

Construction Machine

# **HS 8130 HD** Litronic®

EN

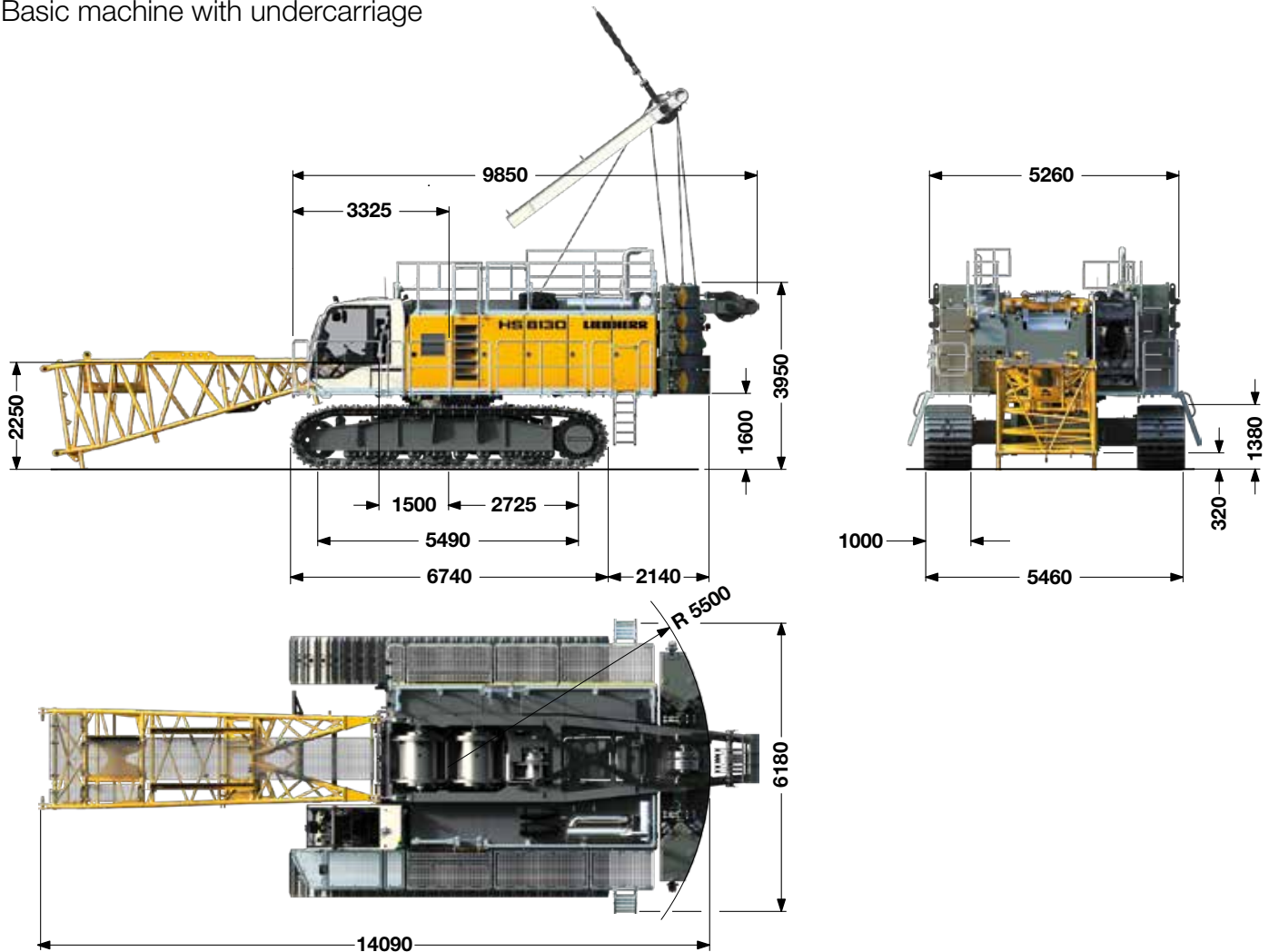
HS 8005.01



# **LIEBHERR**

# Dimensions

Basic machine with undercarriage



## Operating weight

The operating weight includes the basic machine with HD undercarriage, 2 main winches 350 kN including wire ropes (90 m), and 14 m main boom, consisting of A-frame, boom foot (7 m) and boom head (7 m), 29 t basic counterweight, 1000 mm 2-web grousers and 50 t hook block.

Total weight \_\_\_\_\_ approx. 116 t

## Ground pressure

Ground bearing pressure \_\_\_\_\_ 1.06 kg/cm<sup>2</sup>

## Equipment

Main boom (No. 2018.33) max. length \_\_\_\_\_ 53 m  
Modular designed equipment for lifting operation, with dragline or clamshell.

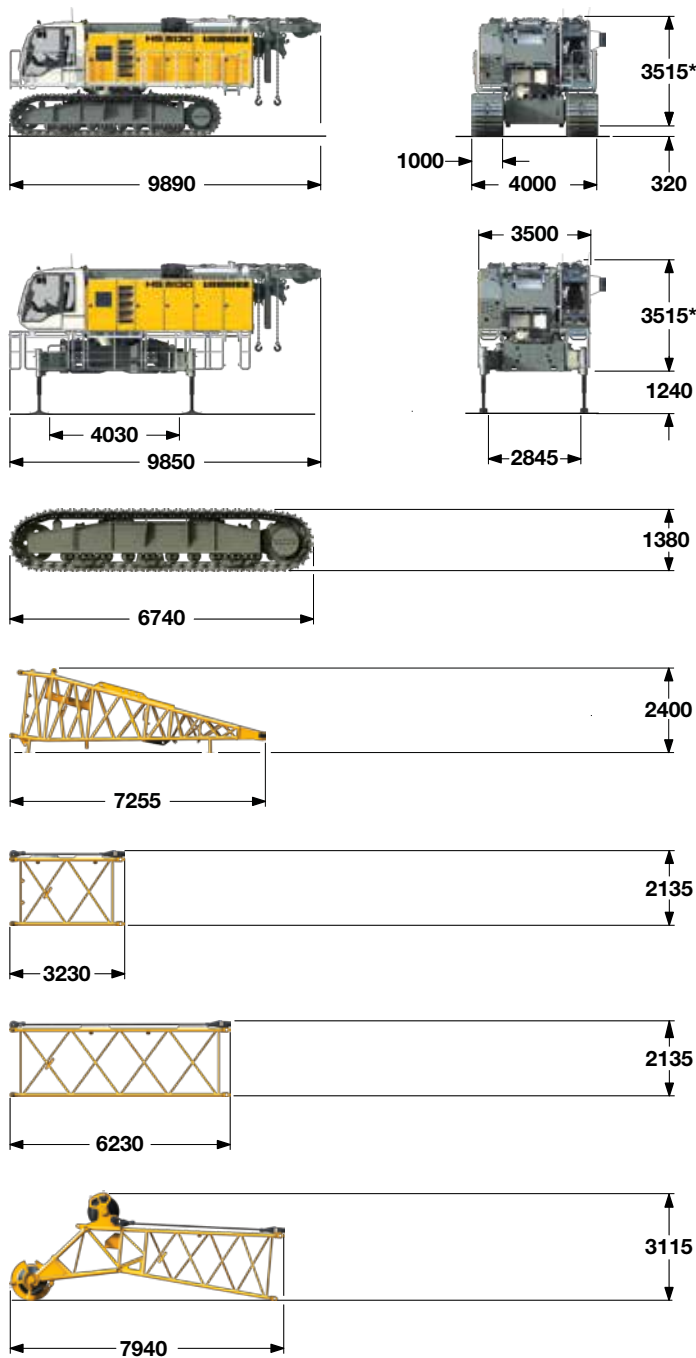
For dragline operation, a rotating fairlead is fitted into the boom foot. This minimizes the rope angle to drum, which results in lower rope wear.

## Remarks

1. Liebherr cable excavator HS 8005.01
2. Designed according to EN 474-1 and EN 474-12.
3. Machine standing on firm, horizontal ground.
4. The weight of the lifting device (hoist ropes, hook block, shackle etc.) must be deducted from the gross lifting capacity to obtain a net lifting value.
5. Additional equipment on boom (e.g. boom catwalks, auxiliary jib) must be deducted to get the net lifting capacity.
6. For max. wind speed please refer to lift chart in operator's cab or manual.
7. Working radii are measured from centre of swing and under load.
8. The lifting capacities are valid for 360 degrees of swing.

# Transport dimensions and weights

Basic machine and boom (No. 2018.33)



\*) 3450 mm with diesel engines for countries with little regulation, compliant with emissions level according to regulation ECE-R.96 H.

## Basic machine

with HD undercarriage, A-frame, 2x 350 kN winches and self-assembly system for counterweight, without boom foot, and basic counterweight. Machine is ready for operation.

|                                |            |
|--------------------------------|------------|
| Width                          | 4000 mm    |
| Weight without hoist rope      | 78000 kg   |
| Weight of hoist rope (2x 90 m) | 6.455 kg/m |

## Basic machine

with A-frame, self-assembly system, 2x 350 kN winches without boom foot, basic counterweight and crawlers. Machine is ready for operation.

|                                |            |
|--------------------------------|------------|
| Width                          | 3500 mm    |
| Weight without hoist rope      | 51000 kg   |
| Weight of hoist rope (2x 90 m) | 6.455 kg/m |

## Crawler

2x

|                |          |
|----------------|----------|
| 2-web grouzers | 1000 mm  |
| Width          | 1055 mm  |
| Weight         | 14900 kg |

## Boom foot (No. 2018.33)

7 m

|                            |         |
|----------------------------|---------|
| Width                      | 2500 mm |
| Weight incl. pendant ropes | 3215 kg |

## Boom section (No. 2018.33)

3 m

|                            |         |
|----------------------------|---------|
| Width                      | 2110 mm |
| Weight incl. pendant ropes | 750 kg  |

## Boom section (No. 2018.33)

6 m

|                            |         |
|----------------------------|---------|
| Width                      | 2110 mm |
| Weight incl. pendant ropes | 1230 kg |

## Boom head (No. 2018.33)

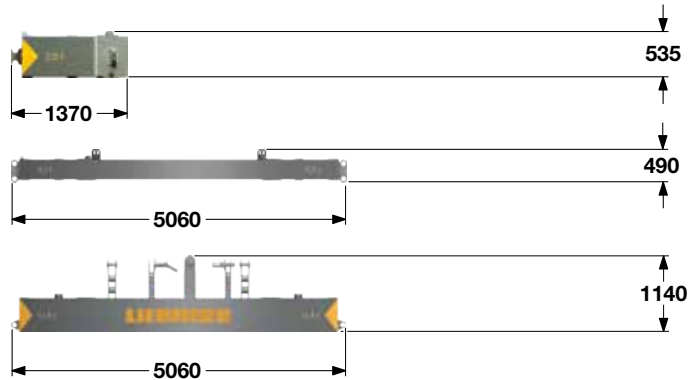
7 m

|                            |         |
|----------------------------|---------|
| Width                      | 2110 mm |
| Weight incl. pendant ropes | 3950 kg |

Weights can vary with the final configuration of the machine. The figures in this brochure may include options which are not within the standard scope of supply of the machine.

# Transport dimensions and weights

## Counterweights



### Counterweight (option 6x) **4x**

|        |         |
|--------|---------|
| Width  | 840 mm  |
| Weight | 2680 kg |

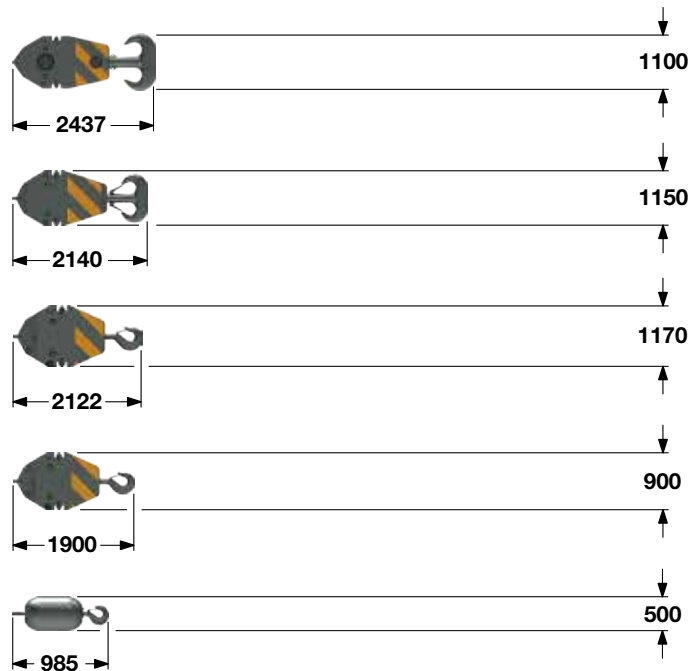
### Counterweight **1x**

|        |         |
|--------|---------|
| Width  | 1220 mm |
| Weight | 6300 kg |

### Counterweight **1x**

|        |          |
|--------|----------|
| Width  | 1220 mm  |
| Weight | 12000 kg |

## Hooks



### 160 t hook block – 3 sheaves

|        |         |
|--------|---------|
| Width  | 420 mm  |
| Weight | 2011 kg |

### 100 t hook block – 2 sheaves

|        |         |
|--------|---------|
| Width  | 270 mm  |
| Weight | 1200 kg |

### 80 t hook block – 1 sheave

|        |         |
|--------|---------|
| Width  | 245 mm  |
| Weight | 1200 kg |

### 50 t hook block – 1 sheave

|        |        |
|--------|--------|
| Width  | 230 mm |
| Weight | 750 kg |

### 35 t single hook

|        |        |
|--------|--------|
| Width  | 500 mm |
| Weight | 800 kg |

# Technical description



## Engine

Power rating according to ISO 9249, 505 kW (677 hp) at 1700 rpm  
Engine type ————— Liebherr D 9508 A7-04  
Fuel tank ————— 770 l capacity with continuous level  
————— indicator and reserve warning  
AdBlue tank ————— 96 l capacity with continuous level  
————— indicator and reserve warning  
Engine complies with NRMM exhaust certification EPA CARB Tier 4f and 97/68 EC Stage IV.

### ECO-Silent Mode:

For work not requiring high engine power, the diesel engine can be operated in the ECO-Silent Mode (e.g. for inserting reinforcement cages, for dragline or lifting operation).

Due to the ECO-Silent Mode which can be preselected by the operator the engine runs with optimum fuel efficiency. This lowers consumption and reduces noise emission.

### Option:

Engine with power reduction to 495 kW (QPME Ready)



## Hydraulic system

The 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 signaled in the cabin.

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

Working pressure ——— max. 350 bar

Oil tank capacity ——— 1170 l



## 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.

2-web grousers ————— 1000 mm

Drive speed ————— 0 – 1.25 km/h

### Option:

- Self-assembly system, jack-up system



## Noise emission

Noise emissions correspond with 2000/14/EC directive.

Guaranteed sound pressure level  $L_{PA}$  in the cabin ————— 75.7 dB(A)

Guaranteed sound power level  $L_{WA}$  ————— 110 dB(A)

Vibration transmitted to the hand-arm system of the machine operator ————— < 2.5 m/s<sup>2</sup>

Vibration transmitted to the whole body of the machine operator ————— < 0.5 m/s<sup>2</sup>



## Main winches

### Winch options:

Line pull (nom. load) ————— 350 kN

Rope diameter ————— 36 mm

Drum diameter ————— 830 mm

Rope speed ————— 0-95 m/min

Rope capacity 1st layer ————— 46.9 m

Rope capacity in 4 layers (useable length) ————— 235 m

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 ————— 70 kN in boom foot

Tagline winch ————— 30 kN with free fall

Tagline winch ————— 70 kN with free fall



## Control

The core of the Liebherr machines is the Litronic control system.

Developed and manufactured by Liebherr, this comprehensive system encompasses all control and monitoring functions and is designed to withstand extreme temperature changes and the rough heavy duty tasks common in the construction industry. Complete machine operating data, warnings and failure indications are clearly displayed in the required language on the high resolution monitor in the operator's cab.

Documentation of operating data (PDE) enables optimum diagnosis as well as early detection and prevention of more serious defects.

An electro-hydraulic proportional control allows several movements to be performed simultaneously. This ensures that all categories of loads can be positioned with utmost precision.

### Options:

- PDE: Process data recording
- LiTU: Liebherr Telematics Unit
- Piling control / chisel control



## 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 0–3.8 rpm continuously variable, selector for 3 speed ranges to increase swing precision.



## Boom winch

Line pull ————— max. 165 kN

Rope diameter ————— 24 mm

Boom up ————— 56 sec. from 15° to 84°

# Equipment

Casing oscillator and clamshell



## Casing oscillator

Max. drilling diameter ————— 3300 mm

# Load chart for grab operation

34.3 t counterweight (main boom No. 2018.33)

## Capacities in metric tonnes for boom lengths (20 m – 38 m)

| Radius | Boom length (m) |      |      |      |      |      |      | Radius |
|--------|-----------------|------|------|------|------|------|------|--------|
|        | 20              | 23   | 26   | 29   | 32   | 35   | 38   |        |
| (m)    | t               | t    | t    | t    | t    | t    | t    | (m)    |
| 5.6    |                 |      | 52.2 |      |      |      |      | 5.6    |
| 6      | 53.0            | 53.0 | 51.1 | 50.0 |      |      |      | 6      |
| 7      | 53.0            | 53.0 | 48.1 | 46.9 | 40.1 | 38.9 | 33.9 | 7      |
| 8      | 51.1            | 50.8 | 45.5 | 44.1 | 37.7 | 36.5 | 31.7 | 8      |
| 12     | 28.5            | 28.5 | 28.4 | 28.4 | 28.3 | 27.8 | 25.2 | 12     |
| 16     | 19.1            | 19.0 | 18.9 | 18.8 | 18.7 | 18.1 | 17.5 | 16     |
| 20     | 13.8            | 13.8 | 13.7 | 13.6 | 13.4 | 13.0 | 12.5 | 20     |
| 24     |                 | 9.3  | 10.4 | 10.3 | 10.2 | 10.1 | 9.7  | 24     |
| 26     |                 |      | 9.0  | 8.9  | 8.7  | 8.5  | 8.3  | 26     |
| 30     |                 |      |      | 5.8  | 5.7  | 5.5  | 5.3  | 30     |
| 32     |                 |      |      |      | 4.5  | 4.3  | 4.1  | 32     |
| 34     |                 |      |      |      |      | 3.2  | 3.0  | 34     |
| 36     |                 |      |      |      |      |      | 2.1  | 36     |

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Max. capacities in metric tonnes do not exceed 66.7% of tipping load. Capacities are for reference only and are not programmed in the LMI system.

Max. lifting capacity with mechanical grab is 35 t. For higher lifting capacities a hydraulic grab is required.

## Dynamic soil compaction



## Load chart for dynamic soil compaction

29.0 t counterweight (main boom No. 2018.33)

### Capacities in metric tonnes for boom lengths (20 m – 35 m)

| Radius<br>(m) | Boom length (m) |      |      |      |      |      |
|---------------|-----------------|------|------|------|------|------|
|               | 20              | 23   | 26   | 29   | 32   | 35   |
|               | t               | t    | t    | t    | t    | t    |
| 8             | 34.1            | 33.9 | 30.3 | 29.4 | 25.1 |      |
| 9             | 29.8            | 29.7 | 28.7 | 27.5 | 23.9 | 22.8 |
| 10            |                 | 25.5 | 25.5 | 25.4 | 22.4 | 21.5 |
| 11            |                 |      | 22.2 | 22.1 | 20.9 | 20.3 |

Max. capacities in metric tonnes do not exceed 75% of tipping load.

All loads given are max. values and must not be exceeded. They are only permitted in two-rope automatic operation and are valid for work on a surface with max. inclination of 1%. Lifting heights must not exceed 25 m.

# Equipment

## Slurry wall grab

### Maximum capacity in duty cycle operation with standard ropes

|                                                       |    |      |
|-------------------------------------------------------|----|------|
| Line pull (1st layer)                                 | kN | 350  |
| Rope diameter                                         | mm | 36   |
| Minimum breaking load                                 | kN | 1220 |
| Line pull - 1-rope duty cycle operation               | kN | 350  |
| Line pull - 2-rope duty cycle operation <sup>1)</sup> | kN | 530  |

- 1) Lifting a load exceeding the line pull of one winch is only allowed if it can be ensured that each individual winch is not overloaded. When working with a mechanical 2-rope grab the total load to be lifted is limited by the line pull of one winch. Rigging and ropes are part of the load. Max. capacities in metric tonnes do not exceed 75% of tipping load.

Capacities in slurry wall operation are for reference only and are not programmed in the LMI system.

All loads and counterweight configurations are max. values and must not be exceeded.

Weight of additional equipment on boom (e.g. catwalks, hose drums etc.) must be deducted to get the net capacity.



## Load chart for slurry wall operation

34.3 t counterweight (main boom No. 2018.33)

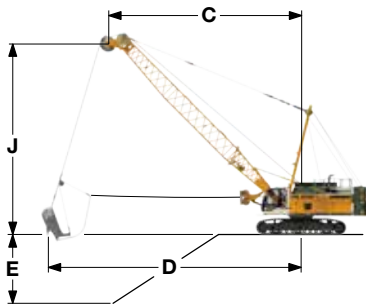
### Capacities in metric tonnes for boom lengths (14 m – 38 m)

| Radius<br>(m) | Boom length (m) |         |         |         |         |         |         |         |         | Radius<br>(m) |
|---------------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------------|
|               | 14<br>t         | 17<br>t | 20<br>t | 23<br>t | 26<br>t | 29<br>t | 32<br>t | 35<br>t | 38<br>t |               |
| 5.6           |                 |         |         |         | 52.2    |         |         |         |         | 5.6           |
| 6             |                 |         | 53.0    | 53.0    | 51.1    | 50.0    |         |         |         | 6             |
| 7             | 53.0            | 53.0    | 53.0    | 53.0    | 48.1    | 46.9    | 40.1    | 38.9    | 33.9    | 7             |
| 8             | 46.5            | 46.6    | 46.6    | 46.6    | 45.5    | 44.1    | 37.7    | 36.5    | 31.7    | 8             |
| 9             | 39.0            | 39.1    | 39.1    | 39.1    | 39.1    | 39.0    | 35.8    | 34.2    | 29.8    | 9             |
| 10            | 33.5            | 33.6    | 33.6    | 33.6    | 33.5    | 33.5    | 33.4    | 32.2    | 28.2    | 10            |
| 12            | 25.8            | 25.9    | 26.0    | 25.9    | 25.9    | 25.8    | 25.7    | 25.6    | 25.2    | 12            |
| 14            | 20.8            | 20.9    | 20.9    | 20.9    | 20.8    | 20.7    | 20.6    | 20.5    | 20.4    | 14            |
| 16            |                 | 17.3    | 17.3    | 17.3    | 17.2    | 17.1    | 17.0    | 16.9    | 16.8    | 16            |
| 18            |                 | 14.5    | 14.6    | 14.6    | 14.6    | 14.5    | 14.4    | 14.2    | 14.1    | 18            |
| 20            |                 |         | 12.5    | 12.5    | 12.5    | 12.4    | 12.3    | 12.2    | 12.0    | 20            |
| 22            |                 |         |         | 10.8    | 10.8    | 10.7    | 10.6    | 10.5    | 10.4    | 22            |
| 24            |                 |         |         | 9.3     | 9.4     | 9.4     | 9.3     | 9.1     | 9.0     | 24            |
| 26            |                 |         |         |         | 8.3     | 8.2     | 8.1     | 8.0     | 7.9     | 26            |
| 28            |                 |         |         |         |         | 7.2     | 7.1     | 6.9     | 6.7     | 28            |
| 30            |                 |         |         |         |         | 5.8     | 5.7     | 5.5     | 5.3     | 30            |
| 32            |                 |         |         |         |         |         | 4.5     | 4.3     | 4.1     | 32            |
| 34            |                 |         |         |         |         |         |         | 3.2     | 3.0     | 34            |
| 36            |                 |         |         |         |         |         |         |         | 2.1     | 36            |
| 38            |                 |         |         |         |         |         |         |         | 1.2     | 38            |

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Max. lifting capacity with mechanical grab is 35 t. For higher lifting capacities a hydraulic grab is required. Stability calculated according to EN 996:1995. Machine standing on firm, horizontal ground.

## Dragline equipment



### Digging diagram

- C = Radius / dumping radius
- D = Max. digging radius = approx.  
C + 1/3 to 1/2 J
- E = Digging depth = approx.  
40 - 50% of C
- J = Height to centre rope pulley  
boom head



## Load chart for dragline operation

34.3 t counterweight (main boom No. 2018.33)

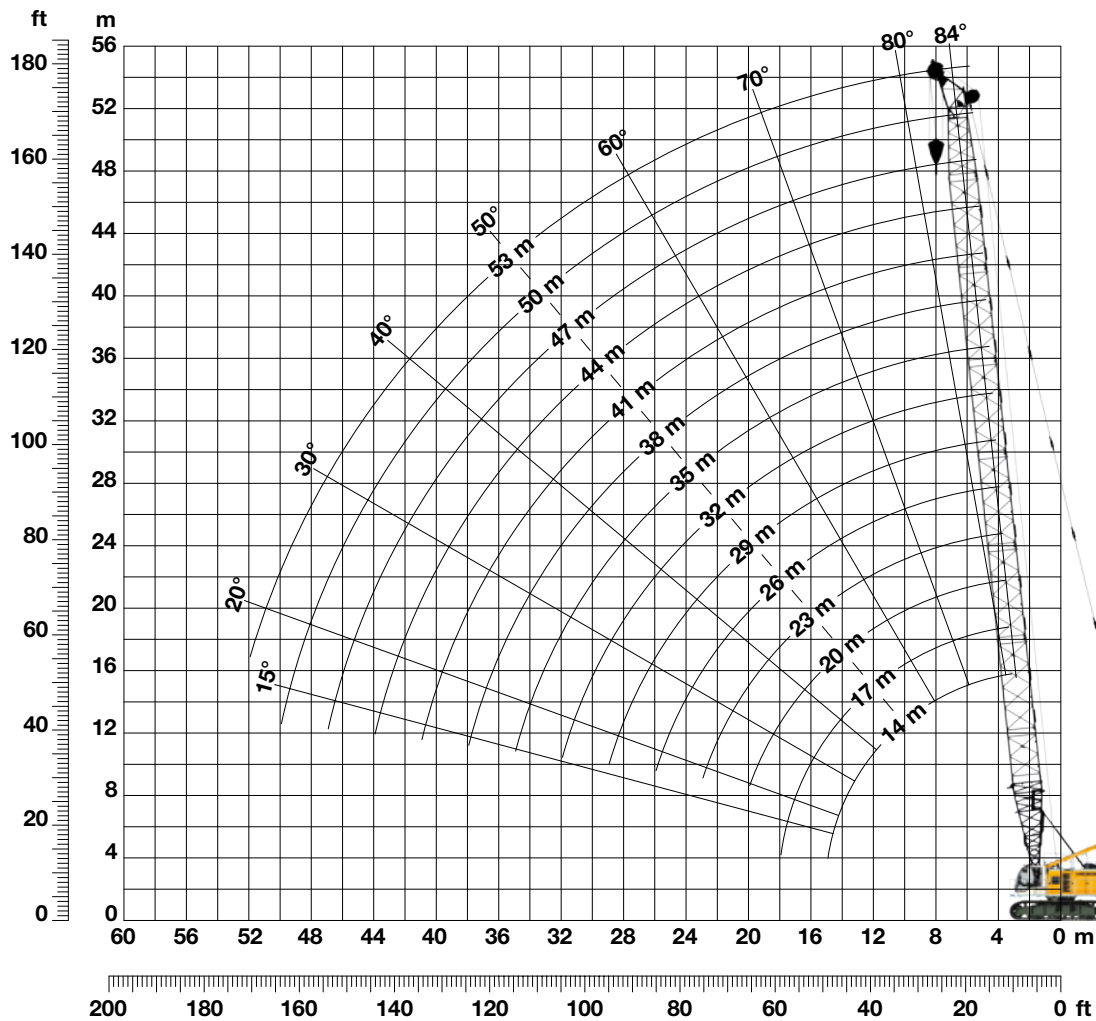
### Capacities in metric tonnes for boom lengths (14 m – 35 m)

|       | Boom length (m) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|       | 14              |      |      | 20   |      |      | 26   |      |      | 29   |      |      | 32   |      |      | 35   |      |      |       |
| alpha | C               | J    |      | C    | J    |      | C    | J    |      | C    | J    |      | C    | J    |      | C    | J    |      | alpha |
|       | (m)             | (m)  | (t)  | (m)  | (m)  | (t)  | (m)  | (m)  | (t)  | (m)  | (m)  | (t)  | (m)  | (m)  | (t)  | (m)  | (m)  | (t)  |       |
| 55    | 10.7            | 12.9 | 37.8 | 14.2 | 17.8 | 25.6 | 17.6 | 22.7 | 17.2 | 19.4 | 25.2 | 14.5 | 21.1 | 27.7 | 12.5 | 22.8 | 30.1 | 10.8 | 55    |
| 50    | 11.7            | 12.1 | 33.6 | 15.5 | 16.7 | 22.6 | 19.4 | 21.3 | 14.8 | 21.3 | 23.6 | 12.7 | 23.2 | 25.9 | 11.0 | 25.2 | 28.2 | 9.2  | 50    |
| 45    | 12.5            | 11.2 | 30.5 | 16.7 | 15.5 | 20.0 | 21.0 | 19.7 | 13.3 | 23.1 | 21.8 | 11.3 | 25.2 | 23.9 | 9.4  | 27.4 | 26.1 | 7.4  | 45    |
| 40    | 13.3            | 10.3 | 28.0 | 17.9 | 14.1 | 18.1 | 22.5 | 18.0 | 12.2 | 24.8 | 19.9 | 10.0 | 27.1 | 21.8 | 7.8  | 29.4 | 23.8 | 5.9  | 40    |
| 35    | 13.9            | 9.2  | 26.1 | 18.9 | 12.7 | 16.4 | 23.8 | 16.1 | 11.1 | 26.2 | 17.8 | 8.7  | 28.7 | 19.6 | 6.6  | 31.1 | 21.3 | 4.8  | 35    |
| 30    | 14.5            | 8.2  | 24.6 | 19.7 | 11.2 | 15.1 | 24.9 | 14.2 | 10.0 | 27.5 | 15.7 | 7.6  | 30.1 | 17.2 | 5.6  | 32.7 | 18.7 | 3.9  | 30    |
| 25    | 15.0            | 7.0  | 21.8 | 20.4 | 9.6  | 13.3 | 25.9 | 12.1 | 9.1  | 28.6 | 13.4 | 6.8  | 31.3 | 14.6 | 4.9  | 34.0 | 15.9 | 3.2  | 25    |

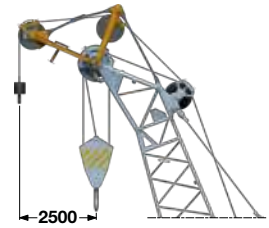
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Max. capacities in metric tonnes do not exceed 75% of tipping load. Capacities are for reference only and are not programmed in the LMI system. The size of the bucket has to be determined according to local conditions.

# Working range - main boom 84° - 15°



Auxiliary jib 36 t



The maximum capacity of the auxiliary jib is 36 t. The corresponding load chart is programmed in the LMI system.

## Main boom configuration

from 14 m to 53 m (Table 1 - No. 2018.33)

|                          | Length | Configuration for boom lengths |           |           |           |           |           |           |           |           |           |           |           |           |           |
|--------------------------|--------|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                          |        | 7 m                            | 3 m       | 6 m       | 7 m       | 14 m      | 17 m      | 20 m      | 23 m      | 26 m      | 29 m      | 32 m      | 35 m      | 38 m      | 41 m      |
| Boom foot                | 7 m    | 1                              | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
| Boom section             | 3 m    |                                | 1         |           | 1         |           | 1         |           | 1         |           | 1         |           | 1         |           | 1         |
| Boom section             | 6 m    |                                |           | 1         | 1         | 2         | 2         | 3         | 3         | 4         | 4         | 5         | 5         | 6         | 6         |
| Boom head                | 7 m    | 1                              | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
| <b>Boom length (m)</b>   |        | <b>14</b>                      | <b>17</b> | <b>20</b> | <b>23</b> | <b>26</b> | <b>29</b> | <b>32</b> | <b>35</b> | <b>38</b> | <b>41</b> | <b>44</b> | <b>47</b> | <b>50</b> | <b>53</b> |
| Auxiliary jib applicable |        | ✓                              | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |

# Load chart for lifting operation

with 29 t counterweight (main boom No. 2018.33)

## Capacities in metric tonnes for boom lengths (14 m – 50 m) - with 350 kN winches

| Radius<br>(m) | Boom length (m) |         |         |         |         |         |         |         |         |         |         |         |         | Radius<br>(m) |
|---------------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------------|
|               | 14<br>t         | 17<br>t | 20<br>t | 23<br>t | 26<br>t | 29<br>t | 32<br>t | 35<br>t | 38<br>t | 41<br>t | 44<br>t | 47<br>t | 50<br>t |               |
| 4             | 130.0           |         |         |         |         |         |         |         |         |         |         |         |         | 4             |
| 5             | 106.0           | 100.2   | 94.9    | 90.1    |         |         |         |         |         |         |         |         |         | 5             |
| 6             | 83.0            | 79.2    | 75.7    | 72.5    | 69.4    | 66.6    | 63.9    |         |         |         |         |         |         | 6             |
| 7             | 67.9            | 65.2    | 62.8    | 60.4    | 58.1    | 56.0    | 54.0    | 52.1    | 50.2    | 48.5    |         |         |         | 7             |
| 8             | 56.1            | 55.3    | 53.4    | 51.6    | 49.8    | 48.2    | 46.5    | 45.0    | 43.5    | 42.1    | 40.7    | 39.4    | 38.1    | 8             |
| 10            | 40.2            | 40.3    | 40.3    | 39.5    | 38.4    | 37.2    | 36.1    | 35.0    | 34.0    | 32.9    | 31.9    | 31.0    | 30.0    | 10            |
| 12            | 30.8            | 30.9    | 30.9    | 30.9    | 30.8    | 30.0    | 29.1    | 28.3    | 27.5    | 26.6    | 25.9    | 25.1    | 24.3    | 12            |
| 14            | 24.6            | 24.7    | 24.8    | 24.7    | 24.6    | 24.5    | 24.1    | 23.6    | 22.9    | 22.3    | 21.6    | 21.0    | 20.3    | 14            |
| 18            |                 | 17.1    | 17.2    | 17.2    | 17.1    | 16.9    | 16.8    | 16.6    | 16.5    | 16.0    | 15.5    | 15.0    | 14.5    | 18            |
| 20            |                 |         | 14.6    | 14.6    | 14.5    | 14.4    | 14.3    | 14.1    | 13.9    | 13.7    | 13.3    | 12.8    | 12.4    | 20            |
| 24            |                 |         |         | 10.8    | 10.8    | 10.7    | 10.5    | 10.4    | 10.2    | 10.0    | 9.8     | 9.6     | 9.2     | 24            |
| 26            |                 |         |         |         | 9.4     | 9.3     | 9.1     | 9.0     | 8.8     | 8.6     | 8.4     | 8.2     | 7.9     | 26            |
| 30            |                 |         |         |         |         | 7.0     | 6.9     | 6.8     | 6.6     | 6.4     | 6.2     | 6.0     | 5.8     | 30            |
| 32            |                 |         |         |         |         |         | 6.0     | 5.9     | 5.7     | 5.5     | 5.3     | 5.1     | 4.9     | 32            |
| 34            |                 |         |         |         |         |         |         | 5.1     | 4.9     | 4.7     | 4.6     | 4.3     | 4.1     | 34            |
| 38            |                 |         |         |         |         |         |         |         | 3.6     | 3.4     | 3.3     | 3.0     | 2.8     | 38            |
| 40            |                 |         |         |         |         |         |         |         |         | 2.9     | 2.7     | 2.5     | 2.3     | 40            |
| 44            |                 |         |         |         |         |         |         |         |         |         | 1.7     | 1.5     | 1.4     | 44            |
| 46            |                 |         |         |         |         |         |         |         |         |         |         | 1.1     |         | 46            |

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with 34.3 t counterweight (main boom No. 2018.33)

## Capacities in metric tonnes for boom lengths (14 m – 53 m) - with 350 kN winches

| Radius<br>(m) | Boom length (m) |         |         |         |         |         |         |         |         |         |         |         |         |         | Radius<br>(m) |
|---------------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------------|
|               | 14<br>t         | 17<br>t | 20<br>t | 23<br>t | 26<br>t | 29<br>t | 32<br>t | 35<br>t | 38<br>t | 41<br>t | 44<br>t | 47<br>t | 50<br>t | 53<br>t |               |
| 5             |                 |         |         | 98.4    |         |         |         |         |         |         |         |         |         |         | 5             |
| 6             | 47.3            | 86.6    | 82.8    | 79.3    | 76.0    | 72.9    | 70.0    |         |         |         |         |         |         |         | 6             |
| 7             | 74.3            | 71.4    | 68.7    | 66.2    | 63.7    | 61.4    | 59.2    | 57.2    | 55.2    | 53.3    |         |         |         |         | 7             |
| 8             | 61.4            | 60.6    | 58.5    | 56.6    | 54.7    | 52.9    | 51.1    | 49.5    | 47.9    | 46.4    | 44.9    | 43.5    | 42.1    | 40.7    | 8             |
| 10            | 44.1            | 44.2    | 44.3    | 43.5    | 42.2    | 41.0    | 39.8    | 38.6    | 37.5    | 36.4    | 35.3    | 34.3    | 33.3    | 32.3    | 10            |
| 12            | 34.0            | 34.1    | 34.1    | 34.0    | 33.9    | 33.1    | 32.2    | 31.3    | 30.4    | 29.6    | 28.7    | 27.9    | 27.1    | 26.3    | 12            |
| 14            | 27.2            | 27.3    | 27.4    | 27.3    | 27.2    | 27.1    | 26.8    | 26.0    | 25.3    | 24.6    | 23.9    | 23.4    | 22.7    | 22.1    | 14            |
| 18            |                 | 19.0    | 19.2    | 19.1    | 19.0    | 18.9    | 18.7    | 18.6    | 18.4    | 18.0    | 17.5    | 16.9    | 16.4    | 15.9    | 18            |
| 20            |                 |         | 16.4    | 16.3    | 16.3    | 16.1    | 16.0    | 15.8    | 15.6    | 15.4    | 15.1    | 14.6    | 14.1    | 13.6    | 20            |
| 24            |                 |         |         | 12.2    | 12.2    | 12.1    | 11.9    | 11.8    | 11.6    | 11.4    | 11.2    | 11.0    | 10.7    | 10.2    | 24            |
| 26            |                 |         |         |         | 10.7    | 10.5    | 10.4    | 10.2    | 10.1    | 9.9     | 9.7     | 9.5     | 9.3     | 8.9     | 26            |
| 30            |                 |         |         |         |         | 8.1     | 8.0     | 7.9     | 7.7     | 7.5     | 7.3     | 7.1     | 6.9     | 6.7     | 30            |
| 32            |                 |         |         |         |         |         | 7.0     | 6.9     | 6.7     | 6.5     | 6.4     | 6.1     | 5.9     | 5.7     | 32            |
| 34            |                 |         |         |         |         |         |         | 6.0     | 5.9     | 5.7     | 5.5     | 5.3     | 5.1     | 4.9     | 34            |
| 38            |                 |         |         |         |         |         |         |         | 4.5     | 4.3     | 4.1     | 3.9     | 3.7     | 3.5     | 38            |
| 40            |                 |         |         |         |         |         |         |         |         | 3.7     | 3.5     | 3.3     | 3.1     | 2.9     | 40            |
| 44            |                 |         |         |         |         |         |         |         |         |         | 2.5     | 2.3     | 2.1     | 1.9     | 44            |
| 46            |                 |         |         |         |         |         |         |         |         |         |         | 1.8     | 1.6     | 1.4     | 46            |
| 48            |                 |         |         |         |         |         |         |         |         |         |         |         | 1.2     | 1.0     | 48            |

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