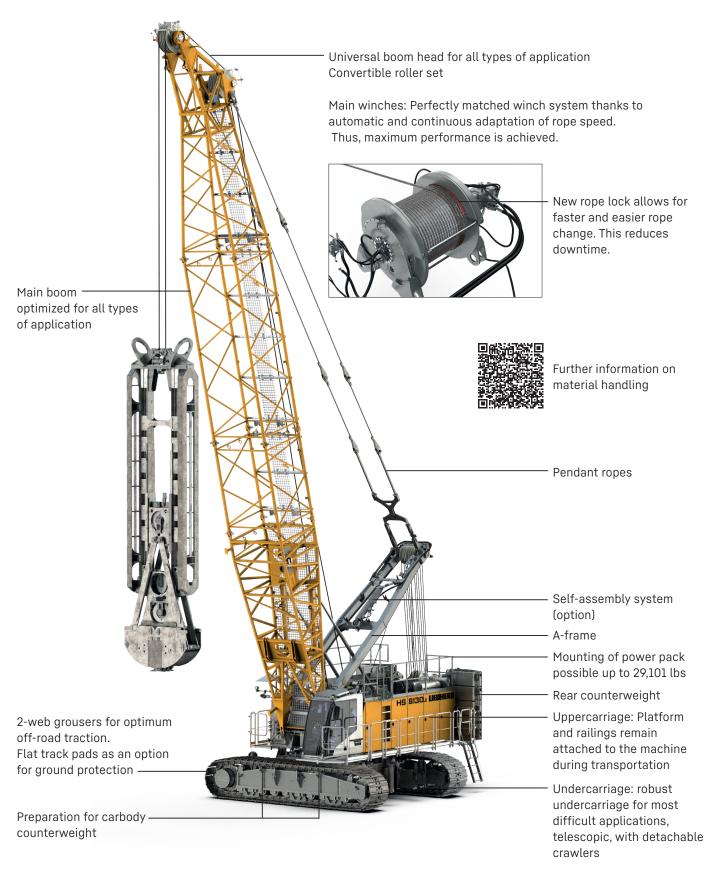


## **Concept and characteristics**





The newly developed cabin combines operator comfort with easy handling.

Air conditioning combined with an air-suspended seat offers an ideal workplace for the operator.

- Completely new cabin design focusing on ergonomics and operating comfort
- -Improved soundproofing
- Orthopaedic seat, heatable, coolable and ventilated
- Individually adjustable monitors
- -Integrated cool box for storage of provisions
- Charger for mobile devices
- Front window made of safety glass
- Heated outside mirror



### Gear oil level warning

The new warning allows the operator to check the gear oil levels of both main winches, the swing drive and the luffing winch. This facilitates daily maintenance of the machine.





Gear oil level warning of winch 1 lights up green: Gear oil level of winch 1 is sufficient.



Gear oil level warning of winch 1 lights up yellow after ten seconds: Fill gear oil for winch 1.



### Ground pressure visualisation



## **Technical description**



### Operating weight

Composition of operating weight

Basic machine with HD undercarriage, 2 main winches 78,683 lbf including wire ropes, 46 ft main boom, consisting of A-frame, boom foot (23 ft) and boom head (23 ft), 63,934 lbs rear counterweight, 2-web grousers (width 3 ft), 110,231 lbs hook block

Total weight approx. 255,736 lbs

### **Ground pressure**

Ground pressure	15.08 PSI	_

#### **Equipment**

Lifting operation	max. 174 ft
with fixed jib	max. 135 ft
Duty cycle operation	max. 125 ft
	with fixed jib



Power rating according to ISO 9249	565 kW (758 hp) at 1700 rpm
Engine type	Liebherr D 9508 A7-04
Fuel tank capacity	203 gal with continuous level indicator and reserve warning
AdBlue tank capacity	35 gal with continuous level indicator and reserve warning
Exhaust certification	EPA/CARB Tier 4f and EU 2016/1628 Stage V



Noise measurement dat	a and vibra	tion	
Noise emission	according to	o 2000/14/EC directive	
Emission sound pressure level Lp4	76.2 dB(A)	(in the cabin)	
Guaranteed sound power level L <sub>wa</sub>	109 dB(A)	(of the machine)	
Vibration transmitted to the	< 8.2 ft/s²	(to the hand-arm system)	
machine operator	< 1.6 ft/s²	(to the whole body)	



## Hydraulic system

Hydraulic pumps	Variable pumps in closed and open circuits supplying oil only when needed (flow control on demand)
Hydraulic oil tank capacity	309 gal
Max. working pressure	5.076 PSI
Max. power at the connection plate	509 hp (2x 111gal/min) for external appliances
Hydraulic oil	electronic monitoring of all filters use of synthetic environmentally friendly oil possible
Hydraulic retrofit kits for attachments	ready-made customized hydraulic retrofit kits are available e.g. powering casing oscillators. vibrators. hydraulic grabs, fixed leaders



Main winches	pressure controlled, variable flow hydraulic motors for the drag and hoist winches, full utilisation of engine power as the winch speed is automatically adjusted to suit the respective line pull Free fall: clutch and braking functions are provided by the service brake (low wear and maintenance-free multi-disc brake in compact design)
Line pull (nominal load)	78,683 lbf
Line pull in the 4 <sup>th</sup> layer	64,408 lbf
Rope diameter	36 mm
Drum diameter	2.7 ft
Rope speed	0-315 ft/min
Rope capacity in the 1st layer	144 ft
Rope capacity in 4 layers	774 ft (effective length)
Options	
Auxiliary winch	17,310 lbf in boom foot
Tagline winch	6,744 lbf with free fall
Tagline winch	15,737 lbf with free fall



Line pull	max. 37,093 lbf
Rope diameter	24 mm
Boom luffing	15-84° in 56 s



Drive system	with fixed axial piston hydraulic motors
Crawler side frames	maintenance-free, with hydraulic chain tensioning device
Brake	hydraulically released, spring-loaded multi-disc holding brake
Drive speed	0-0.81 mph
Grousers	2-web grousers, width 3 ft
Width of undercarriage	automatic track width adjustment from transport width to operating width via hydraulic cylinders
Options	self-assembly system, jack-up system Flat track pads, width 3 ft

### Swing gear

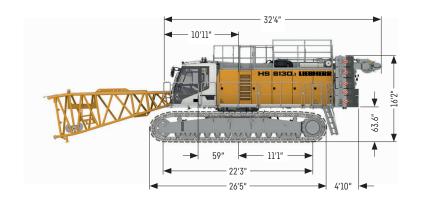
Drive system	fixed axial piston hydraulic motors, planetary gearbox, pinion
Swing ring	roller bearing with external teeth
Brake	hydraulically released, spring-loaded multi-disc holding brake
Swing speed	0-4 rpm continuously variable, selector for 3 speed ranges to increase swing precision
Lubrication system	automatic central lubrication system reduces main- tenance requirements and increases service life
Option	Display of swing angle

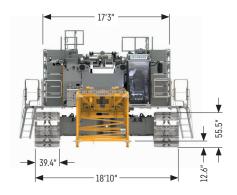


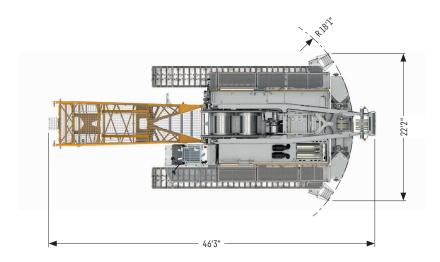
_ controt	
Control	includes all control and monitoring functions, designed to withstand extreme environmental conditions and heavy duty construction tasks
Display	high resolution monitor in the operator's cabin, clear display of complete machine operating data, warnings and failure indications in the required language
Operation	several movements can be performed simultaneously thanks to electro-hydraulic proportional control, all categories of loads can be positioned with utmost precision
Options	PDE": process data recording LiTU: Liebherr Telematics Unit

## **Dimensions**

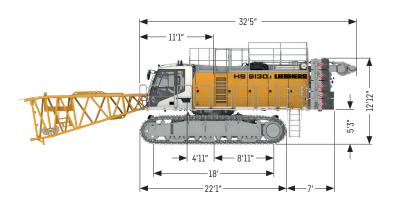
## Basic machine with wide track and long crawlers (standard)

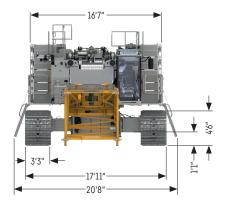


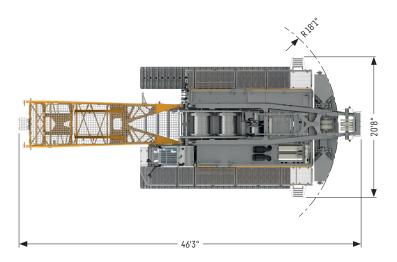




### **Basic machine with undercarriage (option)**







#### Remarks

- -Liebherr cable excavator HS 8005.01.03
- -Designed according to EN 474-1 and EN 474-12.
- Machine is standing on firm, horizontal ground.
- -The weight of the lifting device (pulley block, hoist ropes, shackles etc.) must be deducted from the load capacity.
- -Additional equipment on boom (e.g. walkways) must be deducted from the lifting capacity.
- For max. wind speed please refer to lift chart in operator's cab or manual.
- Working radii are measured from centre of swing and under load.

- -The lifting capacities are valid for 360 degrees of swing.
- -The last digits of the given dimensions are rounded to 0 and 5 and may differ from the actual dimensions.
- -Weights may vary depending on the delivered configuration of the machine filling level of the tanks as well as generally valid tolerances.
- The figures in this brochure may include options which are not within the standard scope of supply of the machine.

## **Grab versions**

### **Assistance system**

#### **GrabMatic**

- Grab visualisation
  The status of the grab (open, closed) is shown on the display.
- Slack rope automatic When positioning the grab, it is possible that slack rope occurs. This is counteracted by the control system.
- Level cutting
  This function allows the dredging of a level surface under water to a specified depth.
- Automatic winch synchronisation
   Thanks to the automatic winch synchronisation, lifting and lowering is possible with just one control lever.
- Grab filling level
  Automatic hoisting and lowering of the grab
  during dredging enables an optimum filling
  level of the grab.
- Cycle counter

  The number of work cycles is shown on the display.

### **Dredging interface**

The interface allows the integration of different systems with which, for example, the swell compensation can be implemented.







for depths up to 82 ft (131 ft upon request)



### Casing oscillator

Max. drilling diameter

### HS 8130 during operation



### Dredging assistant (option)



ft 11

### **Capacities in grab operation**

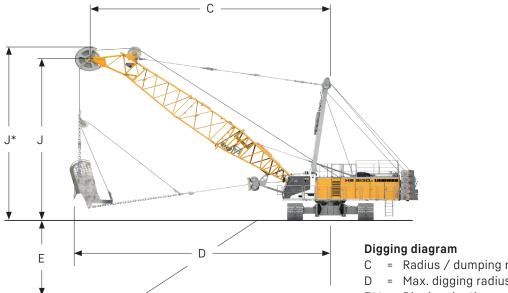
Capacities in [1000 lbs] with 75.620 lbs counterweight

		Boom length [ft]								
		56	66	76	85	95	105	115	125	
	20	116.8*	116.8*	116.8*	112.1*	109.8*				
	25	116.8*	116.8*	114.1*	102.4*	99.5*	85.4*	82.2*	72.0	
	30	94.1*	94.1*	94.1*	94.0*	90.1*	78.0*	74.8	65.2	
	35	75.2	75.3	75.2	75.1	75.0	71.8	68.2	59.6	
	40	62.2	62.3	62.2	62.0	61.8	61.6	59.9	54.9	
	45	52.6	52.7	52.6	52.5	52.2	52.0	51.7	47.7	
	50	45.3	45.4	45.3	45.1	44.9	44.7	43.2	42.0	
	55	39.4	39.6	39.5	39.4	39.1	38.8	37.2	35.6	
₽	60	30.9	34.9	34.8	34.7	34.4	33.6	32.5	31.2	
Radius [ft]	65		30.9	30.9	30.8	30.5	29.9	29.0	27.9	
뼕	70		23.7	27.6	27.5	27.2	27.0	26.2	25.3	
~	75			24.7	24.7	24.4	24.2	23.7	23.1	
	80			18.9	22.2	22.0	21.8	21.4	20.9	
	85				20.0	19.9	19.7	19.3	19.0	
	90					18.0	17.8	17.5	17.2	
	95					16.0	16.1	15.8	15.5	
	100						14.6	14.3	14.0	
	105						12.7	13.0	12.7	
	110							11.7	11.5	
	115							9.8	10.4	
	120								9.4	
	125								7.4	

TLT 13163554 M349160 PF. Stability calculated according to EN 474-12. The load capacities do not exceed 66 % of the tipping load.

<sup>\*</sup>Max. lifting capacity with mechanical grab is 77,162 lbs. For higher lifting capacities a hydraulic grab is required (dual-winch operation).

## **Dragline equipment**



= Radius / dumping radius

= Max. digging radius = approx. C + 1/3 to 1/2 J

E\*\* = Digging depth = approx. 40-50% of C

= Height to centre rope pulley boom head

J + 2.1 ft

\*\*The depth of cut, casting distance and digging reach may vary considerably depending on digging conditions, design of bucket and operator's skill.

Maximum digging depths are attainable under ideal conditions and cannot be guaranteed.

### Capacities in dragline operation

Capacities in [1000 lbs] with 75.600 lbs counterweight

		Boom length [ft]											
			46		56			66			75		
		С	J		С	J		С	J		С	J	
		[ft]	[ft]	[1000 lbs]	[ft]	[ft]	[1000 lbs]	[ft]	[ft]	[1000 lbs]	[ft]	[ft]	[1000 lbs]
⊡	55	34.6	42.4	76.5	40.9	50.3	68.7	46.5	58.6	56.8	52.2	66.5	46.5
albha	50	38.2	39.7	66.4	44.6	47.2	60.9	50.9	54.7	50.0	57.2	62.3	40.5
ᇹ	45	41.0	36.8	60.1	48.0	43.7	54.8	54.9	50.7	44.1	61.9	57.6	35.1
	40	43.5	33.5	55.2	51.0	40.0	50.1	58.6	46.2	39.8	66.1	52.5	31.7
	35	45.7	30.2	51.3	53.7	36.0	46.5	61.8	41.4	36.1	69.9	47.2	29.5
	30	47.5	26.7	48.6	56.1	31.7	42.9	64.6	36.5	33.2	73.2	41.4	27.3
	25	49.2	23.2	46.0	58.0	27.3	37.3	67.0	31.3	29.6	75.9	35.4	24.5

TLT 13163554 M349160 PF. Stability calculated according to EN 474-12.

Max. capacities do not exceed 75% of tipping load.

The size of the bucket has to be determined according to local conditions.

Capacities in [1000 lbs] with 75,600 lbs counterweight

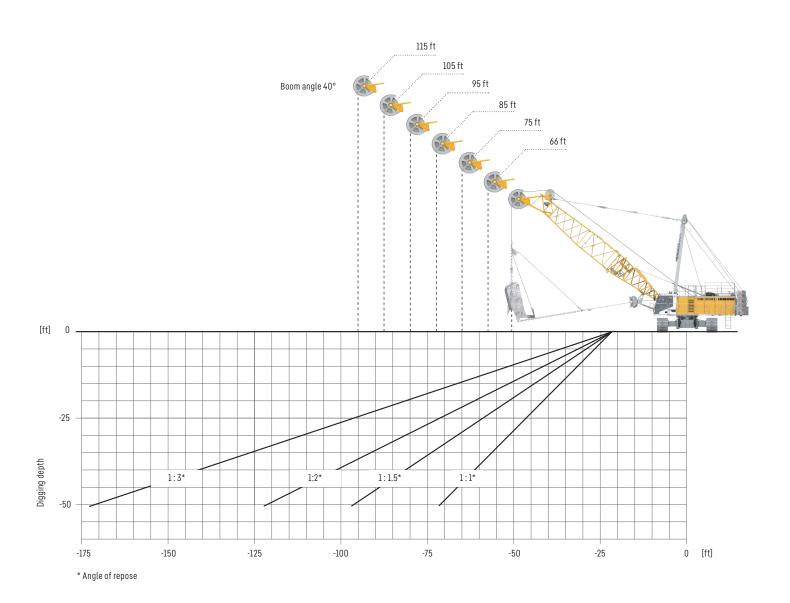
			85			95			105		115		
		С	J		С	J		С	J		С	J	
		[ft]	[ft]	[1000 lbs]	[ft]	[ft]	[1000 lbs]	[ft]	[ft]	[1000 lbs]	[ft]	[ft]	[1000 lbs]
⊡	55	57.8	74.7	38.1	63.5	82.8	31.8	69.1	90.7	27.4	74.8	98.9	23.9
alpha	50	63.6	69.8	32.7	69.9	77.6	28.0	76.2	84.9	24.3	82.6	92.4	20.9
a	45	68.9	64.7	29.3	75.9	71.5	24.9	82.8	78.6	21.6	89.7	85.5	18.4
	40	73.7	58.8	27.0	81.4	65.4	22.8	88.8	71.6	19.6	96.3	77.9	16.6
	35	78.0	52.9	24.8	86.1	58.6	20.8	94.1	64.3	17.9	102.2	69.8	14.9
	30	81.7	46.5	23.3	90.5	51.6	19.4	98.8	56.4	16.6	107.3	61.2	13.9
	25	84.9	39.6	20.4	94.3	44.0	17.9	102.7	48.0	14.3	111.7	52.2	11.6

TLT 13163554 M349160 PF. Stability calculated according to EN 474-12.

Max. capacities do not exceed 75% of tipping load.

The size of the bucket has to be determined according to local conditions.

# Planning aid for dragline operation



Selection of dragline bucket and possible digging depths at 40° boom angle

<u> </u>		33 3 1	<u> </u>			
Main boom [ft]	66	75	85	95	105	115
Dragline bucket [m³/yd³]	<b>5.7</b> / 7.5	<b>5</b> / 6.5	<b>3.8</b> / 5	<b>3.4</b> / 4.5	<b>2.5</b> / 3.25	<b>1.9</b> / 2.5
Dumping reach D [ft]	78.1	88.3	98.4	108.6	118.8	128.9
Digging depth* E [ft]	35.1	39.7	44.3	48.9	53.5	57.7

Selection of dragline bucket and possible digging depths at 35° boom angle

		00 0 1				
Main boom [ft]	66	75	85	95	105	115
Dragline bucket [m³/yd³]	<b>5.7</b> / 7.7	<b>4.2</b> / 5.5	<b>3.8</b> / 5	<b>2.8</b> / 3.75	<b>2.1</b> / 2.75	1.5 / 2
Dumping reach D [ft]	79.4	89.6	100.1	110.2	121.1	131.2
Digging depth* E [ft]	37.1	42	46.9	51.5	56.4	61.4

Density: 1.8 tm³ and fill factor 0.8
\* The digging depth depends on the material's angle of repose.

Dragline buckets in various designs depending on the ground conditions

## Slurry wall grab

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

Line pull (1st layer)	lbf	78,683
Rope diameter	mm	36
Minimum breaking load	lbf	274,267
Line pull – 1-rope duty cycle operation	lbf	78,683
Line pull - 2-rope duty cycle operation 1)	lbf	119,149

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.

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

### Capacities in [1000 lbs] with 75,600 lbs counterweight

					Boom length [ft]				
	46	56	66	75	85	95	105	115	125
15	116.8								
20	116.8	116.8	116.8	116.8	96.5	93.3			
25	106.6	106.8	106.9	106.4	88.2	84.5	72.7	68.8	60.4
30	81.0	81.2	81.3	81.3	81.2	77.2	66.5	62.5	54.6
35	64.8	65.0	65.0	65.0	64.9	64.7	61.3	56.9	49.9
40	53.6	53.7	53.8	53.7	53.6	53.4	53.2	52.1	46.0
45	45.2	45.5	45.6	45.4	45.3	45.1	44.9	44.7	41.9
50	38.7	39.1	39.2	39.1	39.0	38.8	38.6	38.3	38.1
55		34.0	34.2	34.1	34.0	33.8	33.6	33.3	33.0
60 65		29.2	30.1	30.0	29.9	29.7	29.5	29.2	29.0
65			26.7	26.7	26.6	26.4	26.1	25.9	25.6
70			22.5	23.8	23.7	23.5	23.3	23.0	22.8
75				21.3	21.3	21.1	20.9	20.6	20.4
80				17.8	19.2	19.0	18.8	18.5	18.3
85					17.3	17.2	17.0	16.7	16.4
90						15.5	15.4	15.1	14.8
95						14.0	13.9	13.7	13.4
100							12.6	12.4	12.1
105							11.4	11.2	11.0
110								10.1	9.9
115								9.1	9.0
120									8.1

TLT 13184894 M338340. Stability calculated according to EN 16228-5. Machine is standing on firm, horizontal ground.

 $<sup>^*\</sup>text{Max. lifting capacity with mechanical grab is 77,162 lbs. For higher lifting capacities a hydraulic grab is required.}$ 

## **Dynamic soil compaction**

#### Soil compaction control

The soil compaction control makes working with dynamic compaction easier and offers the operator more protection. They can use the system to enter the number of blows per point. The process is documented in the PDE and can be analysed using various systems.



### Capacities in [1000 lbs] with 75,600 lbs counterweight

				Boom le	ngth [ft]		
Ξ		66	75	85	95	105	115
Radius	26	77.9	76.1	68.3	66.3	56.9	54.8
Rad	30	67.9	65.9	63.0	60.1	52.0	49.9
	33			53.3	51.8	47.9	45.5

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 82 ft.

Option: Piling control incl. cabin protection and armoured glass

Max. main boom 105 ft



## **Special applications**

- -Vibro-flot (deep vibrator)
- -Hammer
- -Vibrator (free-hanging)
- -Shaft excavation
- Rock handling
- Magnet system

Capacities in [1000 lbs] with 75,600 lbs counterweight

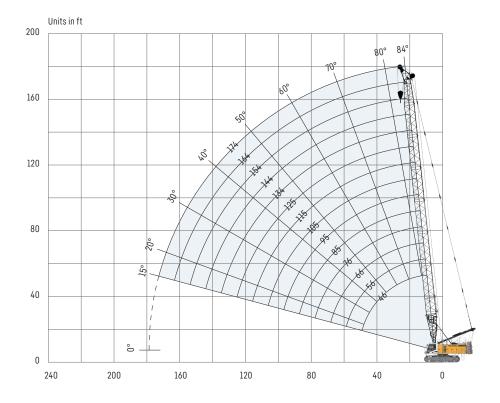
_		,			Boom le	ngth [ft]			
		56	66	75	85	95	105	115	125
	20	116.8*	116.8*	116.8*	112.1*	109.8*			
	25	116.8*	116.8*	114.1*	102.4*	99.5*	85.4*	82.2*	72.0
	30	102.2*	101.9*	98.8*	94.5*	90.1*	78.0*	74.8	65.2
	35	84.6*	83.9*	81.7*	*80.0	77.7*	71.8	68.2	59.6
	40	70.7	70.1	69.1	66.8	65.6	62.1	59.9	54.9
	45	59.8	59.7	58.0	56.9	54.8	53.3	51.7	47.7
	50	51.4	51.6	49.7	48.4	46.7	45.4	43.2	42.0
	55	44.8	43.9	43.0	41.5	39.8	38.8	37.2	35.6
₽_	60	30.9	38.1	37.0	35.6	34.9	33.6	32.5	31.2
Radius [ft]	65		33.1	32.4	31.7	31.0	29.9	29.0	27.9
ag	70		23.7	29.3	28.7	28.0	27.0	26.2	25.3
2	75			25.7	26.2	25.4	24.8	23.7	23.1
	80			18.9	24.0	23.4	22.5	21.9	20.9
	85				20.3	21.3	20.7	20.0	19.2
	90					19.7	19.1	18.3	17.6
	95					16.0	17.6	17.0	16.1
	100						16.2	15.6	14.9
	105						12.7	14.3	13.8
	110							12.7	12.6
	115							9.8	11.5
	120								9.8
	125								7.4

 $TLT 13163554\ M349160\ PF.\ Stability\ calculated\ according\ to\ EN\ 474-12.\ Max.\ capacities\ do\ not\ exceed\ 75\ \%\ of\ tipping\ load.$  Above capacities\ are for\ reference\ only\ and\ are\ not\ programmed\ in\ the\ LML\ system.

<sup>\*</sup>Lifting a load which exceeds 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.

## **Lifting operation**

### Main boom 84°-15°





Auxiliary jib 79,366 lbs
The maximum capacity of the auxiliary jib is 79,366 lbs.
The corresponding load chart is programmed in the LML system.

Main boom configuration

Boom section		Amount of boom sections												
Boom foot 23 ft	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom section 10 ft		1		1		1		1		1		1		1
Boom section 20 ft			1	1	2	2	3	3	4	4	5	5	6	6
Boom head 23 ft	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom length [ft]	46	56	66	76	85	95	105	115	125	134	144	154	164	174
Auxiliary jib	/	~	~	~	/	<b>✓</b>	<b>/</b>	~	~	~	~	~	~	~

preferred boom combinations

### Capacities in [1000 lbs]

		Boom length [ft]														
			46			56			66			75			85	
	*	64	76	99 [+15]	64	76	99 [+15]	64	76	99 [+15]	64	76	99 [+15]	64	76	99 [+15]
	13	286.6	286.6													
	14				237.3	237.3										
	15	269.6	269.6		234.9	234.9		237.6	242.3							
	20	182.2	182.2		174.2	190.2		166.6	182.0		159.6	174.4		153.0	167.2	
	25	127.6	127.6	168.6	128.0	139.9	169.0	126.9	138.9	168.1	122.4	134.0	162.4	118.1	129.4	156.9
₽	30	96.8	96.8	128.6	97.1	106.4	128.9	97.3	106.4	129.0	97.3	106.4	129.0	95.5	104.7	127.4
Radius [ft]	35	77.3	77.3	103.3	77.5	85.1	103.5	77.6	85.2	103.6	77.6	85.1	103.6	77.4	85.0	103.4
agin	40	63.7	63.7	85.6	64.0	70.3	85.9	64.1	70.4	86.0	64.0	70.3	85.9	63.8	70.2	85.8
~	45	53.6	53.6	72.6	54.0	59.5	73.0	54.1	59.6	73.1	54.0	59.5	73.0	53.8	59.3	72.8
	50	46.1	46.1	55.6	46.6	51.5	63.1	46.8	51.7	63.2	46.7	51.6	63.1	46.5	51.4	63.0
	55				40.5	44.8	55.1	40.7	45.1	55.4	40.6	45.0	55.3	40.5	44.8	55.2
	60				35.3	39.3	48.9	35.8	39.7	49.3	35.7	39.6	49.2	35.6	39.5	49.1
	65							31.6	35.2	44.0	31.6	35.2	44.0	31.5	35.1	43.8
	70							28.0	31.3	39.4	28.1	31.4	39.5	28.0	31.3	39.4
	75										25.1	28.2	35.6	25.1	28.1	35.6
	80										22.4	25.2	31.7	22.5	25.4	32.3
$\perp$	85													20.2	22.9	29.4

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<sup>\*</sup> Counterweight in [1000 lbs] rounded: 64 = 63,940 lbs, 76 = 75,620 lbs, 99+15 = 99,210+15,450 lbs

<sup>[+15]</sup> Carbody counterweight in [1000 lbs] rounded: 64 = 63,940 lbs, 76 = 75,620 lbs, 99+15 = 99,210+15,450 lbs

### Capacities in [1000 lbs]

		Boom length [ft]														
			95			105			115			125			135	
_	*	64	76	99 [+15]	64	76	99 [+15]	64	76	99 [+15]	64	76	99 [+15]	64	76	99 [+15]
	20	146.8	160.6	194.1	141.0	154.2	170.8									
	25	114.1	125.0	151.7	110.1	120.8	146.7	106.4	116.8	140.2	103.1	112.9	134.4	99.7	109.2	120.8
	30	92.6	101.7	123.7	89.7	98.6	120.1	86.9	95.6	116.6	84.2	92.7	113.2	81.7	90.0	110.0
	35	77.2	84.8	103.3	74.9	82.5	101.1	72.7	80.2	98.4	70.6	77.9	95.7	68.5	75.7	93.0
	40	63.6	70.0	85.6	63.4	69.7	85.3	62.0	68.5	84.5	60.2	66.6	82.4	58.4	64.8	80.2
	45	53.6	59.1	72.6	53.3	58.8	72.3	53.0	58.6	72.1	52.4	57.8	71.7	50.8	56.2	70.0
	50	46.3	51.1	62.7	46.0	50.9	62.4	45.7	50.6	62.1	45.4	50.2	61.8	44.4	49.5	61.5
	55	40.2	44.6	54.9	39.9	44.3	54.6	39.6	44.0	54.3	39.3	43.6	53.9	38.9	43.3	53.6
	60	35.3	39.2	48.8	35.0	38.9	48.6	34.7	38.6	48.2	34.3	38.3	47.9	34.0	37.9	47.5
Radius [ft]	65	31.2	34.8	43.6	30.9	34.5	43.3	30.6	34.2	43.0	30.2	33.8	42.6	29.9	33.5	42.2
gins	70	27.8	31.1	39.1	27.5	30.8	38.9	27.2	30.4	38.5	26.8	30.1	38.2	26.4	29.7	37.8
Rac	75	24.8	27.9	35.4	24.6	27.6	35.1	24.2	27.3	34.8	23.9	26.9	34.4	23.5	26.6	34.0
	80	22.3	25.1	32.1	22.0	24.9	31.8	21.7	24.5	31.5	21.4	24.2	31.2	21.0	23.8	30.8
	85	20.0	22.7	29.2	19.8	22.5	29.0	19.5	22.1	28.6	19.1	21.8	28.3	18.7	21.4	27.9
	90	18.0	20.6	26.7	17.9	20.4	26.5	17.5	20.0	26.1	17.2	19.7	25.8	16.8	19.3	25.4
	95	16.2	18.6	24.4	16.1	18.5	24.2	15.8	18.1	23.9	15.4	17.8	23.6	15.0	17.4	23.2
	100				14.5	16.8	22.2	14.1	16.4	21.9	13.8	16.1	21.6	13.3	15.7	21.2
	105				12.9	15.2	20.3	12.6	14.9	20.1	12.3	14.5	19.8	11.8	14.1	19.4
	110							11.2	13.4	18.4	10.9	13.0	18.2	10.4	12.6	17.8
	115							9.9	12.0	16.9	9.6	11.7	16.7	9.2	11.3	16.2
	120										8.5	10.4	15.2	8.1	10.0	14.8
	125										7.4	9.3	13.8	7.0	8.9	13.5
	130													6.0	7.8	12.2
	135													5.1	6.8	11.0

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<sup>\*</sup> Counterweight in [1000 lbs] rounded: 64 = 63,940 lbs, 76 = 75,620 lbs, 99+15 = 99,210+15,450 lbs [+15] Carbody counterweight in [1000 lbs] rounded: 64 = 63,940 lbs, 76 = 75,620 lbs, 99+15 = 99,210+15,450 lbs

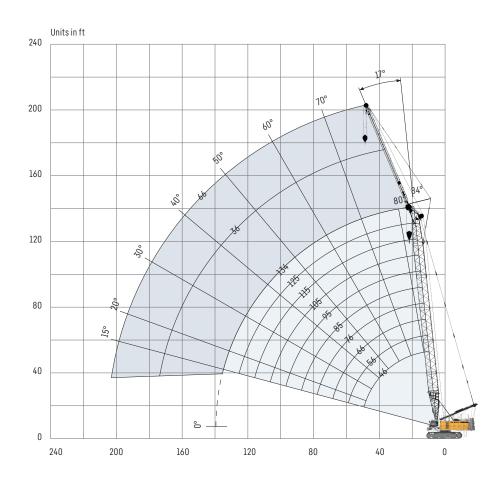
### Capacities in [1000 lbs]

		Boom length [ft]									
			144			154		10	64	174	
	*	64	76	99 [+15]	64	76	99 [+15]	76	99 [+15]	99 [+15]	
	25	96.4	105.6	109.5	92.9	98.1	98.1			76.1	
	30	79.1	87.2	102.0	76.7	84.4	91.9	81.8	81.8	71.3	
	35	66.4	73.4	90.5	64.4	71.4	85.4	69.0	69.0	66.0	
	40	56.7	62.9	78.0	55.0	61.1	75.9	59.3	59.3	62.3	
	45	49.3	54.6	68.2	47.8	53.0	66.3	51.8	51.8	55.4	
	50	43.0	48.1	60.1	41.7	46.7	58.6	45.3	45.3	49.2	
	55	37.8	42.5	53.2	36.6	41.2	52.0	39.9	39.9	44.0	
	60	33.5	37.5	47.2	32.3	36.6	46.8	35.4	35.4	39.4	
	65	29.5	33.1	41.9	28.7	32.6	41.5	31.5	31.5	35.5	
	70	26.0	29.4	37.4	25.5	29.0	37.0	28.1	28.1	32.4	
	75	23.1	26.2	33.6	22.7	25.8	33.2	25.2	25.2	29.1	
₽	80	20.6	23.4	30.4	20.2	23.0	30.0	22.6	22.6	26.3	
Radius [ft]	85	18.4	21.0	27.5	17.9	20.6	27.1	20.2	20.2	23.8	
릃	90	16.4	18.9	25.0	15.9	18.5	24.6	18.1	18.1	21.5	
~	95	14.5	17.0	22.8	14.0	16.5	22.4	16.0	16.0	19.5	
	100	12.9	15.2	20.8	12.4	14.7	20.4	14.3	14.3	17.6	
	105	11.4	13.6	19.0	10.9	13.1	18.6	12.6	12.6	15.9	
	110	10.0	12.2	17.4	9.5	11.7	16.9	11.2	11.2	14.3	
	115	8.8	10.8	15.8	8.3	10.3	15.3	9.9	9.9	12.9	
	120	7.7	9.6	14.4	7.2	9.1	13.9	8.6	8.6	11.6	
	125	6.6	8.5	13.1	6.1	8.0	12.6	7.5	7.5	10.4	
	130	5.7	7.5	11.8	5.2	7.0	11.4	6.5	6.5	9.2	
	135	4.8	6.5	10.7		6.0	10.2	5.6	5.6	8.2	
	140		5.6	9.6		5.1	9.2	4.7	4.7	7.2	
	145		4.7	8.6			8.2		7.8	6.3	
	150						7.2		6.8	5.5	
	155						6.3			4.7	
	160										
	165										

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<sup>\*</sup> Counterweight in [1000 lbs] rounded: 64 = 63,940 lbs, 76 = 75,620 lbs, 99+15 = 99,210+15,450 lbs [+15] Carbody counterweight in [1000 lbs] rounded: 64 = 63,940 lbs, 76 = 75,620 lbs, 99+15 = 99,210+15,450 lbs

# Lifting operation with fixed jib



### Jib configuration 0806HS

Jib section	Amount of jib sections							
Jib foot 18 ft	1	1						
Jib section 30 ft		1						
Jib head 18 ft	1	1						
Jib length [ft]	36	66						

For main boom configuration 66 ft - 134 ft please refer to the table on page 16.

## Load capacities with fixed jib 15° (0806.20)

Jib length 36 ft with 99,200 lbs rear counterweight and 15,400 lbs carbody counterweight, capacities in [1000 lbs]

			Boom length [ft]				
		66	76	85	105	125	144
	30	42.3					
	35	39.8	40.1	40.4	41.3		
	40	37.5	37.8	38.4	39.4	40.4	
	45	35.8	36.2	36.5	37.8	39.0	38.0
	50	34.5	35.0	35.4	36.6	37.9	37.4
	55	33.6	34.1	34.6	35.7	37.0	37.2
	60	32.7	33.4	34.0	35.0	36.3	37.0
	65	32.0	32.6	33.3	34.4	35.7	36.7
	70	31.5	32.0	32.6	33.9	35.2	36.3
	75	30.9	31.6	32.1	33.3	34.7	34.6
	80	30.4	31.0	31.7	32.8	32.2	31.4
₽	85	30.0	30.6	30.8	30.0	29.4	28.6
Radius [ft]	90	28.9	28.6	28.2	27.7	26.8	26.0
튫	95	26.8	26.5	26.2	25.4	24.6	23.7
~	100	24.7	24.4	24.1	23.3	22.5	21.6
	105		22.5	22.2	21.5	20.6	19.8
	110			20.6	19.8	19.0	18.1
	115			19.0	18.3	17.4	16.6
	120				16.9	16.0	15.2
	125				15.6	14.8	13.8
	130				14.4	13.5	12.5
	135				13.2	12.3	11.3
	140					11.2	10.2
	145					10.2	9.2
	150					9.2	8.3
	155						7.4
	160						6.6
	165						5.8

TLT 11990225 M330177 Vorab\_90. Above load charts are for reference only. For actual lift duty please refer to load chart in operator's cabin or manual. Load charts for lifting operation are valid with classification according to ISO 4301-1/1986, group A1

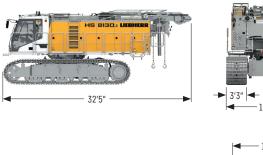
Jib length 66 ft with 99,200 lbs rear counterweight and 15,400 lbs carbody counterweight, capacities in [1000 lbs]

15,	<u>400</u>	00 lbs carbody counterweight, capacities in [1000 lbs]					
		Boom length [ft]					
		66	76	85	105	125	144
	41	18.9					
	42		18.6				
	43			18.5			
	45	17.9	17.9	18.1			
	50	17.4	17.2	17.3	17.4	17.4	17.3
	55	17.1	17.0	17.1	17.0	17.0	16.9
	60	16.4	16.8	17.0	16.9	16.6	16.6
	65	15.5	15.9	16.4	16.8	16.2	16.3
	70	14.8	15.1	15.6	16.3	15.9	16.0
	75	14.3	14.6	14.9	15.6	15.5	15.7
	80	13.8	14.1	14.4	15.0	15.2	15.4
	85	13.4	13.7	14.0	14.6	14.8	15.1
	90	13.1	13.3	13.6	14.2	14.5	14.8
	95	12.7	13.0	13.3	13.8	14.3	14.5
	100	12.3	12.6	13.0	13.5	13.9	14.3
₽	105	12.0	12.3	12.7	13.2	13.6	14.0
Radius [ft]	110	11.7	12.0	12.4	13.0	13.4	13.7
agi	115	11.5	11.8	12.1	12.7	13.2	13.5
~	120	11.3	11.6	11.8	12.4	13.0	13.3
	125	11.1	11.4	11.6	12.2	12.7	13.1
	130		11.2	11.5	12.0	12.5	12.9
	135		11.0	11.3	11.8	12.3	12.7
	140			11.2	11.6	12.1	11.9
	145			10.6	11.5	11.8	11.0
	147			10.6		11.0	10.0
	150				11.3	10.1	9.1
	155				10.9	9.3	8.3
	160				10.2		
	162				9.7		
	164				9.6		
	165					8.5	7.5
	170					7.7	6.7
	175					7.0	6.0
	179					6.2	5.4
	180					6.3	4.7
_	187						4.4

TLT 11990225 M330177 Vorab\_90. Above load charts are for reference only. For actual lift duty please refer to load chart in operator's cabin or manual. Load charts for lifting operation are valid with classification according to ISO 4301-1/1986, group A1.

## **Transport dimensions and weights**

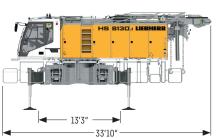
### Basic machine and main boom (2018.33)

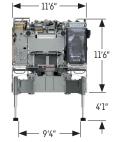


#### **Basic machine**

with HD undercarriage, A-frame, 2x 78,683 lbs winches and self-assembly system for rear counterweight, without boom foot and rear counterweight – fully tanked and ready for operation

- Production		
Width		13'1"
Weight without hoist ropes	lbs	171,961
Weight of hoist ropes (2x 295 ft)	lbs/ft	4.33





#### Basic machine

with A-frame, self-assembly system,  $2x\,78,683$  lbs winches, without boom foot, rear counterweight and crawlers – fully tanked and ready for operation

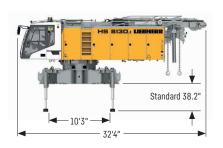
Width		11'6"
Weight without hoist ropes	lbs	112,435
Weight of hoist ropes (2x 295 ft)	lbs/ft	4.33

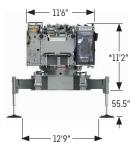


#### Crawler (2x)

2-web grousers		22'1"
Width	inch	41.5
Weight	lbs	32,850

### Basic machine with wide track and long crawlers (US-standard)





#### Basic machine

with A-frame, self-assembly system, 2x 78,800 lbs winches, without boom foot, basic counterweight and crawlers – fully tanked and ready for operation

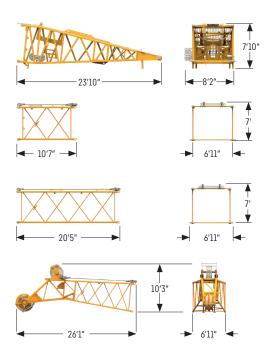
Width		11'6"	
Weight without hoist ropes	lbs	94,800	
Weight of hoist ropes (2x 295 ft)	lbs/ft	4.338	

\*) 11'4" with diesel engines for countries with little regulation, compliant with emissions level according to regulation ECE-R.96 H.



### Crawler (2x)

2-web grousers		26'5"
Width	inch	40.9
Weight	lbs	41,447



### Boom foot 23 ft (2018.33)

Width	inch	98.4
Weight incl. pendant ropes	lbs	7,088

### Boom section 10 ft (2018.33)

Width	inch	83
Weight incl. pendant ropes	lbs	1,653

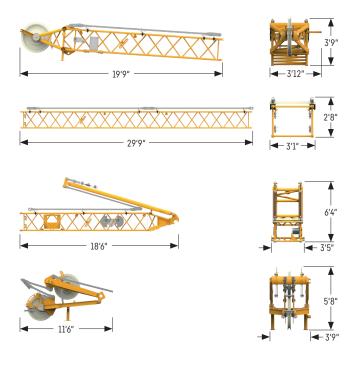
### Boom section 20 ft (2018.33)

Width	inch	83
Weight incl. pendant ropes	lbs	2,712

### Boom head 23 ft (2018.33)

Width	inch	83
Weight incl. pendant ropes	lbs	8,708

### Fixed jib



### Jib head

Width	inch	47.8
Weight	lbs	1,676

### Jib section 30 ft

Width	inch	36.6
Weight	lbs	1,488

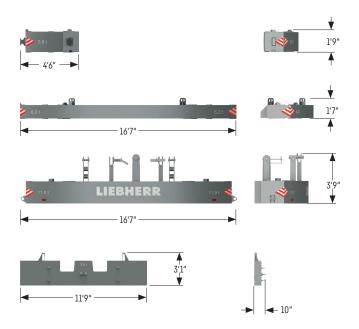
### Jib foot with A-frame

Width	inch	40.7
Weight	lbs	2,161

### **Auxiliary jib**

Width	inch	44.7
Weight	lbs	2,888

### Counterweight



### Counterweight slab (4x. option 6x)

Width	inch	33
Weight	lbs	5,08

### Counterweight slab (1x)

Width	inch	44.2
Weight	lbs	13,889

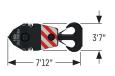
### Counterweight slab (1x)

Width	inch	48
Weight	lbs	26.455

### Carbody counterweight (2x)

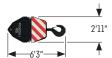
Width	inch	10
Weight	lbs	7,716

### Hooks











### 352,740 lbs hook block - 3 sheaves

Width	inch	16.5
Weight	lbs	4,433

#### 220,462 lbs hook block - 2 sheaves

Width	inch	10.6
Weight	lbs	2,646

#### 176,370 lbs hook block - 2 sheaves

Width	inch	9.6
Weight	lbs	2,646

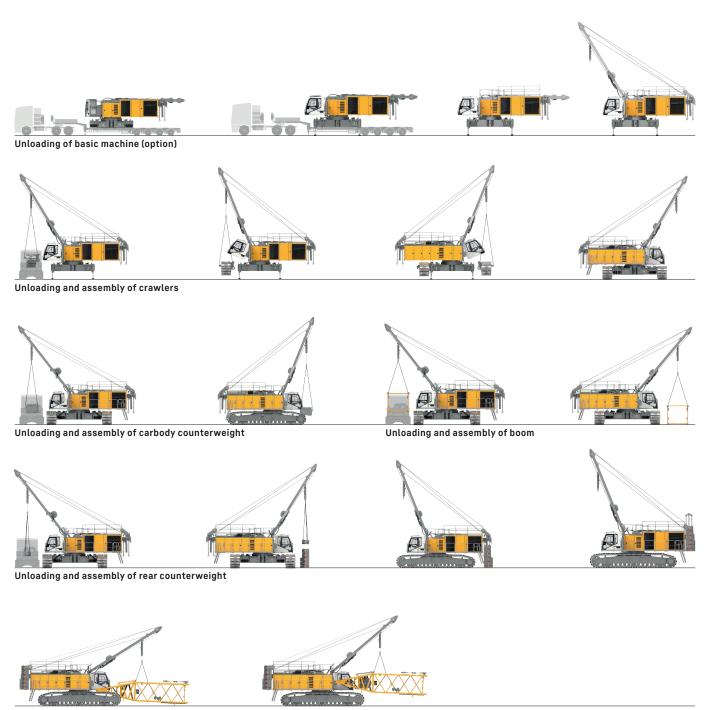
### 110,231 lbs hook block - 1 sheave

Width	inch	9
Weight	lbs	1,653

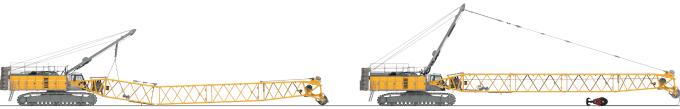
### 77,162 lbs single hook

Width	inch	19.7
Weight	lbs	1,764

## **Self-assembly system**



Assembly of boom foot



Assembly of boom

Reeving of hoist ropes

## **Notes**

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