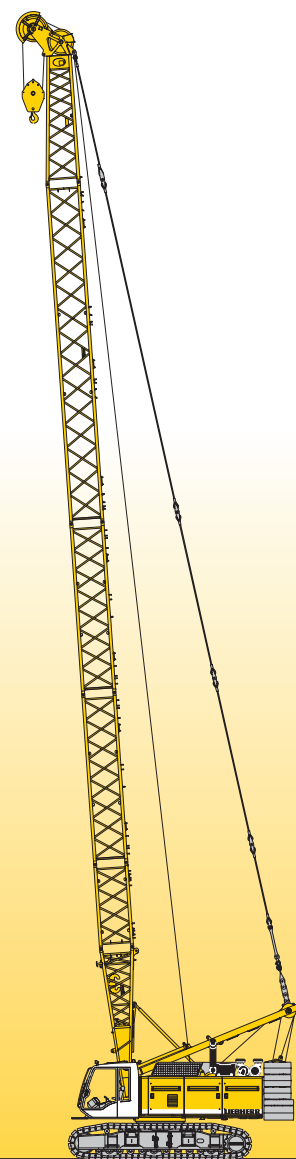


**Technical data**  
**Hydraulic crawler crane**

**Complies with ANSI B 30.5**

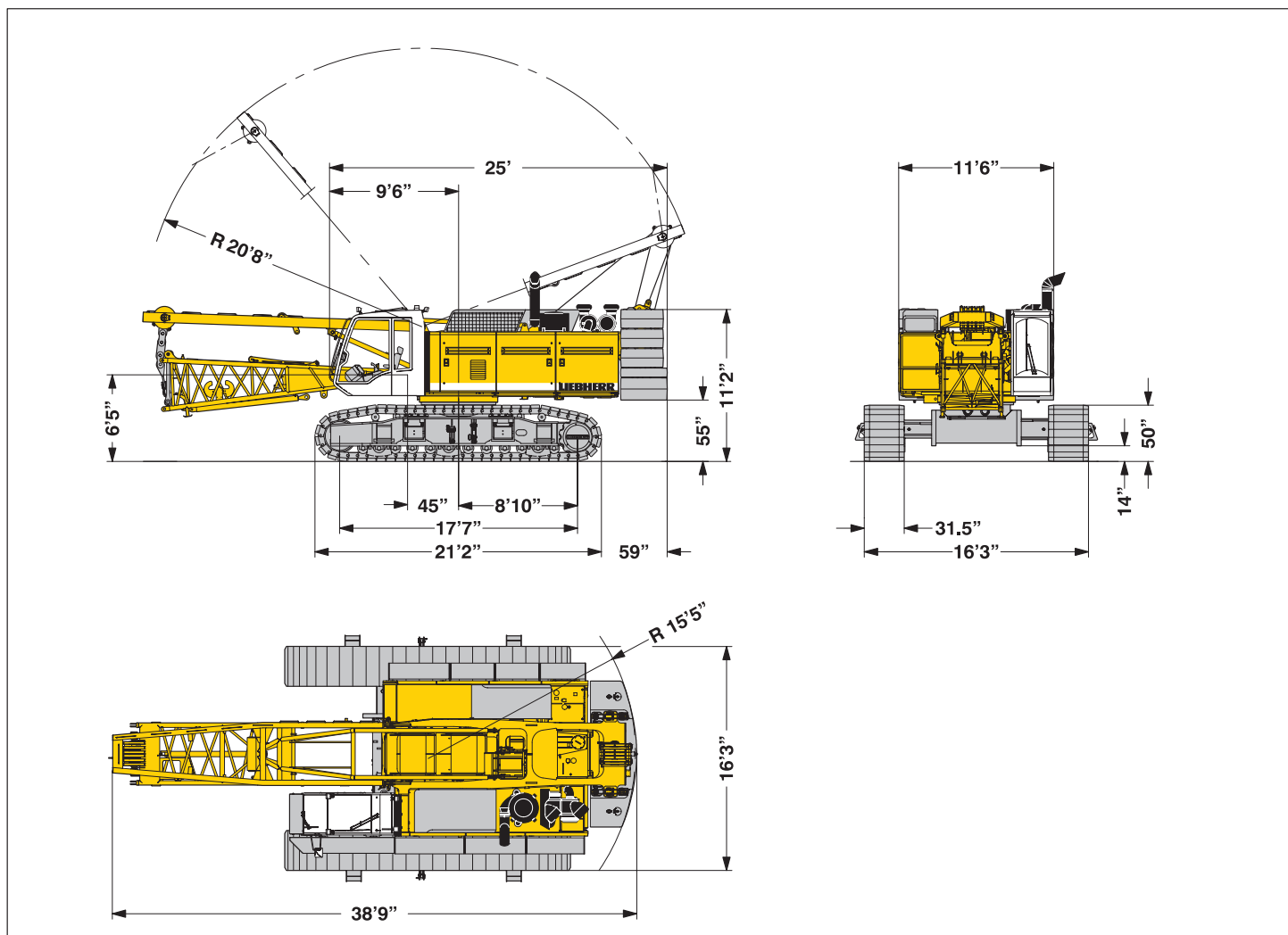
**HS 855 HD**  
Litronic®



**LIEBHERR**

# Dimensions

## Basic machine with undercarriage



## Operating weight

The operating weight includes the basic machine with HD undercarriage, 2 main winches 55,200 lbs including wire ropes (295 ft) and 36 ft main boom, consisting of A-frame, boom foot (18 ft) and boom head (18 ft), 58,000 lbs basic counterweight, 31.5 inch triple grouser track shoes and 110,250 lbs hook block.

Total weight \_\_\_\_\_ approx. 192,000 lbs

## Ground pressure

Ground bearing pressure \_\_\_\_\_ 14 PSI

## Equipment

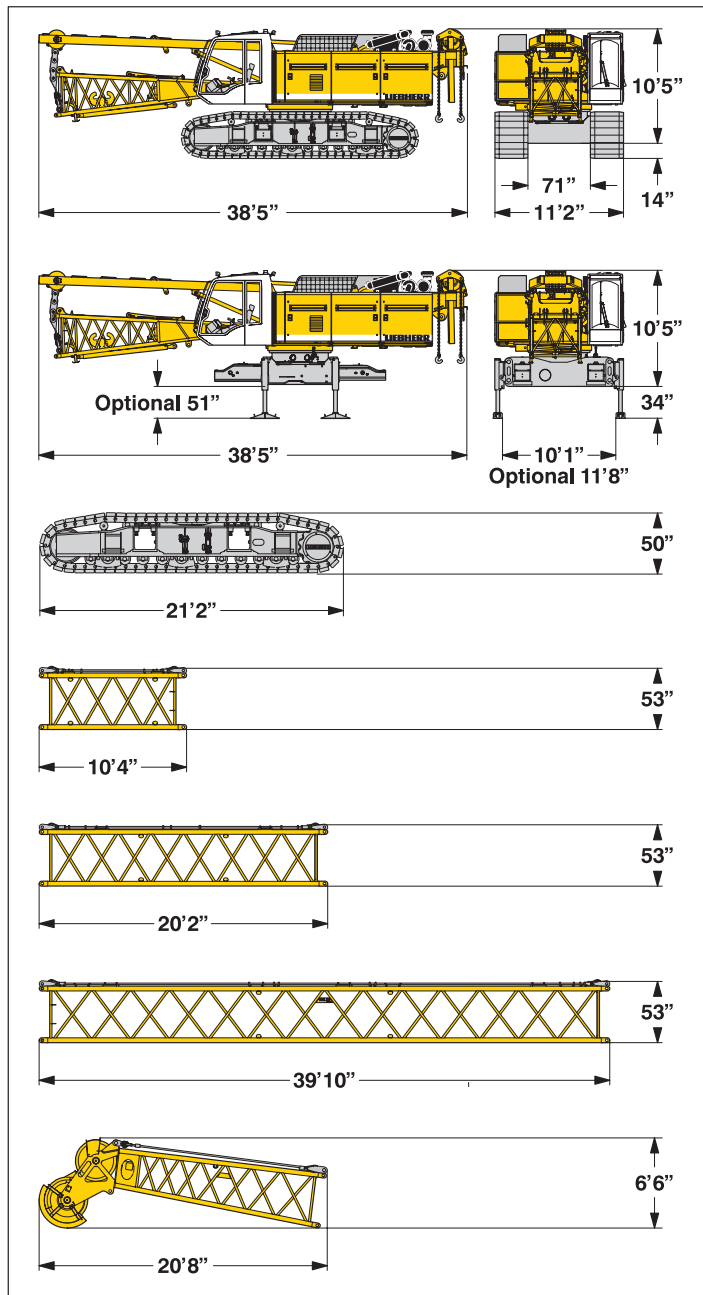
Main boom (No. 1311.xx) max. length \_\_\_\_\_ 223 ft  
 Fixed jib (No. 0806.xx) \_\_\_\_\_ 36 ft – 105 ft  
 Modular designed equipment for operation as crane, with dragline or clamshell.  
 For dragline operation, a rotating fairlead is fitted into the boom foot. This minimizes the rope angle to drum, which results in lower rope wear.

## Remarks

1. The lifting capacities stated are valid for lifting operation only (corresponds with crane classification according to F.E.M. 1.001, crane group A1)
2. Crane standing on firm, horizontal ground.
3. The weight of the lifting device (hoisting ropes, hook block, shackle etc.) must be deducted from the gross lifting capacity to obtain a net lifting value.
4. Additional equipment on boom (e.g. boom walkways, auxiliary jib) must be deducted to get the net lifting capacity.
5. For max. wind speed please refer to lift chart in operator's cab or manual.
6. Working radii are measured from centre of swing and under load.
7. The lifting capacities are valid for 360 degrees of swing.
8. Calculation of stability under load is based on DIN 15019 / part 2 / chart 1 and ISO 4305 Table 1 + 2, tipping angle 4°.
9. The structures are calculated according to F.E.M. 1.001 – 1998 (EN 13001-2 / 2004).
10. ANSI B 30.5

# Transport dimensions and weights

## Basic machine and boom (No. 1311.xx)



\*) Including pendant ropes

### Basic machine

with HD undercarriage, boom foot (No. 1311.xx), A-frame, 2x 55,200 lbs winches including wire ropes (295 ft), without basic counterweight

|               |         |
|---------------|---------|
| Width         | 11'6"   |
| Weight in lbs | 129,400 |

### Basic machine

with boom foot (No. 1311.xx), A-frame, 2x 55,200 lbs winches including wire ropes (295 ft), without basic counterweight and crawlers

|               |        |
|---------------|--------|
| Width         | 11'6"  |
| Weight in lbs | 86,900 |

### Crawler

2x

|                            |        |
|----------------------------|--------|
| Triple grouser track shoes | 31.5"  |
| Width                      | 36"    |
| Weight in lbs              | 21,300 |

### Boom section (No. 1311.xx)

10 ft

|                |       |
|----------------|-------|
| Width          | 55"   |
| Weight in lbs* | 1,100 |

### Boom section (No. 1311.xx)

20 ft

|                |       |
|----------------|-------|
| Width          | 55"   |
| Weight in lbs* | 1,800 |

### Boom section (No. 1311.xx)

40 ft

|                |       |
|----------------|-------|
| Width          | 55"   |
| Weight in lbs* | 2,800 |

### Boom head (No. 1311.xx)

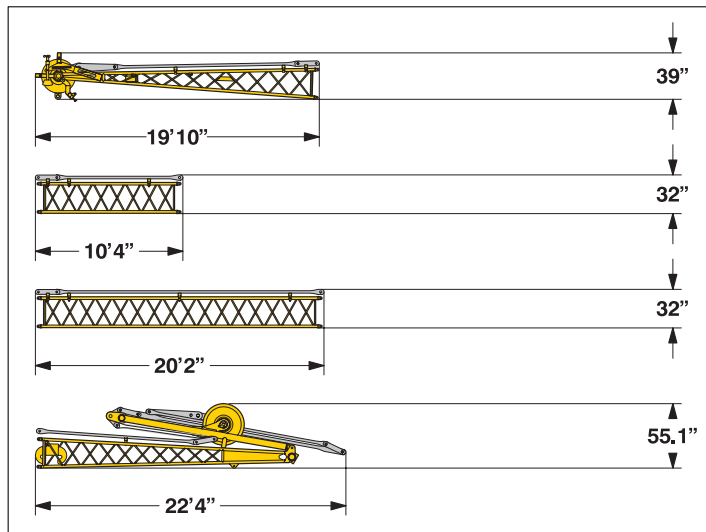
|                |       |
|----------------|-------|
| Width          | 55"   |
| Weight in lbs* | 4,350 |

### Boom transport option

|                |        |
|----------------|--------|
| Length         | 39'10" |
| Weight in lbs* | 11,110 |

# Transport dimensions and weights

## Fixed jib (No. 0806.xx)



\*) Including pendant straps

### Fixed jib head (No. 0806.16)

|                |     |
|----------------|-----|
| Width          | 45" |
| Weight in lbs* | 980 |

### Fixed jib section (No. 0806.15) 10 ft

|                |     |
|----------------|-----|
| Width          | 38" |
| Weight in lbs* | 245 |

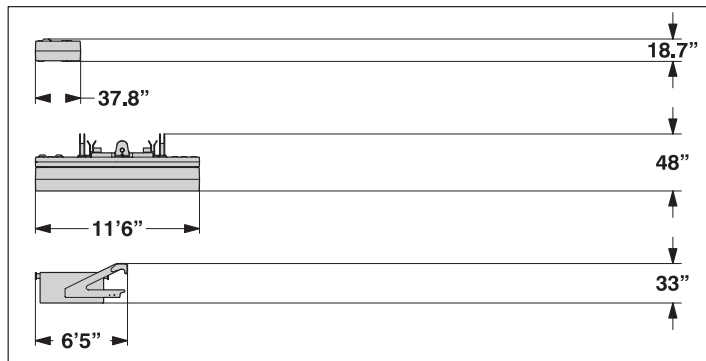
### Fixed jib section (No. 0806.15) 20 ft

|                |     |
|----------------|-----|
| Width          | 38" |
| Weight in lbs* | 430 |

### Fixed jib foot with A-frame (No. 0806.16)

|                |       |
|----------------|-------|
| Width          | 59"   |
| Weight in lbs* | 2,050 |

## Counterweight



### Counterweight 10x

|               |       |
|---------------|-------|
| Width         | 33.5" |
| Weight in lbs | 3,300 |

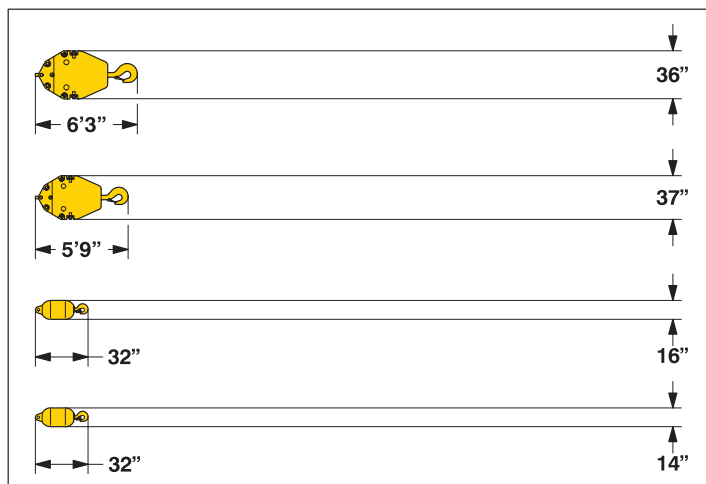
### Counterweight 1x

|               |        |
|---------------|--------|
| Width         | 41.3"  |
| Weight in lbs | 38,150 |

### Carbody counterweight 2x

|               |        |
|---------------|--------|
| Width         | 5'5"   |
| Weight in lbs | 16,500 |

## Hooks



### 110,230 lbs hook block - 1 sheave

|               |       |
|---------------|-------|
| Width         | 12"   |
| Weight in lbs | 1,650 |

### 88,200 lbs hook block - 1 sheave

|               |       |
|---------------|-------|
| Width         | 12"   |
| Weight in lbs | 1,135 |

### 55,120 lbs single hook

|               |     |
|---------------|-----|
| Width         | 16" |
| Weight in lbs | 880 |

### 44,100 lbs single hook

|               |     |
|---------------|-----|
| Width         | 14" |
| Weight in lbs | 660 |

# Technical description



## Engine

Power rating according to ISO 9249, 450 kW (603 hp) at 1900 rpm

Engine type ———— Liebherr D 9508 A7

Fuel tank ———— 211 gal capacity with continuous level indicator and reserve warning

Engine complies with NRMM exhaust certification EPA / CARB Tier 3 and 97/68 EC Stage III



## Hydraulic system

The main pumps are operated by a distributor gearbox. Axial piston displacement pumps work in closed and open circuits supplying oil only when needed (flow control on demand). To minimize peak pressure an automatically working pressure cut off is integrated. This spares pumps and saves energy. The hydraulic oil is cleaned through electronically controlled pressure and return filters.

Possible contamination is signalled in the cabin. The use of synthetic environmentally friendly oils is possible.

Ready made hydraulic retrofit kits are available to customize requirements e. g. powering casing oscillators, VM vibrators, hydraulic grabs, hanging leads etc.

Working pressure ———— max. 5076 psi

Oil tank capacity ———— 216 gal



## Boom winch

Line pull ———— max. 23,200 lbs

Rope diameter ———— 20 mm

Boom up ———— 44 sec. from 15° to 86°



## Swing

Consists of rollerbearing with external teeth for lower tooth flank pressure, fixed axial piston hydraulic motor, spring loaded and hydraulically released multi-disc holding brake, planetary gearbox and pinion.

Swing speed from 0 – 4.9 rpm continuously variable, selector for 3 speed ranges to increase swing precision.

Option:

Second swing drive



## Noise emission

Noise emissions correspond with 2000/14/EC directive on noise emission by equipment used outdoors.



## Main winches

Winch options:

Line pull (nom. load) ———— 35,300 lbs — 44,100 lbs — 55,200 lbs

Rope diameter ———— 26 mm — 30 mm — 34 mm

Drum diameter ———— 22,8" — 24,8" — 29,5"

Rope speed ft/min ———— 0–443 — 0–302 — 0–236

Rope capacity 1st layer ———— 170 ft — 152 ft — 158 ft

The winches are outstanding in their compact design and easy assembly. Clutch and braking functions on the free fall system are provided by a compact designed, low wear and maintenance free multi-disc brake.

The drag and hoist winches use pressure controlled, variable flow hydraulic motors.

This system features sensors that automatically adjust oil flow to provide max. winch speed depending on load.

Option:

Auxiliary winch ———— 15,500 lbs in boom foot

Tagline winch ———— 6,600 lbs with free fall



## Crawlers

The track width of the undercarriage is changed hydraulically.

Propulsion through axial piston motor, hydraulically released spring loaded multi-disc brake, maintenance free crawler tracks, hydraulic chain tensioning device.

Flat or triple grouser track shoes 31.5 inch

Drive speed ———— 0 – 0.8 mph

Option:

- 2 speed hydraulic motor for higher travel speed
- Self assembly system, jack up system



## Control

The control system – developed and manufactured by Liebherr – is designed to withstand extreme temperature changes and the rough heavy duty tasks common in the construction industry. Complete machine operating data are shown on a high resolution display. The crane is equipped with proportional control for all movements, which can be carried out simultaneously.

Dragline operation: A special "Interlock" control system is an option available. It is designed for power lifting of the dragline bucket without using the drag winch brake.

An additional option is the "Redundant Control System", which allows restricted operation of the machine in the event of a failure on the electronic base control or its sensors.

On request, Liebherr also offers special custom designed control systems for free fall winches.

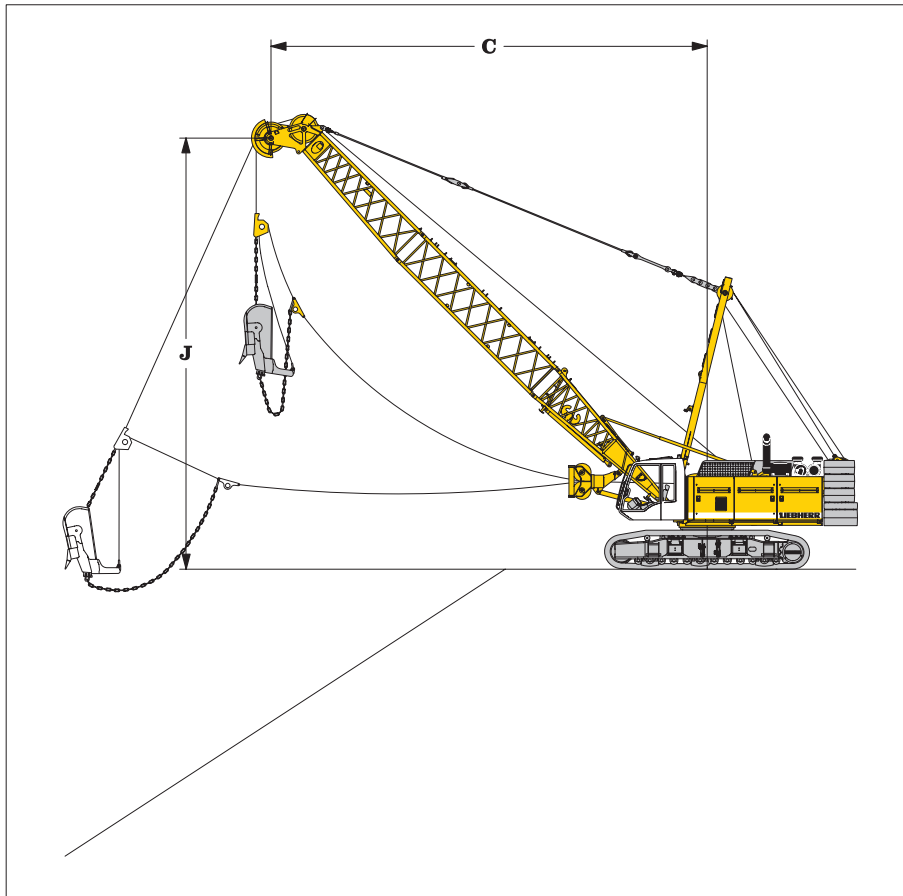
Operation: Left joy stick for boom winch and swing, right two directional levers for winch I and II. Crawler control is actuated with the two central foot pedals. Additionally, hand levers can be attached to the pedals.

Options:

- Special demolition control system
- MDE: Machine data recording
- PDE: Process data recording
- GSM modem

# Dragline equipment

## 58,000 lbs counterweight



### Working diagram

C = Radius / dumping radius

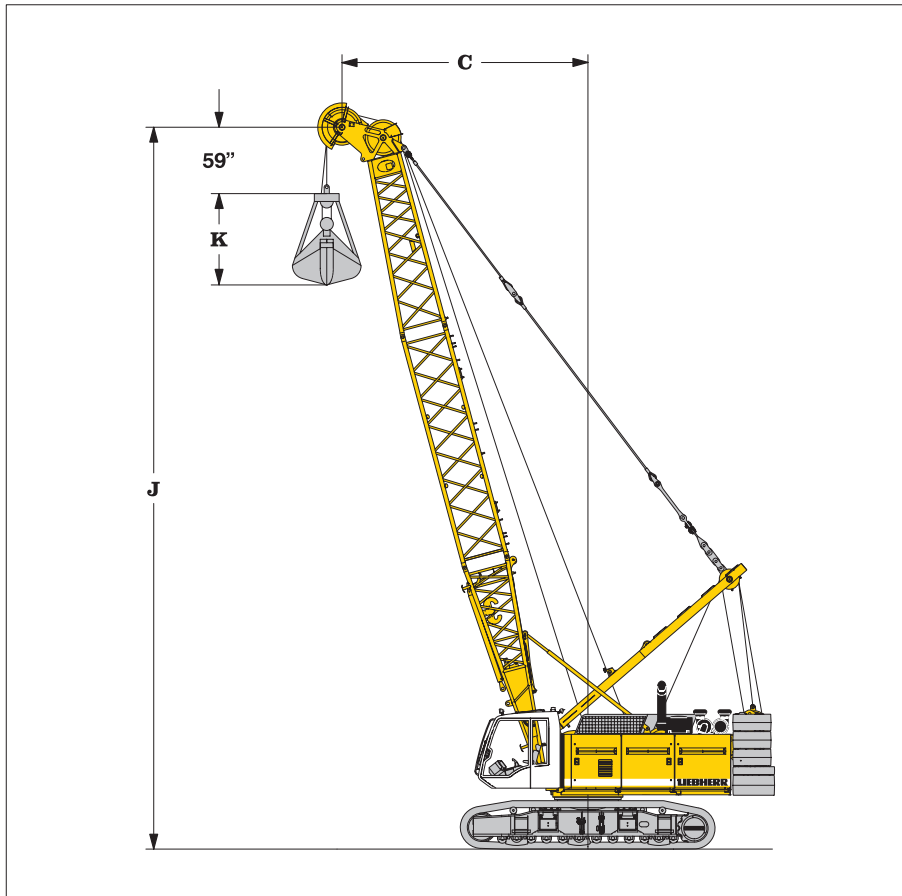
J = Height of boom head sheave centre above ground level

| Capacities in 1000 lbs for boom lengths (46 ft – 95 ft) |       |      |      |       |      |      |       |      |      | counterweight 58,000 lbs |      |      |       |      |      |       |      |      |
|---------------------------------------------------------|-------|------|------|-------|------|------|-------|------|------|--------------------------|------|------|-------|------|------|-------|------|------|
| $\alpha$                                                | 46 ft |      |      | 56 ft |      |      | 66 ft |      |      | 75 ft                    |      |      | 85 ft |      |      | 95 ft |      |      |
|                                                         | C     | J    | lbs  | C     | J    | lbs  | C     | J    | lbs  | C                        | J    | lbs  | C     | J    | lbs  | C     | J    | lbs  |
| 45                                                      | 39.0  | 37.4 | 37,9 | 45.9  | 44.3 | 30,6 | 53.1  | 51.2 | 25,1 | 60.0                     | 58.0 | 22,3 | 66.9  | 19.8 | 19,0 | 73.8  | 72.2 | 16,5 |
| 40                                                      | 41.6  | 34.4 | 34,6 | 49.2  | 40.7 | 28,7 | 56.8  | 47.2 | 23,8 | 64.3                     | 53.5 | 20,5 | 71.8  | 18.2 | 17,4 | 79.4  | 65.9 | 15,0 |
| 35                                                      | 43.9  | 31.5 | 30,0 | 52.2  | 37.1 | 26,9 | 60.0  | 42.7 | 22,3 | 68.2                     | 48.2 | 18,7 | 76.1  | 16.5 | 15,9 | 84.3  | 59.7 | 13,9 |
| 30                                                      | 45.9  | 28.2 | 24,9 | 54.5  | 33.1 | 24,5 | 63.0  | 38.1 | 20,3 | 71.5                     | 43.0 | 17,2 | 80.1  | 14.6 | 14,6 | 88.6  | 52.8 | 12,6 |
| 25                                                      | 47.6  | 24.9 | 23,6 | 56.4  | 28.9 | 22,0 | 65.6  | 33.1 | 18,5 | 74.4                     | 37.4 | 15,6 | 83.3  | 12.6 | 13,2 | 92.2  | 45,6 | 11,2 |

Max. capacities in 1000 lbs do not exceed 75% of tipping load.

# Clamshell equipment

## 58,000 lbs counterweight



### Working diagram

- C = Radius / dumping radius
- J = Height of boom head sheave centre above ground level
- K = Length of clamshell (depending on type and capacity of bucket)

| Capacities in 1000 lbs for boom lengths (46 ft – 95 ft) |       |      |      |       |      |      |       |      |      | counterweight 58,000 lbs |      |      |       |      |      |       |      |      |
|---------------------------------------------------------|-------|------|------|-------|------|------|-------|------|------|--------------------------|------|------|-------|------|------|-------|------|------|
|                                                         | 46 ft |      |      | 56 ft |      |      | 66 ft |      |      | 75 ft                    |      |      | 85 ft |      |      | 95 ft |      |      |
| α                                                       | C     | J    |      | C     | J    |      | C     | J    |      | C                        | J    |      | C     | J    |      | C     | J    |      |
|                                                         | ft    | ft   | lbs  | ft    | ft   | lbs  | ft    | ft   | lbs  | ft                       | ft   | lbs  | ft    | ft   | lbs  | ft    | ft   | lbs  |
| 65                                                      | 26.6  | 45.9 | 56,2 | 30.5  | 54.8 | 48,9 | 34.8  | 64.0 | 41,4 | 39.0                     | 72.8 | 35,3 | 43.0  | 81.7 | 28,4 | 47.2  | 90.6 | 26,9 |
| 60                                                      | 29.8  | 44.3 | 49,6 | 34.8  | 52.8 | 42,8 | 39.7  | 61.4 | 35,7 | 44.6                     | 69.9 | 30,4 | 49.5  | 78.4 | 26,2 | 54.5  | 86.9 | 23,6 |
| 55                                                      | 33.1  | 42.3 | 46,1 | 38.7  | 50.2 | 37,3 | 44.6  | 58.4 | 31,3 | 50.2                     | 66.3 | 26,9 | 55.8  | 74.5 | 23,2 | 61.4  | 82.3 | 20,5 |
| 50                                                      | 36.4  | 39.7 | 41,9 | 42.7  | 47.2 | 33,5 | 48.9  | 54.8 | 27,8 | 55.1                     | 62.3 | 24,0 | 61.7  | 69.9 | 20,5 | 67.9  | 77.4 | 17,8 |
| 45                                                      | 39.0  | 37.4 | 37,5 | 45.9  | 44.3 | 30,4 | 53.1  | 51.2 | 24,9 | 60.0                     | 58.1 | 21,6 | 66.9  | 65.0 | 18,3 | 73.8  | 72.2 | 15,7 |
| 40                                                      | 41.7  | 34.4 | 34,2 | 49.2  | 40.7 | 28,0 | 56.8  | 47.2 | 22,9 | 64.3                     | 53.5 | 19,4 | 71.8  | 59.7 | 16,5 | 79.4  | 65.9 | 14,1 |
| 35                                                      | 44.0  | 31.5 | 29,1 | 52.1  | 37.1 | 26,0 | 60.0  | 42.7 | 21,2 | 68.2                     | 48.2 | 17,9 | 76.1  | 54.1 | 15,0 | 84.3  | 59.7 | 12,8 |
| 30                                                      | 45.9  | 28.2 | 24,9 | 54.5  | 33.1 | 24,3 | 63.0  | 38.1 | 19,8 | 71.5                     | 43.0 | 16,7 | 80.0  | 47.9 | 13,9 | 88.6  | 52.8 | 11,9 |
| 25                                                      | 47.6  | 24.9 | 23,6 | 56.4  | 28.9 | 22,0 | 65.6  | 33.1 | 18,3 | 74.5                     | 37.4 | 15,7 | 83.3  | 41.3 | 13,2 | 92.2  | 45.6 | 11,0 |

Max. capacities in 1000 lbs do not exceed 66.7 % of tipping load.

Load diagram restricted by safety factors of standard ropes:

Winches ————— 44,100 lbs ——— 55,200 lbs

Rope diameter ————— 30 mm ——— 34 mm

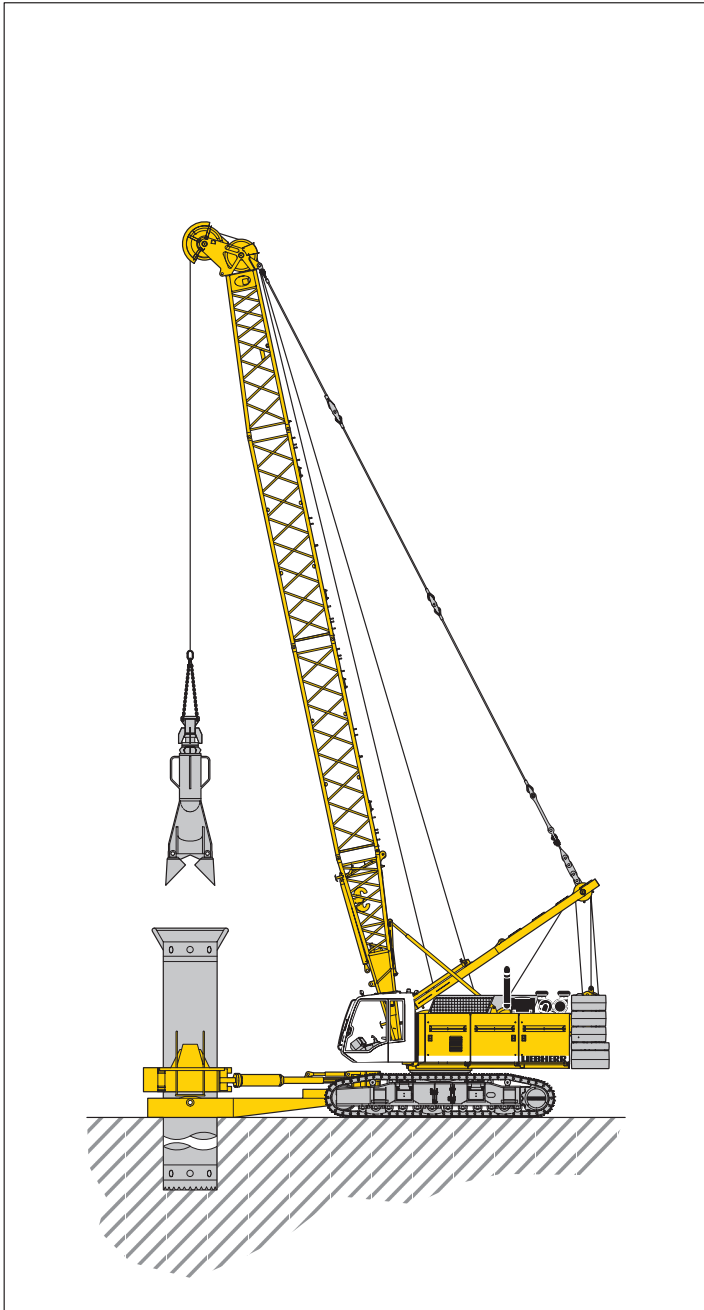
Min. breaking load ——— 182,095 lbf ——— 231,800 lbf

1-rope clamshell ——— 36,400 lbs ——— 46,300 lbs

2-rope clamshell ——— 48,500 lbs ——— 61,750 lbs

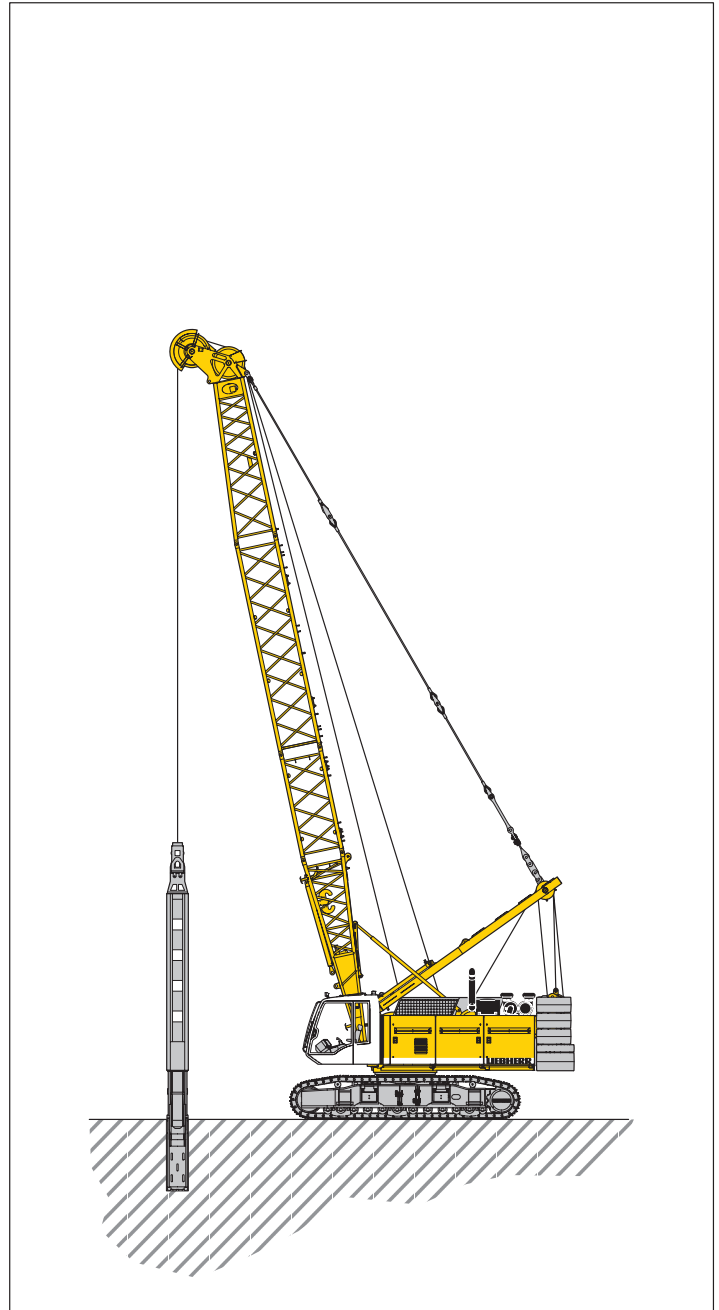
# Equipment

## Casing oscillator and slurry wall grab



### Casing oscillator

Winch options ————— 2x 44,100 lbs ——— 2x 55,200 lbs  
Line speed 1st layer (ft/min) ————— 0–302 ————— 0–236  
Drilling diameter ————— 6'7" ————— 6'7"  
Maximum allowable weight in  
two rope operation ————— 48,500 lbs ——— 61,750 lbs

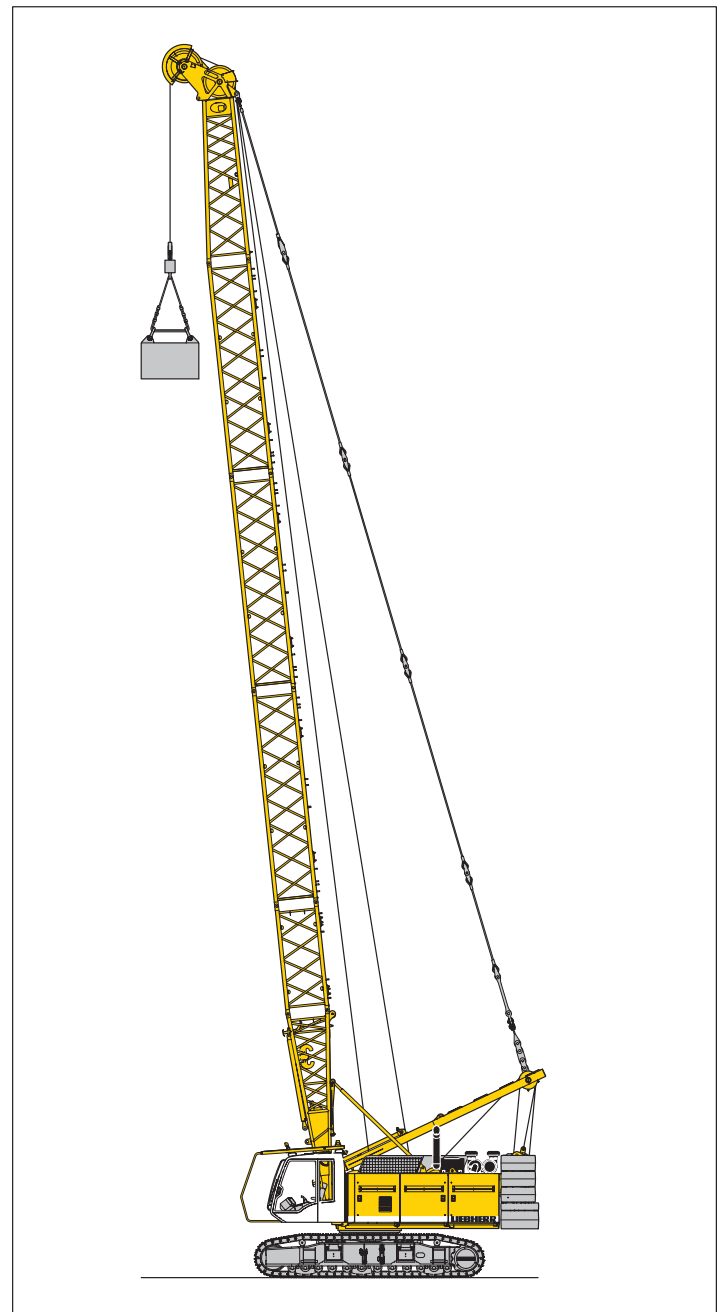


### Slurry wall grab

Winch options ————— 2x 44,100 lbs ——— 2x 55,200 lbs  
Line speed 1st layer (ft/min) ————— 0–302 ————— 0–236  
Max. chisel weight ————— 12,500 lbs ——— 35,300 lbs  
Maximum allowable weight in  
two rope operation ————— 48,500 lbs ——— 61,750 lbs

# Equipment

## Dynamic soil compaction

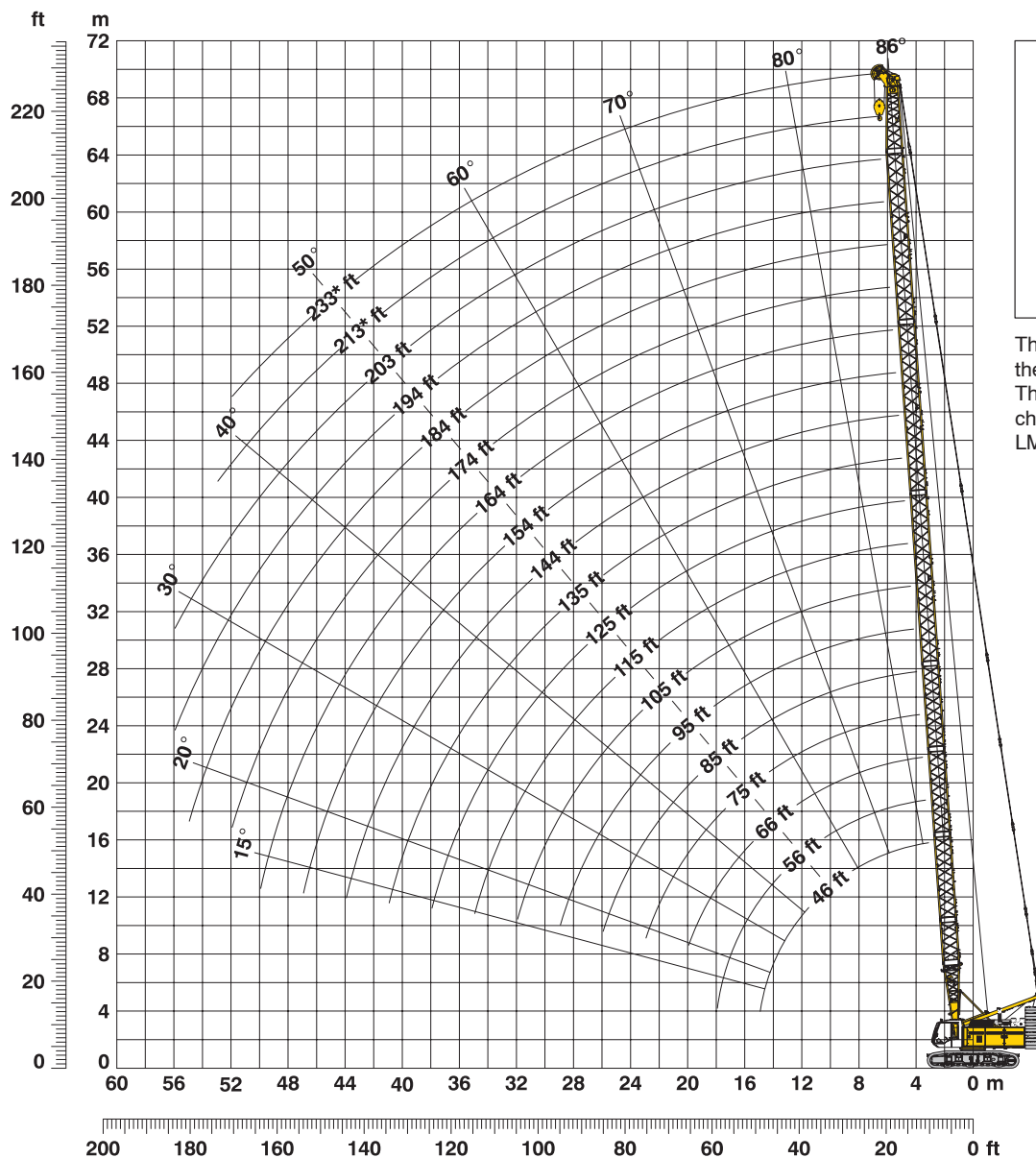


| Capacities in 1000 lbs for boom lengths (66 ft – 105 ft) |             |       |       |       |        |
|----------------------------------------------------------|-------------|-------|-------|-------|--------|
|                                                          | Boom length |       |       |       |        |
| Radius in (ft)                                           | 66 ft       | 75 ft | 85 ft | 95 ft | 105 ft |
|                                                          | lbs         | lbs   | lbs   | lbs   | lbs    |
| 27                                                       | 55,2        | 55,2  | 44,1  | 44,1  | 41,9   |
| 30                                                       | 44,1        | 41,9  | 41,9  | 39,7  | 37,5   |

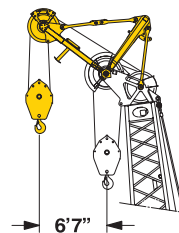
Max. capacities in 1000 lbs do not exceed 75% of tipping load.  
 All loads given are max. values and must not be exceeded. They are only permitted in 2 rope automatic operation and are valid for work on a surface with max. inclination of 1 %. Lifting heights must not exceed 82 ft.

# Working range - main boom (No. 1311.xx) 86° - 15°

## 58,000 lbs counterweight



Auxiliary jib 55,200 lbs



The maximum capacity of the auxiliary jib is 55,200 lbs. The corresponding load chart is programmed in the LMI system.

## Main boom configuration (table 1 – No. 1311.xx)

### Configuration for boom lengths (36 ft – 223 ft)

| Configuration for boom lengths (36 ft. and 223 ft.) |         |                           |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |      |      |
|-----------------------------------------------------|---------|---------------------------|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
|                                                     | Length  | Amount of boom extensions |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |      |      |
| Boom foot                                           | 18 ft   | 1                         | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    |
| Boom insert                                         | 10 ft** |                           | 1  |    | 1  |    | 1  |    | 1   |     | 1   |     | 1   |     | 1   |     | 1   |     | 1   |      | 1    |
| Boom insert                                         | 20 ft** |                           |    | 1  | 1  | 2  | 2  | 3  | 3   | 2   | 2   | 3   | 3   | 2   | 2   | 3   | 3   | 2   | 2   | 3    | 3    |
| Boom insert                                         | 40 ft** |                           |    |    |    |    |    |    |     | 1   | 1   | 1   | 1   | 2   | 2   | 2   | 2   | 3   | 3   | 3    | 3    |
| Boom head                                           | 18 ft   | 1                         | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1    | 1    |
| Boom length (ft)                                    |         | 36                        | 46 | 56 | 66 | 75 | 85 | 95 | 105 | 115 | 125 | 135 | 144 | 154 | 164 | 174 | 184 | 194 | 203 | 213* | 223* |

\* Additional counterweight allows self erection of boom up to 223 ft.

\*\*Actual lengths of boom sections are metric (e.g. 3 m, 6 m, 12 m). The figures shown above are approximate conversions to feet.

# Lift chart for main boom (No. 1311.xx)

## 58,000 lbs counterweight

Capacities in 1000 lbs for boom lengths (36 ft – 203 ft) – with 55,200 lbs winches  
58,000 lbs counterweight

| Radius | Boom length in (ft) |       |       |       |       |       |       |       |      |      |      |      |      |      |      |      |      | Radius |
|--------|---------------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|--------|
|        | 36                  | 46    | 66    | 75    | 85    | 95    | 105   | 115   | 125  | 135  | 144  | 154  | 164  | 174  | 184  | 194  | 203  |        |
| (ft)   | lbs                 | lbs   | lbs   | lbs   | lbs   | lbs   | lbs   | lbs   | lbs  | lbs  | lbs  | lbs  | lbs  | lbs  | lbs  | lbs  | lbs  | (ft)   |
| 10.5   |                     |       | 200.0 |       |       |       |       |       |      |      |      |      |      |      |      |      |      | 10.5   |
| 15     | 200.0               | 200.0 | 193.8 | 188.3 | 178.1 | 157.7 | 137.6 | 115.1 | 99.4 |      |      |      |      |      |      |      |      | 15     |
| 20     | 120.4               | 120.9 | 121.2 | 121.2 | 121.2 | 119.2 | 116.7 | 114.5 | 99.4 | 80.2 | 67.1 | 62.1 | 54.8 | 48.3 | 40.4 | 33.9 |      | 20     |
| 25     | 85.4                | 85.8  | 86.0  | 86.0  | 85.9  | 85.8  | 85.7  | 85.9  | 84.4 | 76.7 | 66.2 | 62.1 | 54.8 | 48.3 | 40.4 | 33.9 | 29.4 | 25     |
| 30     | 65.6                | 66.0  | 66.2  | 66.1  | 66.0  | 65.9  | 65.7  | 65.9  | 65.8 | 65.6 | 62.6 | 58.2 | 51.9 | 46.5 | 40.3 | 33.9 | 29.4 | 30     |
| 35     | 52.8                | 53.2  | 53.4  | 53.3  | 53.2  | 53.1  | 52.9  | 53.1  | 52.9 | 52.7 | 52.6 | 52.6 | 48.8 | 42.3 | 37.7 | 31.9 | 28.1 | 35     |
| 40     |                     | 44.5  | 44.7  | 44.6  | 44.5  | 44.4  | 44.2  | 44.4  | 44.2 | 44.0 | 43.8 | 43.9 | 43.6 | 39.7 | 35.5 | 30.1 | 26.5 | 40     |
| 45     |                     | 37.9  | 38.1  | 38.0  | 37.9  | 37.7  | 37.5  | 37.8  | 37.6 | 37.4 | 37.2 | 37.2 | 37.0 | 36.8 | 33.6 | 28.4 | 24.7 | 45     |
| 50     |                     |       | 33.0  | 33.0  | 32.8  | 32.7  | 32.4  | 32.7  | 32.5 | 32.3 | 32.1 | 32.1 | 31.9 | 31.7 | 31.5 | 27.1 | 23.4 | 50     |
| 55     |                     |       | 29.0  | 28.9  | 28.8  | 28.6  | 28.4  | 28.7  | 28.4 | 28.2 | 28.0 | 28.1 | 27.9 | 27.6 | 27.4 | 26.2 | 22.5 | 55     |
| 60     |                     |       | 25.7  | 25.7  | 25.5  | 25.3  | 25.1  | 25.4  | 25.2 | 25.0 | 24.7 | 24.8 | 24.6 | 24.3 | 24.1 | 24.1 | 21.8 | 60     |
| 65     |                     |       | 22.9  | 22.9  | 22.8  | 22.6  | 22.4  | 22.7  | 22.5 | 22.2 | 22.0 | 22.1 | 21.8 | 21.6 | 21.4 | 21.4 | 21.1 | 65     |
| 70     |                     |       |       | 20.6  | 20.5  | 20.3  | 20.1  | 20.4  | 20.2 | 20.0 | 19.7 | 19.8 | 19.6 | 19.3 | 19.1 | 19.1 | 18.8 | 70     |
| 75     |                     |       |       | 18.6  | 18.5  | 18.4  | 18.2  | 18.4  | 18.2 | 18.0 | 17.7 | 17.8 | 17.6 | 17.4 | 17.1 | 17.1 | 16.9 | 75     |
| 80     |                     |       |       |       | 16.8  | 16.7  | 16.5  | 16.8  | 16.5 | 16.3 | 16.1 | 16.1 | 15.9 | 15.7 | 15.4 | 15.4 | 15.2 | 80     |
| 85     |                     |       |       |       | 15.3  | 15.2  | 15.0  | 15.3  | 15.1 | 14.8 | 14.6 | 14.7 | 14.4 | 14.2 | 13.9 | 13.9 | 13.7 | 85     |
| 90     |                     |       |       |       |       | 13.9  | 13.7  | 14.0  | 13.8 | 13.5 | 13.3 | 13.4 | 13.1 | 12.9 | 12.6 | 12.6 | 12.4 | 90     |
| 95     |                     |       |       |       |       | 12.7  | 12.5  | 12.8  | 12.6 | 12.4 | 12.1 | 12.2 | 12.0 | 11.8 | 11.5 | 11.5 | 11.2 | 95     |
| 100    |                     |       |       |       |       |       | 11.4  | 11.8  | 11.6 | 11.4 | 11.1 | 11.2 | 11.0 | 10.7 | 10.5 | 10.5 | 10.2 | 100    |
| 105    |                     |       |       |       |       |       |       | 10.8  | 10.6 | 10.4 | 10.2 | 10.3 | 10.0 | 9.8  | 9.5  | 9.5  | 9.3  | 105    |
| 110    |                     |       |       |       |       |       |       | 10.0  | 9.8  | 9.6  | 9.3  | 9.4  | 9.2  | 9.0  | 8.7  | 8.7  | 8.5  | 110    |
| 115    |                     |       |       |       |       |       |       |       | 9.0  | 8.8  | 8.6  | 8.7  | 8.4  | 8.2  | 7.9  | 7.9  | 7.7  | 115    |
| 120    |                     |       |       |       |       |       |       |       | 8.3  | 8.1  | 7.9  | 8.0  | 7.7  | 7.5  | 7.2  | 7.3  | 7.0  | 120    |
| 125    |                     |       |       |       |       |       |       |       |      | 7.5  | 7.2  | 7.3  | 7.1  | 6.9  | 6.6  | 6.6  | 6.4  | 125    |
| 130    |                     |       |       |       |       |       |       |       |      | 6.8  | 6.6  | 6.8  | 6.5  | 6.3  | 6.0  | 6.0  | 5.8  | 130    |
| 135    |                     |       |       |       |       |       |       |       |      |      | 6.1  | 6.2  | 6.0  | 5.7  | 5.5  | 5.5  | 5.2  | 135    |
| 140    |                     |       |       |       |       |       |       |       |      |      | 5.5  | 5.7  | 5.5  | 5.2  | 5.0  | 5.0  | 4.7  | 140    |
| 145    |                     |       |       |       |       |       |       |       |      |      |      | 5.2  | 5.0  | 4.8  | 4.5  | 4.5  | 4.3  | 145    |
| 150    |                     |       |       |       |       |       |       |       |      |      |      | 4.8  | 4.6  | 4.3  | 4.1  | 4.1  | 3.8  | 150    |
| 155    |                     |       |       |       |       |       |       |       |      |      |      |      | 4.1  | 3.9  | 3.7  | 3.7  | 3.4  | 155    |
| 160    |                     |       |       |       |       |       |       |       |      |      |      |      | 3.7  | 3.5  | 3.3  | 3.3  | 3.1  | 160    |
| 165    |                     |       |       |       |       |       |       |       |      |      |      |      |      | 3.2  | 2.9  | 3.0  | 2.7  | 165    |
| 170    |                     |       |       |       |       |       |       |       |      |      |      |      |      | 2.8  | 2.6  | 2.6  | 2.4  | 170    |
| 175    |                     |       |       |       |       |       |       |       |      |      |      |      |      |      | 2.2  | 2.3  |      | 175    |

Above lift chart is for reference only. For actual lift duty please refer to lift chart in operator's cab or manual.

# Lift chart for main boom (No. 1311.xx)

## 71,200 lbs counterweight and 33,100 lbs carbody counterweight

Capacities in 1000 lbs for boom lengths (36 ft – 223 ft) – with 55,200 lbs winches  
71,200 lbs counterweight and 33,100 lbs carbody counterweight

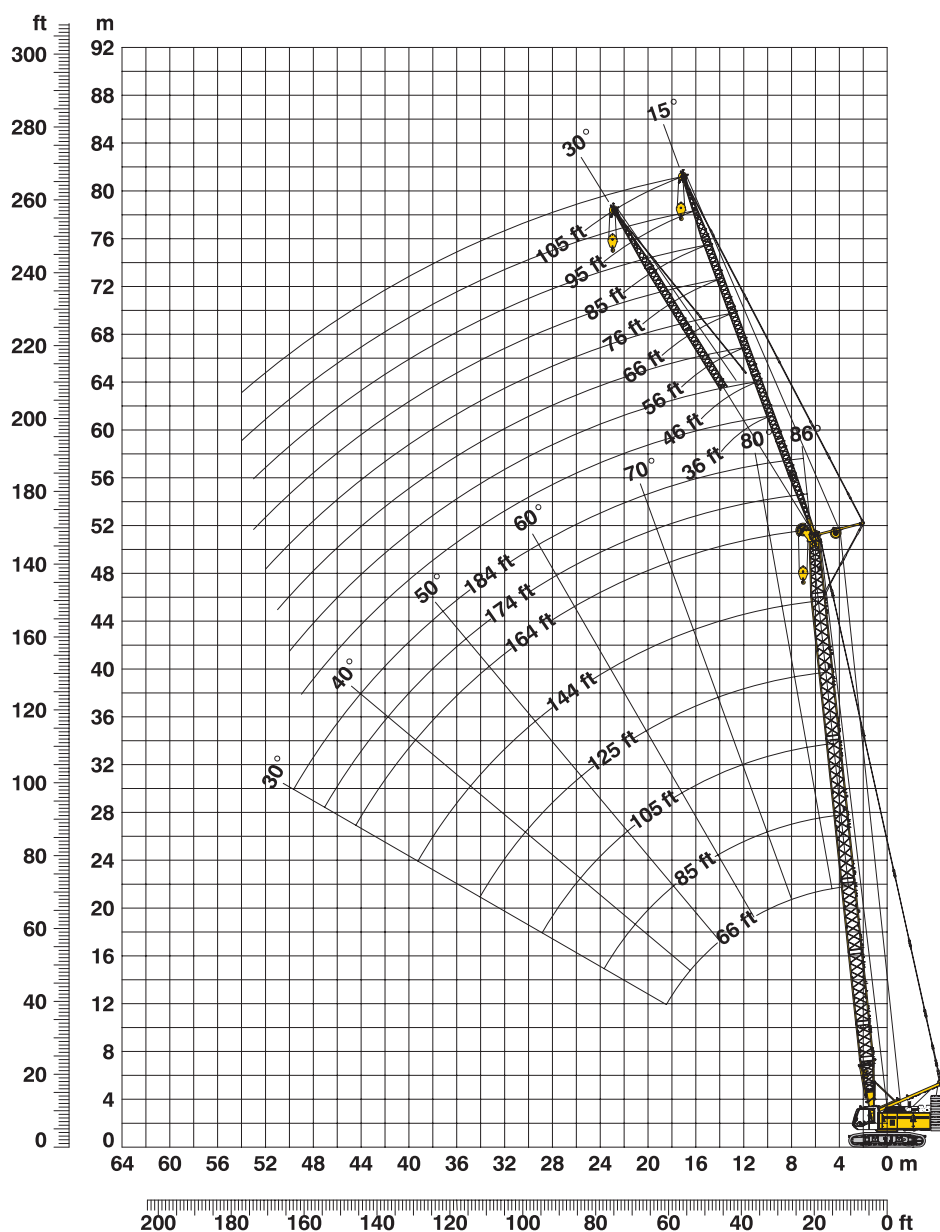
| Radius | Boom length in (ft) |        |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      | Radius |
|--------|---------------------|--------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|--------|
|        | 36                  | 56     | 66    | 85    | 105   | 115   | 125  | 135  | 144  | 154  | 164  | 174  | 184  | 194  | 203  | 213  | 223  |        |
| (ft)   | lbs                 | lbs    | lbs   | lbs   | lbs   | lbs   | lbs  | lbs  | lbs  | lbs  | lbs  | lbs  | lbs  | lbs  | lbs  | lbs  | lbs  | (ft)   |
| 8.5    | 230.0*              |        |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      | 8.5    |
| 10     | 230.0*              | 230.0* |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      | 10     |
| 15     | 198.4               | 194.0  | 198.4 | 178.1 | 137.6 | 115.1 | 99.4 |      |      |      |      |      |      |      |      |      |      | 15     |
| 20     | 149.6               | 150.3  | 150.3 | 140.8 | 128.7 | 115.1 | 99.4 | 80.2 | 67.1 | 62.1 | 54.8 | 48.3 | 40.4 | 33.9 |      |      |      | 20     |
| 25     | 106.5               | 107.1  | 107.1 | 107.0 | 102.0 | 98.5  | 90.3 | 76.7 | 66.2 | 62.1 | 54.8 | 48.3 | 40.4 | 33.9 | 29.4 | 25.9 | 23.2 | 25     |
| 30     | 82.1                | 82.6   | 82.6  | 82.5  | 82.2  | 80.4  | 75.7 | 69.4 | 62.6 | 58.2 | 51.9 | 46.5 | 40.3 | 33.9 | 29.4 | 25.9 | 23.2 | 30     |
| 35     | 66.3                | 66.9   | 66.9  | 66.7  | 66.4  | 66.6  | 66.4 | 62.2 | 55.5 | 54.3 | 48.8 | 42.3 | 37.7 | 31.9 | 28.1 | 25.4 | 23.2 | 35     |
| 40     |                     | 56.0   | 55.9  | 55.7  | 55.4  | 55.6  | 55.4 | 54.6 | 50.3 | 51.4 | 46.0 | 39.7 | 35.5 | 30.1 | 26.5 | 23.7 | 21.8 | 40     |
| 45     |                     | 47.9   | 47.9  | 47.6  | 47.3  | 47.5  | 47.3 | 47.1 | 42.7 | 45.8 | 42.4 | 37.8 | 33.6 | 28.4 | 24.7 | 22.3 | 20.7 | 45     |
| 50     |                     | 41.8   | 41.8  | 41.6  | 41.2  | 41.5  | 41.3 | 41.1 | 39.1 | 40.7 | 39.0 | 35.6 | 32.1 | 27.1 | 23.4 | 21.1 | 19.6 | 50     |
| 55     |                     | 36.8   | 36.9  | 36.7  | 36.3  | 36.5  | 36.3 | 36.1 | 35.9 | 35.9 | 35.7 | 33.4 | 30.2 | 26.2 | 22.5 | 20.2 | 18.7 | 55     |
| 60     |                     |        | 32.8  | 32.6  | 32.3  | 32.5  | 32.3 | 32.1 | 31.9 | 31.9 | 31.7 | 31.5 | 28.6 | 25.4 | 21.8 | 19.5 | 18.0 | 60     |
| 65     |                     |        | 29.4  | 29.3  | 28.9  | 29.2  | 29.0 | 28.8 | 28.5 | 28.6 | 28.4 | 28.1 | 27.4 | 24.8 | 21.2 | 18.9 | 17.5 | 65     |
| 70     |                     |        |       | 26.5  | 26.1  | 26.4  | 26.2 | 26.0 | 25.7 | 25.8 | 25.5 | 25.3 | 25.1 | 24.3 | 20.7 | 18.4 | 17.0 | 70     |
| 75     |                     |        |       | 24.1  | 23.7  | 24.0  | 23.8 | 23.6 | 23.3 | 23.4 | 23.2 | 22.9 | 22.7 | 22.7 | 20.3 | 18.0 | 16.5 | 75     |
| 80     |                     |        |       | 22.0  | 21.6  | 21.9  | 21.7 | 21.5 | 21.2 | 21.3 | 21.1 | 20.9 | 20.6 | 20.6 | 19.0 | 17.4 | 16.2 | 80     |
| 85     |                     |        |       | 20.1  | 19.8  | 20.1  | 19.9 | 19.7 | 19.4 | 19.5 | 19.3 | 19.0 | 18.8 | 18.8 | 17.9 | 16.4 | 15.4 | 85     |
| 90     |                     |        |       |       | 18.2  | 18.5  | 18.3 | 18.1 | 17.8 | 17.9 | 17.7 | 17.5 | 17.2 | 17.2 | 16.9 | 15.5 | 14.5 | 90     |
| 95     |                     |        |       |       | 16.8  | 17.1  | 16.9 | 16.7 | 16.4 | 16.5 | 16.3 | 16.0 | 15.8 | 15.8 | 15.5 | 14.7 | 13.8 | 95     |
| 100    |                     |        |       |       | 15.5  | 15.8  | 15.6 | 15.4 | 15.2 | 15.3 | 15.0 | 14.8 | 14.5 | 14.5 | 14.3 | 14.0 | 13.0 | 100    |
| 110    |                     |        |       |       |       | 13.7  | 13.5 | 13.2 | 13.0 | 13.1 | 12.9 | 12.6 | 12.4 | 12.4 | 12.1 | 11.9 | 11.6 | 110    |
| 120    |                     |        |       |       |       |       | 11.6 | 11.4 | 11.2 | 11.3 | 11.1 | 10.8 | 10.6 | 10.6 | 10.3 | 10.1 | 9.8  | 120    |
| 130    |                     |        |       |       |       |       |      | 9.9  | 9.7  | 9.8  | 9.6  | 9.4  | 9.1  | 9.1  | 8.9  | 8.6  | 8.3  | 130    |
| 140    |                     |        |       |       |       |       |      |      | 8.4  | 8.5  | 8.3  | 8.1  | 7.8  | 7.8  | 7.6  | 7.3  | 7.1  | 140    |
| 145    |                     |        |       |       |       |       |      |      |      | 8.0  | 7.7  | 7.5  | 7.2  | 7.3  | 7.0  | 6.8  | 6.5  | 145    |
| 150    |                     |        |       |       |       |       |      |      |      | 7.4  | 7.2  | 7.0  | 6.7  | 6.7  | 6.5  | 6.2  | 6.0  | 150    |
| 155    |                     |        |       |       |       |       |      |      |      |      | 6.7  | 6.5  | 6.2  | 6.2  | 6.0  | 5.7  | 5.5  | 155    |
| 160    |                     |        |       |       |       |       |      |      |      |      | 6.2  | 6.0  | 5.7  | 5.8  | 5.5  | 5.3  | 5.0  | 160    |
| 165    |                     |        |       |       |       |       |      |      |      |      |      | 5.6  | 5.3  | 5.3  | 5.1  | 4.9  | 4.6  | 165    |
| 170    |                     |        |       |       |       |       |      |      |      |      |      | 5.1  | 4.9  | 4.9  | 4.7  | 4.4  | 4.2  | 170    |
| 175    |                     |        |       |       |       |       |      |      |      |      |      |      | 4.5  | 4.5  | 4.3  | 4.1  | 3.8  | 175    |
| 180    |                     |        |       |       |       |       |      |      |      |      |      |      | 4.1  | 4.2  | 3.9  | 3.7  | 3.4  | 180    |
| 185    |                     |        |       |       |       |       |      |      |      |      |      |      |      | 3.8  | 3.6  | 3.3  | 3.1  | 185    |
| 195    |                     |        |       |       |       |       |      |      |      |      |      |      |      |      | 2.9  | 2.7  | 2.4  | 195    |

Above lift chart is for reference only. For actual lift duty please refer to lift chart in operator's cab or manual.

\*) With heavy duty boom head

# Working range - fixed jib (No. 0806.xx) 15° and 30°

## Main boom 86°- 30°



### Boom configuration for boom lengths (36 ft - 184 ft) — see table 1 on page 10

### Fixed jib configuration for fixed jib lengths (36 ft - 105 ft)

|                       | Length | Amount of fixed jib extensions |    |    |    |    |    |    |     |
|-----------------------|--------|--------------------------------|----|----|----|----|----|----|-----|
| Fixed jib foot        | 18 ft  | 1                              | 1  | 1  | 1  | 1  | 1  | 1  | 1   |
| Fixed jib insert      | 10 ft* |                                | 1  |    | 1  |    | 1  |    | 1   |
| Fixed jib insert      | 20 ft* | 0                              | 0  | 1  | 1  | 2  | 2  | 3  | 3   |
| Fixed jib head        | 18 ft  | 1                              | 1  | 1  | 1  | 1  | 1  | 1  | 1   |
| Fixed jib length (ft) |        | 36                             | 46 | 56 | 66 | 76 | 85 | 95 | 105 |

\*Actual lengths of boom sections are metric (e.g. 3 m, 6 m). The figures shown above are approximate conversions to feet.

# Lift chart – fixed jib (No. 0806.xx)

Offset 15°

## Main boom 36 ft

|             | Fixed jib length in (ft) |      |      |     |
|-------------|--------------------------|------|------|-----|
|             | 36                       | 66   | 85   | 105 |
| Radius (ft) | lbs                      | lbs  | lbs  | lbs |
| 16.8        | 60.4                     |      |      |     |
| 35          | 41.8                     | 25.1 |      |     |
| 40          | 38.8                     | 23.4 | 16.2 |     |
| 50          | 34.9                     | 21.0 | 13.1 | 9.5 |
| 55          | 33.6                     | 20.2 | 12.5 | 9.2 |
| 60          | 32.2                     | 19.5 | 11.9 | 8.9 |
| 65          | 30.4                     | 18.9 | 11.4 | 8.7 |
| 80          |                          | 16.3 | 10.1 | 8.0 |
| 95          |                          | 14.5 | 9.0  | 7.5 |
| 110         |                          |      | 8.4  | 7.2 |
| 120         |                          |      |      | 7.0 |
| 130         |                          |      |      | 6.8 |

## Main boom 66 ft

|             | Fixed jib length in (ft) |      |      |     |
|-------------|--------------------------|------|------|-----|
|             | 36                       | 66   | 85   | 105 |
| Radius (ft) | lbs                      | lbs  | lbs  | lbs |
| 19.9        | 56.1                     |      |      |     |
| 35          | 43.1                     | 24.5 |      |     |
| 45          | 38.8                     | 21.9 | 14.0 |     |
| 55          | 36.0                     | 20.5 | 12.9 | 9.2 |
| 60          | 33.1                     | 20.1 | 12.4 | 8.9 |
| 70          | 26.9                     | 19.2 | 11.6 | 8.6 |
| 80          | 22.4                     | 18.4 | 10.8 | 8.2 |
| 85          | 20.5                     | 17.8 | 10.5 | 8.0 |
| 90          | 18.9                     | 17.2 | 10.2 | 7.9 |
| 120         |                          | 13.0 | 8.7  | 7.2 |
| 140         |                          |      | 8.2  | 6.9 |
| 160         |                          |      |      | 6.6 |

## Main boom 85 ft

|             | Fixed jib length in (ft) |      |      |     |
|-------------|--------------------------|------|------|-----|
|             | 36                       | 66   | 85   | 105 |
| Radius (ft) | lbs                      | lbs  | lbs  | lbs |
| 22          | 52.7                     |      |      |     |
| 40          | 40.7                     | 22.8 |      |     |
| 45          | 38.7                     | 21.7 | 15.1 |     |
| 55          | 35.9                     | 20.4 | 12.9 | 9.1 |
| 60          | 32.6                     | 19.9 | 12.5 | 8.9 |
| 70          | 26.3                     | 19.3 | 11.8 | 8.6 |
| 80          | 21.8                     | 18.6 | 11.2 | 8.2 |
| 90          | 18.3                     | 18.0 | 10.6 | 7.9 |
| 105         | 14.4                     | 15.5 | 9.8  | 7.5 |
| 135         |                          | 10.2 | 8.6  | 7.0 |
| 155         |                          |      | 8.2  | 6.7 |
| 175         |                          |      |      | 6.5 |

## Main boom 105 ft

|             | Fixed jib length in (ft) |      |      |     |
|-------------|--------------------------|------|------|-----|
|             | 36                       | 66   | 85   | 105 |
| Radius (ft) | lbs                      | lbs  | lbs  | lbs |
| 24          | 48.4                     |      |      |     |
| 40          | 39.3                     | 21.7 |      |     |
| 50          | 36.5                     | 20.3 | 13.2 |     |
| 60          | 32.0                     | 19.5 | 12.5 | 8.9 |
| 80          | 21.2                     | 18.4 | 11.3 | 8.2 |
| 90          | 17.8                     | 17.8 | 10.8 | 7.9 |
| 100         | 15.0                     | 16.1 | 10.3 | 7.7 |
| 110         | 12.8                     | 13.9 | 9.8  | 7.5 |
| 120         | 11.0                     | 12.0 | 9.5  | 7.3 |
| 150         |                          | 7.9  | 8.3  | 6.8 |
| 170         |                          |      | 6.4  | 6.6 |
| 190         |                          |      |      | 5.1 |

## Main boom 125 ft

|             | Fixed jib length in (ft) |      |      |     |
|-------------|--------------------------|------|------|-----|
|             | 36                       | 66   | 85   | 105 |
| Radius (ft) | lbs                      | lbs  | lbs  | lbs |
| 26.1        | 41.8                     |      |      |     |
| 40          | 36.6                     | 21.7 |      |     |
| 50          | 33.9                     | 19.3 | 12.9 |     |
| 60          | 31.8                     | 18.6 | 12.3 | 8.7 |
| 80          | 21.0                     | 17.8 | 11.3 | 8.1 |
| 100         | 14.8                     | 15.9 | 10.5 | 7.7 |
| 120         | 10.8                     | 11.7 | 9.7  | 7.3 |
| 130         | 9.3                      | 10.2 | 9.3  | 7.1 |
| 140         | 7.9                      | 8.8  | 8.9  | 7.0 |
| 170         |                          | 5.7  | 6.1  | 6.5 |
| 190         |                          |      | 4.5  | 4.9 |
| 195         |                          |      |      | 4.5 |

## Main boom 144 ft

|             | Fixed jib length in (ft) |      |      |     |
|-------------|--------------------------|------|------|-----|
|             | 36                       | 66   | 85   | 105 |
| Radius (ft) | lbs                      | lbs  | lbs  | lbs |
| 28.1        | 36.6                     |      |      |     |
| 45          | 31.8                     | 18.3 |      |     |
| 55          | 29.3                     | 17.6 | 12.2 |     |
| 60          | 28.1                     | 17.4 | 11.9 | 9.0 |
| 80          | 20.5                     | 16.7 | 11.1 | 8.0 |
| 100         | 14.3                     | 15.2 | 10.3 | 7.6 |
| 120         | 10.2                     | 11.2 | 9.6  | 7.2 |
| 140         | 7.4                      | 8.3  | 8.7  | 6.9 |
| 160         | 5.2                      | 6.1  | 6.5  | 6.5 |
| 175         |                          | 4.7  | 5.2  | 5.5 |
| 180         |                          |      | 4.8  | 5.1 |
| 185         |                          |      |      | 4.7 |

## Main boom 164 ft

|             | Fixed jib length in (ft) |      |      |     |
|-------------|--------------------------|------|------|-----|
|             | 36                       | 66   | 85   | 105 |
| Radius (ft) | lbs                      | lbs  | lbs  | lbs |
| 30.2        | 31.5                     |      |      |     |
| 45          | 28.4                     | 16.9 |      |     |
| 55          | 26.7                     | 16.2 | 11.6 |     |
| 65          | 23.9                     | 15.9 | 11.2 | 8.0 |
| 80          | 20.2                     | 15.2 | 10.8 | 7.7 |
| 100         | 14.0                     | 14.3 | 9.7  | 7.4 |
| 120         | 9.9                      | 10.9 | 9.1  | 7.1 |
| 140         | 7.1                      | 8.0  | 8.4  | 6.8 |
| 165         | 4.5                      | 5.3  | 5.7  | 6.1 |
| 175         |                          | 4.5  | 4.9  | 5.2 |
| 180         |                          |      | 4.5  | 4.8 |
| 185         |                          |      |      | 4.4 |

## Main boom 174 ft

|             | Fixed jib length in (ft) |      |      |      |
|-------------|--------------------------|------|------|------|
|             | 36                       | 56   | 66   | 76   |
| Radius (ft) | lbs                      | lbs  | lbs  | lbs  |
| 31.2        | 28.8                     |      |      |      |
| 45          | 26.1                     | 18.7 | 17.2 |      |
| 50          | 25.1                     | 18.3 | 15.7 | 14.5 |
| 60          | 23.3                     | 17.7 | 15.2 | 13.1 |
| 80          | 19.6                     | 16.3 | 14.4 | 12.6 |
| 100         | 13.7                     | 14.5 | 13.3 | 10.6 |
| 120         | 9.7                      | 10.4 | 10.6 | 9.5  |
| 140         | 6.8                      | 7.4  | 7.7  | 8.0  |
| 160         | 4.7                      | 5.3  | 5.5  | 5.8  |
| 165         |                          | 4.8  | 5.1  | 5.3  |
| 170         |                          |      | 4.6  | 4.8  |
| 175         |                          |      |      | 4.4  |

## Main boom 184 ft

|             | Fixed jib length in (ft) |      |      |  |
|-------------|--------------------------|------|------|--|
|             | 36                       | 46   | 56   |  |
| Radius (ft) | lbs                      | lbs  | lbs  |  |
| 32.2        | 25.4                     |      |      |  |
| 40          | 24.4                     | 21.2 |      |  |
| 45          | 23.6                     | 20.7 | 17.7 |  |
| 60          | 21.6                     | 19.1 | 16.7 |  |
| 80          | 17.8                     | 16.6 | 15.3 |  |
| 100         | 13.4                     | 13.8 | 13.8 |  |
| 120         | 9.4                      | 9.7  | 10.1 |  |
| 130         | 7.8                      | 8.2  | 8.5  |  |
| 140         | 6.5                      | 6.8  | 7.2  |  |
| 150         | 5.4                      | 5.7  | 6.0  |  |
| 160         | 4.4                      | 4.7  | 5.0  |  |
| 165         |                          |      | 4.5  |  |

Capacities in 1000 lbs with fixed jib (No. 0806.xx), 71,200 lbs counterweight + 33,100 lbs carbody counterweight. Above lift chart is for reference only. For actual lift duty and complete chart with all available configurations please refer to lift chart in operator's cab or manual.

# Lift chart – fixed jib (No. 0806.xx)

## Offset 30°

### Main boom 36 ft

|             | Fixed jib length in (ft) |      |      |     |
|-------------|--------------------------|------|------|-----|
|             | 36                       | 66   | 85   | 105 |
| Radius (ft) | lbs                      | lbs  | lbs  | lbs |
| 25.5        | 40.7                     |      |      |     |
| 50          | 26.2                     | 16.3 |      |     |
| 60          | 23.2                     | 14.5 | 11.9 |     |
| 65          | 22.2                     | 13.8 | 10.3 |     |
| 75          |                          | 12.5 | 9.6  | 7.7 |
| 90          |                          | 11.2 | 8.7  | 6.9 |
| 95          |                          | 11.0 | 8.4  | 6.7 |
| 110         |                          |      | 7.8  | 6.1 |
| 115         |                          |      | 7.7  | 5.9 |
| 120         |                          |      |      | 5.8 |
| 130         |                          |      |      | 5.5 |
| 135         |                          |      |      | 5.5 |

### Main boom 66 ft

|             | Fixed jib length in (ft) |      |      |     |
|-------------|--------------------------|------|------|-----|
|             | 36                       | 66   | 85   | 105 |
| Radius (ft) | lbs                      | lbs  | lbs  | lbs |
| 28.6        | 39.0                     |      |      |     |
| 50          | 30.0                     | 16.8 |      |     |
| 65          | 25.8                     | 14.7 | 10.6 |     |
| 80          | 22.7                     | 13.2 | 9.7  | 7.5 |
| 90          | 19.1                     | 12.3 | 9.2  | 7.1 |
| 95          | 17.5                     | 12.0 | 8.9  | 6.9 |
| 110         |                          | 11.2 | 8.4  | 6.4 |
| 120         |                          | 11.0 | 8.0  | 6.1 |
| 130         |                          |      | 7.8  | 5.9 |
| 140         |                          |      | 7.7  | 5.7 |
| 150         |                          |      |      | 5.5 |
| 160         |                          |      |      | 5.5 |

### Main boom 85 ft

|             | Fixed jib length in (ft) |      |      |     |
|-------------|--------------------------|------|------|-----|
|             | 36                       | 66   | 85   | 105 |
| Radius (ft) | lbs                      | lbs  | lbs  | lbs |
| 30.6        | 37.6                     |      |      |     |
| 55          | 30.0                     | 16.2 |      |     |
| 65          | 27.5                     | 15.1 | 10.5 |     |
| 80          | 22.3                     | 13.7 | 9.8  | 7.5 |
| 90          | 18.7                     | 12.9 | 9.4  | 7.2 |
| 100         | 15.8                     | 12.3 | 9.0  | 6.8 |
| 110         | 13.5                     | 11.7 | 8.6  | 6.5 |
| 130         |                          | 11.0 | 8.0  | 6.0 |
| 140         |                          | 9.7  | 7.8  | 5.8 |
| 160         |                          |      | 7.7  | 5.5 |
| 170         |                          |      |      | 5.5 |
| 180         |                          |      |      | 5.5 |

### Main boom 105 ft

|             | Fixed jib length in (ft) |      |      |     |
|-------------|--------------------------|------|------|-----|
|             | 36                       | 66   | 85   | 105 |
| Radius (ft) | lbs                      | lbs  | lbs  | lbs |
| 32.7        | 35.8                     |      |      |     |
| 55          | 30.5                     | 16.0 |      |     |
| 70          | 26.5                     | 14.9 | 10.2 |     |
| 80          | 21.8                     | 14.0 | 9.8  | 7.9 |
| 90          | 18.2                     | 13.4 | 9.5  | 7.2 |
| 100         | 15.4                     | 12.7 | 9.1  | 6.9 |
| 110         | 13.1                     | 12.1 | 8.8  | 6.6 |
| 120         | 11.2                     | 11.7 | 8.5  | 6.4 |
| 125         | 10.3                     | 11.5 | 8.4  | 6.3 |
| 155         |                          | 7.5  | 7.8  | 5.7 |
| 175         |                          |      | 6.1  | 5.5 |
| 195         |                          |      |      | 4.9 |

### Main boom 125 ft

|             | Fixed jib length in (ft) |      |     |     |
|-------------|--------------------------|------|-----|-----|
|             | 36                       | 66   | 85  | 105 |
| Radius (ft) | lbs                      | lbs  | lbs | lbs |
| 34.7        | 33.6                     |      |     |     |
| 55          | 29.8                     | 17.0 |     |     |
| 70          | 26.3                     | 14.5 | 9.6 |     |
| 85          | 19.7                     | 13.7 | 9.4 | 7.3 |
| 100         | 15.2                     | 13.0 | 9.1 | 6.9 |
| 110         | 13.0                     | 12.4 | 8.9 | 6.7 |
| 120         | 11.1                     | 12.0 | 8.6 | 6.4 |
| 130         | 9.5                      | 10.6 | 8.4 | 6.2 |
| 140         | 8.1                      | 9.2  | 8.2 | 6.0 |
| 170         |                          | 5.8  | 6.4 | 5.6 |
| 190         |                          |      | 4.7 | 5.2 |
| 200         |                          |      |     | 4.4 |

### Main boom 144 ft

|             | Fixed jib length in (ft) |      |     |     |
|-------------|--------------------------|------|-----|-----|
|             | 36                       | 66   | 85  | 105 |
| Radius (ft) | lbs                      | lbs  | lbs | lbs |
| 36.8        | 30.5                     |      |     |     |
| 60          | 27.2                     | 13.2 |     |     |
| 75          | 23.4                     | 12.9 | 8.7 |     |
| 85          | 19.3                     | 12.8 | 8.6 | 7.1 |
| 100         | 14.8                     | 12.6 | 8.5 | 6.8 |
| 120         | 10.6                     | 11.7 | 8.5 | 6.4 |
| 140         | 7.6                      | 8.8  | 8.2 | 6.1 |
| 150         | 6.4                      | 7.5  | 8.1 | 5.9 |
| 160         | 5.4                      | 6.4  | 7.0 | 5.8 |
| 180         |                          | 4.5  | 5.1 | 5.4 |
| 185         |                          |      | 4.7 | 5.2 |
| 195         |                          |      |     | 4.4 |

### Main boom 164 ft

|             | Fixed jib length in (ft) |      |     |     |
|-------------|--------------------------|------|-----|-----|
|             | 36                       | 66   | 85  | 105 |
| Radius (ft) | lbs                      | lbs  | lbs | lbs |
| 38.8        | 27.2                     |      |     |     |
| 60          | 23.8                     | 15.9 |     |     |
| 75          | 20.8                     | 11.4 | 7.6 |     |
| 90          | 17.3                     | 11.1 | 7.5 | 6.8 |
| 100         | 14.5                     | 10.7 | 7.5 | 6.3 |
| 120         | 10.3                     | 10.2 | 7.5 | 5.5 |
| 140         | 7.4                      | 8.5  | 7.5 | 5.5 |
| 160         | 5.2                      | 6.2  | 6.8 | 5.5 |
| 165         | 4.7                      | 5.7  | 6.3 | 5.5 |
| 175         |                          | 4.8  | 5.3 | 5.5 |
| 185         |                          |      | 4.5 | 5.0 |
| 190         |                          |      |     | 4.6 |

### Main boom 174 ft

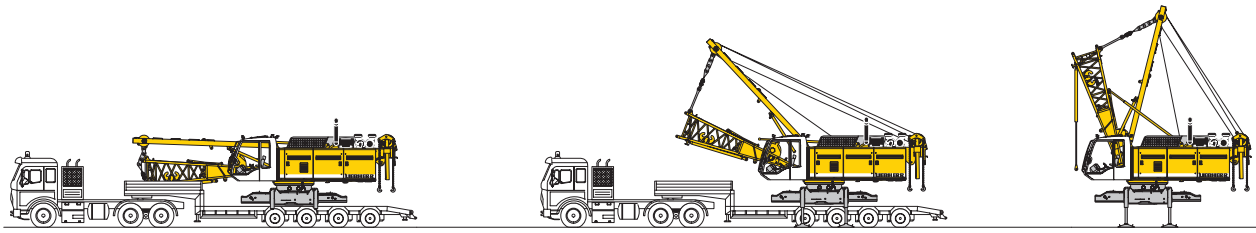
|             | Fixed jib length in (ft) |      |      |     |
|-------------|--------------------------|------|------|-----|
|             | 36                       | 56   | 66   | 75  |
| Radius (ft) | lbs                      | lbs  | lbs  | lbs |
| 39.9        | 24.6                     |      |      |     |
| 55          | 22.2                     | 13.7 |      |     |
| 60          | 21.6                     | 13.6 | 11.3 |     |
| 70          | 20.1                     | 12.7 | 10.8 | 8.9 |
| 80          | 18.5                     | 12.1 | 10.3 | 8.5 |
| 100         | 14.3                     | 11.4 | 10.0 | 8.4 |
| 120         | 10.1                     | 10.5 | 9.8  | 8.2 |
| 140         | 7.2                      | 8.0  | 8.3  | 7.8 |
| 165         | 4.5                      | 5.2  | 5.5  | 5.8 |
| 170         |                          | 4.7  | 5.0  | 5.3 |
| 175         |                          |      | 4.6  | 4.9 |
| 180         |                          |      |      | 4.4 |

### Main boom 184 ft

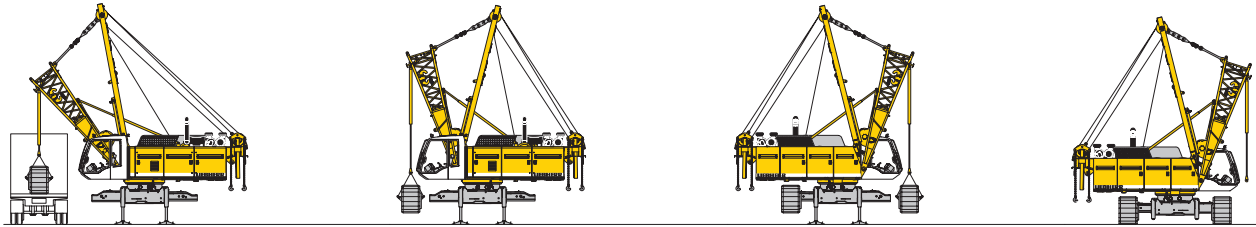
|             | Fixed jib length in (ft) |      |      |  |
|-------------|--------------------------|------|------|--|
|             | 36                       | 46   | 56   |  |
| Radius (ft) | lbs                      | lbs  | lbs  |  |
| 40.9        | 22.1                     |      |      |  |
| 55          | 20.6                     | 18.3 | 16.5 |  |
| 60          | 20.0                     | 17.4 | 15.4 |  |
| 80          | 17.2                     | 15.9 | 14.4 |  |
| 100         | 14.0                     | 13.9 | 12.9 |  |
| 120         | 9.8                      | 10.3 | 10.8 |  |
| 130         | 8.2                      | 8.7  | 9.1  |  |
| 140         | 6.9                      | 7.3  | 7.7  |  |
| 150         | 5.7                      | 6.1  | 6.5  |  |
| 160         | 4.7                      | 5.0  | 5.4  |  |
| 165         |                          | 4.6  | 4.9  |  |
| 170         |                          |      | 4.5  |  |

Capacities in 1000 lbs with fixed jib (No. 0806.xx), 71,200 lbs counterweight + 33,100 lbs carbody counterweight. Above lift chart is for reference only. For actual lift duty and complete chart with all available configurations please refer to lift chart in operator's cab or manual.

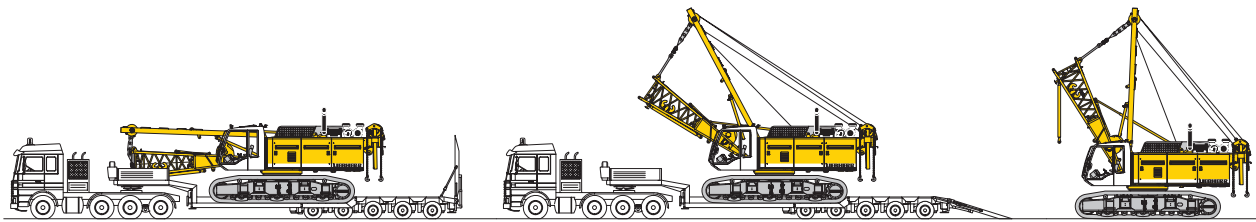
# Self assembly system



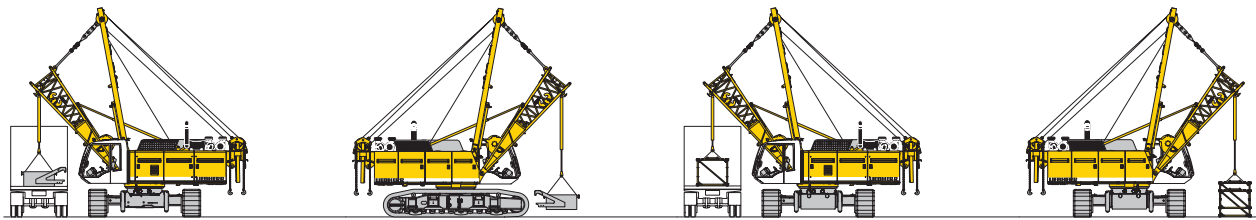
Unloading of basic machine (option)



Unloading and assembly of crawlers

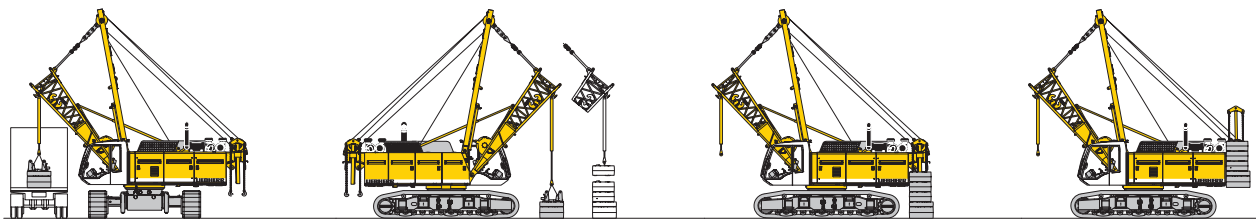


Unloading of basic machine (standard)

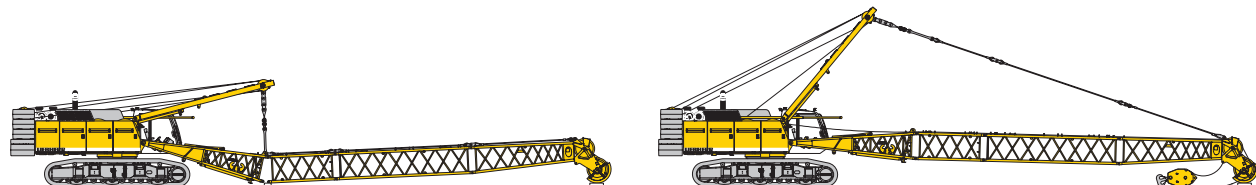


Unloading and assembly of carbody counterweight

Unloading and assembly of boom



Unloading and assembly of counterweight



Assembly of boom and reeving of hoist ropes