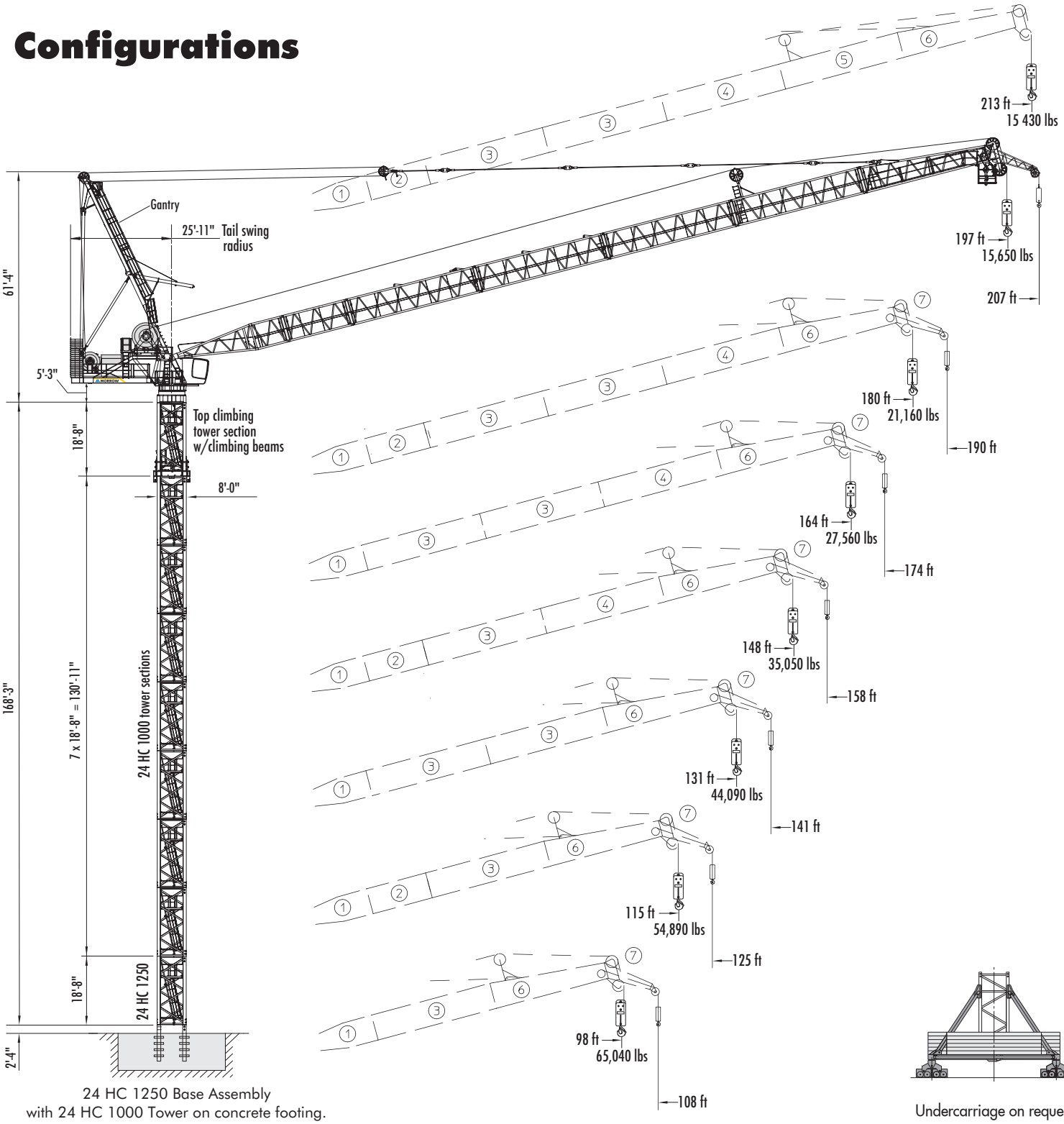
# 710 HC-L 32/64 Litronic®

## LIEBHERR Luffing Boom Tower Crane

## Fly-Jib

## Configurations

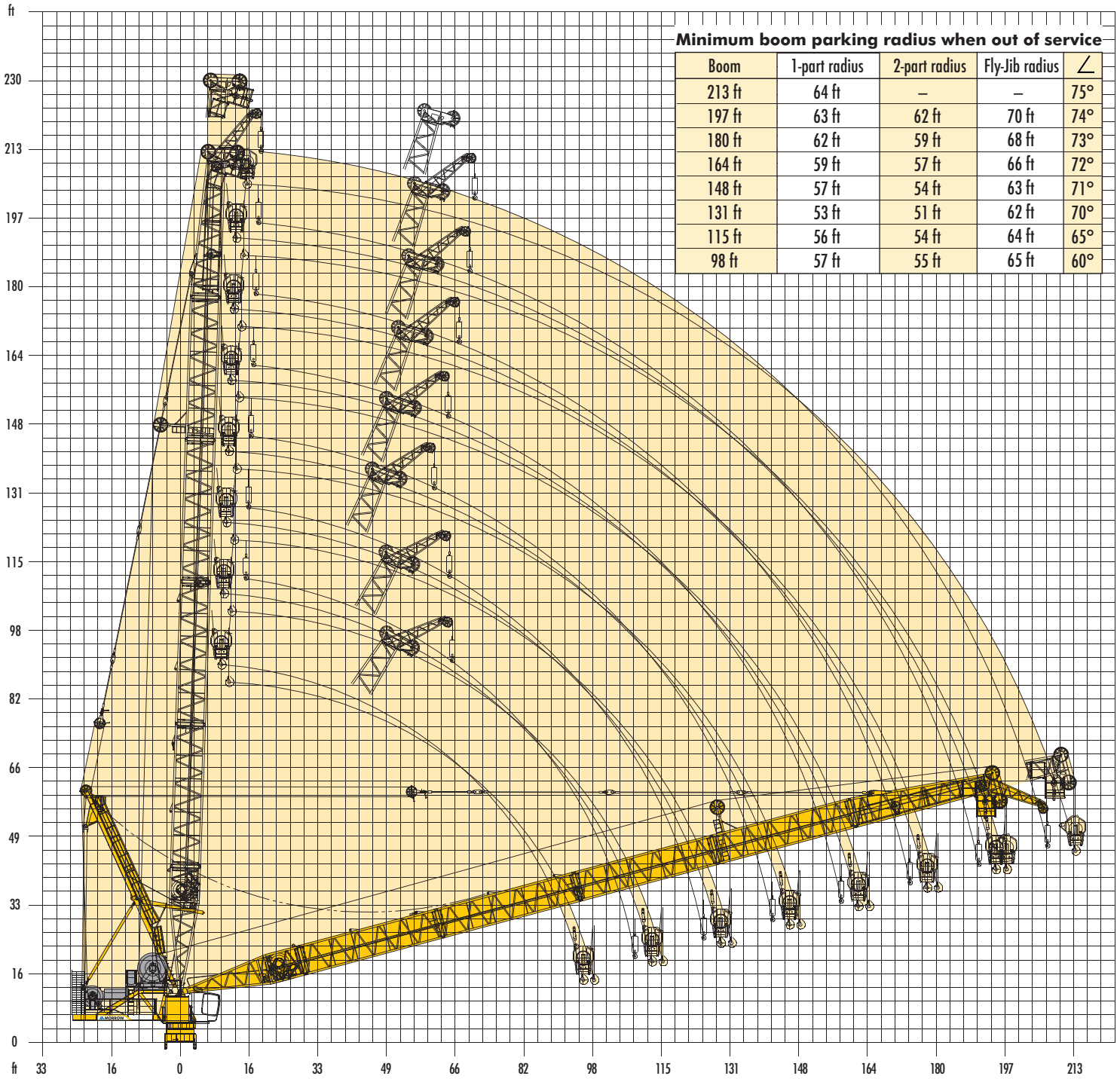



24 HC 1250 Base Assembly
with 24 HC 1000 Tower on concrete footing.



Undercarriage on request

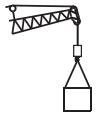
# Fly-Jib Radius and Hoisting Height




**Minimum boom parking radius when out of service**

| Boom | 1-part radius | 2-part radius | Fly-Jib radius | ∠ |
|---|---|---|---|---|
| 213 ft | 64 ft | – | – | 75° |
| 197 ft | 63 ft | 62 ft | 70 ft | 74° |
| 180 ft | 62 ft | 59 ft | 68 ft | 73° |
| 164 ft | 59 ft | 57 ft | 66 ft | 72° |
| 148 ft | 57 ft | 54 ft | 63 ft | 71° |
| 131 ft | 53 ft | 51 ft | 62 ft | 70° |
| 115 ft | 56 ft | 54 ft | 64 ft | 65° |
| 98 ft | 57 ft | 55 ft | 65 ft | 60° |

# Radius and Capacities without Fly-Jib Installed



## 1-part 32t operation

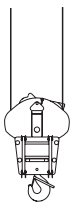
| Boom Assembly | Maximum Capacity – Radius | Min. Hook Radius | ft | 66 | 82 | 98 | 115 | 131 | 148 | 164 | 180 | 197 | 213 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 213 ft | 70,550 lbs – 78 ft | 13 ft | lbs | 70,550 | 66,620 | 53,620 | 44,050 | 36,710 | 30,840 | 26,040 | 21,980 | 18,540 | 15,430 |
| 197 ft | 70,550 lbs – 85 ft | 13 ft | lbs | 70,550 | 70,550 | 58,930 | 48,480 | 40,450 | 34,040 | 28,770 | 24,320 | 20,390 | |
| 180 ft | 70,550 lbs – 90 ft | 13 ft | lbs | 70,550 | 70,550 | 63,540 | 52,340 | 43,700 | 36,800 | 31,090 | 26,120 | | |
| 164 ft | 70,550 lbs – 95 ft | 13 ft | lbs | 70,550 | 70,550 | 67,970 | 55,910 | 46,610 | 39,130 | 32,740 | | | |
| 148 ft | 70,550 lbs – 100 ft | 13 ft | lbs | 70,550 | 70,550 | 70,550 | 58,860 | 48,900 | 40,450 | | | | |
| 131 ft | 70,550 lbs – 104 ft | 13 ft | lbs | 70,550 | 70,550 | 70,550 | 61,270 | 49,710 | | | | | |
| 115 ft | 70,550 lbs – 107 ft | 13 ft | lbs | 70,550 | 70,550 | 70,550 | 60,630 | | | | | | |
| 98 ft | 70,550 lbs – 97 ft | 13 ft | lbs | 70,550 | 70,550 | 69,890 | | | | | | | |





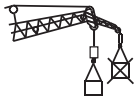
## 2-part 64t operation

| Boom Assembly | Maximum Capacity – Radius | Min. Hook Radius | ft | 66 | 82 | 97 | 113 | 129 | 146 | 162 | 178 | 195 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 197 ft | 105,820 lbs – 55 ft | 13 ft | lbs | 87,700 | 67,460 | 53,350 | 43,190 | 35,270 | 28,880 | 23,700 | 19,290 | 15,980 |
| 180 ft | 119,050 lbs – 53 ft | 13 ft | lbs | 94,340 | 72,730 | 57,720 | 46,780 | 38,320 | 31,530 | 25,880 | 21,720 | |
| 164 ft | 132,280 lbs – 51 ft | 13 ft | lbs | 100,070 | 77,250 | 61,380 | 49,820 | 40,850 | 33,620 | 28,330 | | |
| 148 ft | 141,100 lbs – 50 ft | 13 ft | lbs | 105,270 | 81,260 | 64,570 | 52,360 | 42,840 | 36,050 | | | |
| 131 ft | 141,100 lbs – 52 ft | 13 ft | lbs | 109,000 | 84,150 | 66,840 | 54,120 | 45,300 | | | | |
| 115 ft | 141,100 lbs – 53 ft | 13 ft | lbs | 112,105 | 85,850 | 67,460 | 55,340 | | | | | |
| 98 ft | 141,100 lbs – 53 ft | 13 ft | lbs | 111,050 | 83,670 | 66,360 | | | | | | |



# Radius and Capacities with Fly-Jib Installed

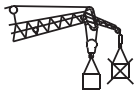
Main hook only, auxiliary out of service



## 1-part 32t operation

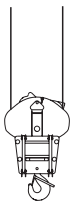
| Boom Assembly | Maximum Capacity – Radius | Min. Hook Radius | ft | 66 | 82 | 98 | 115 | 131 | 148 | 164 | 180 | 197 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 197 ft | 70,550 lbs – 80 ft | 13 ft | lbs | 70,550 | 68,370 | 53,680 | 43,100 | 35,100 | 28,790 | 23,660 | 19,400 | 15,650 |
| 180 ft | 70,550 lbs – 85 ft | 13 ft | lbs | 70,550 | 70,550 | 58,380 | 46,980 | 38,340 | 31,530 | 25,970 | 21,160 | |
| 164 ft | 70,550 lbs – 90 ft | 13 ft | lbs | 70,550 | 70,550 | 62,790 | 50,530 | 41,200 | 33,820 | 27,560 | | |
| 148 ft | 70,550 lbs – 95 ft | 13 ft | lbs | 70,550 | 70,550 | 67,020 | 53,660 | 43,450 | 35,050 | | | |
| 131 ft | 70,550 lbs – 98 ft | 13 ft | lbs | 70,550 | 70,550 | 70,220 | 55,670 | 44,090 | | | | |
| 115 ft | 70,550 lbs – 102 ft | 13 ft | lbs | 70,550 | 70,550 | 70,550 | 54,890 | | | | | |
| 98 ft | 70,550 lbs – 94 ft | 13 ft | lbs | 70,550 | 70,550 | 65,040 | | | | | | |





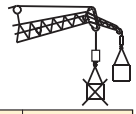
## 2-part 64t operation

| Boom Assembly | Maximum Capacity – Radius | Min. Hook Radius | ft | 66 | 82 | 96 | 113 | 129 | 146 | 162 | 178 | 195 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 197 ft | 105,820 lbs – 53 ft | 13 ft | lbs | 81,620 | 60,910 | 47,000 | 36,930 | 29,260 | 23,190 | 18,250 | 14,130 | 11,020 |
| 180 ft | 119,050 lbs – 51 ft | 13 ft | lbs | 87,460 | 65,660 | 51,010 | 40,390 | 32,280 | 25,880 | 20,640 | 16,750 | |
| 164 ft | 132,280 lbs – 49 ft | 13 ft | lbs | 93,720 | 70,550 | 54,940 | 43,650 | 35,010 | 28,150 | 23,150 | | |
| 148 ft | 141,100 lbs – 48 ft | 13 ft | lbs | 97,910 | 73,940 | 57,780 | 46,050 | 37,040 | 30,640 | | | |
| 131 ft | 141,100 lbs – 50 ft | 13 ft | lbs | 101,960 | 77,140 | 60,360 | 48,130 | 39,680 | | | | |
| 115 ft | 141,100 lbs – 51 ft | 13 ft | lbs | 104,630 | 78,660 | 61,020 | 49,380 | | | | | |
| 98 ft | 141,100 lbs – 52 ft | 13 ft | lbs | 104,100 | 76,830 | 59,970 | | | | | | |



# Radius and Capacities with Fly-Jib Installed

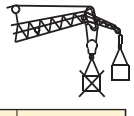
Auxiliary hook only



## 1-part main hook out of service

| Boom Assembly | Maximum Capacity – Radius | Min. Hook Radius | ft | 75 | 92 | 108 | 125 | 141 | 158 | 174 | 190 | 207 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 197 ft | 28,880 lbs – 152 ft | 19 ft | lbs | 28,880 | 28,880 | 28,880 | 28,880 | 28,880 | 26,900 | 22,400 | 18,670 | 15,430 |
| 180 ft | 28,880 lbs – 158 ft | 19 ft | lbs | 28,880 | 28,880 | 28,880 | 28,880 | 28,880 | 28,880 | 24,340 | 20,280 | |
| 164 ft | 28,880 lbs – 163 ft | 19 ft | lbs | 28,880 | 28,880 | 28,880 | 28,880 | 28,880 | 28,880 | 25,570 | | |
| 148 ft | 28,880 lbs – 158 ft | 19 ft | lbs | 28,880 | 28,880 | 28,880 | 28,880 | 28,880 | 28,880 | | | |
| 131 ft | 28,880 lbs – 141 ft | 19 ft | lbs | 28,880 | 28,880 | 28,880 | 28,880 | 28,880 | | | | |
| 115 ft | 28,880 lbs – 125 ft | 19 ft | lbs | 28,880 | 28,880 | 28,880 | 28,880 | | | | | |
| 98 ft | 28,880 lbs – 108 ft | 19 ft | lbs | 28,880 | 28,880 | 28,880 | | | | | | |





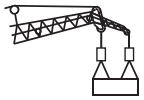
## 2-part main hook out of service

| Boom Assembly | Maximum Capacity – Radius | Min. Hook Radius | ft | 25 | 92 | 108 | 125 | 141 | 158 | 174 | 190 | 207 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 197 ft | 28,880 lbs – 139 ft | 19 ft | lbs | 28,880 | 28,880 | 28,880 | 28,880 | 28,060 | 22,970 | 18,870 | 15,500 | 12,570 |
| 180 ft | 28,880 lbs – 146 ft | 19 ft | lbs | 28,880 | 28,880 | 28,880 | 28,880 | 28,880 | 25,330 | 21,050 | 17,420 | |
| 164 ft | 28,880 lbs – 154 ft | 19 ft | lbs | 28,880 | 28,880 | 28,880 | 28,880 | 28,880 | 27,690 | 23,150 | | |
| 148 ft | 28,880 lbs – 158 ft | 19 ft | lbs | 28,880 | 28,880 | 28,880 | 28,880 | 28,880 | 28,880 | | | |
| 131 ft | 28,880 lbs – 141 ft | 19 ft | lbs | 28,880 | 28,880 | 28,880 | 28,880 | 28,880 | | | | |
| 115 ft | 28,880 lbs – 125 ft | 19 ft | lbs | 28,880 | 28,880 | 28,880 | 28,880 | | | | | |
| 98 ft | 28,880 lbs – 108 ft | 19 ft | lbs | 28,880 | 28,880 | 28,880 | | | | | | |



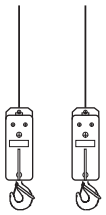
# Radius and Capacities with Fly-Jib Installed

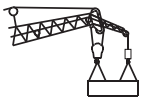
Main hook and auxiliary hook in service[1]



## 1-part main hook and auxiliary hook-combined lift[2]

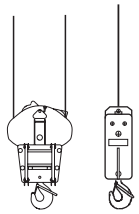
| Boom Assembly | Max. Combined Capacity Radius | Min. Hook Radius | ft | 76 | 92 | 108 | 125 | 141 | 158 | 174 | 190 | 207 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 197 ft | 43,430 lbs - 116 ft | 19 ft | lbs | 43,430 | 43,430 | 43,430 | 38,400 | 31,170 | 25,570 | 21,050 | 17,350 | 14,110 |
| 180 ft | 43,430 lbs - 122 ft | 19 ft | lbs | 43,430 | 43,430 | 43,430 | 41,980 | 34,170 | 28,090 | 23,170 | 18,960 | |
| 164 ft | 43,430 lbs - 129 ft | 19 ft | lbs | 43,430 | 43,430 | 43,430 | 43,430 | 37,170 | 30,250 | 24,470 | | |
| 148 ft | 43,430 lbs - 130 ft | 19 ft | lbs | 43,430 | 43,430 | 43,430 | 43,430 | 37,260 | 29,760 | | | |
| 131 ft | 43,430 lbs - 130 ft | 19 ft | lbs | 43,430 | 43,430 | 43,430 | 43,430 | 36,600 | | | | |
| 115 ft | 43,430 lbs - 125 ft | 19 ft | lbs | 43,430 | 43,430 | 43,430 | 43,430 | | | | | |
| 98 ft | 43,430 lbs - 109 ft | 19 ft | lbs | 43,430 | 43,430 | 43,430 | | | | | | |





## 2-part main hook and auxiliary hook-combined lift[2]

| Boom Assembly | Max. Combined Capacity - Radius | Min. Hook Radius | ft | 76 | 92 | 108 | 125 | 141 | 158 | 174 | 190 | 207 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 197 ft | 43,430 lbs - 106 ft | 19 ft | lbs | 43,430 | 43,430 | 43,430 | 32,580 | 25,770 | 20,500 | 16,250 | 12,740 | 9,700 |
| 180 ft | 43,430 lbs - 112 ft | 19 ft | lbs | 43,430 | 43,430 | 43,430 | 36,090 | 28,790 | 23,080 | 18,470 | 14,550 | |
| 164 ft | 43,430 lbs - 119 ft | 19 ft | lbs | 43,430 | 43,430 | 43,430 | 40,150 | 32,100 | 25,790 | 20,500 | | |
| 148 ft | 43,430 lbs - 123 ft | 19 ft | lbs | 43,430 | 43,430 | 43,430 | 42,260 | 33,800 | 26,900 | | | |
| 131 ft | 43,430 lbs - 124 ft | 19 ft | lbs | 43,430 | 43,430 | 43,430 | 42,790 | 33,290 | | | | |
| 115 ft | 43,430 lbs - 123 ft | 19 ft | lbs | 43,430 | 43,430 | 43,430 | 42,110 | | | | | |
| 98 ft | 43,430 lbs - 109 ft | 19 ft | lbs | 43,430 | 43,430 | 43,430 | | | | | | |

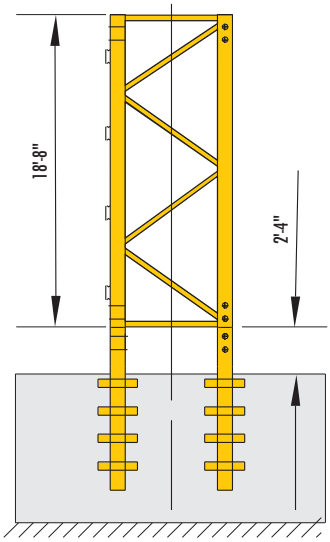


[1] The use of the main and auxiliary hooks together is designed for maneuvering applications only, such as lifting and rotating pre-cast or other components.

[2] These radius and capacity charts apply only to combined use of main and auxiliary hooks. Maximum load allowed on auxiliary hook is 28,880 lbs.

# Tower Heights on Concrete Footing

Fly-Jib Installed




| 197 ft Boom 24 HC 1000 | |
|---|---|
| **No. of Sections** | **Tower Height** |
| 1 | 21 ft |
| 2 | 40 ft |
| 3 | 58 ft |
| 4 | 77 ft |
| 5 | 96 ft |
| 6 | 115 ft |
| 7 | 133 ft |
| 8* | 152 ft |
| 9* | 171 ft[1] |
| – | – |
| – | – |
| – | – |
| – | – |

| 180 ft Boom 24 HC 1000/24 HC 1250 | |
|---|---|
| **No. of Sections** | **Tower Height** |
| 1 | 21 ft |
| 2 | 40 ft |
| 3 | 58 ft |
| 4 | 77 ft |
| 5 | 96 ft |
| 6 | 115 ft |
| 7 | 133 ft |
| 8 | 152 ft |
| 9* | 171 ft |
| 10* | 189 ft[2] |
| – | – |
| – | – |
| – | – |

| 164 ft Boom 24 HC 1000/24 HC 1250 | |
|---|---|
| **No. of Sections** | **Tower Height** |
| 1 | 21 ft |
| 2 | 40 ft |
| 3 | 58 ft |
| 4 | 77 ft |
| 5 | 96 ft |
| 6 | 115 ft |
| 7 | 133 ft |
| 8 | 152 ft |
| 9* | 171 ft |
| 10* | 189 ft[1] |
| – | – |
| – | – |
| – | – |

| 148 ft Boom 24 HC 1000/24 HC 1250 | |
|---|---|
| **No. of Sections** | **Tower Height** |
| 1 | 21 ft |
| 2 | 40 ft |
| 3 | 58 ft |
| 4 | 77 ft |
| 5 | 96 ft |
| 6 | 115 ft |
| 7 | 133 ft |
| 8 | 152 ft |
| 9 | 171 ft |
| 10* | 189 ft[1] |
| 11* | 208 ft[2] |
| – | – |
| – | – |

| 131 ft Boom 24 HC 1000/24 HC 1250 | |
|---|---|
| **No. of Sections** | **Tower Height** |
| 1 | 21 ft |
| 2 | 40 ft |
| 3 | 58 ft |
| 4 | 77 ft |
| 5 | 96 ft |
| 6 | 115 ft |
| 7 | 133 ft |
| 8 | 152 ft |
| 9 | 171 ft |
| 10* | 189 ft |
| 11* | 208 ft[2] |
| – | – |
| – | – |

| 115 ft Boom 24 HC 1000/24 HC 1250 | |
|---|---|
| **No. of Sections** | **Tower Height** |
| 1 | 21 ft |
| 2 | 40 ft |
| 3 | 58 ft |
| 4 | 77 ft |
| 5 | 96 ft |
| 6 | 115 ft |
| 7 | 133 ft |
| 8 | 152 ft |
| 9 | 171 ft |
| 10* | 189 ft |
| 11* | 208 ft[1] |
| 12* | 227 ft[3] |
| – | – |

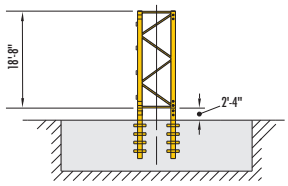
| 98 ft Boom 24 HC 1000/24 HC 1250 | |
|---|---|
| **No. of Sections** | **Tower Height** |
| 1 | 21 ft |
| 2 | 40 ft |
| 3 | 58 ft |
| 4 | 77 ft |
| 5 | 96 ft |
| 6 | 115 ft |
| 7 | 133 ft |
| 8 | 152 ft |
| 9 | 171 ft |
| 10 | 189 ft |
| 11* | 208 ft[1] |
| 12* | 227 ft[2] |
| – | – |

***NOTE:** Top climbing unit must be lowered to base of tower prior to crane being put into operation. Alternate tower combinations possible. Contact Morrow for information.

[1] One (1) 24 HC 1250 base tower.
[2] Two (2) 24 HC 1250 base towers.
[3] Three (3) 24 HC 1250 base towers.

# Tower Heights on Concrete Footing

Fly-Jib not Installed




| 213 ft Boom 24 HC 1000/24 HC 1250 | |
|---|---|
| **No. of Sections** | **Tower Height** |
| 1 | 21 ft |
| 2 | 40 ft |
| 3 | 58 ft |
| 4 | 77 ft |
| 5 | 96 ft |
| 6 | 115 ft |
| 7 | 133 ft |
| 8* | 152 ft |
| 9* | 171 ft[1] |
| – | – |
| – | – |
| – | – |
| – | – |

| 197 ft Boom 24 HC 1000 | |
|---|---|
| **No. of Sections** | **Tower Height** |
| 1 | 21 ft |
| 2 | 40 ft |
| 3 | 58 ft |
| 4 | 77 ft |
| 5 | 96 ft |
| 6 | 115 ft |
| 7 | 133 ft |
| 8 | 152 ft |
| 9* | 171 ft[1] |
| – | – |
| – | – |
| – | – |
| – | – |

| 180 ft Boom 24 HC 1000/24 HC 1250 | |
|---|---|
| **No. of Sections** | **Tower Height** |
| 1 | 21 ft |
| 2 | 40 ft |
| 3 | 58 ft |
| 4 | 77 ft |
| 5 | 96 ft |
| 6 | 115 ft |
| 7 | 133 ft |
| 8 | 152 ft |
| 9* | 171 ft |
| 10* | 189 ft[1] |
| – | – |
| – | – |
| – | – |

| 164 ft Boom 24 HC 1000/24 HC 1250 | |
|---|---|
| **No. of Sections** | **Tower Height** |
| 1 | 21 ft |
| 2 | 40 ft |
| 3 | 58 ft |
| 4 | 77 ft |
| 5 | 96 ft |
| 6 | 115 ft |
| 7 | 133 ft |
| 8 | 152 ft |
| 9 | 171 ft |
| 10* | 189 ft |
| 11* | 208 ft[2] |
| – | – |
| – | – |

| 148 ft Boom 24 HC 1000/24 HC 1250 | |
|---|---|
| **No. of Sections** | **Tower Height** |
| 1 | 21 ft |
| 2 | 40 ft |
| 3 | 58 ft |
| 4 | 77 ft |
| 5 | 96 ft |
| 6 | 115 ft |
| 7 | 133 ft |
| 8 | 152 ft |
| 9 | 171 ft |
| 10* | 189 ft |
| 11* | 208 ft[2] |
| – | – |
| – | – |

| 131 ft Boom 24 HC 1000/24 HC 1250 | |
|---|---|
| **No. of Sections** | **Tower Height** |
| 1 | 21 ft |
| 2 | 40 ft |
| 3 | 58 ft |
| 4 | 77 ft |
| 5 | 96 ft |
| 6 | 115 ft |
| 7 | 133 ft |
| 8 | 152 ft |
| 9 | 171 ft |
| 10* | 189 ft |
| 11* | 208 ft[2] |
| 12* | 227 ft[3] |
| – | – |

| 115 ft Boom 24 HC 1000/24 HC 1250 | |
|---|---|
| **No. of Sections** | **Tower Height** |
| 1 | 21 ft |
| 2 | 40 ft |
| 3 | 58 ft |
| 4 | 77 ft |
| 5 | 96 ft |
| 6 | 115 ft |
| 7 | 133 ft |
| 8 | 152 ft |
| 9 | 171 ft |
| 10 | 189 ft |
| 11* | 208 ft |
| 12* | 227 ft[3] |
| – | – |

| 98 ft Boom 24 HC 1000/24 HC 1250 | |
|---|---|
| **No. of Sections** | **Tower Height** |
| 1 | 21 ft |
| 2 | 40 ft |
| 3 | 58 ft |
| 4 | 77 ft |
| 5 | 96 ft |
| 6 | 115 ft |
| 7 | 133 ft |
| 8 | 152 ft |
| 9 | 171 ft |
| 10 | 189 ft |
| 11* | 208 ft |
| 12* | 227 ft[2] |
| 13* | 245 ft[3] |

***NOTE:** Top climbing unit must be lowered to base of tower prior to crane being put into operation. Alternate tower combinations possible. Contact Morrow for information.

[1] One (1) 24 HC 1250 base tower.
[2] Two (2) 24 HC 1250 base towers.
[3] Three (3) 24 HC 1250 base towers.

## Hoist Speed and Capacity - Main Hook

| Hoist Drive WiW 330 WZ 402 | 1-Part Operation | | |
|---|---|---|---|
| 2x 147 hp [294 hp] AC hoist unit<br>2x 110 kW [220 kW]<br>Variable frequency drive (VFD)<br>2-speed SD.Shift<br>4 layers | **Speed** | **Capacity** | **Hook Speed** |
| | 1 | up to 70,550 lbs<br>up to 17,200 lbs | @ 115 fpm<br>@ 374 fpm |
| | 2 | up to 31,970 lbs<br>up to 6,170 lbs | @ 233 fpm<br>@ 637 fpm |
| | **2-Part Operation** | | |
| | 1 | up to 141,100 lbs<br>up to 38,140 lbs | @ 59 fpm<br>@ 187 fpm |
| 1P - 4L350<br>2P - 4L175 | 2 | up to 66,140 lbs<br>up to 19,180 lbs | @ 118 fpm<br>@ 318 fpm |

**NOTE:** Maximum main hook height is 3,500 ft for 1-part operation and 1,750 ft for 2-part operation. Capacities and line speeds indicated will vary depending on the amount of hoist rope installed. This crane model may be equipped with hoist units other than that specified in the data above. To verify, check the serial number of the crane and refer to the Liebherr 710 HC-L 32/64 Instruction Manual for additional information.

## Hoist Speed and Capacity - Auxiliary Hook

| Hoist Drive - Auxiliary WiW 300 WZ 405 | 1-Part Operation | | |
|---|---|---|---|
| 147 hp AC hoist unit<br>110 kW<br>Variable frequency drive (VFD)<br>2-speed SD.Shift<br>2 layers | **Speed** | **Capacity** | **Hook Speed** |
| | 1 | up to 28,880 lbs<br>up to 8,820 lbs | @ 141 fpm<br>@ 394 fpm |
| | 2 | up to 15,650 lbs<br>up to 4,190 lbs | @ 243 fpm<br>@ 666 fpm |

**NOTE:** Maximum auxiliary hook height is 1,680 ft.

## Drive Information

| Drive Unit | Horsepower | Kilowatts | Speed* |
|---|---|---|---|
| Luffing* (VFD) | 215 | 160 | 1.4 – 2 min |
| Swing (VFD) | 2 x 14.7 | 2 x 11 | 0.6 rpm |
| Travelling | Information available upon request | | |

***NOTE:** Luffing speed shown is for a typical working range of 15° to 75° with load. Luffing speeds are variable. Factors such as hook load, boom length will affect speed.

## Power Requirements

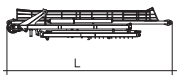
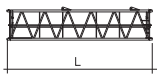
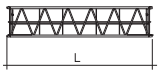
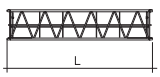
**Power supply:** 3-phase 480 V, 60 Hz; 3-wire plus ground; no Neutral.
480 V phase-phase, 277 V each phase to ground with 120° phase shift between phases.
**Service size:** 500 Amperes

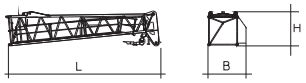
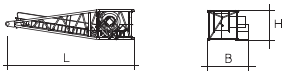
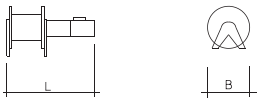
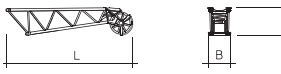
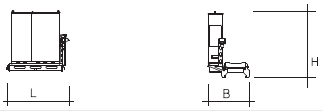
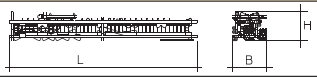
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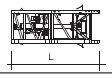
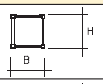
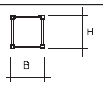
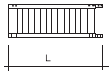
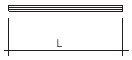
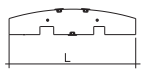
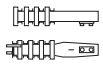
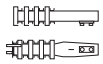
1. For electric power provided by an electric utility, do not use open Delta transformers.
2. For electric power provided by a generator, the minimum generator size required is 550kW. Verify the generator provided is suitable for use with variable frequency drives (VFDs). A properly sized generator is critical to the safe operation of the crane.

# Weights and Dimensions

Erection weights: see instruction manual.

| Item | Qty. | Upper part of crane | | Dimensions L x W x H | Weight |
|---|---|---|---|---|---|
| 1 | 1 | Slewing ring support |  | 7′-7″ x 7′-7″ x 4′-2″ | 10,160 lbs |
| 2 | 1 | Frame |  | 9′-3″ x 7′-6″ x 7′-10″ | 8,530 lbs |
| 3 | 1 | Slewing platform with roller slewing ring and slewing ring support |  | 10′-11″ x 7′-7″ x 8′-6″ | 31,370 lbs |
| 4 | 1 | Slewing platform with roller slewing ring and slewing ring support and frame |  | 15′-6″ x 8′-6″ x 7′-11″ | 39,570 lbs |
| 5 | 1 | Machinery platform with luffing gear [1] 215 hp (160 kW) |  | 23′-10″ x 7′-7″ x 8′-5″ | 36,550 lbs |
| 5.1 | 1 | Machinery platform without luffing gear |  | 23′-10″ x 7′-7″ x 8′-5″ | 24,100 lbs |
| 6 | 1 | Hoist gear platform with hoist gear [1] 2 x 147 hp (2 x 110 kW) |  | 15′-7″ x 7′-6″ x 8′-5″ | 26,810 lbs |
| 6.1 | 1 | Hoist gear platform without hoist gear |  | 15′-7″ x 7′-6″ x 4′-6″ | 6,420 lbs |
| 7 | 1 | Operator's cab with platform |  | 13′-11″ x 5′-1″ x 8′-5″ | 2,745 lbs |
| 8 | 2 | Side platform |  | 18′-1″ x 3′-11″ x 5′-3″ | 925 lbs |
| 9 | 1 | Jib retaining frame |  | 39′-8″ x 7′-5″ x 7′-10″ | 22,270 lbs |
| 10 | 1 | Boom butt section without Fly-Jib drive unit ① |  | 30′-11″ x 7′-5″ x 7′-10″ | 9,530 lbs |
| 11 | 1 | Intermediate boom section ② |  | 17′-8″ x 7′-5″ x 7′-2″ | 3,100 lbs |
| 12 | 2 | Intermediate boom section ③ |  | 34′-8″ x 7′-5″ x 7′-10″ | 6,570 lbs |
| 13 | 1 | Intermediate boom section ④ |  | 34′-8″ x 7′-5″ x 7′-2″ | 5,135 lbs |
| 14 | 1 | Intermediate boom section ⑤ |  | 34′-8″ x 7′-5″ x 7′-2″ | 5,270 lbs |

| Item | Qty. | | | Dimensions L x W x H | Weight |
|---|---|---|---|---|---|
| 15 | 1 | Boom tip section prepared for Fly-Jib | ⑥  | 37′-1″ x 9′-1″ x 8′-4″ | 9,835 lbs |
| 16 | 1 | Hook block (two part) |  | 9′-10″ x 5′-1″ x 2′-10″ | 5,730 lbs |
| 17 | 1 | Luffing block |  | 4′-9″ x 4′-8″ x 3′-9″ | 1,675 lbs |
| **Fly-Jib** | | | | | |
| 18 | 1 | Jib heel section with Fly-Jib drive and platform | 1A  | 30′-11″ x 13′-2″ x 7′-10″ | 18,740 lbs |
| 19 | 1 | Fly-Jib drive unit |  | 8′-11″ x 5′-2″ x 5′-2″ | 9,350 lbs |
| 20 | 1 | Fly-Jib |  | 26′-11″ x 2′-4″ x 3′-4″ | 795 lbs |
| 21 | 1 | Control panel Fly-Jib with platform |  | 7′-3″ x 4′-11″ x 7′-9″ | 2,095 lbs |
| 22 | 1 | Hook block (one part) |  | 5′-5″ x 1′-4″ x 1′-8″ | 1,875 lbs |
| **Tower** | | | | | |
| 23 | 1 | Tower section 24 HC 1250 |  | 20′-7″ x 8′-0″ x 8′-0″ | 19,840 lbs |
| 24 | 1 | Tower section 24 HC 1000 |  | 20′-7″ x 8′-0″ x 8′-0″ | 18,960 lbs |
| 25 | 1 | Top climbing tower section |  | 20′-7″ x 8′-0″ x 8′-7″ | 30,400 lbs |
| 26 | 1 | Climbing beams (2x) for climbing section |  | 10′-0″ x 6′-0″ x 4′-8″ | 8,820 lbs |
| **Top Climbing** | | | | | |
| 27 | 1 | Top climbing frame |  | 44′-5″ x 8′-1″ x 6′-10″ | 49,935 lbs |
| 28 | 1 | Tie-in collar |  | 44′-6″ x 8′-2″ x 6′-11″ | 13,890 lbs |
| 29 | 1 | Hydraulic unit and climbing equipment |  | 14′-10″ x 4′-4″ x 6′-7″ | 8,160 lbs |

| Item | Qty. | Inside Climbing | | | Dimensions L x W x H | Weight |
|---|---|---|---|---|---|---|
| 30 | 1 | Inside climbing tower section D1 + D2 with hydraulic equipment |  |  | 20′-11″ x 8′-1″ x 8′-2″ | 41,160 lbs |
| 31 | 1 | Inside climbing tower section D1 |  |  | 13′-2″ x 8′-0″ x 8′-0″ | 17,040 lbs |
| 32 | 1 | Inside climbing tower section D2 |  |  | 9′-8″ x 7′-11″ x 7′-11″ | 14,620 lbs |
| 33 | 1 | Inside climbing cross-member |  |  | 8′-0″ x 1′-8″ x 2′-7″ | 3,200 lbs |
| 34 | 1 | Hydraulic cylinder |  |  | 9′-9″ x 1′-5″ x 2′-2″ | 3,620 lbs |
| 35 | 1 | Hydraulic unit |  |  | 5′-0″ x 2′-4″ x 5′-11″ | 2,690 lbs |
| 36 | 1 | Bracing tower section (B- section) |  |  | 20′-7″ x 8′-1″ x 8′-1″ | 20,505 lbs |
| 37 | 1 | Climbing ladders |  |  | 19′-4″ x 1′-5″ x 0′-4″ | 1,280 lbs |
| 38 | 1 | Climbing collar |  |  | 29′-10″ x 5′-5″ x 4′-1″ | 9,390 lbs |
| **Ballast** | | | | | | |
| 39 | 19 | Steel ballast |  |  | 15′-2″ x 3′-3″ x 0′-11″ | 8,985 lbs |
| **Foundation Anchors** | | | | | | |
| 40 | 4 | Foundation anchor 24 HC 1000 each |  | | 7′-7″ x 1′-8″ x 1′-8″ | 1,510 lbs |
| 41 | 4 | Foundation anchor 24 HC 1250 each |  | | 8′-1″ x 1′-8″ x 1′-8″ | 1,880 lbs |

| Boom Assemblies without Fly-Jib, with Fly-Jib Hoist Unit | | Dimensions L x W x H | Weight |
|---|---|---|---|
| Boom assembly complete [2,3] 213 ft (65.0 m) boom | ①②③③④⑤⑥ | 220′-2″ x 13′-2″ x 9′-0″ | 61,330 lbs |
| Boom assembly complete [2,3] 197 ft (60.0 m) boom | ①③③④⑤⑥ | 203′-9″ x 13′-2″ x 9′-0″ | 58,050 lbs |
| Boom assembly complete [2,3] 180-ft (55.0 m) boom | ①②③③④⑥ | 187′-4″ x 13′-2″ x 9′-0″ | 54,740 lbs |
| Boom assembly complete [2,3] 164 ft (50.0 m) boom | ①③③④⑥ | 170′-11″ x 13′-2″ x 9′-0″ | 51,435 lbs |
| Boom assembly complete [2,3] 148 ft (45.0 m) boom | ①②③④⑥ | 154′-6″ x 13′-2″ x 9′-0″ | 48,130 lbs |
| Boom assembly complete [2,3] 131 ft (40.0 m) boom | ①③③⑥ | 138′-1″ x 13′-2″ x 9′-0″ | 45,930 lbs |
| Boom assembly complete [2,3] 115 ft (35.0 m) boom | ①②③⑥ | 121′-9″ x 13′-2″ x 9′-0″ | 42,620 lbs |
| Boom assembly complete [2,3] 98 ft (30.0 m) boom | ①③⑥ | 105′-4″ x 13′-2″ x 9′-0″ | 39,310 lbs |

**NOTE:** Weights and dimensions are approximate. Scale components before lifting. Consult Instruction Manual before erecting, operating, servicing and dismantling crane.

[1] Does not include hoist rope: 5.8 lbs per foot. Luffing rope: 2.4 lbs per foot.
[2] Complete boom assemblies include (per manufacturer): Boom sections, suspension, tie bars, platforms, support and rope.
[3] Add 795 lbs when fly-jib is installed.

Specifications are subject to change without prior notice. Drawings shown in this datasheet are for illustrative purposes only. Refer to the 710 HC-L 32/64 Instruction Manual. For additional information, contact MORROW. All rights reserved.