EN

HS 8130.1

HS 8005.01.03
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LIEBHERR

Construction machines

Concept and characteristics

Universal boom head for all types of application
Convertible roller set

Main winches: Perfectly matched winch system thanks to automatic and continuous adaptation of rope speed. Thus, maximum performance is achieved.

New rope lock allows for faster and easier rope change. This reduces downtime.

Main boom optimized for all types of application

Further information on material handling

Pendant ropes

Jack-up system available as an option

A-frame

Mounting of power pack possible up to 13.2 t

Rear counterweight

Uppercarriage: Platform and railings remain attached to the machine during transportation

Undercarriage: robust undercarriage for most difficult applications, telescopic, with detachable crawlers

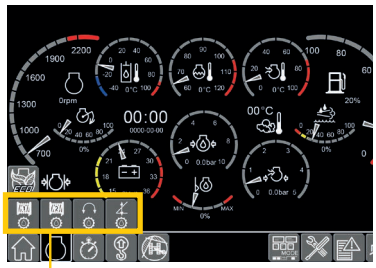
2-web grousers for optimum off-road traction.
Flat track pads as an option for ground protection

Preparation for carbody counterweight

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.

Example

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 Visualization

Remarks
- Liebherr cable excavator HS 8005.01.03
- Designed according to EN 474-1 and EN 474-12.
- Machine 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.

Technical description

Diesel engine

Power rating according to ISO 9249	565 kW (758 hp) at 1700 rpm
Engine type	Liebherr D 9508 A7-04
Fuel tank capacity	770 l with continuous level indicator and reserve warning
AdBlue tank capacity	132 l with continuous level indicator and reserve warning
Exhaust certification	EPA/CARB Tier 4f and EU 2016/1628 Stage V

Noise measurement data and vibration

Noise emission	according to 2000/14/EC directive	
Emission sound pressure level L_{PA}	76.2 dB(A)	(in the cabin)
Guaranteed sound power level L_{WA}	109 dB(A)	(of the machine)
Vibration transmitted to the machine operator	< 2.5 m/s²	(to the hand-arm system)
	< 0.5 m/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	1170 l
Max. working pressure	350 bar
Max. power at the connection plate	380 kW (2x 421 l/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

Hoisting gear

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)	350 kN
Line pull in the 4th layer	286.5 kN
Rope diameter	36 mm
Drum diameter	830 mm
Rope speed	0-96 m/min
Rope capacity in the 1st layer	44 m
Rope capacity in 4 layers	236 m (effective length)
Options	
Auxiliary winch	77 kN in boom foot
Tagline winch	30 kN with free fall
Tagline winch	70 kN with free fall

Boom winch

Line pull	max. 165 kN
Rope diameter	24 mm
Boom luffing	15-84° in 56 s

Crawlers

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	0-1.3 km/h
Grousers	2-web grousers, width 1000 mm
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 1000 mm

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 maintenance requirements and increases service life
Option	Display of swing angle

Control

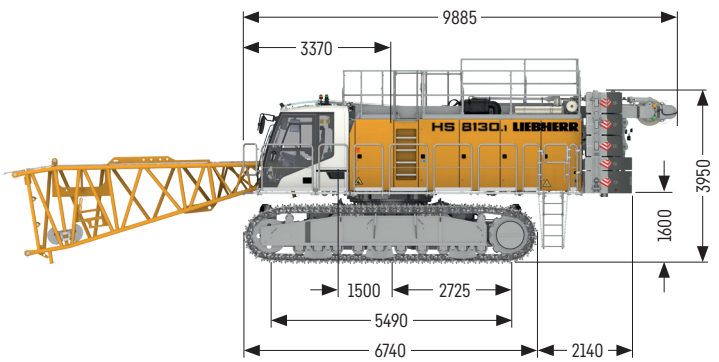
Control	includes all control and monitoring functions, designed to withstand extreme environmental conditions and heavy duty construction tasks
Display	high resolution monitor in the operator's cabin, clear display of complete machine operating data, warnings and failure indications in the required language
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

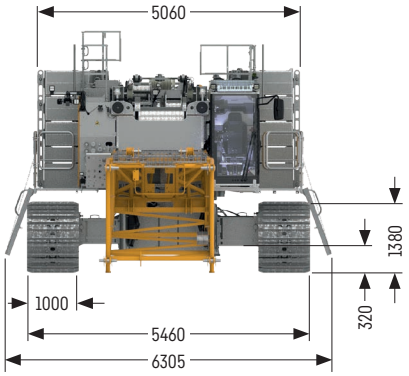
Operating weight

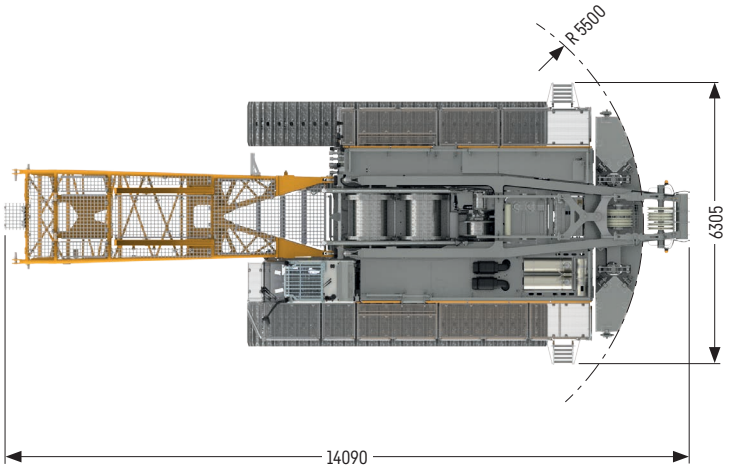
Composition of operating weight	Basic machine with HD undercarriage, 2 main winches 350 kN including wire ropes, 14 m main boom, consisting of A-frame, boom foot (7 m) and boom head (7 m), 29 t rear counterweight, 2-web grousers (width 1000 mm), 50 t hook block
Total weight	approx. 116 t

Dimensions

Basic machine with undercarriage







Ground pressure

Ground pressure	1.06 kg/cm²

Equipment

Main boom (2018.33)	max. 53 m
Characteristics	modular designed equipment for lifting, dragline or clamshell operation for dragline operation, a rotating fairlead is fitted into the boom foot minimized rope angle to drum resulting in lower rope wear

Grab versions

Hydraulic grab

for depths up to 25 m (40 m upon request)

HS 8130 during operation

Dredging assistant (option)

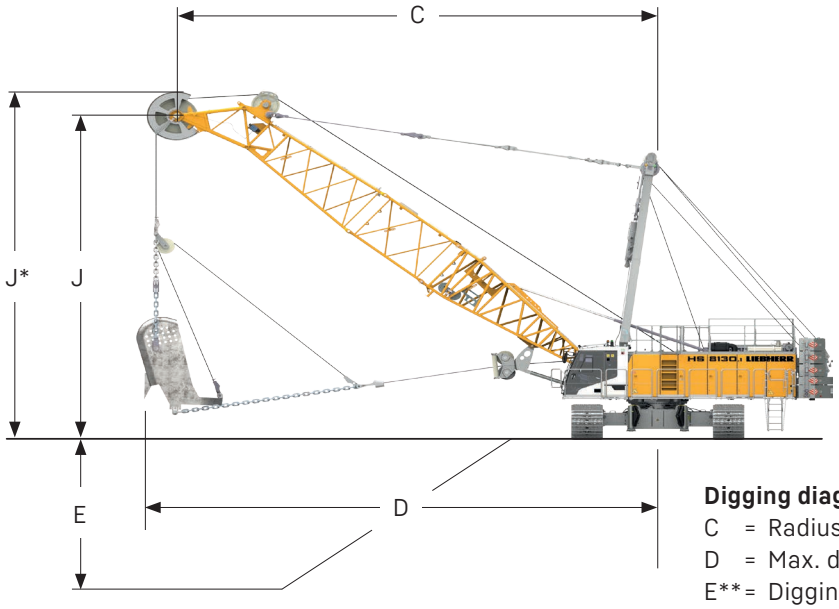
Capacities in grab operation

Capacities in [t] with 34.3 t counterweight

Radius [m]	Boom length [m]							
	17	20	23	26	29	32	35	38
6	53.0*	53.0*	53.0*	51.1*	50.0*			
7	53.0*	53.0*	53.0*	48.1*	46.9*	40.1*	38.9*	33.9
8	52.0*	51.1*	50.8*	45.5*	44.1*	37.7*	36.5*	31.7
9	43.7*	43.7*	43.7*	43.1*	41.2*	35.8*	34.2	29.8
10	37.5*	37.5*	37.5*	37.4*	37.4*	33.6	32.2	28.2
11	32.7	32.8	32.7	32.7	32.6	31.4	30.4	26.5
12	29.0	29.0	28.9	28.9	28.8	28.6	27.8	25.2
13	25.9	25.9	25.9	25.8	25.7	25.6	25.0	23.0
14	23.3	23.4	23.3	23.2	23.1	23.0	22.8	21.2
15	21.2	21.2	21.2	21.1	21.0	20.9	20.2	19.6
16	19.3	19.4	19.3	19.3	19.2	19.0	18.1	17.5
17	17.7	17.8	17.7	17.7	17.6	17.2	16.5	15.8
18	15.5	16.4	16.3	16.3	16.2	15.6	15.1	14.5
19		15.1	15.1	15.1	14.9	14.4	13.9	13.4
20		14.0	14.0	14.0	13.9	13.4	13.0	12.5
21		11.7	13.0	13.0	12.9	12.5	12.2	11.7
22			12.1	12.1	12.0	11.8	11.4	11.1
23			11.3	11.3	11.2	11.1	10.7	10.4
24			9.3	10.6	10.5	10.4	10.1	9.7
25				9.9	9.8	9.7	9.6	9.1
26				9.1	9.2	9.1	9.0	8.7
27				7.5	8.6	8.6	8.4	8.2
28					8.1	8.1	7.9	7.7
29					7.2	7.6	7.4	7.3
30					6.0	7.1	7.0	6.9
31						6.7	6.6	6.5
32						5.8	6.2	6.1
33						4.8	5.8	5.7
34							5.3	5.4
35							4.5	5.1
36								4.8
37								4.2
38								3.4

TLT 13163554 M285712 v6. Stability calculated according to EN 474-12. Max. capacities do not exceed 66 % of tipping load.
Above 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.

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
J* = J + 0.64 m

** 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 [t] with 34.3 t counterweight

		Boom length [m]											
		14			17			20			23		
		C	J		C	J		C	J		C	J	
		[m]	[m]	[t]	[m]	[m]	[t]	[m]	[m]	[t]	[m]	[m]	[t]
alpha [°]	55	10.7	13.5	**35.0**	12.5	15.9	**31.3**	14.2	18.4	**25.8**	15.9	20.9	**21.1**
	50	11.7	12.7	**33.5**	13.6	15.0	**27.7**	15.5	17.3	**22.7**	17.4	19.6	**18.4**
	45	12.5	11.9	**31.1**	14.6	14.0	**25.0**	16.7	16.2	**20.0**	18.9	18.3	**15.9**
	40	13.2	11.0	**28.6**	15.6	12.9	**22.8**	17.9	14.9	**18.0**	20.2	16.8	**14.4**
	35	13.9	10.0	**26.6**	16.4	11.8	**21.2**	18.8	13.5	**16.4**	21.3	15.2	**13.4**
	30	14.5	9.0	**24.2**	17.1	10.5	**19.5**	19.7	12.0	**15.1**	22.3	13.5	**12.4**
	25	15.0	7.9	**21.9**	17.7	9.2	**16.9**	20.4	10.5	**13.4**	23.2	11.7	**11.1**

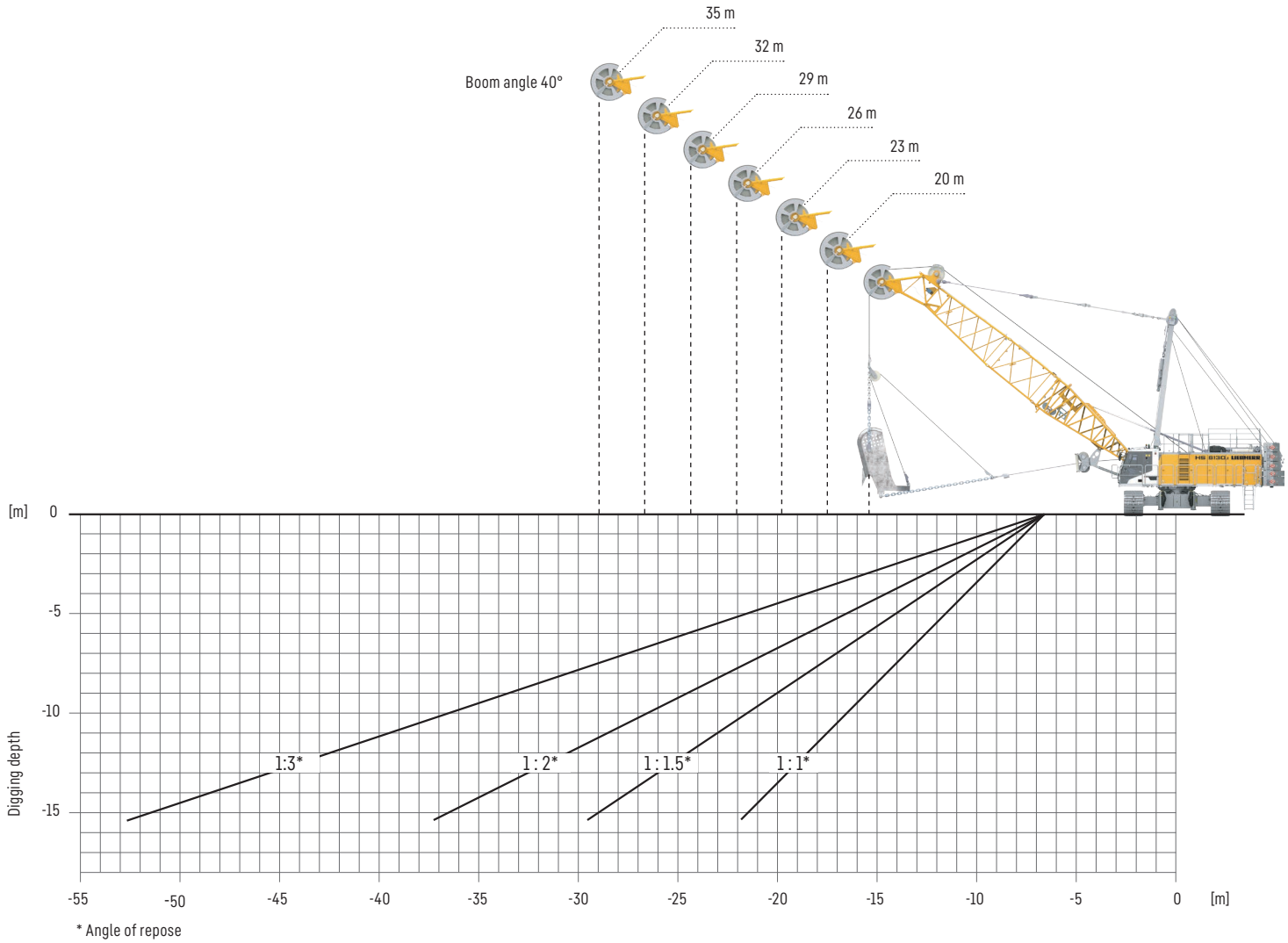
TLT 13163554 M285712 v6. Stability calculated according to EN 474-12. Max. capacities do not exceed 75 % of tipping load.
Above capacities are for reference only and are not programmed in the LMI system.
The size of the bucket has to be determined according to local conditions.

Capacities in [t] with 34.3 t counterweight

		Boom length [m]											
		26			29			32			35		
		C	J		C	J		C	J		C	J	
		[m]	[m]	[t]	[m]	[m]	[t]	[m]	[m]	[t]	[m]	[m]	[t]
alpha [°]	55	17.6	23.3	**17.3**	19.4	25.8	**14.5**	21.1	28.2	**12.4**	22.8	28.2	**10.8**
	50	19.4	21.9	**14.9**	21.3	24.2	**12.8**	23.2	26.5	**11.0**	25.2	26.5	**9.5**
	45	21.0	20.4	**13.3**	23.1	22.5	**11.3**	25.2	24.6	**9.8**	27.3	24.6	**8.4**
	40	22.4	18.7	**12.2**	24.8	20.7	**10.4**	27.1	22.6	**8.9**	29.3	22.6	**7.5**
	35	23.8	16.9	**11.3**	26.2	18.7	**9.5**	28.7	20.4	**8.1**	31.1	20.4	**6.8**
	30	24.9	15.0	**10.6**	27.5	16.5	**8.8**	30.1	18.0	**7.5**	32.7	18.0	**6.3**
	25	25.9	13.0	**9.3**	28.6	14.3	**7.7**	31.3	15.5	**6.5**	34.0	15.5	**5.3**

TLT 13163554 M285712 v6. 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 LMI system.
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

Main boom [m]	20	23	26	29	32	35
Dragline bucket [**m³** / yd³]	**5.7** / 7.5	**5** / 6.5	**3.8** / 5	**3.4** / 4.5	**2.5** / 3.25	**1.9** / 2.5
Dumping reach D [m]	23.8	26.9	30	33.1	36.2	39.3
Digging depth* E [m]	10.7	12.1	13.5	14.9	16.3	17.6

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

Main boom [m]	20	23	26	29	32	35
Dragline bucket [**m³** / yd³]	**5.7** / 7.7	**4.2** / 5.5	**3.8** / 5	**2.8** / 3.75	**2.1** / 2.75	**1.5** / 2
Dumping reach D [m]	24.2	27.3	30.5	33.6	36.9	40.0
Digging depth* E [m]	11.3	12.8	14.3	15.7	17.2	18.7

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)	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 [1]	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.

Capacities in slurry wall operation are for reference only and are not programmed in the LML 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

Capacities in [t] with 34.3 t counterweight

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

Preliminary. Stability calculated according to EN 16228-5. Machine is standing on firm, horizontal ground.
For higher lifting capacities a hydraulic grab is required.
* Max. lifting capacity with mechanical grab is 35 t. For higher lifting capacities a hydraulic grab is required.

For further information please refer to the HSG 5-18 datasheet

Short boom

Rope diameter	mm	36
Radius	mm	5400 at max. boom angle 35°
		5975 at min. boom angle 20°
Machine height during operation	mm	5500 at max. boom angle 35°
		6000 at min. boom angle 20°
Effective rope length winch 1/2	m	58.6
Rear counterweight	t	11.9
Capacity in duty cycle operation	t	60 at radius of 5.4 m
		50.8 at radius of 6 m

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

Short boom

Working depth	m	110
Wall thickness	mm	800-1800

Stability calculated according to EN 16228-5.
Machine is standing on firm, horizontal ground.
For further information please refer to the LSC 8-18 datasheet

Dynamic soil compaction and casing oscillator

Capacities in [t] with 29 t counterweight

Radius [m]	Boom length [m]					
	20	23	26	29	32	35
8	34.1	33.9	30.3	29.4	25.1	
9	30.3	30.3	28.7	27.5	23.9	22.8
10		25.9	25.8	25.4	22.4	21.5
11			22.5	22.5	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 30 m.
Option: Piling control incl. cabin protection and armoured glass
Max. main boom 35 m

Casing oscillator

Max. drilling diameter	mm	3300

Special applications

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

Capacities in [t] with 34.3 t counterweight

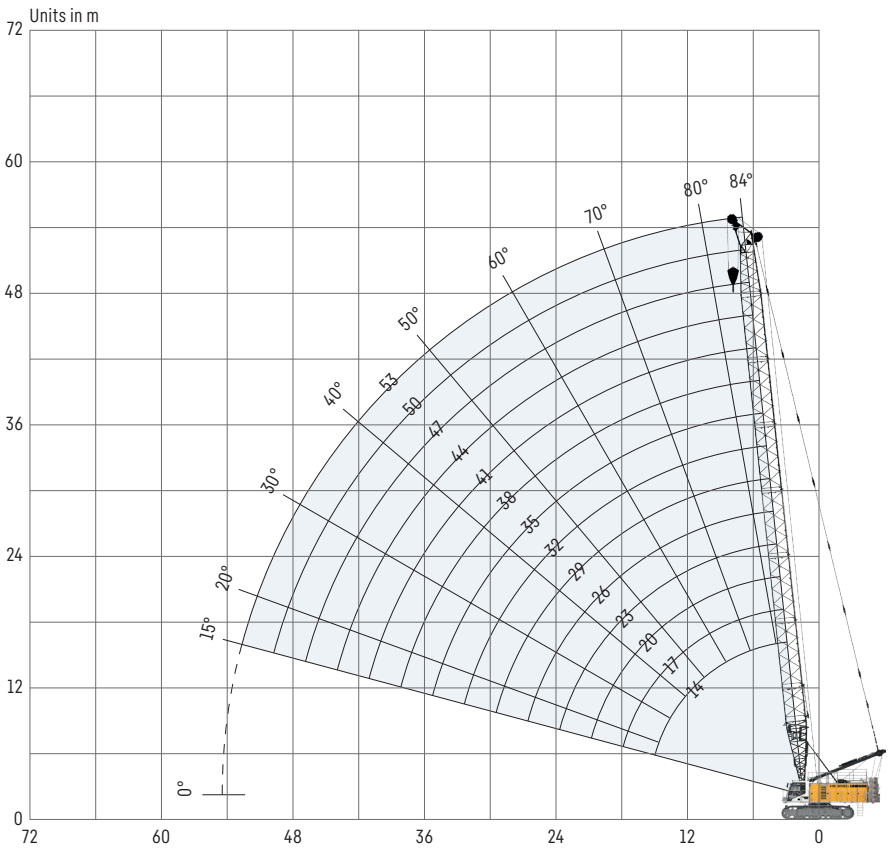
Radius [m]	Boom length [m]							
	17	20	23	26	29	32	35	38
6	53.0*	53.0*	53.0*	51.1*	50.0*			
7	53.0*	53.0*	53.0*	48.1*	46.9*	40.1*	38.9*	33.9
8	53.0*	51.1*	50.8*	45.5*	44.1*	37.7*	36.5*	31.7
9	47.1*	47.0*	45.7*	43.1*	41.2*	35.8*	34.2	29.
10	41.9*	41.0*	40.5*	38.7*	38.6*	33.6	32.2	28.2
11	37.0*	36.6*	35.5*	35.3*	33.8	31.4	30.4	26.5
12	32.9	32.4	32.1	31.0	30.5	28.6	27.8	25.2
13	29.4	29.4	28.4	27.9	26.9	26.4	25.0	23.0
14	26.5	26.2	25.6	25.0	24.2	23.4	22.8	21.2
15	24.0	23.9	23.1	22.5	21.8	21.1	20.2	19.6
16	21.9	21.5	20.9	20.5	19.5	19.1	18.1	17.5
17	20.0	19.5	19.2	18.4	17.7	17.2	16.5	15.8
18	15.5	17.8	17.3	16.6	16.2	15.6	15.1	14.5
19		16.1	15.7	15.3	14.9	14.4	13.9	13.4
20		14.6	14.5	14.2	13.9	13.4	13.0	12.5
21		11.7	13.6	13.3	13.0	12.5	12.2	11.7
22			12.8	12.6	12.2	11.8	11.4	11.1
23			11.4	11.8	11.4	11.2	10.7	10.4
24			9.3	11.1	10.8	10.5	10.1	9.7
25				10.5	10.2	9.9	9.6	9.1
26				9.1	9.6	9.3	9.0	8.7
27				7.5	9.1	8.9	8.5	8.2
28					8.5	8.4	8.1	7.7
29					7.2	7.9	7.7	7.3
30					6.0	7.6	7.2	6.9
31						6.8	6.9	6.6
32						5.8	6.5	6.2
33						4.8	6.2	5.9
34							5.3	5.6
35							4.5	5.3
36								4.9
37								4.2
38								3.4

TLT 13163554 M285712 v6. 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.

* 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.

Lifting operation

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 LML system.

Main boom configuration

Boom section	Amount of boom sections													
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 section 7 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom length [m]	**14**	**17**	**20**	**23**	**26**	**29**	**32**	**35**	**38**	**41**	**44**	**47**	**50**	**53**
Auxiliary jib	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

preferred boom combinations

Capacities in [t]

Radius [m]	Boom length [m]														
	14			17			20			23			26		
*	29	34.3	45 [+7]	29	34.3	45 [+7]	29	34.3	45 [+7]	29	34.3	45 [+7]	29	34.3	45 [+7]
4	130.0														
5	107.8			100.6	100.6		96.4	105.3		91.5	99.9				
6	84.3	92.1		80.5	88.0		77.0	84.1		73.7	80.5		70.6	77.2	
7	69.0	75.5		66.3	72.5		63.8	69.8		61.4	67.2		59.1	64.7	
8	57.0	62.4		56.2	61.5		54.3	59.4		52.4	57.4		50.7	55.5	67.4
9	47.7	52.3		47.8	52.4	63.5	47.1	51.6	62.7	45.6	50.0	60.8	44.2	48.5	59.0
10	40.9	44.8	54.5	40.9	44.9	54.6	41.0	44.9	54.6	40.2	44.2	53.8	39.0	42.9	52.3
11	35.6	39.1	47.6	35.7	39.2	47.7	35.7	39.2	47.8	35.6	39.1	47.7	34.8	38.4	46.9
12	31.3	34.5	42.2	31.4	34.6	42.3	31.5	34.6	42.3	31.4	34.5	42.2	31.3	34.5	42.1
13	27.9	30.7	37.7	28.0	30.9	37.8	28.1	30.9	37.9	28.0	30.8	37.8	27.9	30.7	37.7
14	25.0	27.6	34.0	25.2	27.8	34.1	25.2	27.8	34.2	25.1	27.7	34.1	25.0	27.6	34.0
15	22.7	24.9	27.6	22.8	25.2	31.0	22.8	25.2	31.1	22.7	25.1	31.0	22.6	25.1	30.9
16				20.7	22.9	28.3	20.8	23.0	28.4	20.7	22.9	28.3	20.6	22.8	28.3
17				18.9	20.9	26.0	19.0	21.1	26.1	18.9	21.0	26.1	18.8	20.9	26.0
18				17.2	19.2	22.4	17.4	19.4	24.1	17.4	19.3	24.0	17.3	19.2	24.0
19							16.0	17.9	22.3	16.0	17.8	22.3	15.9	17.7	22.2
20							14.8	16.5	20.7	14.8	16.5	20.7	14.7	16.4	20.6
21							13.6	15.3	18.6	13.7	15.3	19.3	13.6	15.3	19.2
22										12.7	14.2	18.0	12.6	14.2	18.0
23										11.8	13.2	16.8	11.7	13.2	16.8
24													10.9	12.3	15.8
25													10.2	11.5	14.8
26													9.5	10.8	13.9

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* Counterweight in [t]
[+7] Carbody counterweight in [t]

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Crane Planner 2.0

Capacities in [t]

Radius [m]	Boom length [m]														
	29			32			35			38			41		
*	29	34.3	45 [+7]	29	34.3	45 [+7]	29	34.3	45 [+7]	29	34.3	45 [+7]	29	34.3	45 [+7]
6	67.7	74.0		65.0	71.1										
7	57.0	62.4		54.9	60.1	72.9	53.0	58.1	65.2	51.1	56.0	63.3	49.3	54.1	56.2
8	49.0	53.7	65.2	47.3	51.9	63.1	45.8	50.3	61.2	44.3	48.6	59.3	42.9	47.1	53.7
9	42.8	47.0	57.2	41.4	45.5	55.5	40.2	44.2	53.9	38.9	42.8	52.3	37.7	41.5	50.8
10	37.9	41.6	50.8	36.7	40.4	49.4	35.6	39.2	48.0	34.6	38.1	46.7	33.5	37.0	45.4
11	33.8	37.3	45.6	32.9	36.2	44.4	31.9	35.2	43.2	31.0	34.2	42.1	30.1	33.2	41.0
12	30.5	33.6	41.3	29.6	32.7	40.2	28.8	31.8	39.2	28.0	30.9	38.2	27.2	30.1	37.2
13	27.7	30.6	37.6	26.9	29.8	36.7	26.1	28.9	35.8	25.4	28.2	34.9	24.7	27.4	34.0
14	24.9	27.5	33.9	24.6	27.2	33.7	23.9	26.5	32.8	23.2	25.8	32.0	22.5	25.0	31.2
15	22.5	24.9	30.8	22.4	24.8	30.6	21.9	24.3	30.3	21.3	23.7	29.5	20.6	23.0	28.8
16	20.5	22.7	28.1	20.3	22.5	28.0	20.1	22.4	27.8	19.6	21.8	27.3	19.0	21.2	26.6
17	18.7	20.8	25.8	18.5	20.6	25.7	18.4	20.4	25.5	18.1	20.2	25.3	17.5	19.6	24.7
18	17.1	19.1	23.8	17.0	18.9	23.7	16.8	18.7	23.5	16.6	18.6	23.3	16.2	18.2	23.1
19	15.8	17.6	22.0	15.6	17.4	21.9	15.4	17.3	21.7	15.3	17.1	21.5	15.0	16.9	21.3
20	14.6	16.3	20.5	14.4	16.1	20.3	14.2	15.9	20.1	14.0	15.8	20.0	13.8	15.6	19.8
21	13.5	15.1	19.1	13.3	15.0	18.9	13.1	14.8	18.7	13.0	14.6	18.6	12.8	14.4	18.4
22	12.5	14.0	17.8	12.4	13.9	17.7	12.2	13.7	17.5	12.0	13.5	17.3	11.8	13.3	17.1
23	11.6	13.1	16.7	11.5	12.9	16.5	11.3	12.8	16.3	11.1	12.6	16.2	10.9	12.4	16.0
24	10.8	12.2	15.6	10.7	12.1	15.5	10.5	11.9	15.3	10.3	11.7	15.1	10.1	11.5	14.9
25	10.1	11.4	14.7	9.9	11.3	14.6	9.8	11.1	14.4	9.6	10.9	14.2	9.4	10.7	14.0
26	9.4	10.7	13.8	9.3	10.5	13.7	9.1	10.4	13.5	8.9	10.2	13.3	8.7	10.0	13.1
27	8.7	10.0	13.0	8.6	9.9	12.9	8.5	9.7	12.7	8.3	9.5	12.5	8.1	9.3	12.3
28	8.2	9.3	12.2	8.1	9.2	12.1	7.9	9.1	12.0	7.7	8.9	11.8	7.5	8.7	11.6
29	7.6	8.7	11.5	7.5	8.7	11.4	7.4	8.5	11.3	7.2	8.3	11.1	7.0	8.1	10.9
30				7.0	8.1	10.8	6.9	8.0	10.6	6.7	7.8	10.5	6.5	7.6	10.3
31				6.5	7.6	10.2	6.4	7.5	10.0	6.2	7.3	9.9	6.0	7.1	9.7
32				6.1	7.1	9.6	6.0	7.0	9.5	5.8	6.8	9.3	5.6	6.6	9.1
33							5.5	6.5	9.0	5.4	6.4	8.8	5.2	6.2	8.6
34							5.2	6.1	8.5	5.0	6.0	8.3	4.8	5.8	8.1
35							4.8	5.7	8.0	4.7	5.6	7.9	4.5	5.4	7.7
36										4.3	5.2	7.4	4.1	5.0	7.2
37										4.0	4.9	7.0	3.8	4.7	6.8
38										3.7	4.5	6.6	3.5	4.4	6.4
39													3.2	4.0	6.1
40													2.9	3.7	5.7
41													2.7	3.4	5.4

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* Counterweight in [t]

[+7] Carbody counterweight in [t]

Capacities in [t]

Radius [m]	Boom length [m]										
	44			47			50			53	
*	29	34.3	45 [+7]	29	34.3	45 [+7]	29	34.3	45 [+7]	34.3	45 [+7]
8	41.5	45.6	48.6	40.1	44.2	44.3	38.8	39.9	39.9	35.5	35.5
9	36.5	40.3	46.5	35.4	39.1	42.0	34.3	37.9	38.2	34.8	34.8
10	32.5	35.9	44.1	31.5	34.9	40.1	30.6	33.8	36.5	32.9	33.2
11	29.2	32.3	39.9	28.3	31.4	38.1	27.5	30.5	34.7	29.6	31.8
12	26.4	29.2	36.2	25.6	28.4	35.3	24.8	27.6	33.2	26.8	30.2
13	23.9	26.6	33.1	23.2	25.9	32.3	22.5	25.1	31.4	24.4	29.0
14	21.8	24.3	30.4	21.2	23.6	29.6	20.5	23.0	28.9	22.3	28.0
15	20.0	22.4	28.0	19.4	21.7	27.3	18.8	21.1	26.6	20.4	25.9
16	18.4	20.6	26.0	17.8	20.0	25.3	17.2	19.4	24.6	18.8	24.0
17	17.0	19.1	24.1	16.4	18.5	23.5	15.7	17.9	22.9	17.2	22.2
18	15.6	17.6	22.5	15.0	17.1	21.9	14.5	16.4	21.3	15.8	20.7
19	14.4	16.3	21.0	13.9	15.8	20.4	13.3	15.2	19.8	14.6	19.2
20	13.3	15.2	19.6	12.8	14.6	19.0	12.3	14.1	18.4	13.5	17.8
21	12.4	14.1	18.2	11.9	13.6	17.8	11.3	13.0	17.2	12.5	16.6
22	11.5	13.1	16.9	11.0	12.6	16.6	10.5	12.1	16.1	11.6	15.5
23	10.7	12.2	15.8	10.2	11.8	15.6	9.7	11.3	15.1	10.8	14.5
24	9.9	11.3	14.7	9.5	11.0	14.5	9.0	10.5	14.1	10.0	13.6
25	9.2	10.5	13.8	8.9	10.3	13.6	8.4	9.8	13.3	9.3	12.8
26	8.5	9.8	12.9	8.3	9.6	12.7	7.8	9.2	12.5	8.7	12.0
27	7.9	9.1	12.1	7.7	8.9	11.9	7.3	8.6	11.7	8.1	11.3
28	7.3	8.5	11.4	7.1	8.3	11.2	6.7	8.0	11.0	7.6	10.6
29	6.8	7.9	10.7	6.6	7.7	10.5	6.3	7.5	10.3	7.1	10.0
30	6.3	7.4	10.1	6.1	7.2	9.9	5.8	7.0	9.6	6.6	9.4
31	5.8	6.9	9.5	5.6	6.7	9.3	5.4	6.5	9.1	6.1	8.8
32	5.4	6.4	8.9	5.2	6.2	8.7	5.0	6.0	8.5	5.7	8.3
33	5.0	6.0	8.4	4.8	5.8	8.2	4.6	5.6	8.0	5.3	7.8
34	4.6	5.6	7.9	4.4	5.4	7.7	4.2	5.2	7.5	4.9	7.3
35	4.3	5.2	7.5	4.1	5.0	7.3	3.9	4.8	7.1	4.6	6.8
36	4.0	4.9	7.1	3.7	4.6	6.8	3.5	4.4	6.6	4.2	6.4
37	3.6	4.5	6.6	3.4	4.3	6.4	3.2	4.1	6.2	3.9	6.0
38	3.3	4.2	6.3	3.1	4.0	6.0	2.9	3.8	5.8	3.5	5.6
39	3.0	3.9	5.9	2.8	3.7	5.7	2.6	3.5	5.5	3.2	5.3
40	2.8	3.6	5.5	2.6	3.4	5.3	2.4	3.2	5.1	2.9	4.9
41	2.5	3.3	5.2	2.3	3.1	5.0	2.1	2.9	4.8	2.7	4.6
42	2.3	3.0	4.9	2.1	2.8	4.7		2.6	4.5	2.4	4.3
43	2.0	2.8	4.6		2.6	4.4		2.4	4.2	2.2	4.0
44		2.5	4.3		2.3	4.1		2.1	3.9		3.7
45					2.1	3.8			3.7		3.4
46						3.6			3.4		3.2
47						3.3			3.1		2.9
48									2.9		2.7
49									2.7		2.5
50									2.4		2.2
51											2.0

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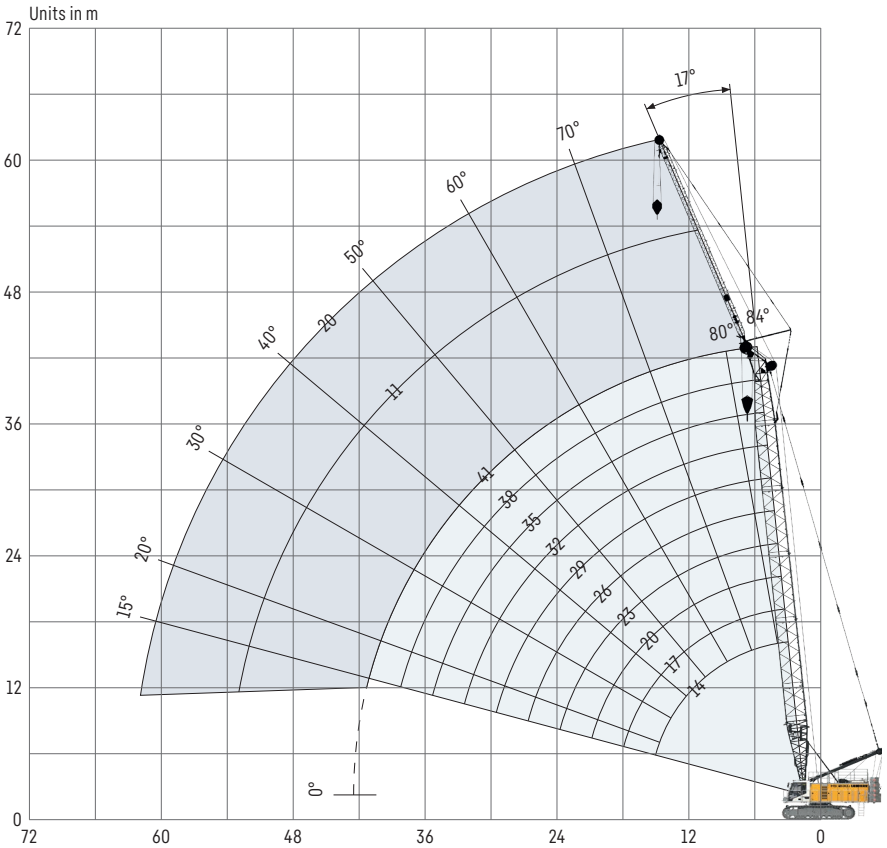
* Counterweight in [t]

[+7] Carbody counterweight in [t]

Lifting operation with fixed jib



Jib configuration 0806HS

Jib section	Amount of jib sections	
Jib foot 5.5 m	1	1
Jib section 9 m		1
Jib head 5.5 m	1	1
Jib length [m]	**11**	**20**

For main boom configuration 20 m - 41 m please refer to the table on page 16.

Load capacities with fixed jib 15° (0806.20)

Jib length 11 m with 44.9 t rear counterweight and 7 t carbody counterweight

Radius [m]	Boom length [m]				
	20	26	32	38	44
10		15.8			
11	14.9	15.2	15.5		
12	14.3	14.7	15.0	15.2	15.3
13	13.9	14.2	14.7	14.7	14.8
14	13.4	13.7	14.2	14.3	14.4
15	13.1	13.4	13.9	14.1	14.1
16	12.8	13.2	13.6	13.8	13.9
17	12.6	13.0	13.4	13.7	13.7
18	12.3	12.8	13.2	13.5	13.5
19	12.1	12.6	13.0	13.3	13.4
20	11.9	12.4	12.9	13.1	13.2
21	11.8	12.2	12.8	13.0	13.1
22	11.6	12.1	12.6	12.8	12.9
23	11.5	11.9	12.4	12.7	12.8
24	11.4	11.8	12.3	12.6	12.7
25	11.2	11.7	12.1	12.4	12.6
26	11.1	11.6	12.0	12.3	12.5
27	10.9	11.4	11.9	12.2	12.1
28	10.7	11.3	11.8	11.8	11.4
29	10.5	11.2	11.5	11.1	10.7
30	10.3	11.1	10.9	10.5	10.1
31		10.7	10.3	9.9	9.4
32		10.1	9.8	9.3	8.9
33		9.6	9.2	8.8	8.3
34		9.1	8.7	8.3	7.8
35		8.6	8.2	7.8	7.4
36		8.2	7.8	7.4	6.9
37			7.4	6.9	6.5
38			7.0	6.5	6.1
39			6.6	6.2	5.7
40			6.2	5.8	5.4
41			5.8	5.5	5.0
42				5.1	4.7
43				4.8	4.4
44				4.5	4.1
45				4.2	3.8
46				3.9	3.5
47					3.3
48					3.0
49					2.8
50					2.5
51					2.3
52					2.1

Preliminary. 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.

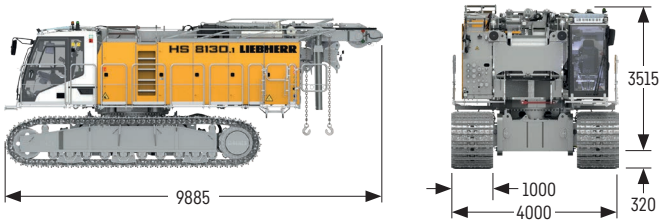
Jib length 20 m with 44.9 t rear counterweight and 7 t carbody counterweight

Radius [m]	Boom length [m]				
	20	23	29	35	38
13	7.1	7.1			
14	6.8	6.8	6.8		
15	6.6	6.6	6.6	6.7	6.6
16	6.4	6.4	6.5	6.5	6.5
17	6.3	6.3	6.4	6.4	6.4
18	6.1	6.2	6.2	6.3	6.3
19	6.0	6.0	6.1	6.2	6.2
20	5.8	5.9	6.1	6.1	6.1
21	5.7	5.8	5.9	6.0	6.0
22	5.6	5.6	5.8	5.9	6.0
23	5.5	5.6	5.7	5.8	5.9
24	5.4	5.4	5.6	5.7	5.8
25	5.2	5.3	5.5	5.6	5.7
26	5.1	5.2	5.4	5.6	5.7
27	5.1	5.1	5.3	5.5	5.6
28	5.0	5.1	5.3	5.4	5.5
29	4.9	5.0	5.2	5.4	5.5
30	4.8	4.9	5.1	5.3	5.4
31	4.7	4.8	5.0	5.2	5.3
32	4.6	4.7	5.0	5.1	5.3
33	4.6	4.7	4.9	5.1	5.2
34	4.5	4.6	4.8	5.0	5.1
35	4.5	4.6	4.8	5.0	5.1
36	4.4	4.5	4.7	4.9	5.0
37	4.4	4.5	4.6	4.8	5.0
38	4.4	4.4	4.6	4.8	4.9
39	4.3	4.4	4.5	4.7	4.9
40		4.4	4.5	4.7	4.8
41		4.3	4.5	4.6	4.8
42		3.8	4.4	4.6	4.7
43			4.4	4.5	4.7
44			4.4	4.5	4.7
45			4.4	4.5	4.6
46			4.3	4.5	4.5
47			4.3	4.4	4.2
48				4.4	4.0
49				4.1	3.8
50				3.9	3.5
51				3.7	3.3
52				3.5	3.1
53					2.9
54					2.7
55					2.5
56					2.3
57					2.1
58					1.9

Preliminary. 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

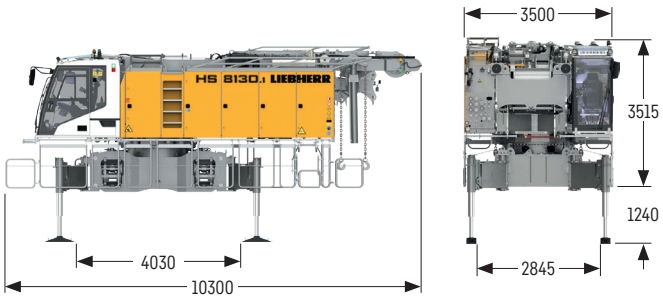
Basic machine and main boom (2018.33)



Basic machine

with HD undercarriage, A-frame, 2x 350 kN winches and self-assembly system for rear counterweight, without boom foot and rear counterweight – fully tanked and ready for operation

Width	mm	4000
Weight without hoist ropes	kg	78000
Weight of hoist ropes (2x 90 m)	kg/m	6.45



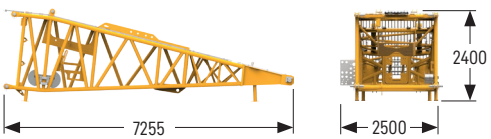
Basic machine

with A-frame, self-assembly system, 2x 350 kN winches, without boom foot, rear counterweight and crawlers – fully tanked and ready for operation

Width	mm	3500
Weight without hoist ropes	kg	51000
Weight of hoist ropes (2x 90 m)	kg/m	6.45

Crawler (2x)

2-web grousers	mm	1000
Width	mm	1055
Weight	kg	14900

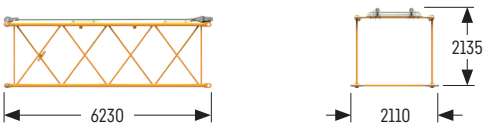


Boom foot 7 m (2018.33)

Width	mm	2500
Weight incl. pendant ropes	kg	3215

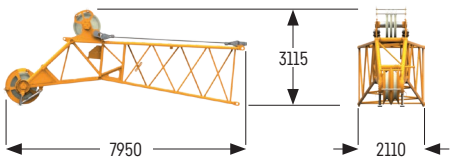
Boom section 3 m (2018.33)

Width	mm	2110
Weight incl. pendant ropes	kg	750



Boom section 6 m (2018.33)

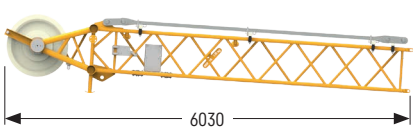
Width	mm	2110
Weight incl. pendant ropes	kg	1230

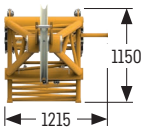


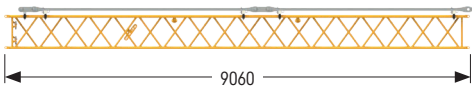
Boom head 7 m (2018.33)

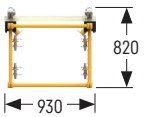
Width	mm	2110
Weight incl. pendant ropes	kg	3950

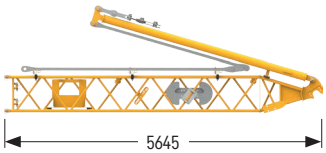
Fixed jib

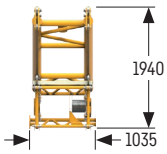


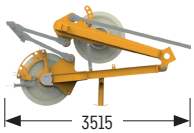


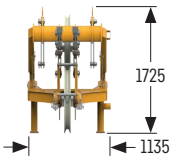












Jib head

Width	mm	1215
Weight	kg	760

Jib section 9 m

Width	mm	930
Weight	kg	675

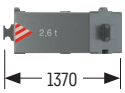
Jib foot with A-frame

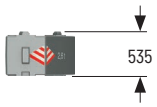
Width	mm	1035
Weight	kg	980

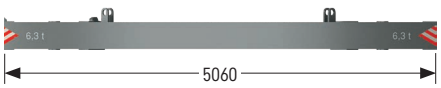
Auxiliary jib

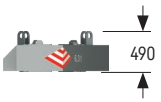
Width	mm	1135
Weight	kg	1310

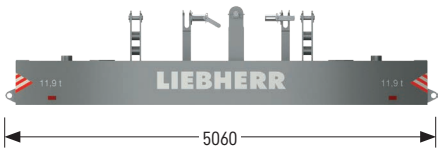
Counterweight

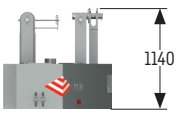


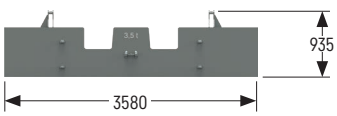


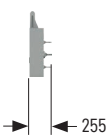












Counterweight slab (4x, option 6x)

Width	mm	840
Weight	kg	2680

Counterweight slab (1x)

Width	mm	1220
Weight	kg	6300

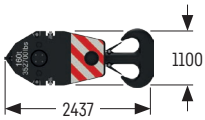
Counterweight slab (1x)

Width	mm	1220
Weight	kg	12000

Carbody counterweight (2x)

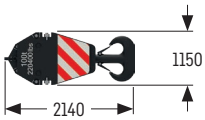
Width	mm	255
Weight	kg	3500

Hooks



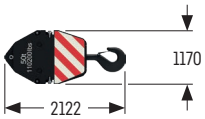
160 t hook block – 3 sheaves

Width	mm	420
Weight	kg	2011



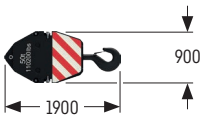
100 t hook block – 2 sheaves

Width	mm	270
Weight	kg	1200



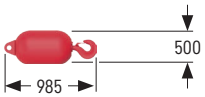
80 t hook block – 2 sheaves

Width	mm	245
Weight	kg	1200



50 t hook block – 1 sheave

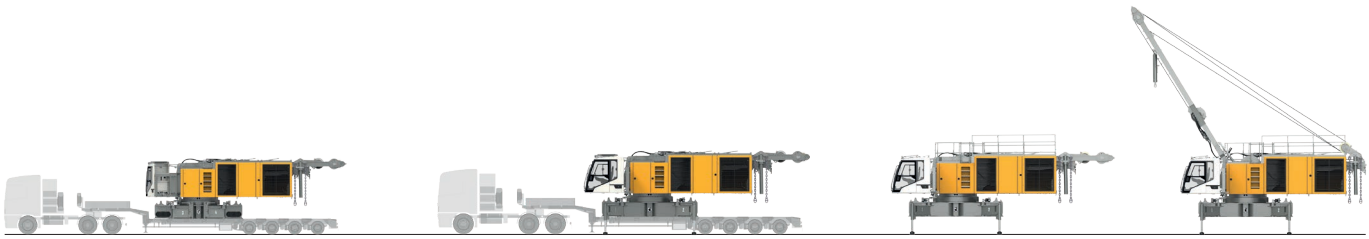
Width	mm	230
Weight	kg	750



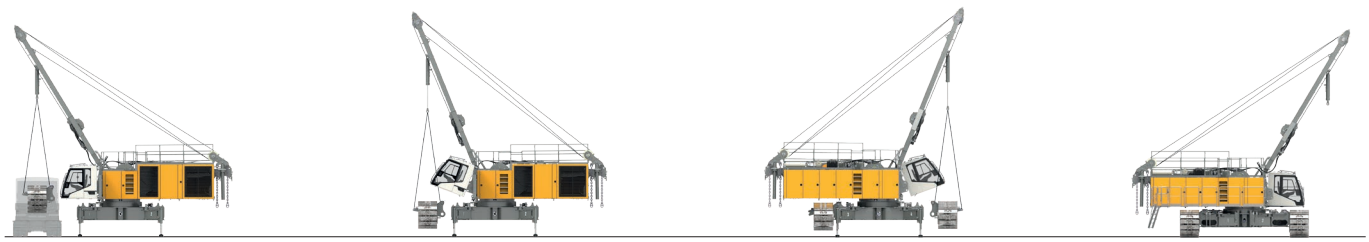
35 t single hook

Width	mm	500
Weight	kg	800

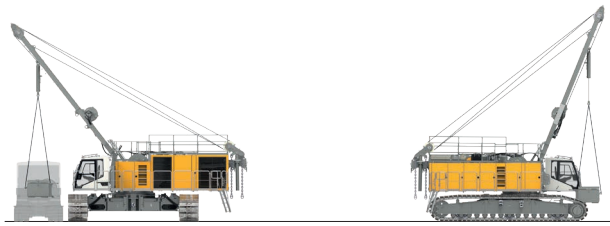
Self-assembly system



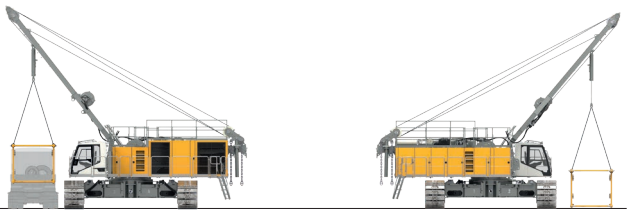
Unloading of basic machine (option)



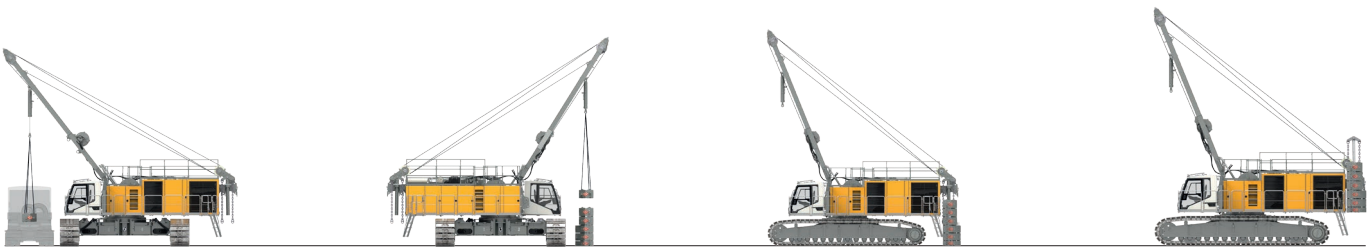
Unloading and assembly of crawlers



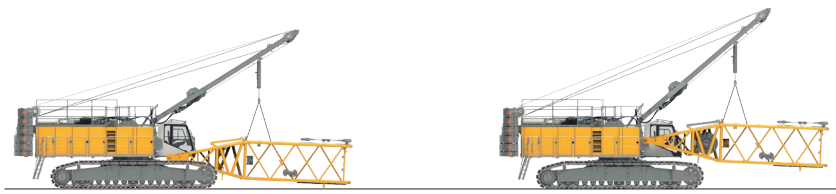
Unloading and assembly of carbody counterweight



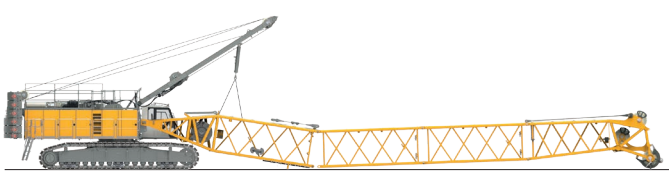
Unloading and assembly of boom



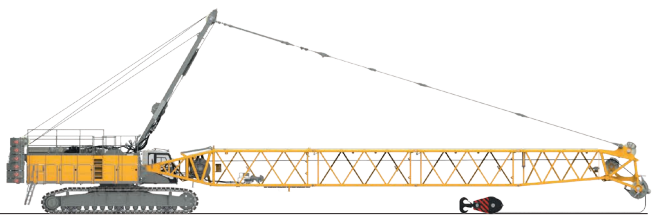
Unloading and assembly of rear counterweight



Assembly of boom foot

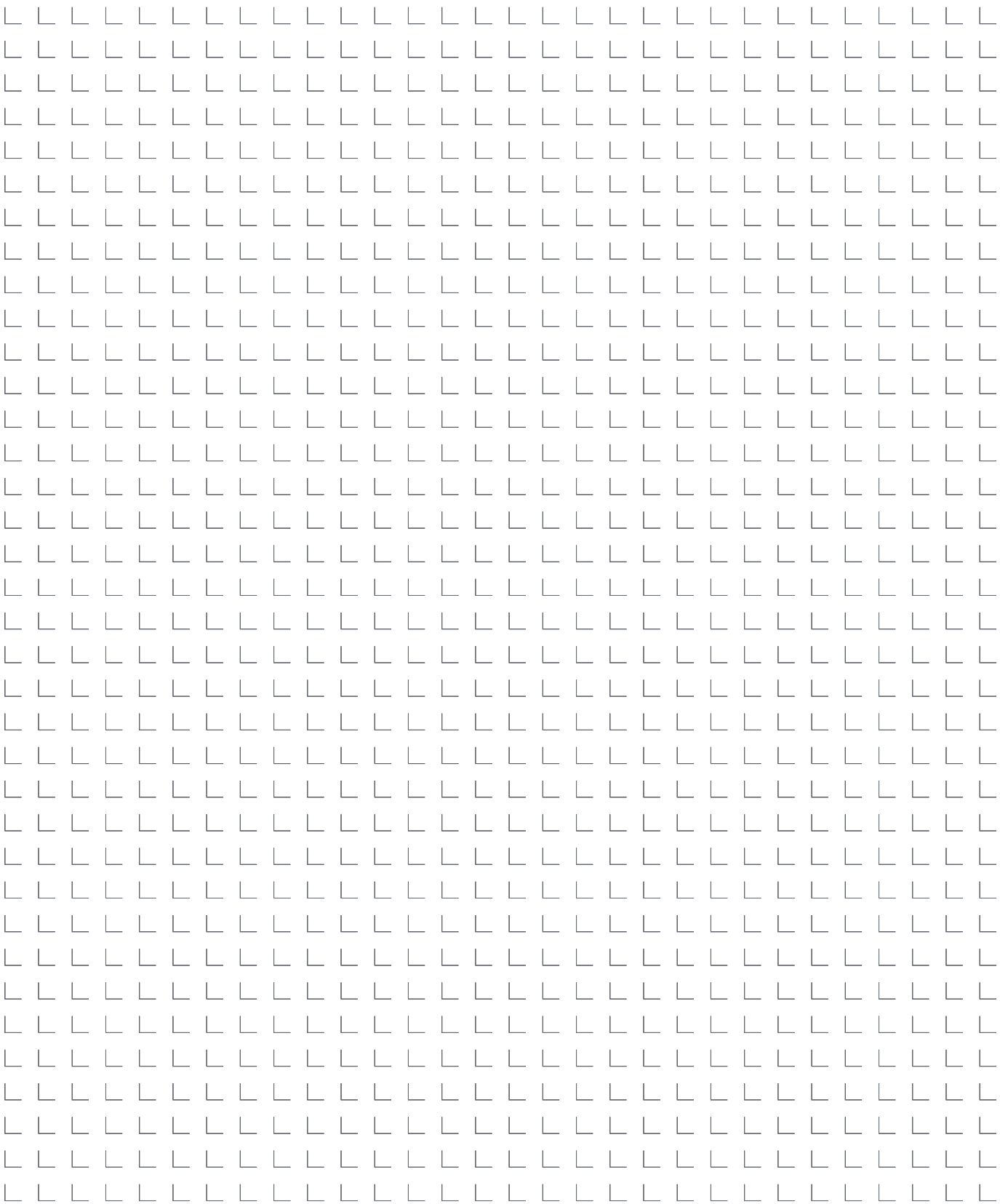


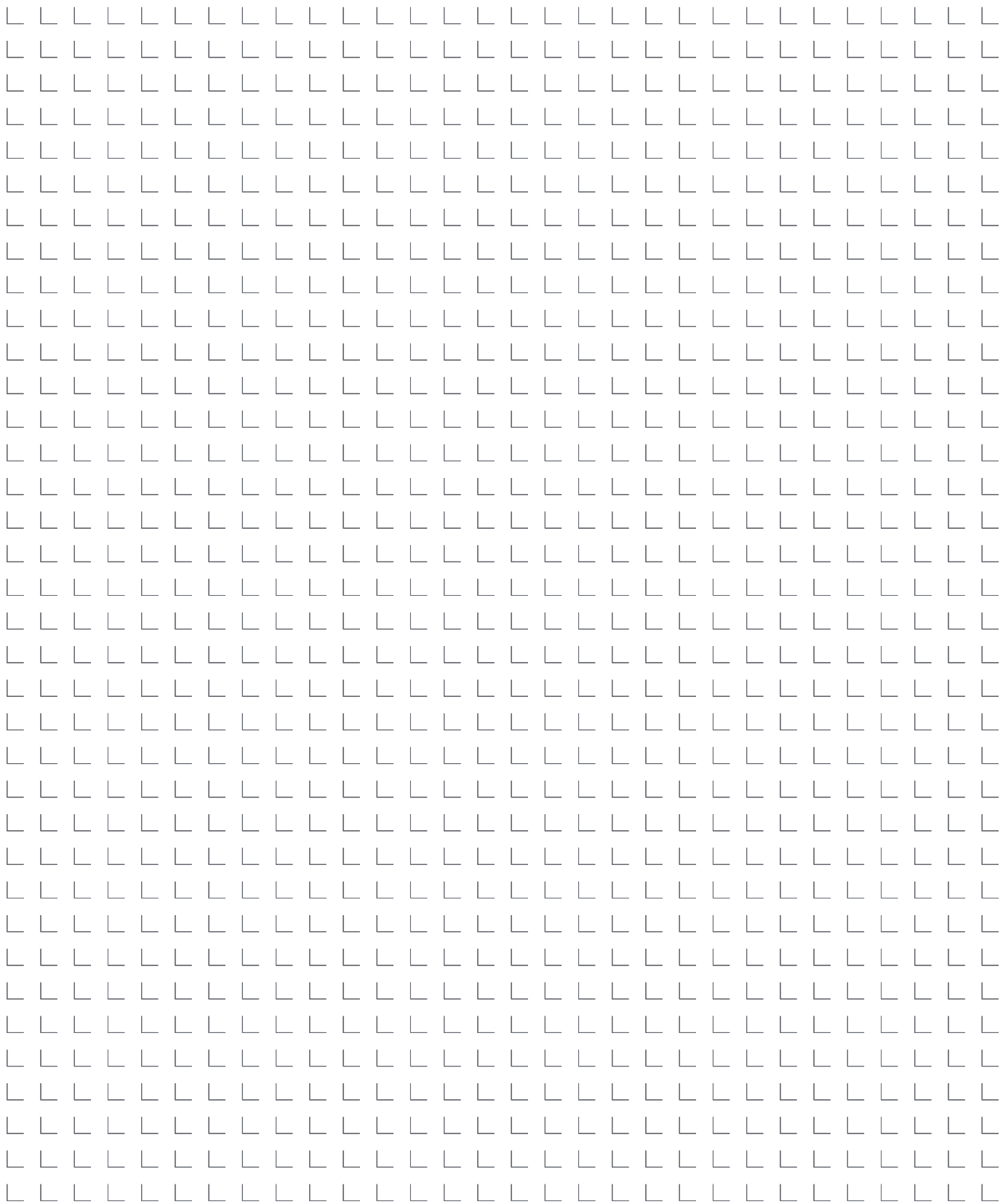
Assembly of boom



Reeving of hoist ropes

Notes





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