,190                              | 164                                  |      | 100              | 61.4                       | 8,270                               | 181                                  |
| 100              | 57.9                       | 8,630                               | 158                                  |      | 110              | 58.1                       | 7,010                               | 175                                  |
| 110              | 54.0                       | 7,360                               | 151                                  |      | 120              | 54.6                       | 5,970                               | 169                                  |
| 120              | 50.0                       | 6,330                               | 143                                  |      | 130              | 51.0                       | 5,100                               | 161                                  |
| 130              | 45.7                       | 5,460                               | 134                                  |      | 140              | 47.2                       | 4,370                               | 152                                  |
| 140              | 41.0                       | 4,720                               | 123                                  |      | 150              | 43.2                       | 3,740                               | 142                                  |
| 150              | 35.8                       | 4,100                               | 111                                  |      | 160              | 38.8                       | 3,190                               | 131                                  |
| 160              | 29.9                       | 3,550                               | 95                                   |      | 170              | 33.9                       | 2,710                               | 117                                  |
| 170              | 22.7                       | 3,080                               | 75                                   |      | 180              | 28.4                       | 2,300                               | 100                                  |
| 180              | 11.8                       | 2,690                               | 42                                   |      | 190              | 21.5                       | 1,940                               | 79                                   |
|                  |                            |                                     |                                      |      | 200              | 11.2                       | 1,560 *                             | 44                                   |
| 190' Boom length |                            |                                     |                                      |      |                  |                            |                                     |                                      |
| 35               | 80.7                       | 19,320 *                            | 193                                  |      |                  |                            |                                     |                                      |
| 40               | 79.2                       | 18,660 *                            | 192                                  |      |                  |                            |                                     |                                      |
| 50               | 76.1                       | 17,360 *                            | 190                                  |      |                  |                            |                                     |                                      |
| 60               | 73.0                       | 16,110 *                            | 187                                  |      |                  |                            |                                     |                                      |
| 70               | 69.8                       | 14,640                              | 184                                  |      |                  |                            |                                     |                                      |
| 80               | 66.5                       | 12,010                              | 180                                  |      |                  |                            |                                     |                                      |
| 90               | 63.2                       | 10,020                              | 175                                  |      |                  |                            |                                     |                                      |
| 100              | 59.8                       | 8,460                               | 170                                  |      |                  |                            |                                     |                                      |
| 110              | 56.2                       | 7,200                               | 163                                  |      |                  |                            |                                     |                                      |
| 120              | 52.5                       | 6,160                               | 156                                  |      |                  |                            |                                     |                                      |
| 130              | 48.5                       | 5,290                               | 148                                  |      |                  |                            |                                     |                                      |
| 140              | 44.4                       | 4,550                               | 138                                  |      |                  |                            |                                     |                                      |
| 150              | 39.8                       | 3,930                               | 127                                  |      |                  |                            |                                     |                                      |
| 160              | 34.8                       | 3,390                               | 114                                  |      |                  |                            |                                     |                                      |
| 170              | 29.1                       | 2,910                               | 98                                   |      |                  |                            |                                     |                                      |
| 180              | 22.1                       | 2,500                               | 77                                   |      |                  |                            |                                     |                                      |
| 190              | 11.5                       | 2,150                               | 43                                   |      |                  |                            |                                     |                                      |

# NOTES TO LIFTING CAPACITY

**HC 80**

## Main Boom Chart Information

### 47HI Boom

| Boom size | 20' 47HI Inner | 10' 47H Center | 20' 47H Center | 30' 47H Center | 20' 47HI Outer |
|-----------|----------------|----------------|----------------|----------------|----------------|
| 40        | 1              | 0              | 0              | 0              | 1              |
| 50        | 1              | 1              | 0              | 0              | 1              |
| 60        | 1              | 0              | 1              | 0              | 1              |
| 70        | 1              | 0              | 0              | 1              | 1              |
| 80        | 1              | 1              | 0              | 1              | 1              |
| 90        | 1              | 0              | 1              | 1              | 1              |
| 100       | 1              | 0              | 0              | 2              | 1              |
| 110       | 1              | 1              | 0              | 2              | 1              |
| 120       | 1              | 0              | 1              | 2              | 1              |
| 130       | 1              | 0              | 0              | 3              | 1              |
| 140       | 1              | 1              | 0              | 3              | 1              |
| 150       | 1              | 0              | 1              | 3              | 1              |
| 160       | 1              | 0              | 0              | 4              | 1              |
| 170       | 1              | 1              | 0              | 4              | 1              |
| 180       | 1              | 0              | 1              | 4              | 1              |
| 190       | 1              | 0              | 0              | 5              | 1              |
| 200       | 1              | 1              | 0              | 5              | 1              |

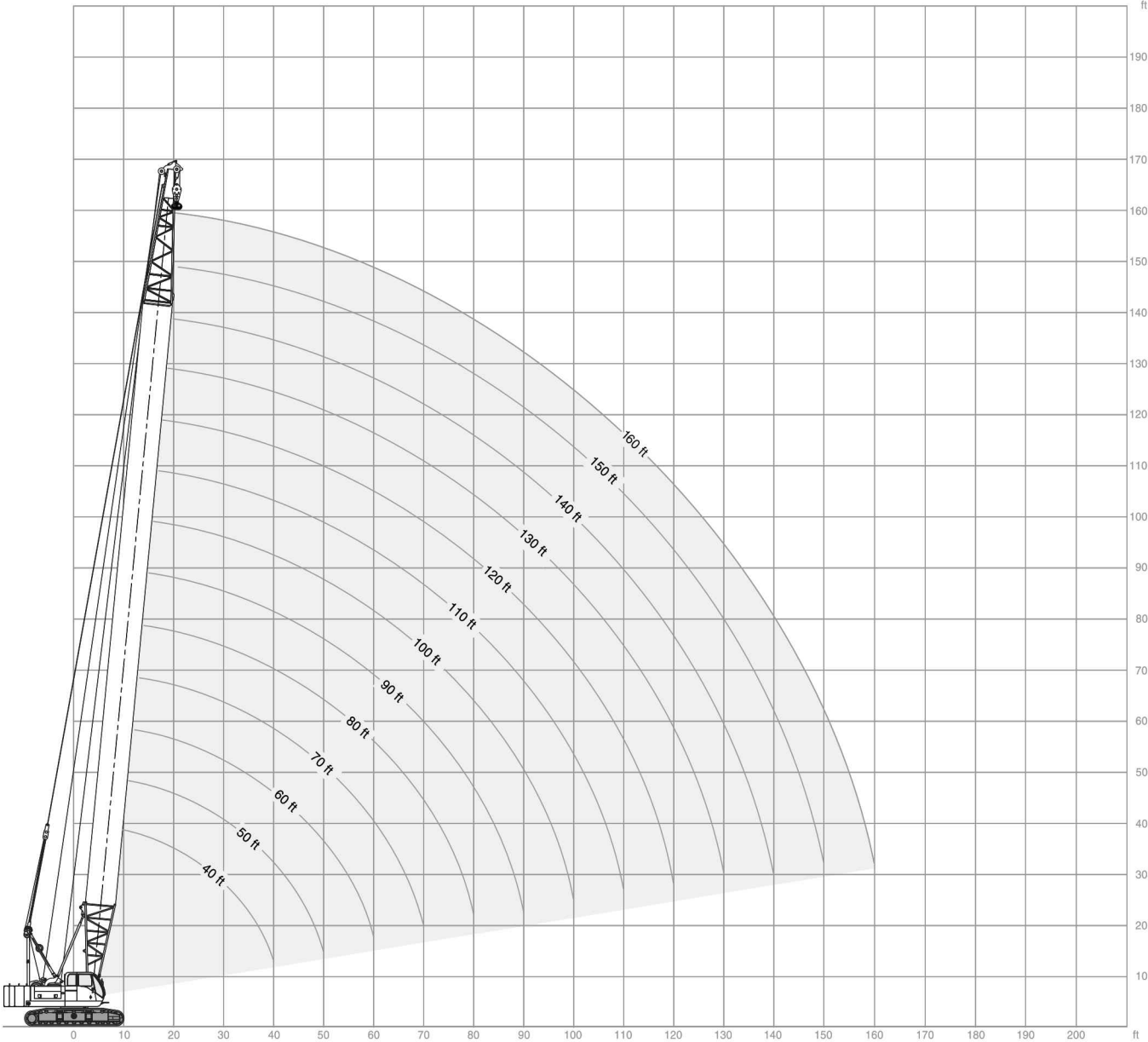
### For Main Boom Use Only

| Load Hoisting Information – 7/8 Inch Diameter EIPS Wire Rope |                       |                                  |                 |
|--------------------------------------------------------------|-----------------------|----------------------------------|-----------------|
| Maximum Lifting Capacity (lb)                                | Minimum Parts of Line | Maximum hoisting distance (feet) |                 |
|                                                              |                       | Main hoist                       | Auxiliary hoist |
| 160.000                                                      | 8                     | 73                               | 73              |
| 159.180                                                      | 7                     | 84                               | 84              |
| 136.440                                                      | 6                     | 98                               | 98              |
| 113.700                                                      | 5                     | 117                              | 117             |
| 90.960                                                       | 4                     | 147                              | 147             |
| 68.220                                                       | 3                     | 196                              | 196             |
| 45.480                                                       | 2                     | 294                              | 294             |
| 22.740                                                       | 1                     | 588                              | 588             |

# RANGE DIAGRAM

HC 80

46HI Boom



# LOAD CHART

**HC 80**

**With 46HI Angle Boom, 4 Sheave Tip**

| 58,100 lb       |                      |                            |                                | 360°             |                      |                               |                                | ANSI B 30.5     |                      |                               |                                |
|-----------------|----------------------|----------------------------|--------------------------------|------------------|----------------------|-------------------------------|--------------------------------|-----------------|----------------------|-------------------------------|--------------------------------|
| 40' Boom length |                      |                            |                                | 80' Boom length  |                      |                               |                                | 90' Boom length |                      |                               |                                |
| Radius (Feet)   | Boom Angle (Degrees) | 360 Degree Rating (Pounds) | From Boom Pt. to Ground (Feet) | Radius (Feet)    | Boom Angle (Degrees) | Side Frames Extended (Pounds) | From Boom Pt. to Ground (Feet) | Radius (Feet)   | Boom Angle (Degrees) | Side Frames Extended (Pounds) | From Boom Pt. to Ground (Feet) |
| 10              | 80.9                 | 160,000 *                  | 45                             | 17               | 80.4                 | 94,370 *                      | 84                             | 18              | 80.8                 | 84,440 *                      | 94                             |
| 12              | 77.9                 | 160,000 *                  | 45                             | 20               | 78.2                 | 87,000                        | 84                             | 20              | 79.5                 | 82,260 *                      | 94                             |
| 15              | 73.5                 | 141,160                    | 44                             | 25               | 74.5                 | 62,490                        | 83                             | 25              | 76.3                 | 62,300                        | 93                             |
| 20              | 65.9                 | 87,490                     | 42                             | 30               | 70.8                 | 48,410                        | 81                             | 30              | 73.0                 | 48,210                        | 91                             |
| 25              | 57.7                 | 63,040                     | 39                             | 35               | 66.9                 | 39,400                        | 79                             | 35              | 69.6                 | 39,200                        | 90                             |
| 30              | 48.8                 | 49,030                     | 36                             | 40               | 63.0                 | 33,020                        | 77                             | 40              | 66.2                 | 32,810                        | 88                             |
| 35              | 38.4                 | 40,000                     | 30                             | 45               | 58.9                 | 28,300                        | 74                             | 45              | 62.7                 | 28,090                        | 85                             |
| 40              | 24.7                 | 33,650                     | 22                             | 50               | 54.6                 | 24,670                        | 71                             | 50              | 59.0                 | 24,460                        | 83                             |
| 50' Boom length |                      |                            |                                | 55               | 50.1                 | 21,870                        | 67                             | 55              | 55.2                 | 21,680                        | 79                             |
| 12              | 80.4                 | 138,490 *                  | 55                             | 60               | 45.2                 | 19,540                        | 62                             | 60              | 51.2                 | 19,330                        | 76                             |
| 15              | 76.9                 | 128,430 *                  | 54                             | 65               | 39.9                 | 17,600                        | 57                             | 65              | 47.0                 | 17,390                        | 71                             |
| 20              | 70.9                 | 87,390                     | 53                             | 70               | 34.0                 | 15,970                        | 50                             | 70              | 42.5                 | 15,760                        | 66                             |
| 25              | 64.7                 | 62,910                     | 51                             | 75               | 26.9                 | 14,570                        | 42                             | 75              | 37.5                 | 14,360                        | 60                             |
| 30              | 58.2                 | 48,880                     | 48                             | 80               | 17.4                 | 13,370                        | 29                             | 80              | 32.0                 | 13,160                        | 53                             |
| 35              | 51.2                 | 39,850                     | 44                             | 100' Boom length |                      |                               |                                | 85              | 25.3                 | 12,110                        | 44                             |
| 40              | 43.4                 | 33,490                     | 40                             | 20               | 80.6                 | 75,930 *                      | 104                            | 90              | 30.3                 | 10,990                        | 56                             |
| 45              | 34.2                 | 28,790                     | 34                             | 25               | 77.7                 | 62,120                        | 103                            | 95              | 24.0                 | 10,170                        | 46                             |
| 50              | 22.0                 | 25,180                     | 24                             | 30               | 74.7                 | 48,010                        | 102                            | 100             | 15.5                 | 9,450                         | 32                             |
| 60' Boom length |                      |                            |                                | 35               | 71.7                 | 39,020                        | 100                            |                 |                      |                               |                                |
| 14              | 80.1                 | 119,630 *                  | 65                             | 40               | 68.7                 | 32,620                        | 99                             |                 |                      |                               |                                |
| 15              | 79.1                 | 117,070 *                  | 64                             | 45               | 65.6                 | 27,890                        | 96                             |                 |                      |                               |                                |
| 20              | 74.2                 | 87,280                     | 63                             | 50               | 62.4                 | 24,260                        | 94                             |                 |                      |                               |                                |
| 25              | 69.2                 | 62,790                     | 61                             | 55               | 59.1                 | 21,490                        | 91                             |                 |                      |                               |                                |
| 30              | 64.0                 | 48,740                     | 59                             | 60               | 55.7                 | 19,140                        | 88                             |                 |                      |                               |                                |
| 35              | 58.5                 | 39,710                     | 57                             | 65               | 52.2                 | 17,200                        | 84                             |                 |                      |                               |                                |
| 40              | 52.7                 | 33,340                     | 53                             | 70               | 48.4                 | 15,570                        | 80                             |                 |                      |                               |                                |
| 45              | 46.4                 | 28,630                     | 49                             | 75               | 44.5                 | 14,170                        | 75                             |                 |                      |                               |                                |
| 50              | 39.4                 | 25,020                     | 44                             | 80               | 40.2                 | 12,960                        | 70                             |                 |                      |                               |                                |
| 55              | 31.1                 | 22,200                     | 36                             | 85               | 35.6                 | 11,910                        | 64                             |                 |                      |                               |                                |
| 60              | 20.1                 | 19,860                     | 26                             | 90               | 30.3                 | 10,990                        | 56                             |                 |                      |                               |                                |
| 70' Boom length |                      |                            |                                | 95               | 24.0                 | 10,170                        | 46                             |                 |                      |                               |                                |
| 15              | 80.7                 | 106,350 *                  | 74                             | 100              | 15.5                 | 9,450                         | 32                             |                 |                      |                               |                                |
| 20              | 76.5                 | 87,110                     | 73                             |                  |                      |                               |                                |                 |                      |                               |                                |
| 25              | 72.2                 | 62,610                     | 72                             |                  |                      |                               |                                |                 |                      |                               |                                |
| 30              | 67.9                 | 48,550                     | 70                             |                  |                      |                               |                                |                 |                      |                               |                                |
| 35              | 63.4                 | 39,530                     | 68                             |                  |                      |                               |                                |                 |                      |                               |                                |
| 40              | 58.7                 | 33,150                     | 65                             |                  |                      |                               |                                |                 |                      |                               |                                |
| 45              | 53.8                 | 28,440                     | 62                             |                  |                      |                               |                                |                 |                      |                               |                                |
| 50              | 48.5                 | 24,820                     | 58                             |                  |                      |                               |                                |                 |                      |                               |                                |
| 55              | 42.8                 | 22,000                     | 53                             |                  |                      |                               |                                |                 |                      |                               |                                |
| 60              | 36.4                 | 19,660                     | 47                             |                  |                      |                               |                                |                 |                      |                               |                                |
| 65              | 28.8                 | 17,720                     | 39                             |                  |                      |                               |                                |                 |                      |                               |                                |
| 70              | 18.6                 | 16,100                     | 28                             |                  |                      |                               |                                |                 |                      |                               |                                |

# LOAD CHART

**HC 80**

**With 46HI Angle Boom, 4 Sheave Tip**

| 58,100 lb        |                      |                               |                                | 360° | ANSI B 30.5      |                      |                               |                                |
|------------------|----------------------|-------------------------------|--------------------------------|------|------------------|----------------------|-------------------------------|--------------------------------|
| 110' Boom length |                      |                               |                                |      | 130' Boom length |                      |                               |                                |
| Radius (Feet)    | Boom Angle (Degrees) | Side Frames Extended (Pounds) | From Boom Pt. to Ground (Feet) |      | Radius (Feet)    | Boom Angle (Degrees) | Side Frames Extended (Pounds) | From Boom Pt. to Ground (Feet) |
| 21               | 80.9                 | 68,930 *                      | 114                            |      | 24               | 81.0                 | 55,570 *                      | 134                            |
| 25               | 78.8                 | 61,920                        | 113                            |      | 25               | 80.6                 | 55,210 *                      | 134                            |
| 30               | 76.1                 | 47,800                        | 112                            |      | 30               | 78.3                 | 47,410                        | 133                            |
| 35               | 73.4                 | 38,810                        | 111                            |      | 35               | 76.0                 | 38,430                        | 132                            |
| 40               | 70.7                 | 32,400                        | 109                            |      | 40               | 73.8                 | 32,020                        | 130                            |
| 45               | 67.9                 | 27,680                        | 107                            |      | 45               | 71.4                 | 27,280                        | 129                            |
| 50               | 65.1                 | 24,030                        | 105                            |      | 50               | 69.1                 | 23,630                        | 127                            |
| 55               | 62.2                 | 21,280                        | 103                            |      | 55               | 66.7                 | 20,900                        | 125                            |
| 60               | 59.2                 | 18,940                        | 100                            |      | 60               | 64.3                 | 18,560                        | 123                            |
| 65               | 56.1                 | 16,990                        | 97                             |      | 65               | 61.8                 | 16,610                        | 120                            |
| 70               | 52.9                 | 15,350                        | 93                             |      | 70               | 59.3                 | 14,960                        | 117                            |
| 75               | 49.6                 | 13,950                        | 89                             |      | 75               | 56.7                 | 13,570                        | 114                            |
| 80               | 46.0                 | 12,750                        | 85                             |      | 80               | 54.0                 | 12,350                        | 111                            |
| 85               | 42.3                 | 11,700                        | 79                             |      | 85               | 51.3                 | 11,300                        | 107                            |
| 90               | 38.3                 | 10,760                        | 74                             |      | 90               | 48.4                 | 10,370                        | 103                            |
| 95               | 33.8                 | 9,950                         | 67                             |      | 95               | 45.3                 | 9,550                         | 98                             |
| 100              | 28.8                 | 9,220                         | 58                             |      | 100              | 42.2                 | 8,820                         | 93                             |
| 105              | 22.9                 | 8,570                         | 48                             |      | 105              | 38.8                 | 8,160                         | 87                             |
| 110              | 14.8                 | 7,980                         | 33                             |      | 110              | 35.1                 | 7,570                         | 80                             |
|                  |                      |                               |                                |      | 115              | 31.1                 | 7,030                         | 72                             |
|                  |                      |                               |                                |      | 120              | 26.5                 | 6,540                         | 63                             |
|                  |                      |                               |                                |      | 125              | 21.0                 | 6,100                         | 52                             |
|                  |                      |                               |                                |      | 130              | 13.6                 | 5,700                         | 36                             |
| 120' Boom length |                      |                               |                                |      | 140' Boom length |                      |                               |                                |
| 23               | 80.7                 | 61,380 *                      | 124                            |      | 26               | 80.8                 | 49,960 *                      | 144                            |
| 25               | 79.7                 | 60,000 *                      | 123                            |      | 30               | 79.2                 | 47,210                        | 143                            |
| 30               | 77.3                 | 47,630                        | 122                            |      | 35               | 77.1                 | 38,230                        | 142                            |
| 35               | 74.8                 | 38,640                        | 121                            |      | 40               | 74.9                 | 31,810                        | 141                            |
| 40               | 72.4                 | 32,230                        | 120                            |      | 45               | 72.8                 | 27,070                        | 139                            |
| 45               | 69.8                 | 27,500                        | 118                            |      | 50               | 70.7                 | 23,420                        | 138                            |
| 50               | 67.3                 | 23,850                        | 116                            |      | 55               | 68.5                 | 20,710                        | 136                            |
| 55               | 64.7                 | 21,120                        | 114                            |      | 60               | 66.3                 | 18,350                        | 134                            |
| 60               | 62.0                 | 18,760                        | 111                            |      | 65               | 64.0                 | 16,400                        | 131                            |
| 65               | 59.2                 | 16,820                        | 109                            |      | 70               | 61.7                 | 14,760                        | 129                            |
| 70               | 56.4                 | 15,180                        | 105                            |      | 75               | 59.4                 | 13,360                        | 126                            |
| 75               | 53.5                 | 13,780                        | 102                            |      | 80               | 57.0                 | 12,140                        | 123                            |
| 80               | 50.5                 | 12,570                        | 98                             |      | 85               | 54.5                 | 11,090                        | 119                            |
| 85               | 47.3                 | 11,520                        | 94                             |      | 90               | 51.9                 | 10,170                        | 116                            |
| 90               | 44.0                 | 10,590                        | 89                             |      | 95               | 49.3                 | 9,340                         | 111                            |
| 95               | 40.4                 | 9,770                         | 83                             |      | 100              | 46.5                 | 8,610                         | 107                            |
| 100              | 36.6                 | 9,040                         | 77                             |      | 105              | 43.6                 | 7,940                         | 102                            |
| 105              | 32.4                 | 8,380                         | 70                             |      | 110              | 40.6                 | 7,350                         | 96                             |
| 110              | 27.6                 | 7,790                         | 61                             |      | 115              | 37.3                 | 6,820                         | 90                             |
| 115              | 21.9                 | 7,260                         | 50                             |      | 120              | 33.8                 | 6,330                         | 83                             |
| 120              | 14.2                 | 6,780                         | 35                             |      | 125              | 29.9                 | 5,880                         | 75                             |
|                  |                      |                               |                                |      | 130              | 25.5                 | 5,480                         | 66                             |
|                  |                      |                               |                                |      | 135              | 20.2                 | 5,100                         | 54                             |
|                  |                      |                               |                                |      | 140              | 13.1                 | 4,760                         | 37                             |

# LOAD CHART

**HC 80**

**With 46HI Angle Boom, 4 Sheave Tip**

| 58,100 lb        |                      |                               |                                | 360° | ANSI B 30.5      |                      |                               |                                |
|------------------|----------------------|-------------------------------|--------------------------------|------|------------------|----------------------|-------------------------------|--------------------------------|
| 150' Boom length |                      |                               |                                |      | 160' Boom length |                      |                               |                                |
| Radius (Feet)    | Boom Angle (Degrees) | Side Frames Extended (Pounds) | From Boom Pt. to Ground (Feet) |      | Radius (Feet)    | Boom Angle (Degrees) | Side Frames Extended (Pounds) | From Boom Pt. to Ground (Feet) |
| 28               | 80.7                 | 43,920 *                      | 153                            |      | 29               | 80.9                 | 39,530 *                      | 163                            |
| 30               | 79.9                 | 43,170 *                      | 153                            |      | 30               | 80.5                 | 39,370 *                      | 163                            |
| 35               | 77.9                 | 38,020                        | 152                            |      | 35               | 78.7                 | 37,830                        | 162                            |
| 40               | 76.0                 | 31,590                        | 151                            |      | 40               | 76.9                 | 31,410                        | 161                            |
| 45               | 74.0                 | 26,850                        | 150                            |      | 45               | 75.0                 | 26,650                        | 160                            |
| 50               | 72.0                 | 23,190                        | 148                            |      | 50               | 73.2                 | 22,990                        | 159                            |
| 55               | 70.0                 | 20,490                        | 146                            |      | 55               | 71.3                 | 20,310                        | 157                            |
| 60               | 67.9                 | 18,130                        | 144                            |      | 60               | 69.4                 | 17,950                        | 155                            |
| 65               | 65.9                 | 16,190                        | 142                            |      | 65               | 67.4                 | 16,000                        | 153                            |
| 70               | 63.8                 | 14,540                        | 140                            |      | 70               | 65.5                 | 14,350                        | 151                            |
| 75               | 61.6                 | 13,130                        | 137                            |      | 75               | 63.5                 | 12,950                        | 149                            |
| 80               | 59.4                 | 11,930                        | 135                            |      | 80               | 61.5                 | 11,730                        | 146                            |
| 85               | 57.2                 | 10,870                        | 131                            |      | 85               | 59.4                 | 10,680                        | 143                            |
| 90               | 54.8                 | 9,940                         | 128                            |      | 90               | 57.3                 | 9,750                         | 140                            |
| 95               | 52.5                 | 9,110                         | 124                            |      | 95               | 55.2                 | 8,920                         | 137                            |
| 100              | 50.0                 | 8,380                         | 120                            |      | 100              | 53.0                 | 8,190                         | 133                            |
| 105              | 47.5                 | 7,720                         | 116                            |      | 105              | 50.7                 | 7,530                         | 129                            |
| 110              | 44.8                 | 7,130                         | 111                            |      | 110              | 48.3                 | 6,930                         | 125                            |
| 115              | 42.1                 | 6,590                         | 106                            |      | 115              | 45.9                 | 6,390                         | 120                            |
| 120              | 39.1                 | 6,100                         | 100                            |      | 120              | 43.3                 | 5,900                         | 115                            |
| 125              | 36.0                 | 5,650                         | 94                             |      | 125              | 40.7                 | 5,450                         | 110                            |
| 130              | 32.6                 | 5,240                         | 86                             |      | 130              | 37.8                 | 5,040                         | 104                            |
| 135              | 28.9                 | 4,860                         | 78                             |      | 135              | 34.8                 | 4,660                         | 97                             |
| 140              | 24.6                 | 4,510                         | 68                             |      | 140              | 31.5                 | 4,310                         | 89                             |
| 145              | 19.5                 | 4,190                         | 56                             |      | 145              | 27.9                 | 3,990                         | 80                             |
| 150              | 12.7                 | 3,900                         | 38                             |      | 150              | 23.8                 | 3,690                         | 70                             |
|                  |                      |                               |                                |      | 155              | 18.9                 | 3,420                         | 57                             |
|                  |                      |                               |                                |      | 160              | 12.3                 | 3,160                         | 39                             |

# NOTES TO LIFTING CAPACITY

**HC 80**

## Main Boom Chart Information

### 46HI Boom

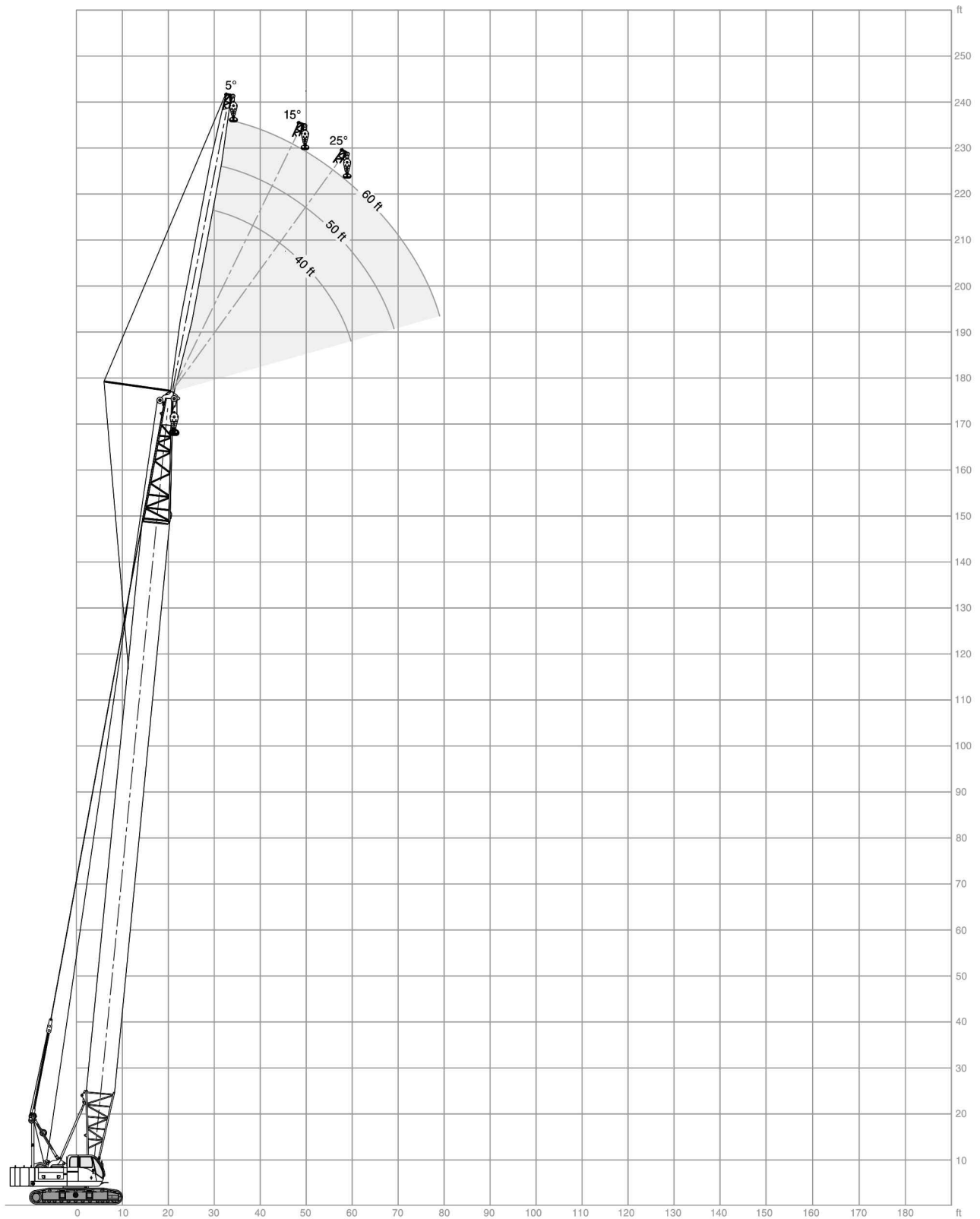
| Boom size | 20' 46HI Inner | 10' 46HR Center | 20' 46HR Center | 40' 46HR Center | 20' 46HI Outer |
|-----------|----------------|-----------------|-----------------|-----------------|----------------|
| 40        | 1              | 0               | 0               | 0               | 1              |
| 50        | 1              | 1               | 0               | 0               | 1              |
| 60        | 1              | 0               | 1               | 0               | 1              |
| 70        | 1              | 1               | 1               | 0               | 1              |
| 80        | 1              | 0               | 0               | 1               | 1              |
| 90        | 1              | 1               | 0               | 1               | 1              |
| 100       | 1              | 0               | 1               | 1               | 1              |
| 110       | 1              | 1               | 1               | 1               | 1              |
| 120       | 1              | 0               | 0               | 2               | 1              |
| 130       | 1              | 1               | 0               | 2               | 1              |
| 140       | 1              | 0               | 1               | 2               | 1              |
| 150       | 1              | 1               | 1               | 2               | 1              |
| 160       | 1              | 0               | 0               | 3               | 1              |

### For Main Boom Use Only

| Load Hoisting Information – 7/8 Inch Diameter EIPS Wire Rope |                       |                                  |                 |
|--------------------------------------------------------------|-----------------------|----------------------------------|-----------------|
| Maximum Lifting Capacity (lb)                                | Minimum Parts of Line | Maximum hoisting distance (feet) |                 |
|                                                              |                       | Main hoist                       | Auxiliary hoist |
| 160.000                                                      | 8                     | 73                               | 73              |
| 159.180                                                      | 7                     | 84                               | 84              |
| 136.440                                                      | 6                     | 98                               | 98              |
| 113.700                                                      | 5                     | 117                              | 117             |
| 90.960                                                       | 4                     | 147                              | 147             |
| 68.220                                                       | 3                     | 196                              | 196             |
| 45.480                                                       | 2                     | 294                              | 294             |
| 22.740                                                       | 1                     | 588                              | 588             |

# RANGE DIAGRAM

47HI Boom, #9HL Jib



# LOAD CHART

HC 80

With 47HI Boom, #9HL Jib

| 58,100 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 (Pounds) | Rating (Pounds) | 15.0 Deg offset Boom Angle (Pounds) | Rating (Pounds) | 25.0 Deg offset Boom Angle (Pounds) | Rating (Pounds) |             |  |  |  |  |  |  |  |
| 100'           | 30                | 80.7                      | 22,550*         | -                          | -               | -                          | -               | 36          | 80.8              | 20,590*                            | -               | -                                   | -               | -                                   |                 |             |  |  |  |  |  |  |  |
|                | 35                | 78.6                      | 22,550*         | -                          | -               | -                          | -               | 40          | 79.5              | 20,210*                            | -               | -                                   | -               | -                                   |                 |             |  |  |  |  |  |  |  |
|                | 40                | 76.5                      | 22,190*         | 79.2                       | 20,980*         | -                          | -               | 50          | 76.3              | 19,260*                            | 78.4            | 17,060*                             | 80.4            | 13,890*                             |                 |             |  |  |  |  |  |  |  |
|                | 50                | 72.2                      | 21,500*         | 74.9                       | 20,440*         | 77.5                       | 19,540*         | 60          | 73.0              | 18,250*                            | 75.1            | 16,430*                             | 77.0            | 13,600*                             |                 |             |  |  |  |  |  |  |  |
|                | 60                | 67.9                      | 19,650          | 70.5                       | 19,650          | 73.0                       | 19,100*         | 70          | 69.6              | 15,280                             | 71.7            | 15,280                              | 73.6            | 13,240*                             |                 |             |  |  |  |  |  |  |  |
|                | 70                | 63.4                      | 16,060          | 66.0                       | 16,070          | 68.4                       | 16,070          | 80          | 66.2              | 12,680                             | 68.2            | 12,680                              | 70.1            | 12,680                              |                 |             |  |  |  |  |  |  |  |
|                | 80                | 58.7                      | 13,460          | 61.2                       | 13,460          | 63.6                       | 13,470          | 90          | 62.6              | 10,700                             | 64.7            | 10,700                              | 66.5            | 10,700                              |                 |             |  |  |  |  |  |  |  |
|                | 90                | 53.7                      | 11,490          | 56.2                       | 11,490          | 58.4                       | 11,500          | 100         | 59.0              | 9,140                              | 61.0            | 9,150                               | 62.7            | 9,150                               |                 |             |  |  |  |  |  |  |  |
|                | 100               | 48.4                      | 9,950           | 50.8                       | 9,950           | 52.9                       | 9,950           | 110         | 55.1              | 7,890                              | 57.1            | 7,900                               | 58.8            | 7,900                               |                 |             |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 | 120         | 51.1              | 6,860                              | 53.1            | 6,870                               | 54.7            | 6,870                               |                 |             |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 | 130         | 46.9              | 6,010                              | 48.8            | 6,010                               | 50.3            | 6,010                               |                 |             |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 | 140         | 42.3              | 5,280                              | 44.1            | 5,280                               | 45.5            | 5,290                               |                 |             |  |  |  |  |  |  |  |
| 110'           | 31                | 80.9                      | 22,530*         | -                          | -               | -                          | -               | 37          | 81.0              | 17,400*                            | -               | -                                   | -               | -                                   |                 |             |  |  |  |  |  |  |  |
|                | 35                | 79.3                      | 22,530*         | -                          | -               | -                          | -               | 40          | 80.1              | 17,190*                            | -               | -                                   | -               | -                                   |                 |             |  |  |  |  |  |  |  |
|                | 40                | 77.4                      | 22,390*         | 79.9                       | 21,090*         | -                          | -               | 50          | 77.0              | 16,300*                            | 79.0            | 14,440*                             | 80.9            | 11,750*                             |                 |             |  |  |  |  |  |  |  |
|                | 50                | 73.5                      | 21,670*         | 76.0                       | 20,540*         | 78.3                       | 19,630*         | 60          | 73.9              | 15,370*                            | 75.9            | 13,860*                             | 77.7            | 11,470*                             |                 |             |  |  |  |  |  |  |  |
|                | 60                | 69.4                      | 19,440          | 71.9                       | 19,440          | 74.2                       | 19,190*         | 70          | 70.7              | 14,480*                            | 72.7            | 13,220*                             | 74.5            | 11,070*                             |                 |             |  |  |  |  |  |  |  |
|                | 70                | 65.3                      | 15,860          | 67.7                       | 15,860          | 70.0                       | 15,860          | 80          | 67.5              | 12,480                             | 69.4            | 12,480                              | 71.2            | 10,580*                             |                 |             |  |  |  |  |  |  |  |
|                | 80                | 61.0                      | 13,270          | 63.4                       | 13,270          | 65.6                       | 13,270          | 90          | 64.2              | 10,500                             | 66.1            | 10,500                              | 67.8            | 10,060*                             |                 |             |  |  |  |  |  |  |  |
|                | 90                | 56.5                      | 11,290          | 58.9                       | 11,290          | 61.0                       | 11,290          | 100         | 60.8              | 8,950                              | 62.7            | 8,950                               | 64.4            | 8,950                               |                 |             |  |  |  |  |  |  |  |
|                | 100               | 51.7                      | 9,740           | 54.1                       | 9,740           | 56.1                       | 9,740           | 110         | 57.2              | 7,700                              | 59.1            | 7,700                               | 60.7            | 7,700                               |                 |             |  |  |  |  |  |  |  |
|                | 110               | 46.6                      | 8,490           | 48.9                       | 8,490           | 50.8                       | 8,490           | 120         | 53.5              | 6,670                              | 55.4            | 6,670                               | 57.0            | 6,670                               |                 |             |  |  |  |  |  |  |  |
| 120'           | 33                | 80.7                      | 22,520*         | -                          | -               | -                          | -               | 130         | 49.7              | 5,810                              | 51.5            | 5,810                               | 53.0            | 5,810                               |                 |             |  |  |  |  |  |  |  |
|                | 35                | 80.0                      | 22,520*         | -                          | -               | -                          | -               | 140         | 45.5              | 5,080                              | 47.3            | 5,080                               | 48.7            | 5,090                               |                 |             |  |  |  |  |  |  |  |
|                | 40                | 78.2                      | 22,500*         | 80.6                       | 21,150*         | -                          | -               | 150         | 41.1              | 4,460                              | 42.8            | 4,460                               | 44.1            | 4,460                               |                 |             |  |  |  |  |  |  |  |
|                | 50                | 74.5                      | 21,850*         | 76.9                       | 20,630*         | 79.1                       | 19,480*         |             |                   |                                    |                 |                                     |                 |                                     |                 |             |  |  |  |  |  |  |  |
|                | 60                | 70.8                      | 19,240          | 73.1                       | 19,240          | 75.3                       | 19,240          |             |                   |                                    |                 |                                     |                 |                                     |                 |             |  |  |  |  |  |  |  |
|                | 70                | 66.9                      | 15,660          | 69.2                       | 15,660          | 71.4                       | 15,670          |             |                   |                                    |                 |                                     |                 |                                     |                 |             |  |  |  |  |  |  |  |
|                | 80                | 62.9                      | 13,060          | 65.2                       | 13,060          | 67.3                       | 13,060          |             |                   |                                    |                 |                                     |                 |                                     |                 |             |  |  |  |  |  |  |  |
|                | 90                | 58.8                      | 11,080          | 61.1                       | 11,080          | 63.1                       | 11,080          |             |                   |                                    |                 |                                     |                 |                                     |                 |             |  |  |  |  |  |  |  |
|                | 100               | 54.5                      | 9,530           | 56.7                       | 9,530           | 58.7                       | 9,530           |             |                   |                                    |                 |                                     |                 |                                     |                 |             |  |  |  |  |  |  |  |
|                | 110               | 49.9                      | 8,280           | 52.1                       | 8,280           | 53.9                       | 8,280           |             |                   |                                    |                 |                                     |                 |                                     |                 |             |  |  |  |  |  |  |  |
|                | 120               | 45.0                      | 7,250           | 47.1                       | 7,260           | 48.8                       | 7,260           |             |                   |                                    |                 |                                     |                 |                                     |                 |             |  |  |  |  |  |  |  |
| 130'           | 34                | 80.9                      | 22,500*         | -                          | -               | -                          | -               | 39          | 80.9              | 14,750*                            | -               | -                                   | -               | -                                   |                 |             |  |  |  |  |  |  |  |
|                | 35                | 80.6                      | 22,500*         | -                          | -               | -                          | -               | 40          | 80.6              | 14,670*                            | -               | -                                   | -               | -                                   |                 |             |  |  |  |  |  |  |  |
|                | 40                | 78.9                      | 22,500*         | -                          | -               | -                          | -               | 50          | 77.7              | 13,800*                            | 79.6            | 12,290*                             | -               | -                                   |                 |             |  |  |  |  |  |  |  |
|                | 50                | 75.4                      | 22,020*         | 77.7                       | 20,170*         | 79.8                       | 16,440*         | 60          | 74.7              | 12,930*                            | 76.6            | 11,740*                             | 78.4            | 9,670*                              |                 |             |  |  |  |  |  |  |  |
|                | 60                | 71.9                      | 19,060          | 74.1                       | 19,060          | 76.2                       | 16,240*         | 70          | 71.7              | 12,130*                            | 73.6            | 11,100*                             | 75.3            | 9,260*                              |                 |             |  |  |  |  |  |  |  |
|                | 70                | 68.3                      | 15,480          | 70.5                       | 15,480          | 72.5                       | 15,480          | 80          | 68.7              | 11,330*                            | 70.5            | 10,480*                             | 72.2            | 8,800*                              |                 |             |  |  |  |  |  |  |  |
|                | 80                | 64.7                      | 12,870          | 66.8                       | 12,880          | 68.8                       | 12,880          | 90          | 65.6              | 10,310                             | 67.4            | 9,820*                              | 69.1            | 8,290*                              |                 |             |  |  |  |  |  |  |  |
|                | 90                | 60.9                      | 10,900          | 63.0                       | 10,900          | 64.9                       | 10,910          | 100         | 62.4              | 8,760                              | 64.2            | 8,760                               | 65.8            | 7,810*                              |                 |             |  |  |  |  |  |  |  |
|                | 100               | 56.9                      | 9,350           | 59.0                       | 9,350           | 60.8                       | 9,360           | 110         | 59.1              | 7,510                              | 60.9            | 7,510                               | 62.4            | 7,320*                              |                 |             |  |  |  |  |  |  |  |
|                | 110               | 52.7                      | 8,100           | 54.8                       | 8,100           | 56.6                       | 8,110           | 120         | 55.6              | 6,480                              | 57.4            | 6,480                               | 58.9            | 6,480                               |                 |             |  |  |  |  |  |  |  |
|                | 120               | 48.3                      | 7,070           | 50.4                       | 7,080           | 52.0                       | 7,080           | 130         | 52.1              | 5,620                              | 53.8            | 5,620                               | 55.3            | 5,620                               |                 |             |  |  |  |  |  |  |  |
|                | 130               | 43.6                      | 6,220           | 45.5                       | 6,220           | 47.1                       | 6,220           | 140         | 48.3              | 4,890                              | 50.0            | 4,890                               | 51.4            | 4,900                               |                 |             |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 | 150         | 44.3              | 4,270                              | 46.0            | 4,270                               | 47.3            | 4,270                               |                 |             |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 | 160         | 40.0              | 3,720                              | 41.6            | 3,720                               | 42.8            | 3,730                               |                 |             |  |  |  |  |  |  |  |

# LOAD CHART

**HC 80**

**With 47HI Boom, #9HL Jib**

| 58,100 lb      |                   |                           |                 |                            |                 |                            |                 | 360°        |                   |                           |                 |                            |                 |                            |                 | ANSI B 30.5 |  |  |  |  |  |  |  |
|----------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|-------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|-------------|--|--|--|--|--|--|--|
| 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) |             |  |  |  |  |  |  |  |
| 130'           | 37                | 80.8                      | 21,570*         | -                          | -               | -                          | -               | 160'        | 41                | 81.0                      | 13,810*         | -                          | -               | -                          | -               |             |  |  |  |  |  |  |  |
|                | 40                | 79.8                      | 21,570*         | -                          | -               | -                          | -               |             | 50                | 78.5                      | 13,090*         | 80.8                       | 11,330*         | -                          | -               |             |  |  |  |  |  |  |  |
|                | 50                | 76.5                      | 21,210*         | 79.2                       | 18,370*         | -                          | -               |             | 60                | 75.7                      | 12,280*         | 78.0                       | 10,860*         | 80.1                       | 8,710*          |             |  |  |  |  |  |  |  |
|                | 60                | 73.2                      | 19,110          | 75.9                       | 17,960*         | 78.3                       | 14,430*         |             | 70                | 72.9                      | 11,490*         | 75.1                       | 10,330*         | 77.2                       | 8,420*          |             |  |  |  |  |  |  |  |
|                | 70                | 69.9                      | 15,520          | 72.5                       | 15,520          | 74.9                       | 14,230*         |             | 80                | 70.0                      | 10,770*         | 72.2                       | 9,800*          | 74.3                       | 8,050*          |             |  |  |  |  |  |  |  |
|                | 80                | 66.4                      | 12,920          | 69.0                       | 12,920          | 71.4                       | 12,920          |             | 90                | 67.0                      | 10,080*         | 69.2                       | 9,220*          | 71.3                       | 7,660*          |             |  |  |  |  |  |  |  |
|                | 90                | 62.9                      | 10,940          | 65.5                       | 10,940          | 67.8                       | 10,940          |             | 100               | 64.0                      | 8,790           | 66.2                       | 8,680*          | 68.2                       | 7,240*          |             |  |  |  |  |  |  |  |
|                | 100               | 59.2                      | 9,380           | 61.8                       | 9,390           | 64.0                       | 9,390           |             | 110               | 60.9                      | 7,540           | 63.1                       | 7,540           | 65.0                       | 6,830*          |             |  |  |  |  |  |  |  |
|                | 110               | 55.4                      | 8,130           | 57.9                       | 8,140           | 60.1                       | 8,140           |             | 120               | 57.7                      | 6,510           | 59.9                       | 6,510           | 61.8                       | 6,410*          |             |  |  |  |  |  |  |  |
|                | 120               | 51.4                      | 7,100           | 53.8                       | 7,110           | 55.9                       | 7,110           |             | 130               | 54.4                      | 5,650           | 56.5                       | 5,650           | 58.4                       | 5,660           |             |  |  |  |  |  |  |  |
| 130            | 47.1              | 6,250                     | 49.5            | 6,250                      | 51.5            | 6,250                      | 140             | 50.9        | 4,920             | 53.0                      | 4,920           | 54.8                       | 4,930           |                            |                 |             |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 | 150         | 47.3              | 4,300                     | 49.3            | 4,300                      | 51.0            | 4,300                      |                 |             |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 | 160         | 43.4              | 3,760                     | 45.4            | 3,760                      | 47.0            | 3,770                      |                 |             |  |  |  |  |  |  |  |
| 140'           | 38                | 80.9                      | 19,020*         | -                          | -               | -                          | -               | 170'        | 43                | 80.9                      | 11,660*         | -                          | -               | -                          | -               |             |  |  |  |  |  |  |  |
|                | 40                | 80.3                      | 19,010*         | -                          | -               | -                          | -               |             | 50                | 79.0                      | 11,130*         | -                          | -               | -                          | -               |             |  |  |  |  |  |  |  |
|                | 50                | 77.3                      | 18,100*         | 79.8                       | 15,590*         | -                          | -               |             | 60                | 76.4                      | 10,340*         | 78.5                       | 9,190*          | 80.6                       | 7,380*          |             |  |  |  |  |  |  |  |
|                | 60                | 74.2                      | 17,210*         | 76.6                       | 15,150*         | 79.0                       | 12,140*         |             | 70                | 73.7                      | 9,620*          | 75.8                       | 8,650*          | 77.8                       | 7,040*          |             |  |  |  |  |  |  |  |
|                | 70                | 71.0                      | 15,330          | 73.5                       | 14,540*         | 75.8                       | 11,930*         |             | 80                | 70.9                      | 8,940*          | 73.1                       | 8,150*          | 75.0                       | 6,670*          |             |  |  |  |  |  |  |  |
|                | 80                | 67.8                      | 12,720          | 70.2                       | 12,720          | 72.5                       | 11,570*         |             | 90                | 68.1                      | 8,300*          | 70.3                       | 7,600*          | 72.2                       | 6,290*          |             |  |  |  |  |  |  |  |
|                | 90                | 64.4                      | 10,740          | 66.9                       | 10,740          | 69.1                       | 10,740          |             | 100               | 65.3                      | 7,710*          | 67.4                       | 7,120*          | 69.3                       | 5,870*          |             |  |  |  |  |  |  |  |
|                | 100               | 61.0                      | 9,190           | 63.4                       | 9,190           | 65.6                       | 9,190           |             | 110               | 62.4                      | 7,120*          | 64.4                       | 6,600*          | 66.3                       | 5,480*          |             |  |  |  |  |  |  |  |
|                | 110               | 57.5                      | 7,940           | 59.9                       | 7,940           | 62.0                       | 7,940           |             | 120               | 59.4                      | 6,310           | 61.4                       | 6,150*          | 63.2                       | 5,090*          |             |  |  |  |  |  |  |  |
|                | 120               | 53.8                      | 6,910           | 56.1                       | 6,910           | 58.2                       | 6,910           |             | 130               | 56.3                      | 5,450           | 58.3                       | 5,460           | 60.1                       | 4,690*          |             |  |  |  |  |  |  |  |
| 130            | 49.9              | 6,050                     | 52.2            | 6,050                      | 54.2            | 6,050                      | 140             | 53.0        | 4,720             | 55.1                      | 4,730           | 56.8                       | 4,310*          |                            |                 |             |  |  |  |  |  |  |  |
| 140            | 45.8              | 5,310                     | 48.0            | 5,310                      | 49.9            | 5,320                      | 150             | 49.7        | 4,100             | 51.6                      | 4,100           | 53.3                       | 3,920*          |                            |                 |             |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 | 160         | 46.1              | 3,550                     | 48.1            | 3,550                      | 49.6            | 3,540*                     |                 |             |  |  |  |  |  |  |  |
| 150'           | 40                | 80.8                      | 16,220*         | -                          | -               | -                          | -               | 170'        | 170               | 42.3                      | 3,070           | 44.2                       | 3,080           | 45.7                       | 3,080           |             |  |  |  |  |  |  |  |
|                | 50                | 77.9                      | 15,410*         | 80.3                       | 13,300*         | -                          | -               |             |                   |                           |                 |                            |                 |                            |                 |             |  |  |  |  |  |  |  |
|                | 60                | 75.0                      | 14,500*         | 77.3                       | 12,800*         | 79.6                       | 10,310*         |             |                   |                           |                 |                            |                 |                            |                 |             |  |  |  |  |  |  |  |
|                | 70                | 72.0                      | 13,690*         | 74.3                       | 12,280*         | 76.5                       | 10,040*         |             |                   |                           |                 |                            |                 |                            |                 |             |  |  |  |  |  |  |  |
|                | 80                | 68.9                      | 12,520          | 71.3                       | 11,690*         | 73.4                       | 9,660*          |             |                   |                           |                 |                            |                 |                            |                 |             |  |  |  |  |  |  |  |
|                | 90                | 65.8                      | 10,530          | 68.1                       | 10,540          | 70.2                       | 9,270*          |             |                   |                           |                 |                            |                 |                            |                 |             |  |  |  |  |  |  |  |
|                | 100               | 62.6                      | 8,980           | 64.9                       | 8,980           | 67.0                       | 8,810*          |             |                   |                           |                 |                            |                 |                            |                 |             |  |  |  |  |  |  |  |
|                | 110               | 59.3                      | 7,730           | 61.6                       | 7,730           | 63.6                       | 7,730           |             |                   |                           |                 |                            |                 |                            |                 |             |  |  |  |  |  |  |  |
|                | 120               | 55.9                      | 6,700           | 58.1                       | 6,700           | 60.1                       | 6,700           |             |                   |                           |                 |                            |                 |                            |                 |             |  |  |  |  |  |  |  |
|                | 130               | 52.3                      | 5,840           | 54.5                       | 5,840           | 56.4                       | 5,850           |             |                   |                           |                 |                            |                 |                            |                 |             |  |  |  |  |  |  |  |
| 140            | 48.5              | 5,110                     | 50.7            | 5,110                      | 52.5            | 5,120                      |                 |             |                   |                           |                 |                            |                 |                            |                 |             |  |  |  |  |  |  |  |
| 150            | 44.5              | 4,490                     | 46.7            | 4,490                      | 48.4            | 4,490                      |                 |             |                   |                           |                 |                            |                 |                            |                 |             |  |  |  |  |  |  |  |

# LOAD CHART

**HC 80**

**With 47HI Boom, #9HL Jib**

| 58,100 lb      |                   |                           |                 | 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) |
|                | 42                | 80.9                      | 15,150*         | -                          | -               | -                          | -               |             | 45                | 81.0                      | 10,920*         | -                          | -               | -                          | -               |
|                | 50                | 78.7                      | 14,500*         | -                          | -               | -                          | -               |             | 50                | 79.7                      | 10,520*         | -                          | -               | -                          | -               |
|                | 60                | 75.9                      | 13,720*         | 78.7                       | 11,780*         | -                          | -               |             | 60                | 77.2                      | 9,830*          | 79.7                       | 8,510*          | -                          | -               |
|                | 70                | 73.1                      | 12,920*         | 75.8                       | 11,350*         | 78.3                       | 8,990*          |             | 70                | 74.6                      | 9,130*          | 77.1                       | 8,060*          | 79.4                       | 6,380*          |
|                | 80                | 70.2                      | 12,170*         | 72.9                       | 10,860*         | 75.4                       | 8,750*          |             | 80                | 72.0                      | 8,500*          | 74.5                       | 7,580*          | 76.8                       | 6,110*          |
|                | 90                | 67.3                      | 10,580*         | 69.9                       | 10,340*         | 72.4                       | 8,460*          |             | 90                | 69.4                      | 7,880*          | 71.8                       | 7,140*          | 74.1                       | 5,780*          |
| 150'           | 100               | 64.3                      | 9,010           | 66.9                       | 9,020           | 69.3                       | 8,120*          | 170'        | 100               | 66.6                      | 7,300*          | 69.1                       | 6,660*          | 71.3                       | 5,440*          |
|                | 110               | 61.2                      | 7,760           | 63.8                       | 7,760           | 66.1                       | 7,740*          |             | 110               | 63.9                      | 6,780*          | 66.3                       | 6,210*          | 68.5                       | 5,090*          |
|                | 120               | 58.0                      | 6,730           | 60.6                       | 6,730           | 62.9                       | 6,740           |             | 120               | 61.1                      | 6,270*          | 63.4                       | 5,780*          | 65.6                       | 4,740*          |
|                | 130               | 54.6                      | 5,870           | 57.2                       | 5,870           | 59.4                       | 5,880           |             | 130               | 58.1                      | 5,490           | 60.5                       | 5,370*          | 62.6                       | 4,390*          |
|                | 140               | 51.2                      | 5,140           | 53.7                       | 5,150           | 55.9                       | 5,150           |             | 140               | 55.1                      | 4,750           | 57.5                       | 4,700           | 59.5                       | 4,060*          |
|                | 150               | 47.5                      | 4,520           | 50.0                       | 4,520           | 52.1                       | 4,520           |             | 150               | 52.0                      | 4,130           | 54.3                       | 4,130           | 56.3                       | 3,710*          |
|                | 44                | 80.8                      | 12,820*         | -                          | -               | -                          | -               |             | 160               | 48.7                      | 3,580           | 51.0                       | 3,580           | 52.9                       | 3,380*          |
|                | 50                | 79.3                      | 12,400*         | -                          | -               | -                          | -               |             | 170               | 45.2                      | 3,100           | 47.5                       | 3,110           | 49.3                       | 3,040*          |
|                | 60                | 76.6                      | 11,610*         | 79.2                       | 10,040*         | -                          | -               |             |                   |                           |                 |                            |                 |                            |                 |
|                | 70                | 73.9                      | 10,890*         | 76.5                       | 9,560*          | 78.9                       | 7,600*          |             |                   |                           |                 |                            |                 |                            |                 |
|                | 80                | 71.1                      | 10,220*         | 73.7                       | 9,090*          | 76.1                       | 7,340*          |             |                   |                           |                 |                            |                 |                            |                 |
|                | 90                | 68.4                      | 9,570*          | 70.9                       | 8,630*          | 73.3                       | 7,020*          |             |                   |                           |                 |                            |                 |                            |                 |
|                | 100               | 65.5                      | 8,830           | 68.0                       | 8,130*          | 70.4                       | 6,680*          |             |                   |                           |                 |                            |                 |                            |                 |
|                | 110               | 62.6                      | 7,580           | 65.1                       | 7,580           | 67.4                       | 6,310*          |             |                   |                           |                 |                            |                 |                            |                 |
|                | 120               | 59.6                      | 6,540           | 62.1                       | 6,550           | 64.3                       | 5,960*          |             |                   |                           |                 |                            |                 |                            |                 |
|                | 130               | 56.5                      | 5,680           | 58.9                       | 5,690           | 61.1                       | 5,600*          |             |                   |                           |                 |                            |                 |                            |                 |
|                | 140               | 53.3                      | 4,950           | 55.7                       | 4,960           | 57.8                       | 4,960           |             |                   |                           |                 |                            |                 |                            |                 |
|                | 150               | 49.9                      | 4,330           | 52.3                       | 4,330           | 54.3                       | 4,330           |             |                   |                           |                 |                            |                 |                            |                 |
| 160            | 46.3              | 3,790                     | 48.7            | 3,790                      | 50.6            | 3,800                      |                 |             |                   |                           |                 |                            |                 |                            |                 |

# NOTES TO LIFTING CAPACITY

**HC 80**

## Jib Chart Information, #9HL

### #9HL Jib Composition Chart

| Jib length<br>(feet) | 20' Inner | 10' Center | 20' Center | 20' Outer | Eff. jib weight<br>(pounds) |
|----------------------|-----------|------------|------------|-----------|-----------------------------|
| 40                   | 1         | 0          | 0          | 1         | 1.850                       |
| 50                   | 1         | 1          | 0          | 1         | 2.350                       |
| 60                   | 1         | 0          | 1          | 1         | 2.750                       |

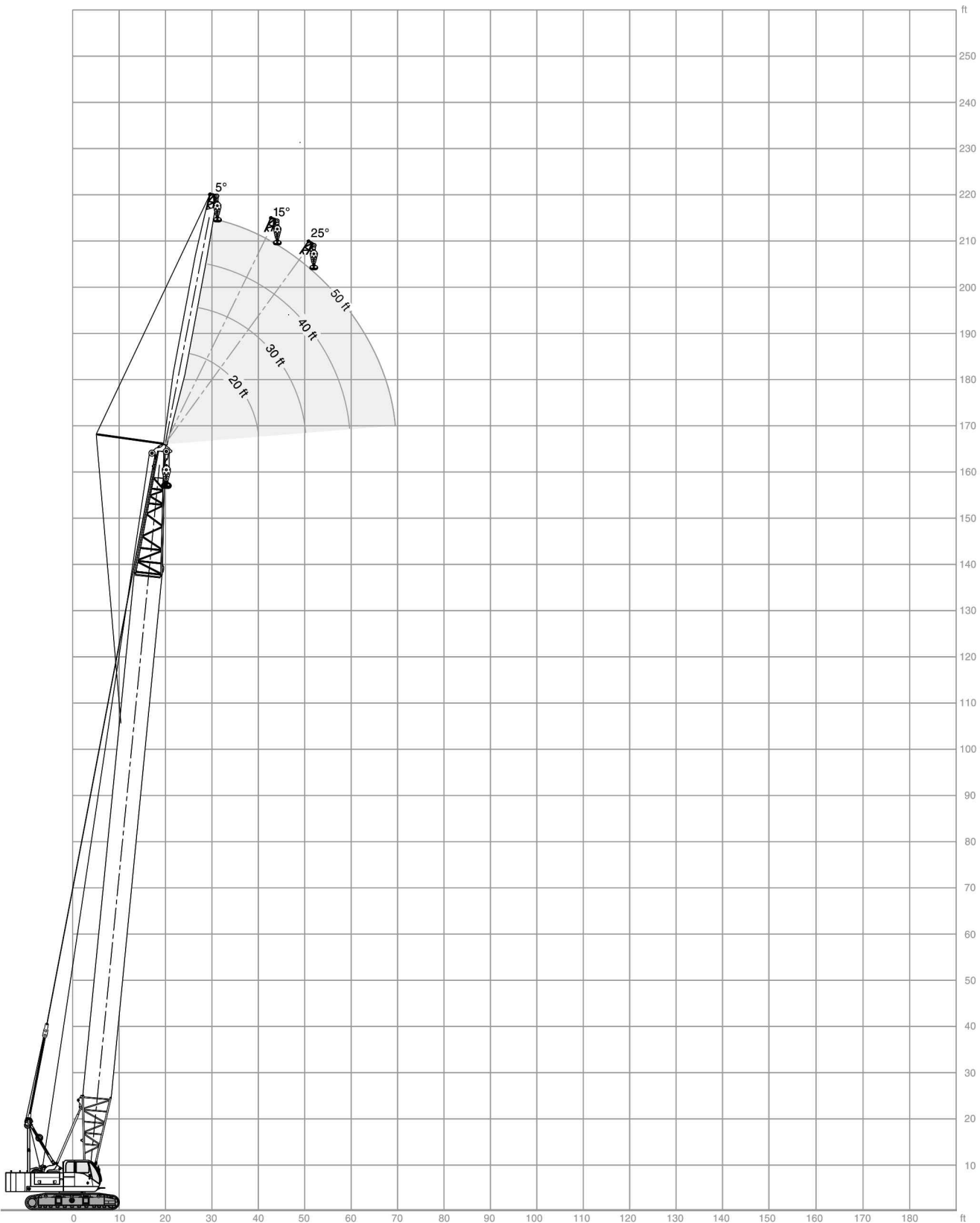
| 47 HI Boom<br>Maximum Boom & Jib Self-Erection Data |                       |                      |
|-----------------------------------------------------|-----------------------|----------------------|
| Blocked Over<br>the End &<br>Over the Side          | Boom length<br>(feet) | Jib length<br>(feet) |
|                                                     | 200                   | 0                    |
|                                                     | 170                   | 60                   |

| Load Hoisting Information – 7/8 Inch Diameter EIPS Wire Rope |                          |                                  |                 |
|--------------------------------------------------------------|--------------------------|----------------------------------|-----------------|
| Maximum Lifting<br>Capacity (lb)                             | Minimum<br>Parts of line | Maximum hoisting distance (feet) |                 |
|                                                              |                          | Main hoist                       | Auxiliary hoist |
| 22,550                                                       | 1                        | 588                              | 588             |

# RANGE DIAGRAM

**HC 80**

**46HI Boom, #9 Angle Jib**



# LOAD CHART

**HC 80**

**With 46HI Boom, #9 Angle Jib**

| 58,100 lb      |    |                   |                           |                 |                            |                 |                            | 360°            |             |      |                   |                           |                 |                            |                 | ANSI B 30.5                |                 |  |  |  |  |  |  |
|----------------|----|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|-------------|------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|--|--|--|--|--|--|
| 20' 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) |  |  |  |  |  |  |
| 50'            |    | 17                | 80.7                      | 18,250*         | -                          | -               | -                          | -               |             | 26   | 81.0              | 18,250*                   | -               | -                          | -               | -                          |                 |  |  |  |  |  |  |
|                |    | 20                | 78.2                      | 18,250*         | 80.9                       | 18,250*         | -                          | -               |             | 30   | 79.2              | 18,250*                   | 80.7            | 18,250*                    | -               | -                          |                 |  |  |  |  |  |  |
|                |    | 25                | 74.1                      | 18,250*         | 76.7                       | 18,250*         | 79.2                       | 18,250*         |             | 35   | 77.0              | 18,250*                   | 78.4            | 18,250*                    | 79.8            | 18,250*                    |                 |  |  |  |  |  |  |
|                |    | 30                | 69.8                      | 18,250*         | 72.5                       | 18,250*         | 74.9                       | 18,250*         |             | 40   | 74.7              | 18,250*                   | 76.2            | 18,250*                    | 77.5            | 18,250*                    |                 |  |  |  |  |  |  |
|                |    | 35                | 65.5                      | 18,250*         | 68.1                       | 18,250*         | 70.5                       | 18,250*         |             | 50   | 70.2              | 18,250*                   | 71.6            | 18,250*                    | 72.9            | 18,250                     |                 |  |  |  |  |  |  |
|                |    | 40                | 60.9                      | 18,250*         | 63.5                       | 18,250*         | 65.8                       | 18,250*         |             | 60   | 65.4              | 18,250*                   | 66.8            | 18,250*                    | 68.1            | 18,250*                    |                 |  |  |  |  |  |  |
|                | 50 | 51.1              | 18,250*                   | 53.6            | 18,250*                    | 55.7            | 18,250*                    |                 | 70          | 60.5 | 15,100            | 61.9                      | 15,100          | 63.1                       | 15,100          |                            |                 |  |  |  |  |  |  |
|                |    |                   |                           |                 |                            |                 |                            |                 | 80          | 55.3 | 12,500            | 56.7                      | 12,500          | 57.8                       | 12,500          |                            |                 |  |  |  |  |  |  |
| 60'            |    | 19                | 80.4                      | 18,250*         | -                          | -               | -                          | -               |             | 90   | 49.8              | 10,520                    | 51.1            | 10,520                     | 52.2            | 10,520                     |                 |  |  |  |  |  |  |
|                |    | 20                | 79.7                      | 18,250*         | -                          | -               | -                          | -               |             | 100  | 43.7              | 8,960                     | 45.0            | 8,970                      | 46.0            | 8,970                      |                 |  |  |  |  |  |  |
|                |    | 25                | 76.1                      | 18,250*         | 78.4                       | 18,250*         | 80.6                       | 18,250*         |             | 110  | 36.9              | 7,720                     | 38.1            | 7,720                      | 38.9            | 7,720                      |                 |  |  |  |  |  |  |
|                |    | 30                | 72.4                      | 18,250*         | 74.7                       | 18,250*         | 76.9                       | 18,250*         |             |      |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |
|                |    | 35                | 68.7                      | 18,250*         | 71.0                       | 18,250*         | 73.1                       | 18,250*         |             |      |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |
|                |    | 40                | 64.8                      | 18,250*         | 67.1                       | 18,250*         | 69.1                       | 18,250*         |             |      |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |
|                | 50 | 56.7              | 18,250*                   | 58.9            | 18,250*                    | 60.8            | 18,250*                    |                 |             |      |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |
|                | 60 | 47.6              | 18,250*                   | 49.7            | 18,250*                    | 51.5            | 18,250*                    |                 |             |      |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |
| 70'            |    | 20                | 80.8                      | 18,250*         | -                          | -               | -                          | -               |             | 28   | 80.8              | 18,250*                   | -               | -                          | -               | -                          |                 |  |  |  |  |  |  |
|                |    | 25                | 77.6                      | 18,250*         | 79.7                       | 18,250*         | -                          | -               |             | 30   | 80.0              | 18,250*                   | -               | -                          | -               | -                          |                 |  |  |  |  |  |  |
|                |    | 30                | 74.4                      | 18,250*         | 76.5                       | 18,250*         | 78.4                       | 18,250*         |             | 35   | 77.9              | 18,250*                   | 79.3            | 18,250*                    | 80.5            | 18,250*                    |                 |  |  |  |  |  |  |
|                |    | 35                | 71.1                      | 18,250*         | 73.2                       | 18,250*         | 75.1                       | 18,250*         |             | 40   | 75.8              | 18,250*                   | 77.2            | 18,250*                    | 78.4            | 18,250*                    |                 |  |  |  |  |  |  |
|                |    | 40                | 67.7                      | 18,250*         | 69.8                       | 18,250*         | 71.6                       | 18,250*         |             | 50   | 71.6              | 18,250*                   | 72.9            | 18,250*                    | 74.1            | 18,250*                    |                 |  |  |  |  |  |  |
|                |    | 50                | 60.7                      | 18,250*         | 62.7                       | 18,250*         | 64.5                       | 18,250*         |             | 60   | 67.3              | 18,250*                   | 68.6            | 18,250*                    | 69.7            | 18,250*                    |                 |  |  |  |  |  |  |
|                | 60 | 53.2              | 18,250*                   | 55.1            | 18,250*                    | 56.8            | 18,250*                    |                 | 70          | 62.8 | 14,890            | 64.1                      | 14,890          | 65.2                       | 14,900          |                            |                 |  |  |  |  |  |  |
|                | 70 | 44.7              | 16,020                    | 46.6            | 16,020                     | 48.1            | 16,020                     |                 | 80          | 58.1 | 12,290            | 59.4                      | 12,290          | 60.4                       | 12,290          |                            |                 |  |  |  |  |  |  |
| 80'            |    | 40                | 67.7                      | 18,250*         | 69.8                       | 18,250*         | 71.6                       | 18,250*         |             | 90   | 53.2              | 10,310                    | 54.4            | 10,310                     | 55.4            | 10,310                     |                 |  |  |  |  |  |  |
|                |    | 50                | 60.7                      | 18,250*         | 62.7                       | 18,250*         | 64.5                       | 18,250*         |             | 100  | 47.9              | 8,750                     | 49.1            | 8,750                      | 50.0            | 8,760                      |                 |  |  |  |  |  |  |
|                |    | 60                | 53.2                      | 18,250*         | 55.1                       | 18,250*         | 56.8                       | 18,250*         |             | 110  | 42.1              | 7,510                     | 43.2            | 7,510                      | 44.1            | 7,510                      |                 |  |  |  |  |  |  |
|                |    | 70                | 44.7                      | 16,020          | 46.6                       | 16,020          | 48.1                       | 16,020          |             | 120  | 35.5              | 6,490                     | 36.6            | 6,490                      | 37.3            | 6,490                      |                 |  |  |  |  |  |  |
|                |    | 22                | 80.6                      | 18,250*         | -                          | -               | -                          | -               |             | 30   | 80.7              | 18,250*                   | -               | -                          | -               | -                          |                 |  |  |  |  |  |  |
|                |    | 25                | 78.9                      | 18,250*         | 80.8                       | 18,250*         | -                          | -               |             | 35   | 78.7              | 18,250*                   | 80.0            | 18,250*                    | -               | -                          |                 |  |  |  |  |  |  |
| 90'            |    | 30                | 76.0                      | 18,250*         | 77.8                       | 18,250*         | 79.6                       | 18,250*         |             | 40   | 76.8              | 18,250*                   | 78.0            | 18,250*                    | 79.2            | 18,250*                    |                 |  |  |  |  |  |  |
|                |    | 35                | 73.0                      | 18,250*         | 74.9                       | 18,250*         | 76.6                       | 18,250*         |             | 50   | 72.9              | 18,250*                   | 74.1            | 18,250*                    | 75.2            | 18,250*                    |                 |  |  |  |  |  |  |
|                |    | 40                | 70.0                      | 18,250*         | 71.9                       | 18,250*         | 73.6                       | 18,000*         |             | 60   | 68.9              | 18,250*                   | 70.1            | 18,250*                    | 71.2            | 18,250*                    |                 |  |  |  |  |  |  |
|                |    | 50                | 63.9                      | 18,250*         | 65.7                       | 18,250*         | 67.3                       | 18,250*         |             | 70   | 64.7              | 14,660                    | 65.9            | 14,660                     | 67.0            | 14,660                     |                 |  |  |  |  |  |  |
|                |    | 60                | 57.3                      | 18,250*         | 59.1                       | 18,250*         | 60.6                       | 18,250*         |             | 80   | 60.4              | 12,060                    | 61.6            | 12,060                     | 62.7            | 12,060                     |                 |  |  |  |  |  |  |
|                |    | 70                | 50.3                      | 15,820          | 52.0                       | 15,820          | 53.4                       | 15,820          |             | 90   | 56.0              | 10,070                    | 57.1            | 10,080                     | 58.1            | 10,080                     |                 |  |  |  |  |  |  |
|                | 80 | 42.3              | 13,220                    | 44.0            | 13,220                     | 45.2            | 13,220                     |                 | 100         | 51.2 | 8,520             | 52.4                      | 8,520           | 53.3                       | 8,520           |                            |                 |  |  |  |  |  |  |
|                |    |                   |                           |                 |                            |                 |                            |                 | 110         | 46.1 | 7,270             | 47.3                      | 7,270           | 48.1                       | 7,270           |                            |                 |  |  |  |  |  |  |
|                |    |                   |                           |                 |                            |                 |                            |                 | 120         | 40.6 | 6,230             | 41.6                      | 6,230           | 42.4                       | 6,240           |                            |                 |  |  |  |  |  |  |
|                |    |                   |                           |                 |                            |                 |                            |                 | 130         | 34.3 | 5,380             | 35.3                      | 5,380           | 35.9                       | 5,390           |                            |                 |  |  |  |  |  |  |
| 100'           |    | 25                | 80.7                      | 18,250*         | -                          | -               | -                          | -               |             | 31   | 80.9              | 18,250*                   | -               | -                          | -               | -                          |                 |  |  |  |  |  |  |
|                |    | 30                | 78.3                      | 18,250*         | 79.9                       | 18,250*         | -                          | -               |             | 35   | 79.4              | 18,250*                   | 80.6            | 18,250*                    | -               | -                          |                 |  |  |  |  |  |  |
|                |    | 35                | 75.9                      | 18,250*         | 77.5                       | 18,250*         | 78.9                       | 18,250*         |             | 40   | 77.6              | 18,250*                   | 78.8            | 18,250*                    | 79.9            | 18,250*                    |                 |  |  |  |  |  |  |
|                |    | 40                | 73.4                      | 18,250*         | 75.0                       | 18,250*         | 76.4                       | 18,250*         |             | 50   | 74.0              | 18,250*                   | 75.1            | 18,250*                    | 76.2            | 18,250*                    |                 |  |  |  |  |  |  |
|                |    | 50                | 68.4                      | 18,250*         | 70.0                       | 18,250*         | 71.3                       | 18,250*         |             | 60   | 70.2              | 18,030                    | 71.4            | 18,030                     | 72.4            | 18,030                     |                 |  |  |  |  |  |  |
|                |    | 60                | 63.2                      | 18,250*         | 64.7                       | 18,250*         | 66.1                       | 18,250*         |             | 70   | 66.4              | 14,430                    | 67.5            | 14,430                     | 68.5            | 14,430                     |                 |  |  |  |  |  |  |
| 110'           |    | 70                | 57.8                      | 15,350          | 59.3                       | 15,350          | 60.5                       | 15,350          |             | 80   | 62.4              | 11,820                    | 63.6            | 11,820                     | 64.5            | 11,820                     |                 |  |  |  |  |  |  |
|                |    | 80                | 52.0                      | 12,740          | 53.4                       | 12,740          | 54.6                       | 12,740          |             | 90   | 58.3              | 9,840                     | 59.4            | 9,840                      | 60.4            | 9,840                      |                 |  |  |  |  |  |  |
|                |    | 90                | 45.6                      | 10,760          | 47.0                       | 10,760          | 48.1                       | 10,760          |             | 100  | 54.0              | 8,290                     | 55.1            | 8,290                      | 56.0            | 8,290                      |                 |  |  |  |  |  |  |
|                |    | 100               | 38.5                      | 9,220           | 39.8                       | 9,220           | 40.7                       | 9,220           |             | 110  | 49.5              | 7,030                     | 50.6            | 7,030                      | 51.4            | 7,030                      |                 |  |  |  |  |  |  |
|                |    |                   |                           |                 |                            |                 |                            |                 |             | 120  | 44.6              | 6,000                     | 45.6            | 6,000                      | 46.4            | 6,010                      |                 |  |  |  |  |  |  |
|                |    |                   |                           |                 |                            |                 |                            |                 |             | 130  | 39.2              | 5,150                     | 40.2            | 5,150                      | 40.9            | 5,150                      |                 |  |  |  |  |  |  |
|                |    |                   |                           |                 |                            |                 |                            |                 | 140         | 33.1 | 4,420             | 34.1                      | 4,420           | 34.6                       | 4,420           |                            |                 |  |  |  |  |  |  |

# LOAD CHART

HC 80

With 46HI Boom, #9 Angle Jib

| 58,100 lb      |                   |                           |                 |                            |                 |                            |                 | 360°        |                   |                           |                 |                            |                 |                            |                 | ANSI B 30.5 |  |  |  |  |  |  |  |
|----------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|-------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|-------------|--|--|--|--|--|--|--|
| 20' 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) |             |  |  |  |  |  |  |  |
| 150'           | 33                | 80.7                      | 18,250*         | -                          | -               | -                          | -               | 34          | 80.9              | 18,250*                   | -               | -                          | -               | -                          |                 |             |  |  |  |  |  |  |  |
|                | 35                | 80.1                      | 18,250*         | -                          | -               | -                          | -               | 35          | 80.6              | 18,250*                   | -               | -                          | -               | -                          |                 |             |  |  |  |  |  |  |  |
|                | 40                | 78.4                      | 18,250*         | 79.5                       | 18,250*         | 80.5                       | 18,250*         | 40          | 79.0              | 18,250*                   | 80.1            | 18,250*                    | -               | -                          |                 |             |  |  |  |  |  |  |  |
|                | 50                | 74.9                      | 18,250*         | 76.0                       | 18,250*         | 77.0                       | 18,250*         | 50          | 75.8              | 18,250*                   | 76.8            | 18,250*                    | 77.8            | 16,580*                    |                 |             |  |  |  |  |  |  |  |
|                | 60                | 71.4                      | 17,790          | 72.5                       | 17,790          | 73.5                       | 17,790          | 60          | 72.5              | 17,580                    | 73.5            | 17,580                     | 74.5            | 15,770*                    |                 |             |  |  |  |  |  |  |  |
|                | 70                | 67.8                      | 14,200          | 68.9                       | 14,200          | 69.9                       | 14,200          | 70          | 69.1              | 13,990                    | 70.2            | 13,990                     | 71.1            | 13,990                     |                 |             |  |  |  |  |  |  |  |
|                | 80                | 64.2                      | 11,580          | 65.2                       | 11,580          | 66.2                       | 11,590          | 80          | 65.7              | 11,380                    | 66.7            | 11,380                     | 67.6            | 11,380                     |                 |             |  |  |  |  |  |  |  |
|                | 90                | 60.4                      | 9,600           | 61.4                       | 9,600           | 62.3                       | 9,600           | 90          | 62.2              | 9,390                     | 63.2            | 9,400                      | 64.0            | 9,400                      |                 |             |  |  |  |  |  |  |  |
|                | 100               | 56.4                      | 8,040           | 57.5                       | 8,040           | 58.3                       | 8,040           | 100         | 58.5              | 7,830                     | 59.5            | 7,830                      | 60.3            | 7,840                      |                 |             |  |  |  |  |  |  |  |
|                | 110               | 52.3                      | 6,790           | 53.3                       | 6,790           | 54.1                       | 6,790           | 110         | 54.7              | 6,580                     | 55.7            | 6,580                      | 56.5            | 6,590                      |                 |             |  |  |  |  |  |  |  |
|                | 120               | 47.9                      | 5,760           | 48.9                       | 5,760           | 49.7                       | 5,770           | 120         | 50.7              | 5,540                     | 51.7            | 5,540                      | 52.4            | 5,550                      |                 |             |  |  |  |  |  |  |  |
|                | 130               | 43.2                      | 4,900           | 44.2                       | 4,900           | 44.9                       | 4,900           | 130         | 46.5              | 4,690                     | 47.4            | 4,690                      | 48.1            | 4,690                      |                 |             |  |  |  |  |  |  |  |
|                | 140               | 38.0                      | 4,170           | 38.9                       | 4,170           | 39.6                       | 4,180           | 140         | 41.9              | 3,950                     | 42.8            | 3,950                      | 43.5            | 3,950                      |                 |             |  |  |  |  |  |  |  |
|                | 150               | 32.1                      | 3,550           | 33.0                       | 3,560           | 33.5                       | 3,560           | 150         | 36.9              | 3,330                     | 37.8            | 3,330                      | 38.3            | 3,330                      |                 |             |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             | 160               | 31.2                      | 2,790           | 32.0                       | 2,790           | 32.4                       | 2,790           |             |  |  |  |  |  |  |  |
| 30' 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) |             |  |  |  |  |  |  |  |
| 80'            | 24                | 80.8                      | 18,250*         | -                          | -               | -                          | -               | 29          | 80.7              | 18,250*                   | -               | -                          | -               | -                          |                 |             |  |  |  |  |  |  |  |
|                | 25                | 80.3                      | 18,250*         | -                          | -               | -                          | -               | 30          | 80.3              | 18,250*                   | -               | -                          | -               | -                          |                 |             |  |  |  |  |  |  |  |
|                | 30                | 77.7                      | 18,250*         | 80.3                       | 18,250*         | -                          | -               | 35          | 78.3              | 18,250*                   | 80.3            | 18,250*                    | -               | -                          |                 |             |  |  |  |  |  |  |  |
|                | 35                | 75.0                      | 18,250*         | 77.6                       | 18,250*         | 80.0                       | 18,250*         | 40          | 76.2              | 18,250*                   | 78.2            | 18,250*                    | 80.1            | 18,250*                    |                 |             |  |  |  |  |  |  |  |
|                | 40                | 72.3                      | 18,250*         | 74.9                       | 18,250*         | 77.3                       | 18,250*         | 50          | 72.0              | 18,250*                   | 74.0            | 18,250*                    | 75.8            | 18,250*                    |                 |             |  |  |  |  |  |  |  |
|                | 50                | 66.8                      | 18,250*         | 69.3                       | 18,250*         | 71.6                       | 18,250*         | 60          | 67.6              | 18,250*                   | 69.6            | 18,250*                    | 71.4            | 18,250*                    |                 |             |  |  |  |  |  |  |  |
|                | 60                | 61.0                      | 18,250*         | 63.5                       | 18,250*         | 65.7                       | 18,250*         | 70          | 63.1              | 15,180                    | 65.1            | 15,180                     | 66.8            | 15,190                     |                 |             |  |  |  |  |  |  |  |
|                | 70                | 54.9                      | 15,910          | 57.3                       | 15,920          | 59.4                       | 15,920          | 80          | 58.4              | 12,570                    | 60.4            | 12,570                     | 62.0            | 12,580                     |                 |             |  |  |  |  |  |  |  |
|                | 80                | 48.2                      | 13,320          | 50.6                       | 13,320          | 52.5                       | 13,320          | 90          | 53.5              | 10,590                    | 55.4            | 10,590                     | 57.0            | 10,60                      |                 |             |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 | 100         | 48.2              | 9,040                     | 50.0            | 9,050                      | 51.5            | 9,050                      |                 |             |  |  |  |  |  |  |  |
| 90'            | 26                | 80.6                      | 18,250*         | -                          | -               | -                          | -               | 110         | 42.4              | 7,790                     | 44.2            | 7,790                      | 45.6            | 7,790                      |                 |             |  |  |  |  |  |  |  |
|                | 30                | 78.7                      | 18,250*         | -                          | -               | -                          | -               |             |                   |                           |                 |                            |                 |                            |                 |             |  |  |  |  |  |  |  |
|                | 35                | 76.3                      | 18,250*         | 78.7                       | 18,250*         | 80.9                       | 18,250*         | 30          | 81.0              | 18,250*                   | -               | -                          | -               | -                          |                 |             |  |  |  |  |  |  |  |
|                | 40                | 73.8                      | 18,250*         | 76.2                       | 18,250*         | 78.4                       | 18,250*         | 35          | 79.1              | 18,250*                   | 81.0            | 18,250*                    | -               | -                          |                 |             |  |  |  |  |  |  |  |
|                | 50                | 68.8                      | 18,250*         | 71.2                       | 18,250*         | 73.3                       | 18,250*         | 40          | 77.1              | 18,250*                   | 79.0            | 18,250*                    | 80.8            | 18,250*                    |                 |             |  |  |  |  |  |  |  |
|                | 60                | 63.6                      | 18,250*         | 65.9                       | 18,250*         | 68.0                       | 18,250*         | 50          | 73.2              | 18,250*                   | 75.1            | 18,250*                    | 76.8            | 18,250*                    |                 |             |  |  |  |  |  |  |  |
|                | 70                | 58.2                      | 15,670          | 60.4                       | 15,670          | 62.4                       | 15,670          | 60          | 69.2              | 18,250*                   | 71.0            | 18,250*                    | 72.7            | 18,250*                    |                 |             |  |  |  |  |  |  |  |
|                | 80                | 52.4                      | 13,060          | 54.6                       | 13,060          | 56.4                       | 13,060          | 70          | 65.0              | 14,970                    | 66.9            | 14,970                     | 68.5            | 14,970                     |                 |             |  |  |  |  |  |  |  |
|                | 90                | 46.0                      | 11,080          | 48.1                       | 11,080          | 49.9                       | 11,080          | 80          | 60.8              | 12,370                    | 62.6            | 12,370                     | 64.2            | 12,370                     |                 |             |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 | 90          | 56.3              | 10,380                    | 58.1            | 10,390                     | 59.6            | 10,390                     |                 |             |  |  |  |  |  |  |  |
| 100'           | 27                | 80.9                      | 18,250*         | -                          | -               | -                          | -               | 100         | 51.5              | 8,830                     | 53.3            | 8,830                      | 54.7            | 8,830                      |                 |             |  |  |  |  |  |  |  |
|                | 30                | 79.6                      | 18,250*         | -                          | -               | -                          | -               | 110         | 46.5              | 7,580                     | 48.2            | 7,580                      | 49.5            | 7,580                      |                 |             |  |  |  |  |  |  |  |
|                | 35                | 77.4                      | 18,250*         | 79.5                       | 18,250*         | -                          | -               | 120         | 40.9              | 6,540                     | 42.5            | 6,540                      | 43.8            | 6,550                      |                 |             |  |  |  |  |  |  |  |
|                | 40                | 75.1                      | 18,250*         | 77.3                       | 18,250*         | 79.3                       | 18,250*         |             |                   |                           |                 |                            |                 |                            |                 |             |  |  |  |  |  |  |  |
|                | 50                | 70.5                      | 18,250*         | 72.7                       | 18,250*         | 74.7                       | 18,250*         | 32          | 80.8              | 18,250*                   | -               | -                          | -               | -                          |                 |             |  |  |  |  |  |  |  |
|                | 60                | 65.8                      | 18,250*         | 67.9                       | 18,250*         | 69.8                       | 18,250*         | 35          | 79.7              | 18,250*                   | -               | -                          | -               | -                          |                 |             |  |  |  |  |  |  |  |
|                | 70                | 60.9                      | 15,430          | 63.0                       | 15,430          | 64.8                       | 15,430          | 40          | 77.9              | 18,250*                   | 79.7            | 18,250*                    | -               | -                          |                 |             |  |  |  |  |  |  |  |
|                | 80                | 55.7                      | 12,820          | 57.7                       | 12,820          | 59.5                       | 12,820          | 50          | 74.3              | 18,250*                   | 76.0            | 18,250*                    | 77.7            | 18,250*                    |                 |             |  |  |  |  |  |  |  |
|                | 90                | 50.2                      | 10,840          | 52.2                       | 10,840          | 53.8                       | 10,840          | 60          | 70.5              | 18,250*                   | 72.3            | 18,250*                    | 73.9            | 18,250*                    |                 |             |  |  |  |  |  |  |  |
|                | 100               | 44.1                      | 9,290           | 46.0                       | 9,300           | 47.6                       | 9,300           | 70          | 66.7              | 14,730                    | 68.4            | 14,730                     | 70.0            | 14,740                     |                 |             |  |  |  |  |  |  |  |
| 130'           | 80                | 62.7                      | 12,120          | 64.4                       | 12,120          | 66.0                       | 12,120          | 80          | 62.7              | 12,120                    | 64.4            | 12,120                     | 66.0            | 12,120                     |                 |             |  |  |  |  |  |  |  |
|                | 90                | 58.6                      | 10,140          | 60.3                       | 10,140          | 61.8                       | 10,140          | 90          | 58.6              | 10,140                    | 60.3            | 10,140                     | 61.8            | 10,140                     |                 |             |  |  |  |  |  |  |  |
|                | 100               | 54.3                      | 8,580           | 56.0                       | 8,580           | 57.4                       | 8,580           | 100         | 54.3              | 8,580                     | 56.0            | 8,580                      | 57.4            | 8,580                      |                 |             |  |  |  |  |  |  |  |
|                | 110               | 49.8                      | 7,330           | 51.4                       | 7,330           | 52.7                       | 7,330           | 110         | 49.8              | 7,330                     | 51.4            | 7,330                      | 52.7            | 7,330                      |                 |             |  |  |  |  |  |  |  |
|                | 120               | 44.9                      | 6,300           | 46.5                       | 6,300           | 47.7                       | 6,310           | 120         | 44.9              | 6,300                     | 46.5            | 6,300                      | 47.7            | 6,310                      |                 |             |  |  |  |  |  |  |  |
|                | 130               | 39.5                      | 5,440           | 41.0                       | 5,440           | 42.2                       | 5,440           | 130         | 39.5              | 5,440                     | 41.0            | 5,440                      | 42.2            | 5,440                      |                 |             |  |  |  |  |  |  |  |

# LOAD CHART

**HC 80**

**With 46HI Boom, #9 Angle Jib**

| 58,100 lb      |                   |                           |                 |                            |                 |                            |                 | 360°        |                   |                           |                 |                            |                 |                            |                 | ANSI B 30.5 |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|----------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|-------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|-------------|-------------------|---------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|--|--|--|--|--|--|--|--|
| 30' 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) | 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) |  |  |  |  |  |  |  |  |
|                | 34                | 80.7                      | 18,250*         | -                          | -               | -                          | -               |             | 37                | 80.8                      | 18,250*         | -                          | -               | -                          | -               |             | 40                | 79.8                      | 18,250*         | -                          | -               | -                          | -               |  |  |  |  |  |  |  |  |
|                | 35                | 80.3                      | 18,250*         | -                          | -               | -                          | -               |             | 50                | 76.8                      | 18,250*         | 78.3                       | 17,840*         | 79.7                       | 14,960*         |             | 60                | 73.7                      | 17,640          | 75.2                       | 17,030*         | 76.5                       | 14,430*         |  |  |  |  |  |  |  |  |
|                | 40                | 78.6                      | 18,250*         | 80.3                       | 18,250*         | -                          | -               |             | 60                | 73.7                      | 17,640          | 75.2                       | 17,030*         | 76.5                       | 14,430*         |             | 70                | 70.5                      | 14,050          | 72.0                       | 14,050          | 73.3                       | 13,770          |  |  |  |  |  |  |  |  |
|                | 50                | 75.2                      | 18,250*         | 76.9                       | 18,250*         | 78.4                       | 18,250*         |             | 80                | 67.3                      | 11,430          | 68.8                       | 11,430          | 70.1                       | 11,440          |             | 80                | 67.3                      | 11,430          | 68.8                       | 11,430          | 70.1                       | 11,440          |  |  |  |  |  |  |  |  |
|                | 60                | 71.7                      | 18,090          | 73.4                       | 18,090          | 74.9                       | 18,090          |             | 90                | 64.0                      | 9,450           | 65.4                       | 9,450           | 66.7                       | 9,450           |             | 90                | 64.0                      | 9,450           | 65.4                       | 9,450           | 66.7                       | 9,450           |  |  |  |  |  |  |  |  |
|                | 70                | 68.1                      | 14,500          | 69.8                       | 14,500          | 71.2                       | 14,500          |             | 100               | 60.6                      | 7,890           | 62.0                       | 7,890           | 63.3                       | 7,890           |             | 100               | 60.6                      | 7,890           | 62.0                       | 7,890           | 63.3                       | 7,890           |  |  |  |  |  |  |  |  |
|                | 80                | 64.5                      | 11,880          | 66.1                       | 11,880          | 67.5                       | 11,890          |             | 110               | 57.1                      | 6,640           | 58.5                       | 6,640           | 59.7                       | 6,640           |             | 110               | 57.1                      | 6,640           | 58.5                       | 6,640           | 59.7                       | 6,640           |  |  |  |  |  |  |  |  |
|                | 90                | 60.7                      | 9,900           | 62.3                       | 9,900           | 63.7                       | 9,900           |             | 120               | 53.4                      | 5,600           | 54.8                       | 5,600           | 55.9                       | 5,600           |             | 120               | 53.4                      | 5,600           | 54.8                       | 5,600           | 55.9                       | 5,600           |  |  |  |  |  |  |  |  |
|                | 100               | 56.7                      | 8,350           | 58.3                       | 8,350           | 59.6                       | 8,350           |             | 130               | 49.5                      | 4,740           | 50.9                       | 4,740           | 52.0                       | 4,740           |             | 130               | 49.5                      | 4,740           | 50.9                       | 4,740           | 52.0                       | 4,740           |  |  |  |  |  |  |  |  |
|                | 110               | 52.6                      | 7,090           | 54.1                       | 7,090           | 55.4                       | 7,090           |             | 140               | 45.4                      | 4,010           | 46.7                       | 4,010           | 47.8                       | 4,010           |             | 140               | 45.4                      | 4,010           | 46.7                       | 4,010           | 47.8                       | 4,010           |  |  |  |  |  |  |  |  |
|                | 120               | 48.2                      | 6,060           | 49.7                       | 6,060           | 50.9                       | 6,070           |             | 150               | 41.0                      | 3,380           | 42.3                       | 3,380           | 43.2                       | 3,380           |             | 150               | 41.0                      | 3,380           | 42.3                       | 3,380           | 43.2                       | 3,380           |  |  |  |  |  |  |  |  |
|                | 130               | 43.5                      | 5,210           | 44.9                       | 5,210           | 46.1                       | 5,210           |             | 160               | 36.1                      | 2,840           | 37.3                       | 2,850           | 38.2                       | 2,850           |             | 160               | 36.1                      | 2,840           | 37.3                       | 2,850           | 38.2                       | 2,850           |  |  |  |  |  |  |  |  |
|                | 140               | 38.3                      | 4,470           | 39.7                       | 4,480           | 40.7                       | 4,480           |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                | 35                | 80.9                      | 18,250*         | -                          | -               | -                          | -               |             | 40                | 79.3                      | 18,250*         | 80.9                       | 18,250*         | -                          | -               |             | 50                | 76.0                      | 18,250*         | 77.6                       | 18,250*         | 79.1                       | 17,490*         |  |  |  |  |  |  |  |  |
|                | 40                | 79.3                      | 18,250*         | 80.9                       | 18,250*         | -                          | -               |             | 60                | 72.8                      | 17,860          | 74.3                       | 17,860          | 75.7                       | 16,980*         |             | 60                | 72.8                      | 17,860          | 74.3                       | 17,860          | 75.7                       | 16,980*         |  |  |  |  |  |  |  |  |
|                | 50                | 76.0                      | 18,250*         | 77.6                       | 18,250*         | 79.1                       | 17,490*         |             | 70                | 69.4                      | 14,260          | 70.9                       | 14,260          | 72.3                       | 14,260          |             | 70                | 69.4                      | 14,260          | 70.9                       | 14,260          | 72.3                       | 14,260          |  |  |  |  |  |  |  |  |
|                | 60                | 72.8                      | 17,860          | 74.3                       | 17,860          | 75.7                       | 16,980*         |             | 80                | 66.0                      | 11,650          | 67.5                       | 11,650          | 68.9                       | 11,650          |             | 80                | 66.0                      | 11,650          | 67.5                       | 11,650          | 68.9                       | 11,650          |  |  |  |  |  |  |  |  |
|                | 70                | 69.4                      | 14,260          | 70.9                       | 14,260          | 72.3                       | 14,260          |             | 90                | 62.4                      | 9,660           | 63.9                       | 9,670           | 65.3                       | 9,670           |             | 90                | 62.4                      | 9,660           | 63.9                       | 9,670           | 65.3                       | 9,670           |  |  |  |  |  |  |  |  |
|                | 80                | 66.0                      | 11,650          | 67.5                       | 11,650          | 68.9                       | 11,650          |             | 100               | 58.8                      | 8,100           | 60.3                       | 8,100           | 61.6                       | 8,110           |             | 100               | 58.8                      | 8,100           | 60.3                       | 8,100           | 61.6                       | 8,110           |  |  |  |  |  |  |  |  |
|                | 90                | 62.4                      | 9,660           | 63.9                       | 9,670           | 65.3                       | 9,670           |             | 110               | 55.0                      | 6,850           | 56.5                       | 6,850           | 57.7                       | 6,860           |             | 110               | 55.0                      | 6,850           | 56.5                       | 6,850           | 57.7                       | 6,860           |  |  |  |  |  |  |  |  |
|                | 100               | 58.8                      | 8,100           | 60.3                       | 8,100           | 61.6                       | 8,110           |             | 120               | 51.0                      | 5,810           | 52.4                       | 5,810           | 53.6                       | 5,820           |             | 120               | 51.0                      | 5,810           | 52.4                       | 5,810           | 53.6                       | 5,820           |  |  |  |  |  |  |  |  |
|                | 110               | 55.0                      | 6,850           | 56.5                       | 6,850           | 57.7                       | 6,860           |             | 130               | 46.8                      | 4,960           | 48.2                       | 4,960           | 49.3                       | 4,960           |             | 130               | 46.8                      | 4,960           | 48.2                       | 4,960           | 49.3                       | 4,960           |  |  |  |  |  |  |  |  |
|                | 120               | 51.0                      | 5,810           | 52.4                       | 5,810           | 53.6                       | 5,820           |             | 140               | 42.2                      | 4,220           | 43.5                       | 4,220           | 44.6                       | 4,230           |             | 140               | 42.2                      | 4,220           | 43.5                       | 4,220           | 44.6                       | 4,230           |  |  |  |  |  |  |  |  |
|                | 130               | 46.8                      | 4,960           | 48.2                       | 4,960           | 49.3                       | 4,960           |             | 150               | 37.2                      | 3,600           | 38.5                       | 3,600           | 39.4                       | 3,600           |             | 150               | 37.2                      | 3,600           | 38.5                       | 3,600           | 39.4                       | 3,600           |  |  |  |  |  |  |  |  |
|                | 140               | 42.2                      | 4,220           | 43.5                       | 4,220           | 44.6                       | 4,230           |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                | 150               | 37.2                      | 3,600           | 38.5                       | 3,600           | 39.4                       | 3,600           |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |
|                |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |             |                   |                           |                 |                            |                 |                            |                 |  |  |  |  |  |  |  |  |

## With 46HI Boom, #9 Angle Jib

58,100 lb

360°

ANSI B 30.5

40' Jib length

| Boom<br>length | Jib<br>Radius<br>(Feet) | 5.0 Deg offset<br>Boom Angle      Rating<br>(Pounds) | 15.0 Deg offset<br>Boom Angle      Rating<br>(Pounds) | 25.0 Deg offset<br>Boom Angle      Rating<br>(Pounds) |
|----------------|-------------------------|------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
|                | 36                      | 80.8    18,250*                                      | -       -                                             | -       -                                             |
|                | 40                      | 79.6    18,250*                                      | -       -                                             | -       -                                             |
|                | 50                      | 76.3    18,250*                                      | 78.4    18,250*                                       | 80.4    16,720*                                       |
|                | 60                      | 73.0    18,140                                       | 75.1    17,770*                                       | 77.1    16,160*                                       |
| 140'           | 70                      | 69.7    14,540                                       | 71.7    14,540                                        | 73.6    14,550                                        |
|                | 80                      | 66.2    11,930                                       | 68.3    11,930                                        | 70.1    11,930                                        |
|                | 90                      | 62.7    9,940                                        | 64.7    9,950                                         | 66.5    9,950                                         |
|                | 100                     | 59.1    8,390                                        | 61.1    8,390                                         | 62.8    8,400                                         |
|                | 110                     | 55.3    7,130                                        | 57.2    7,130                                         | 58.9    7,140                                         |
|                | 120                     | 51.3    6,100                                        | 53.2    6,110                                         | 54.8    6,110                                         |
|                | 130                     | 47.0    5,250                                        | 48.9    5,250                                         | 50.5    5,250                                         |
|                | 140                     | 42.5    4,510                                        | 44.3    4,510                                         | 45.7    4,520                                         |

|      |     |                 |                 |                 |
|------|-----|-----------------|-----------------|-----------------|
|      | 38  | 80.7    18,250* | -       -       | -       -       |
|      | 40  | 80.1    18,250* | -       -       | -       -       |
|      | 50  | 77.0    18,250* | 79.0    18,250* | 80.9    15,440* |
|      | 60  | 73.9    17,900  | 75.9    17,900* | 77.8    15,190* |
|      | 70  | 70.8    14,310  | 72.7    14,310  | 74.6    14,310  |
|      | 80  | 67.6    11,690  | 69.5    11,690  | 71.3    11,700  |
| 150' | 90  | 64.3    9,710   | 66.2    9,710   | 67.9    9,710   |
|      | 100 | 60.9    8,150   | 62.8    8,150   | 64.4    8,150   |
|      | 110 | 57.3    6,890   | 59.2    6,890   | 60.8    6,890   |
|      | 120 | 53.7    5,860   | 55.5    5,860   | 57.1    5,860   |
|      | 130 | 49.8    5,000   | 51.6    5,000   | 53.1    5,000   |
|      | 140 | 45.7    4,260   | 47.5    4,260   | 48.9    4,270   |
|      | 150 | 41.3    3,640   | 43.0    3,640   | 44.3    3,640   |

50' Jib length

| Boom<br>length | Jib<br>Radius<br>(Feet) | 5.0 Deg offset<br>Boom Angle      Rating<br>(Pounds) | 15.0 Deg offset<br>Boom Angle      Rating<br>(Pounds) | 25.0 Deg offset<br>Boom Angle      Rating<br>(Pounds) |
|----------------|-------------------------|------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
|                | 37                      | 80.8    18,250*                                      | -       -                                             | -       -                                             |
|                | 40                      | 79.8    18,200*                                      | -       -                                             | -       -                                             |
|                | 50                      | 76.6    16,970*                                      | 79.2    14,740*                                       | -       -                                             |
|                | 60                      | 73.3    15,830*                                      | 75.9    13,950*                                       | 78.4    12,580*                                       |
| 130'           | 70                      | 69.9    14,810                                       | 72.5    13,290*                                       | 75.0    12,040*                                       |
|                | 80                      | 66.5    12,200                                       | 69.1    12,200                                        | 71.5    11,630*                                       |
|                | 90                      | 63.0    10,210                                       | 65.5    10,220                                        | 67.8    10,220                                        |
|                | 100                     | 59.3    8,650                                        | 61.9    8,650                                         | 64.1    8,660                                         |
|                | 110                     | 55.5    7,400                                        | 58.0    7,400                                         | 60.2    7,410                                         |
|                | 120                     | 51.5    6,360                                        | 54.0    6,370                                         | 56.1    6,370                                         |
|                | 130                     | 47.3    5,510                                        | 49.7    5,510                                         | 51.7    5,510                                         |

|      |     |                 |                 |                 |
|------|-----|-----------------|-----------------|-----------------|
|      | 38  | 81.0    18,250* | -       -       | -       -       |
|      | 40  | 80.4    18,250* | -       -       | -       -       |
|      | 50  | 77.3    17,190* | 79.8    14,830* | -       -       |
|      | 60  | 74.2    16,110* | 76.7    14,110* | 79.0    12,630* |
| 140' | 70  | 71.0    14,580  | 73.5    13,440* | 75.8    12,150* |
|      | 80  | 67.8    11,960  | 70.3    11,960  | 72.5    11,760* |
|      | 90  | 64.5    9,980   | 66.9    9,980   | 69.1    9,980   |
|      | 100 | 61.1    8,420   | 63.5    8,420   | 65.7    8,420   |
|      | 110 | 57.6    7,170   | 60.0    7,170   | 62.0    7,170   |
|      | 120 | 53.9    6,130   | 56.3    6,130   | 58.3    6,130   |
|      | 130 | 50.1    5,270   | 52.3    5,270   | 54.3    5,270   |
|      | 140 | 45.9    4,540   | 48.2    4,540   | 50.0    4,550   |

| Boom<br>length | Jib<br>Radius<br>(Feet) | 5.0 Deg offset<br>Boom Angle      Rating<br>(Pounds) | 15.0 Deg offset<br>Boom Angle      Rating<br>(Pounds) | 25.0 Deg offset<br>Boom Angle      Rating<br>(Pounds) |
|----------------|-------------------------|------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
|                | 39                      | 80.9    18,250*                                      | -       -                                             | -       -                                             |
|                | 40                      | 80.6    18,250*                                      | -       -                                             | -       -                                             |
|                | 50                      | 77.7    18,250*                                      | 79.6    16,450*                                       | -       -                                             |
|                | 60                      | 74.8    17,480*                                      | 76.6    15,780*                                       | 78.4    12,960*                                       |
|                | 70                      | 71.8    14,090                                       | 73.6    14,090                                        | 75.4    12,510                                        |
|                | 80                      | 68.7    11,480                                       | 70.6    11,480                                        | 72.3    11,480                                        |
| 160'           | 90                      | 65.6    9,480                                        | 67.5    9,480                                         | 69.1    9,490                                         |
|                | 100                     | 62.4    7,930                                        | 64.3    7,930                                         | 65.9    7,930                                         |
|                | 110                     | 59.2    6,670                                        | 61.0    6,670                                         | 62.5    6,670                                         |
|                | 120                     | 55.7    5,640                                        | 57.5    5,640                                         | 59.0    5,640                                         |
|                | 130                     | 52.2    4,770                                        | 53.9    4,770                                         | 55.4    4,770                                         |
|                | 140                     | 48.4    4,040                                        | 50.2    4,040                                         | 51.6    4,050                                         |
|                | 150                     | 44.5    3,410                                        | 46.1    3,420                                         | 47.5    3,420                                         |
|                | 160                     | 40.2    2,870                                        | 41.8    2,870                                         | 43.0    2,880                                         |

|      |     |                 |                 |                 |
|------|-----|-----------------|-----------------|-----------------|
|      | 42  | 80.7    18,250* | -       -       | -       -       |
|      | 50  | 78.5    17,480* | 80.8    14,960* | -       -       |
|      | 60  | 75.7    16,500* | 78.0    14,360* | 80.1    11,540* |
|      | 70  | 72.9    14,120  | 75.1    13,740* | 77.2    11,230* |
|      | 80  | 70.0    11,500  | 72.3    11,500  | 74.3    10,820* |
|      | 90  | 67.1    9,510   | 69.3    9,510   | 71.3    9,510   |
| 160' | 100 | 64.1    7,950   | 66.3    7,960   | 68.3    7,960   |
|      | 110 | 61.0    6,690   | 63.2    6,690   | 65.1    6,700   |
|      | 120 | 57.8    5,660   | 60.0    5,660   | 61.8    5,670   |
|      | 130 | 54.5    4,800   | 56.6    4,800   | 58.5    4,810   |
|      | 140 | 51.1    4,060   | 53.1    4,060   | 54.9    4,070   |
|      | 150 | 47.4    3,430   | 49.5    3,440   | 51.2    3,440   |
|      | 160 | 43.5    2,890   | 45.5    2,890   | 47.1    2,900   |

# NOTES TO LIFTING CAPACITY

## Jib Chart Information, #9

### #9 Jib Composition Chart

| Jib length<br>(feet) | 10' Inner | 10' Center | 10' Outer | Eff. jib weight<br>(pounds) |
|----------------------|-----------|------------|-----------|-----------------------------|
| 20                   | 1         | 0          | 1         | 1.550                       |
| 30                   | 1         | 1          | 1         | 2.100                       |
| 40                   | 1         | 2          | 1         | 2.800                       |
| 50                   | 1         | 3          | 1         | 3.600                       |

| 46 HI Boom<br>Maximum Boom & Jib Self-Erection Data |                       |                      |
|-----------------------------------------------------|-----------------------|----------------------|
| Over-the-End & Over-the-Side                        |                       |                      |
| Jib                                                 | Boom length<br>(feet) | Jib length<br>(feet) |
| #9                                                  | 160                   | 50                   |

| Load Hoisting Information – 7/8 Inch Diameter EIPS Wire Rope |                          |                                  |                 |
|--------------------------------------------------------------|--------------------------|----------------------------------|-----------------|
| Maximum Lifting<br>Capacity (lb)                             | Minimum<br>Parts of line | Maximum hoisting distance (feet) |                 |
|                                                              |                          | Main hoist                       | Auxiliary hoist |
| 18,250                                                       | 1                        | 588                              | 588             |



## Hydraulic Crawler Crane

### Maximum lifting capacity

80 tons.

### Boom systems

47HI Boom with Offset Tip

- 200 ft maximum boom length.
- 230 ft maximum boom and jib combination length.
- 47 HI Tubular chord boom, pin connected.
- 20 ft inner and 20 ft outer and 10 ft / 20 ft / 30 ft available inserts provide boom compositions in 10 ft increments from 40 ft to 200 ft.

46HI Angle Boom with 4 Sheave Tip

- 160 ft maximum boom length.
- 200 ft maximum boom and jib combination length.
- 46 HI Angle Boom, pin connected.
- 20 ft inner and 20 ft outer and 10 ft / 20 ft / 40 ft available inserts provide boom compositions in 10 ft increments from 40 ft to 160 ft.

### Robust engine

- Cummins QSB 6.7, Tier3, 185 HP @ 2,200 rpm, 6 cylinder, water-cooled, fuel injected diesel with an intercooled, turbo-charger.
- 60 gallon fuel tank.

### Environmental operator's cab

- Designed to provide excellent viewing range and quiet, comfortable operation.
- 37 inch wide cab has wide curve 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 as shockless stop system. Operator can select from three display modes: loaded condition diagram, rated lifting curve or rated lifting load table.
- Adjustable operator's seat, radio, air conditioner, overhead window, sun visor, fan, overhead and front wipers and drum rotation indicators are standard.

### Heavy duty carbody and crawlers

- Fabricated steel carbody is deep box constructed with square axles for the crawler side frames. Precision machined top supports anti-friction swing circle and multiple pass hydraulic swivel joint.
- Crawlers have high alloy steel tumbler yokes and rigid fabricated structures with sealed rollers.
- 36" crawler shoes.
- Travel mechanism is set within shoe width.
- Side frames extended or retracted by cylinders inside the carbody.
- Two travel speed settings – 0.8 / 1.24 mph.
- 40 % (22°) gradeability.

### Powerful, high-speed hoist system

- Identical inline, independent main and auxiliary load hoisting drums are grooved for 7/8 in. diameter rope. Line speed is 530 fpm, line pull is 32,400 lb.
- Each drum, including optional third, has power up/down and freefall. Load hoists are further controllable in stepless mode.
- Ample work space in front of the drums allows easy access for cable installation and maintenance.
- Internal expanding band clutch.
- 3.3 rpm swing speed.

### High capacity, dependable hydraulic system

- Open circuit system has 2 variable displacement piston pumps with system capacity of 116 gpm.
- Hydraulic reservoir with 79 gallons capacity and 10 micron filtration.
- Component working range is between -4 and 203° F.
- Flip up doors provide easy access to engine and hydraulic components for service.

### Three piece removable counterweight

- Three piece pin connected counterweight can be assembled or disassembled easily within minutes.
- Hydraulic counterweight removal system is standard and utilizes the „A“ frame and crane auxiliary drum to make the HC 80 one of the most transportable cranes in its class.
- Moves on three trucks with full boom and #9HL jib. Carbody sideframes and boom weigh in at under 88,000 lb. At 11 ft 9.75 in. wide and 10 ft 2 in. high, the HC 80 at working weight will transport on a standard lowboy trailer.

### Options include

- Third drum
- Automotive type lights
- Hydraulic power take off
- Jib and jib inserts
- Luffing jib attachment
- Single sheave extension

# TRANSPORT EXAMPLE FOR HC 80

**HC 80**

## 170' 47HI Boom and 60' #9HL jib

Loads based on 48 ft flatbed trailer. Loading information is an example only, specific loads will vary depending on crane options. Weights shown do **NOT** include blocking or tie-down material.

### LOAD NO. 1

|                                                        |                  |
|--------------------------------------------------------|------------------|
| 3 x 47 H 30' Boom Center Sections @ 2,045 # each ..... | 6,135 lb         |
| Inside Counterweight .....                             | 16,000 lb        |
| #9HL 20' Jib Center .....                              | 385 lb           |
| Center Counterweight .....                             | 21,000 lb        |
| 1 x 47 H 10' Boom Center Sections .....                | 700 lb           |
| <b>TOTAL LOAD .....</b>                                | <b>44,220 lb</b> |

### LOAD NO. 2

|                                        |                  |
|----------------------------------------|------------------|
| Outside Counterweight .....            | 21,000 lb        |
| 47HI Boom Outer .....                  | 2,225 lb         |
| 47 H 30' Boom Center .....             | 2,045 lb         |
| #9HL Jib Inner .....                   | 890 lb           |
| #9HL Jib Outer .....                   | 665 lb           |
| Crate, Misc. Parts, Block & Ball ..... | 3,500 lb         |
| <b>TOTAL LOAD .....</b>                | <b>30,325 lb</b> |

### LOAD NO. 3

#### Basic Upper, including:

|                                             |                  |
|---------------------------------------------|------------------|
| a) Carbody                                  |                  |
| b) Sideframes                               |                  |
| c) Boom Inner                               |                  |
| <b>TOTAL LOAD (BASIC CRANE, etc.) .....</b> | <b>88,000 lb</b> |

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Terex Cranes, Global Marketing, Dinglerstraße 24, 66482 Zweibrücken, Germany  
Tel. +49 (0) 6332 830, Email: [info.cranes@terex.com](mailto:info.cranes@terex.com), [www.terexcranes.com](http://www.terexcranes.com)

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