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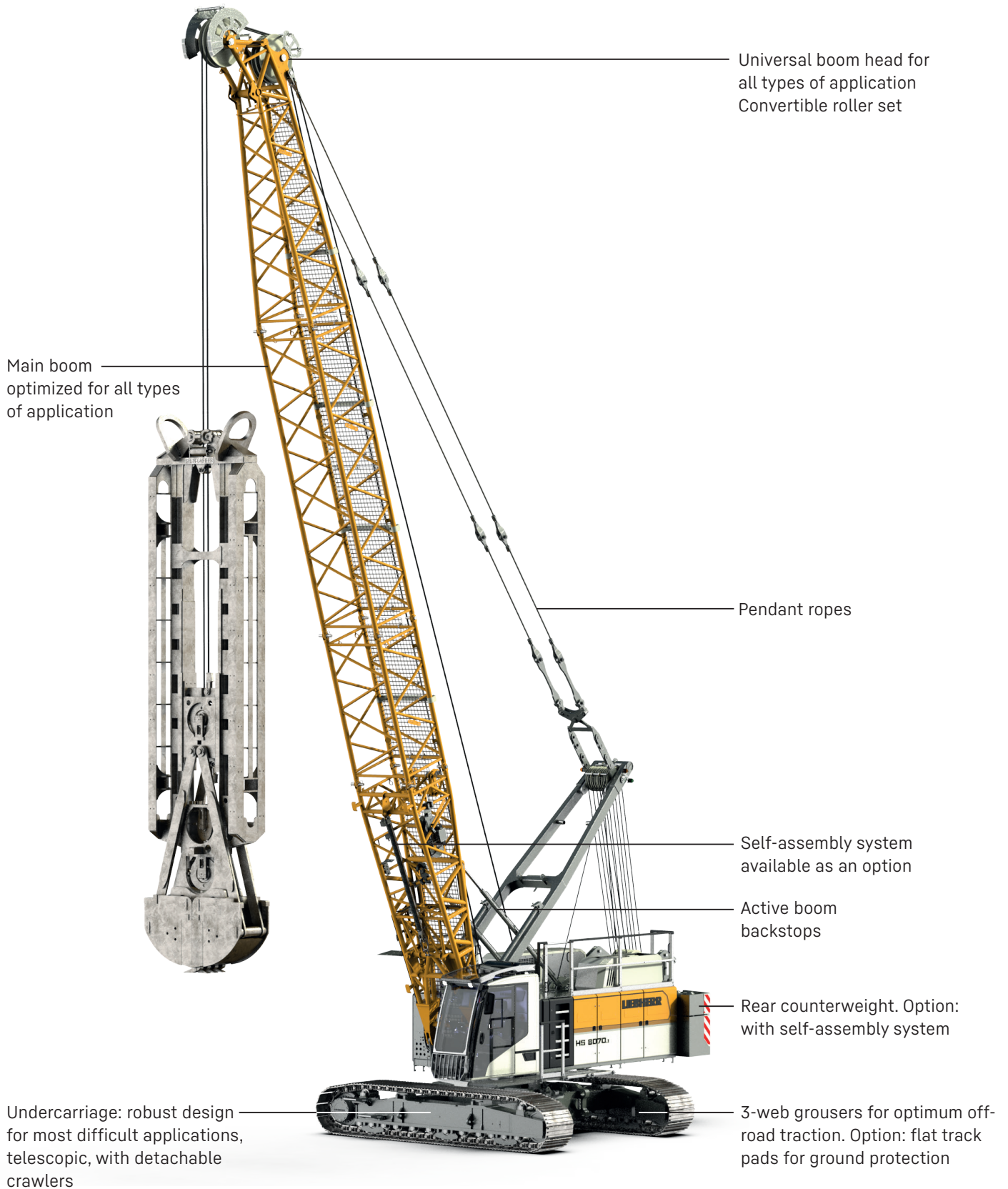
HS 8070.1

HS 8003.02.03
www.liebherr.com

LIEBHERR

Construction machines

Concept and characteristics

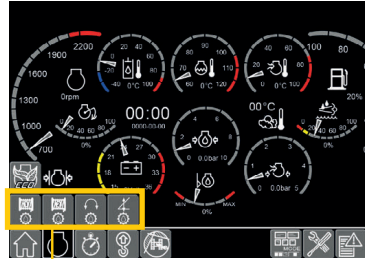




The newly developed cabin combines operator comfort with easy handling.

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
- Option: Piling control incl. cabin protection and armoured glass



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



Technical description



Operating weight

Composition of operating weight	The operating weight includes the basic machine with undercarriage, 2 main winches 200 kN including wire ropes (90 m), and 11 m main boom, consisting of A-frame, boom foot (5.5 m) and boom head (5.5 m), 20.3 t rear counterweight, 800 mm 3-web grousers and 60 t hook block
Total weight	approx. 72 t

Ground pressure

Ground pressure	1 kg/cm ²	with 700 mm grousers
	0.9 kg/cm ²	with 800 mm grousers
	0.81 kg/cm ²	with 900 mm grousers

Equipment

Main boom (1311.24)	max. 50 m in lifting operation max. 32 m in duty cycle operation
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

Diesel engine

Power rating according to ISO 9249	320 kW (429 hp) at 1700 rpm
Engine type	Liebherr D 936 A7-05
Fuel tank capacity	475 l with continuous level indicator and reserve warning
AdBlue tank capacity	46 l with continuous level indicator and reserve warning
Exhaust certification	97/68 EC Stage IV; EPA/CARB Tier 4f 97/68 EC Stage V; EPA/CARB Tier 4f ECE-R.96 Power Band H non-certified emission standard

Noise measurement data and vibration

Noise emission	according to 2000/14/EC directive
Emission sound pressure level L_{PA}	74 dB(A) (in the cabin)
Guaranteed sound power level L_{WA}	107 dB(A) (of the machine)
Vibration transmitted to the machine operator	< 2.5 m/s ² (to the hand-arm system) < 0.5 m/s ² (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	820 l
Max. working pressure	350 bar
Max. power at the connection plate	200 kW (2x 290 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)	
Winch options	Standard	Option
Line pull in the 1 st layer	200 kN	160 kN
Rope diameter	30 mm	26 mm
Drum diameter	630 mm	550 mm
Rope speed	0-125 m/min	0-130 m/min
Rope capacity in the 1 st layer	40.6 m*	41.5 m*
Rope capacity in the 3 rd layer	149.4 m*	146 m*
	*effective length	
Options		
Auxiliary winch	70 kN in boom foot	
Tagline winch	30 kN with free fall	

Boom winch

Line pull	max. 105 kN
Rope diameter	20 mm
Boom luffing	15-86° in 44 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	0-1.5 km/h
Grousers	3-web grousers, width 800 mm
Width of undercarriage	automatic track width adjustment from transport width to operating width via hydraulic cylinders
Options	self-assembly system, jack-up system 3-web grousers, width 900 mm 3-web grousers, width 700 mm track pads, width 800 mm Crawler overdrive: 0-2.5 km/h

Swing gear

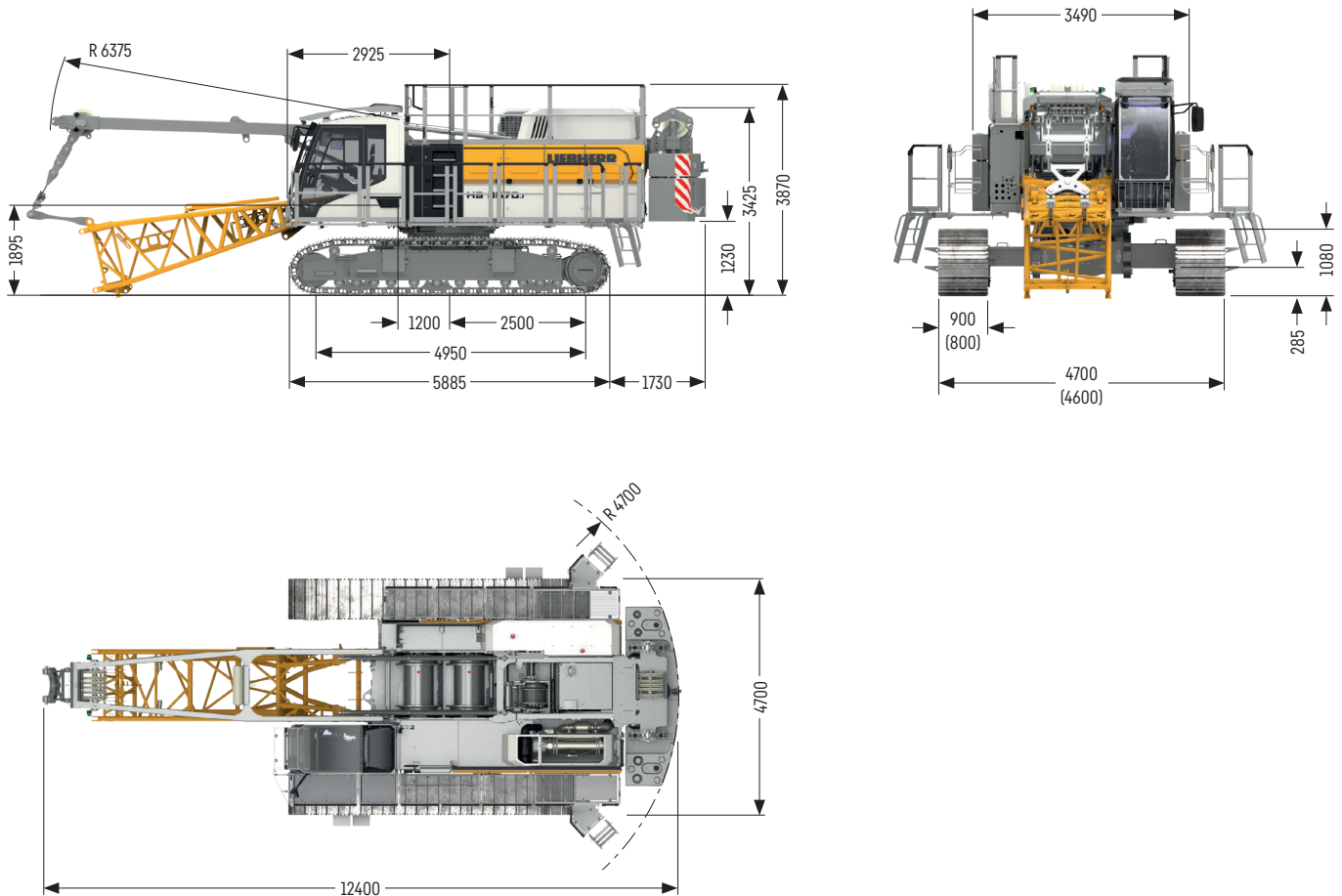
Drive system	2x swing drives (standard) with fixed axial piston hydraulic motors, planetary gearbox, pinion
Swing ring	roller bearing with external teeth
Brake	hydraulically released, spring-loaded multi-disc holding brake
Swing speed	0-4.5 rpm continuously variable, selector for 3 speed ranges to increase swing precision
Lubrication system	reduces maintenance requirements and increases service life
Option	Display of swing angle swing ring protection automatic central lubrication system for bearings and teeth

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

Dimensions

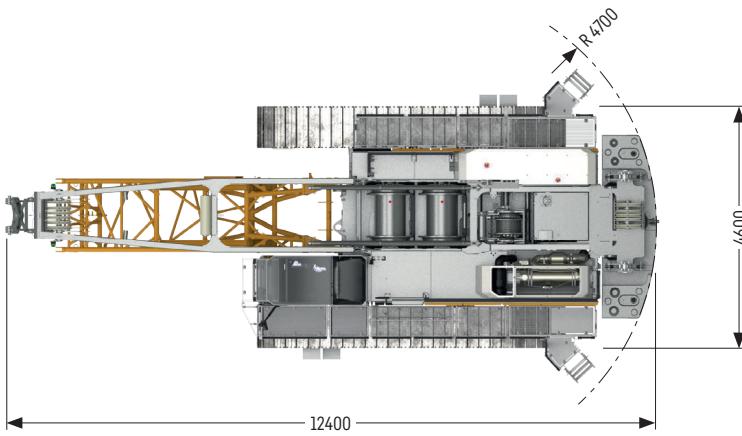
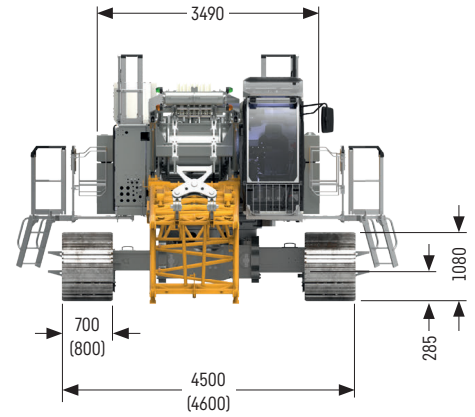
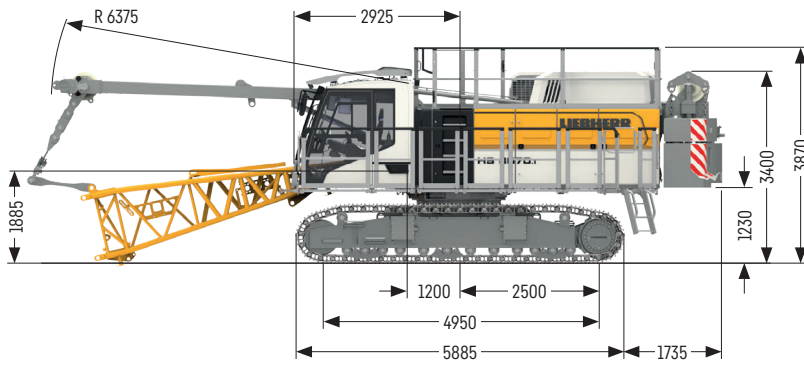
Basic machine with undercarriage, crawlers detachable



Remarks

- Liebherr cable excavator HS 8003.02.03
- 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.

Basic machine with undercarriage, crawlers non-detachable



Grab versions



Dredging assistant (option)



Further information on material handling



Casing oscillator

Max. drilling diameter

mm 2000

Capacities in grab operation

Capacities in [t] with 20.3t counterweight

	Boom length [m]							
	11	14	17	20	23	26	29	32
6					30.3	30.3	30.3	30.3
7		29.5	29.6	29.1	28.6	27.7	27.2	26.8
8	24.2	24.3	24.3	24.3	24.3	24.0	23.3	22.4
9	20.4	20.5	20.5	20.5	20.5	20.4	20.2	19.4
10	17.6	17.7	17.7	17.7	17.6	17.6	17.4	16.8
11	15.3	15.5	15.5	15.5	15.4	15.4	15.3	14.7
12	13.5	13.7	13.7	13.7	13.7	13.6	13.5	13.1
13		12.2	12.3	12.2	12.2	12.1	12.0	11.9
14		11.0	11.1	11.0	11.0	10.9	10.8	10.7
15		9.9	10.0	10.0	10.0	9.9	9.8	9.7
16			9.1	9.1	9.1	9.0	8.9	8.8
17			8.3	8.3	8.3	8.2	8.1	8.0
18			7.6	7.7	7.6	7.6	7.5	7.4
19				7.1	7.0	7.0	6.9	6.8
20				6.5	6.5	6.4	6.4	6.3
21				6.0	6.0	6.0	5.9	5.8
22					5.6	5.5	5.4	5.3
23					5.2	5.1	5.1	5.0
24						4.8	4.7	4.6
25						4.4	4.4	4.3
26						4.1	4.1	4.0
27							3.8	3.7
28							3.5	3.5
29							3.3	3.2
30								3.0
31								2.8
32								2.6

TLT 13164865 M253330 - v2. Stability calculated according to EN 474-12. Max. capacities do not exceed 66% of tipping load.

Max. lifting capacity with mechanical grab is 20t. For higher lifting capacities a hydraulic grab is required.

Slurry wall grab

Maximum capacity in duty cycle operation with standard ropes

Line pull (1 st layer)	kN 200
Rope diameter	mm 30
Minimum breaking load	kN 846
Line pull - 1-rope duty cycle operation	kN 200
Line pull - 2-rope duty cycle operation ¹⁾	kN 303

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. walkways, hose drums etc.) must be deducted to get the net capacity.



Load chart for slurry wall operation

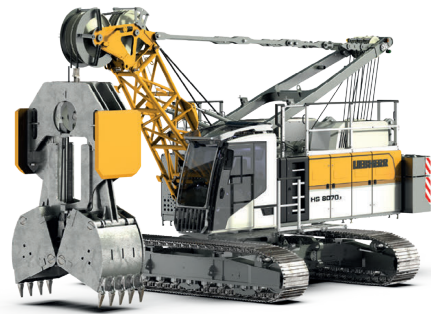
Capacities in [t] with 20.3t counterweight

	Boom length [m]							
	11	14	17	20	23	26	29	32
6					30.1	30.9	28.0	29.6
7		26.4	26.4	26.4	26.5	26.1	26.5	26.0
8	21.5	21.6	21.6	21.6	21.6	21.5	21.5	21.4
9	18.0	18.1	18.1	18.1	18.1	18.0	17.9	17.9
10	15.4	15.5	15.5	15.5	15.4	15.4	15.2	15.2
11	13.4	13.5	13.5	13.5	13.4	13.3	13.2	13.1
12	11.7	11.9	11.9	11.8	11.8	11.7	11.6	11.5
13		10.5	10.6	10.5	10.5	10.3	10.3	10.1
14		9.4	9.5	9.4	9.3	9.2	9.1	9.0
15		8.4	8.5	8.5	8.4	8.3	8.2	8.1
16			7.7	7.6	7.6	7.5	7.4	7.2
17			7.0	6.9	6.9	6.8	6.7	6.5
18			6.3	6.3	6.3	6.2	6.1	5.9
19				5.8	5.7	5.6	5.5	5.4
20				5.3	5.2	5.1	5.0	4.9
21				4.8	4.8	4.7	4.6	4.5
22					4.4	4.3	4.2	4.1
23					4.0	3.9	3.8	3.7
24					3.7	3.6	3.5	3.4
25						3.3	3.2	3.1
26						3.0	2.9	2.8
27							2.7	2.5
28							2.4	2.3
29							2.2	2.1
30								1.9
31								1.7
32								1.5

Preliminary. Stability calculated according to EN 16228-5. Max. lifting capacity with mechanical grab is 20 metric tonnes.
 For higher lifting capacities a hydraulic grab is required.



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



Short boom

Data available on request

Dynamic soil compaction



Capacities in [t] with 20.3t counterweight

Radius [m]	Boom length [m]		
	20	23	26
8	17	16	16
9	14	14	14

TLT 13164865 M253330 - v2. 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.

Option: Piling control incl. cabin protection and armoured glass

Max. main boom 26 m

Special applications

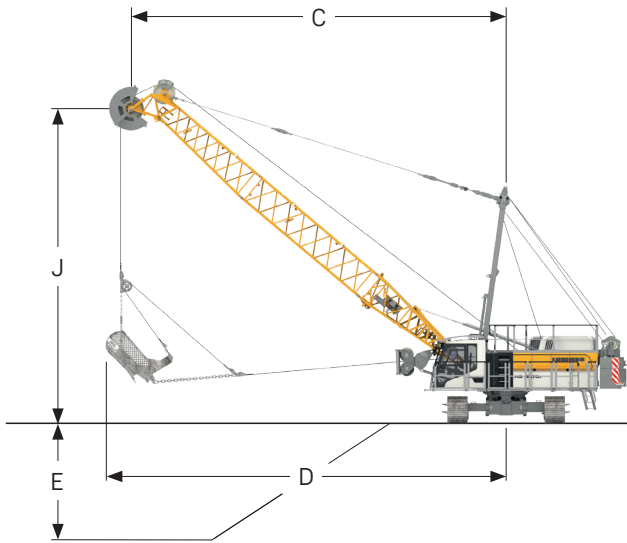
- Vibro-flot (deep vibrator)
- Hammer
- Vibrator (free-hanging)
- Shaft excavation
- Rock handling
- Magnet system
- Demolition (longer main booms available on request)

Capacities in [t] with 20.3 t counterweight

	Boom length [m]							
	11	14	17	20	23	26	29	32
6					30.3	30.3	30.3	30.3
7		30.3	29.8	29.1	28.6	27.7	27.2	26.8
8	26.6	25.9	25.6	24.9	24.3	24.0	23.3	22.4
9	23.1	22.5	22.0	21.7	21.1	20.6	20.2	19.4
10	20.0	19.6	19.4	18.8	18.5	18.1	17.4	16.8
11	17.4	17.5	17.0	16.7	16.2	16.0	15.4	14.7
12	15.4	15.4	15.0	14.9	14.3	14.1	13.8	13.1
13		13.7	13.6	13.3	13.0	12.6	12.5	11.9
14		12.5	12.4	12.0	11.9	11.4	11.3	10.9
15		11.3	11.3	11.1	10.9	10.6	10.4	10.1
16			10.4	10.3	10.1	9.8	9.7	9.4
17			9.5	9.5	9.4	9.1	9.0	8.8
18			8.7	8.7	8.7	8.6	8.4	8.2
19				8.0	8.0	7.9	7.8	7.7
20				7.4	7.4	7.3	7.2	7.1
21				6.8	6.8	6.8	6.7	6.6
22					6.3	6.3	6.2	6.1
23					5.9	5.8	5.7	5.6
24						5.4	5.3	5.2
25						5.0	5.0	4.9
26						4.7	4.6	4.5
27							4.3	4.2
28							4.0	3.9
29							3.7	3.6
30								3.4
31								3.1
32								2.9

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Max. main boom 32m

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

*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 20.3t counterweight

alpha [°]	Boom length [m]								
	14			17			20		
	C	J	Rear counterweight	C	J	Rear counterweight	C	J	Rear counterweight
55	10.2	13.4	19.2	11.9	15.8	15.2	13.6	18.3	12.5
50	11.1	12.6	17.3	13.0	14.9	13.6	15.0	17.2	11.1
45	12.0	11.8	15.5	14.1	13.9	12.3	16.2	16.0	10.1
40	12.7	10.9	14.1	15.1	12.8	11.3	17.3	14.7	9.2
35	13.4	9.9	13.2	15.9	11.6	10.5	18.4	13.4	8.5
30	14.0	8.9	12.4	16.6	10.4	9.8	19.2	11.9	7.9
25	14.5	7.8	11.9	17.2	9.1	9.3	20.0	10.3	7.4

TLT 13164865 M253330 - v2

Capacities in [t] with 20.3t counterweight

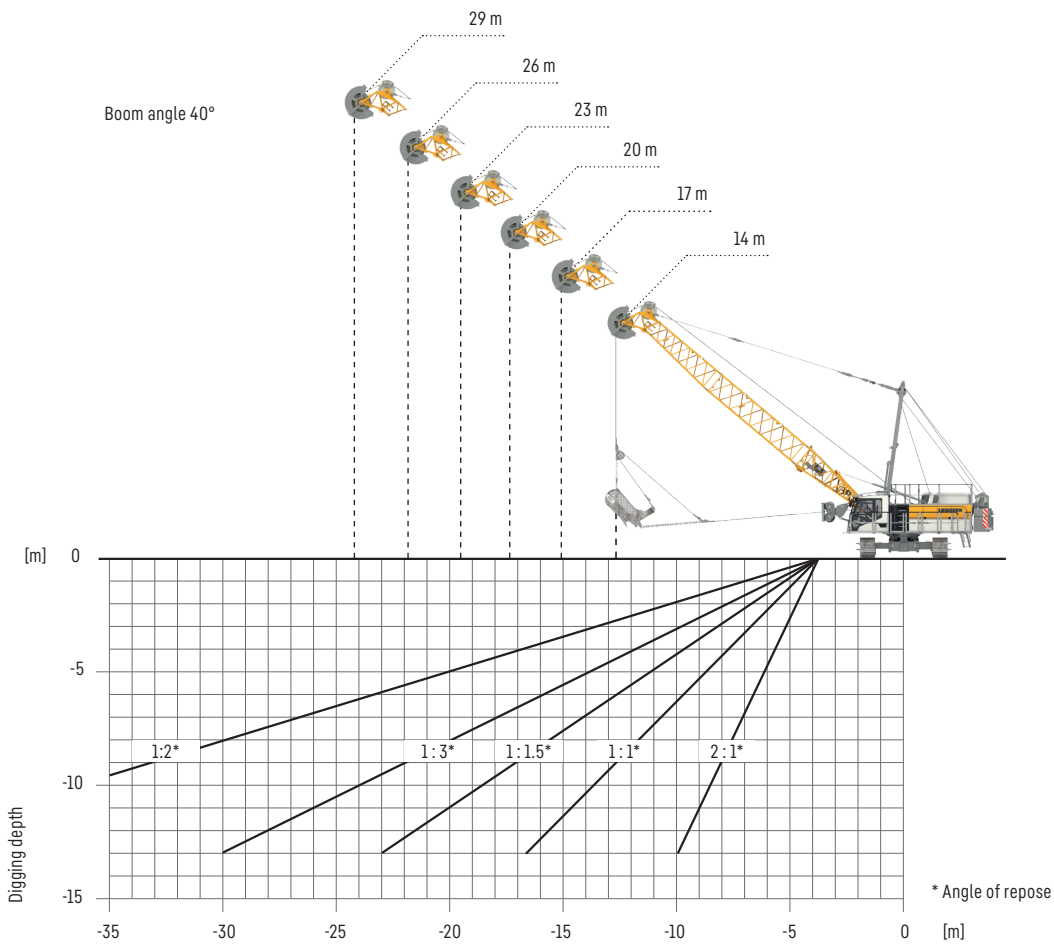
alpha [°]	Boom length [m]								
	23			26			29		
	C	J	Rear counterweight	C	J	Rear counterweight	C	J	Rear counterweight
55	15.3	20.7	10.6	17.1	23.2	9.1	18.8	25.6	7.9
50	16.9	19.5	9.5	18.8	21.8	8.0	20.7	24.1	6.8
45	18.3	18.1	8.5	20.4	20.3	7.1	22.6	22.4	5.9
40	19.6	16.7	7.6	21.9	18.6	6.3	24.2	20.5	5.2
35	20.8	15.1	6.9	23.3	16.8	5.7	25.7	18.5	4.7
30	21.8	13.4	6.4	24.4	14.9	5.2	27.0	16.4	4.3
25	22.7	11.6	6.0	25.4	12.9	4.9	28.2	14.1	4.0

TLT 13164865 M253330 - v2. 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.

Max. main boom 32m

Planning aid for dragline operation



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

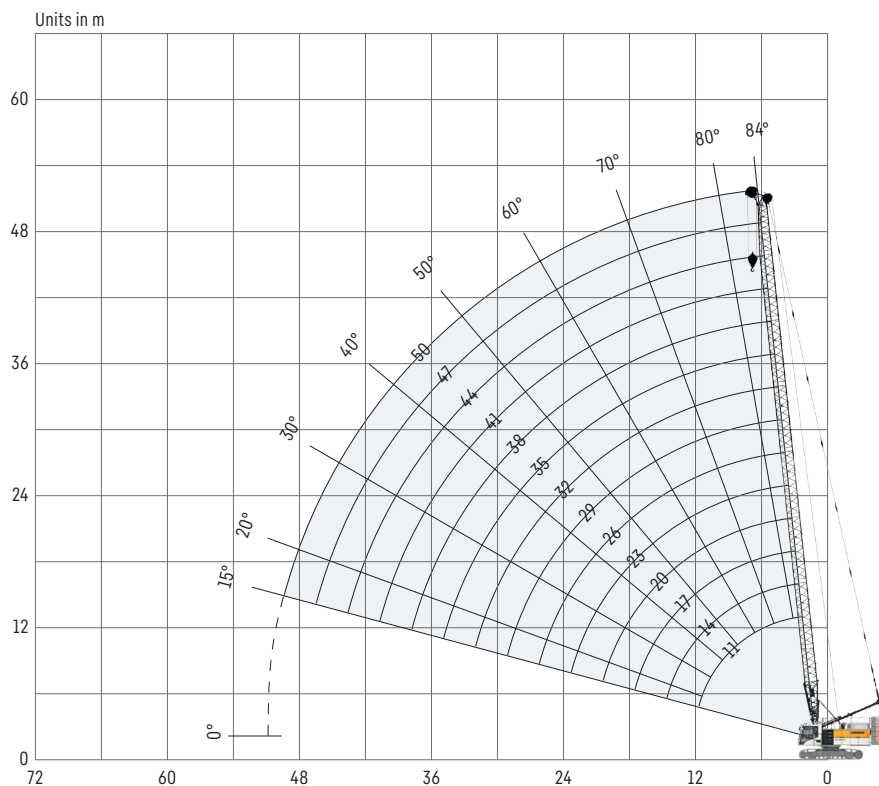
Main boom [m]	14	17	20	23	26	29
Dragline bucket [m³/ yd³]	5 / 6.5	3.8 / 5	3.5 / 4.5	2.7 / 3.5	2.1 / 2.75	1.7 / 2.25

Density: 1.8tm³ and fill factor 0.8

* The digging depth depends on the material's angle of repose.

Lifting operation

Main boom 84°-15°



Auxiliary jib 20 t









The maximum capacity of the auxiliary jib is 20 t. The corresponding load chart is programmed in the LML system.

Main boom configuration


Boom section	Amount of boom sections													
	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom foot 5.5 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 5.5 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom length [m]	11	14	17	20	23	26	29	32	35	38	41	44	47	50
Auxiliary jib	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

preferred boom combinations

Capacities in [t]

	Boom length [m]															
	11				14				17				20			
*	17.3	20.3	23.3 	29.3 	17.3	20.3	23.3 	29.3 	17.3	20.3	23.3 	29.3 	17.3	20.3	23.3 	29.3 
3			70.0**													
4			70.0**				69.6		61.4		70.0		57.6		70.0	
5	52.0		64.4		49.2		63.8		46.6		59.5		44.3		57.6	
6	40.9		53.5		39.1		51.3		37.4		48.9		35.8	39.0	46.8	
7	32.4		43.1		32.3	35.2	42.9		31.1	33.9	41.3		29.8	32.6	39.4	39.4
8	26.6	29.0	35.5	39.8	26.7	29.1	35.6	36.8	26.5	28.9	35.2	35.2	25.5	27.9	33.8	33.8
9	22.4	24.4	30.0	34.1	22.5	24.5	30.1	32.8	22.5	24.6	30.1	30.6	22.2	24.3	29.4	29.4
10	19.2	21.0	25.8	29.5	19.3	21.1	26.0	29.6	19.3	21.2	26.0	27.5	19.3	21.1	25.9	25.9
11	16.7	18.3	22.6	25.8	16.8	18.5	22.8	26.0	16.9	18.5	22.8	25.2	16.8	18.4	22.7	23.5
12	14.6	14.6	14.6	14.6	14.8	16.3	20.2	23.1	14.9	16.4	20.2	23.1	14.8	16.3	20.2	21.7
13					13.3	14.6	18.1	20.7	13.4	14.6	18.1	20.8	13.3	14.6	18.1	20.2
14					11.9	13.1	16.3	18.7	12.0	13.2	16.4	18.8	12.0	13.2	16.3	18.7
15					10.7	11.8	14.6	14.6	10.9	12.0	14.9	17.1	10.8	11.9	14.8	17.1
16									9.9	10.9	13.7	15.6	9.8	10.9	13.6	15.6
17									9.0	9.9	12.5	14.5	8.9	9.9	12.5	14.4
18									8.2	9.1	11.5	13.3	8.2	9.1	11.5	13.3
19													7.5	8.4	10.6	12.3
20													6.9	7.7	9.8	11.5
21													6.3	7.1	9.1	10.6

TLT 13164863 M253330 - v7











- * Rear counterweight in[t]
-  + 15.3t carbody counterweight
- ** Max. capacity




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 **Crane Planner 2.0**











Capacities in [t]

Radius [m]	Boom length [m]																			
	23				26				29				32				35			
	17.3	20.3	23.3 	29.3 	17.3	20.3	23.3 	29.3 	17.3	20.3	23.3 	29.3 	17.3	20.3	23.3 	29.3 	17.3	20.3	23.3 	29.3 
5	42.1		55.1		40.0		52.6		38.1	41.6	48.4									
6	34.2	37.3	44.5		32.8	35.8	42.9	42.9	31.4	34.3	41.3	41.3	30.1	32.9	39.2	39.2	28.9	31.6	37.7	37.7
7	28.7	31.3	37.9	37.9	27.6	30.1	36.1	36.1	26.5	29	34.6	34.6	25.5	27.9	33.3	33.3	24.6	26.9	31.8	31.8
8	24.6	26.9	32.2	32.2	23.7	25.9	31.1	31.1	22.8	25.0	30.0	30.0	22.0	24.2	28.8	28.8	21.2	23.3	27.7	27.7
9	21.4	23.5	28.4	28.4	20.7	22.7	27.2	27.2	20.0	21.9	26.3	26.3	19.3	21.2	25.3	25.3	18.6	20.5	24.3	24.3
10	18.9	20.7	25.0	25.0	18.3	20.1	24.2	24.2	17.7	19.4	23.2	23.2	17.1	18.8	22.3	22.3	16.5	18.2	21.6	21.6
11	16.7	18.4	22.4	22.4	16.3	17.9	21.7	21.7	15.8	17.4	21.0	21.0	15.2	16.8	20.1	20.1	14.7	16.2	19.4	19.4
12	14.8	16.2	20.1	20.4	14.6	16.1	19.6	19.6	14.3	15.6	19.0	19.0	13.8	15.1	18.3	18.3	13.3	14.6	17.6	17.6
13	13.3	14.6	18.0	19.0	13.2	14.5	17.9	17.9	12.9	14.3	17.3	17.3	12.5	13.8	16.7	16.7	12.1	13.4	16.2	16.2
14	11.9	13.1	16.2	17.8	11.8	13.0	16.1	16.7	11.7	12.9	15.9	15.9	11.4	12.6	15.3	15.3	11.0	12.2	14.8	14.8
15	10.7	11.9	14.8	16.7	10.6	11.8	14.6	15.7	10.5	11.6	14.6	14.8	10.4	11.5	14.3	14.3	10.0	11.1	13.7	13.7
16	9.8	10.8	13.6	15.6	9.6	10.7	13.5	14.8	9.5	10.6	13.3	14.0	9.4	10.4	13.1	13.1	9.2	10.2	12.6	12.6
17	8.9	9.9	12.5	14.4	8.8	9.7	12.3	14.0	8.7	9.6	12.2	13.2	8.5	9.5	12.1	12.4	8.4	9.4	11.8	11.8
18	8.1	9.0	11.5	13.3	8.0	8.9	11.4	13.2	7.9	8.8	11.3	12.5	7.8	8.7	11.1	11.7	7.6	8.6	10.9	11.1
19	7.5	8.3	10.6	12.3	7.4	8.2	10.5	12.2	7.2	8.1	10.4	11.9	7.1	8.0	10.3	11.1	7.0	7.8	10.1	10.5
20	6.9	7.7	9.8	11.4	6.8	7.6	9.7	11.3	6.7	7.5	9.6	11.2	6.5	7.3	9.5	10.6	6.4	7.2	9.4	10.0
21	6.3	7.1	9.1	10.7	6.2	7.0	9.0	10.6	6.1	6.9	8.9	10.4	6.0	6.7	8.8	10.1	5.9	6.6	8.7	9.5
22	5.8	6.6	8.5	10.0	5.7	6.5	8.4	9.9	5.6	6.4	8.3	9.7	5.5	6.2	8.2	9.6	5.4	6.1	8.0	9.1
23	5.4	6.1	7.9	9.3	5.3	6.0	7.8	9.2	5.2	5.9	7.7	9.1	5.1	5.8	7.6	8.9	4.9	5.6	7.5	8.7
24					4.9	5.5	7.3	8.6	4.8	5.5	7.2	8.5	4.7	5.3	7.1	8.3	4.5	5.2	7.0	8.2
25					4.5	5.1	6.8	8.1	4.4	5.1	6.8	8.0	4.3	4.9	6.6	7.8	4.2	4.8	6.5	7.7
26					4.2	4.8	6.4	7.6	4.1	4.7	6.3	7.5	4.0	4.6	6.2	7.3	3.8	4.4	6.1	7.2
27									3.8	4.4	5.9	7.1	3.7	4.2	5.8	6.9	3.5	4.1	5.7	6.8
28									3.5	4.0	5.5	6.7	3.4	3.9	5.4	6.5	3.2	3.8	5.3	6.4
29									3.2	3.7	5.2	6.3	3.1	3.6	5.1	6.1	3.0	3.5	5.0	6.0
30													2.8	3.4	4.7	5.8	2.7	3.3	4.6	5.6
31													2.6	3.1	4.4	5.4	2.5	3.0	4.3	5.3
32													2.4	2.9	4.2	5.1	2.3	2.8	4.1	5.0
33																	2.1	2.5	3.8	4.7
34																	2.0	2.3	3.5	4.5
35																	2.1	3.3	4.2	


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* Rear counterweight in[t]
 + 15.3t carbody counterweight

Capacities in [t]

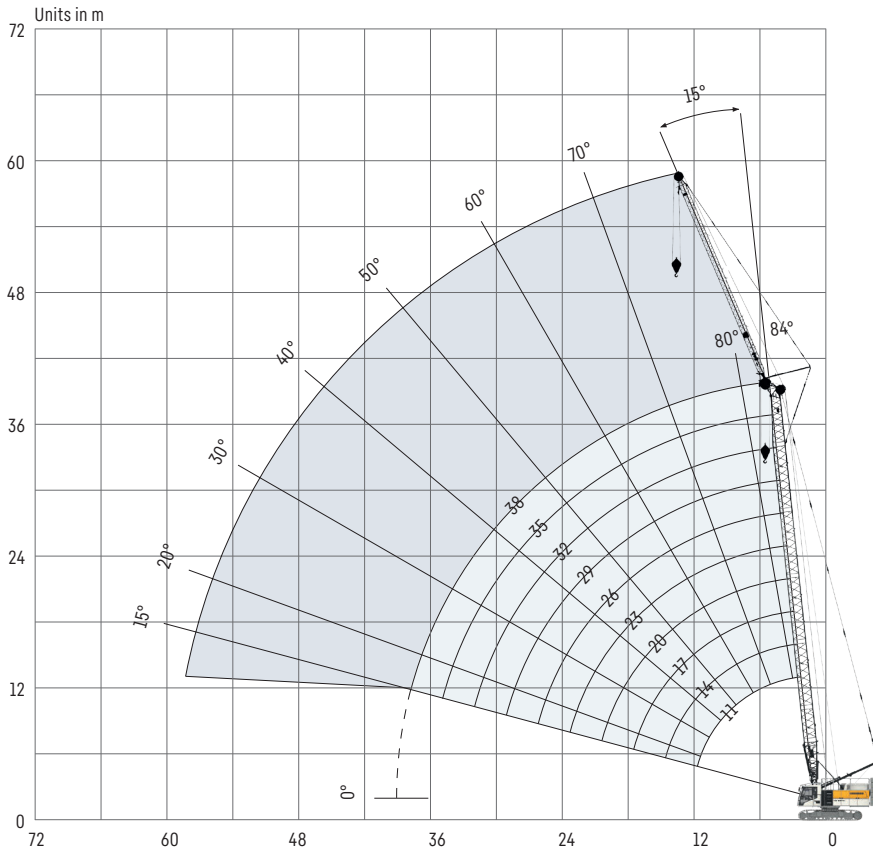
* Radius [m]	Boom length [m]																
	38				41				44				47			50	
	17.3	20.3	23.3 	29.3 	17.3	20.3	23.3 	29.3 	17.3	20.3	23.3 	29.3 	20.3	23.3 	29.3 	23.3 	29.3 
6	27.7	30.3	34.2	34.2													
7	23.6	25.9	30.2	30.2	22.7	25.0	29.0	29.0	21.9	24.1	27.7	27.7	23.2	25.1	25.1		
8	20.5	22.5	26.6	26.6	19.7	21.7	25.6	25.6	19.0	20.9	24.1	24.1	20.2	23.1	23.1	22.1	22.1
9	18.0	19.8	23.2	23.2	17.3	19.1	22.3	22.3	16.7	18.4	21.5	21.5	17.8	20.6	20.6	19.5	19.5
10	15.9	17.6	20.9	20.9	15.3	17.0	19.9	19.9	14.8	16.4	19.1	19.1	15.8	18.4	18.4	17.6	17.6
11	14.3	15.7	18.7	18.7	13.8	15.2	18.1	18.1	13.4	14.7	17.3	17.3	14.3	16.5	16.5	15.8	15.8
12	12.9	14.3	16.9	16.9	12.4	13.8	16.4	16.4	12.0	13.3	15.8	15.8	12.9	15.2	15.2	14.4	14.4
13	11.6	12.9	15.5	15.5	11.2	12.5	14.9	14.9	10.8	12.1	14.5	14.5	11.6	13.8	13.8	13.3	13.3
14	10.6	11.8	14.5	14.5	10.2	11.4	13.8	13.8	9.8	11.0	13.1	13.1	10.6	12.7	12.7	12.2	12.2
15	9.6	10.8	13.2	13.2	9.3	10.4	12.7	12.7	8.9	10.0	12.1	12.1	9.6	11.6	11.6	11.1	11.1
16	8.8	9.9	12.2	12.2	8.5	9.5	11.8	11.8	8.1	9.2	11.3	11.3	8.8	10.8	10.8	10.3	10.3
17	8.1	9.1	11.3	11.3	7.7	8.7	10.9	10.9	7.4	8.4	10.5	10.5	8.1	10.1	10.1	9.5	9.5
18	7.4	8.4	10.5	10.5	7.1	8.0	10.1	10.1	6.8	7.7	9.7	9.7	7.4	9.4	9.4	8.9	8.9
19	6.8	7.7	9.9	9.9	6.5	7.4	9.4	9.4	6.2	7.1	9.0	9.0	6.8	8.7	8.7	8.3	8.3
20	6.2	7.0	9.1	9.4	6.0	6.8	8.9	8.9	5.7	6.5	8.4	8.4	6.2	8.1	8.1	7.7	7.7
21	5.7	6.5	8.5	8.9	5.5	6.3	8.3	8.4	5.2	6.0	7.9	7.9	5.7	7.5	7.5	7.1	7.1
22	5.2	5.9	7.9	8.5	5.1	5.8	7.7	8.0	4.8	5.6	7.5	7.5	5.2	7.1	7.1	6.7	6.7
23	4.8	5.5	7.3	8.1	4.6	5.3	7.2	7.6	4.4	5.1	6.9	7.1	4.8	6.7	6.7	6.2	6.2
24	4.4	5.0	6.8	7.8	4.2	4.9	6.7	7.3	4.0	4.7	6.4	6.8	4.5	6.3	6.3	5.9	5.9
25	4.0	4.7	6.3	7.4	3.9	4.5	6.2	7.0	3.7	4.4	6.0	6.5	4.1	5.8	6.0	5.5	5.5
26	3.7	4.3	5.9	7.1	3.5	4.2	5.8	6.7	3.4	4.0	5.6	6.2	3.8	5.4	5.7	5.1	5.3
27	3.4	4.0	5.5	6.6	3.2	3.8	5.4	6.4	3.1	3.7	5.2	5.9	3.5	5.1	5.5	4.8	5.0
28	3.1	3.7	5.1	6.2	3.0	3.5	5.0	6.1	2.8	3.4	4.8	5.7	3.2	4.7	5.2	4.5	4.8
29	2.8	3.4	4.8	5.8	2.7	3.2	4.7	5.7	2.5	3.1	4.5	5.5	2.9	4.4	5.0	4.2	4.5
30	2.6	3.1	4.5	5.5	2.4	3.0	4.4	5.3	2.3	2.8	4.2	5.2	2.6	4.0	4.8	3.9	4.3
31	2.4	2.9	4.2	5.1	2.2	2.7	4.1	5.0	2.1	2.6	3.9	4.8	2.4	3.7	4.6	3.6	4.1
32	2.1	2.6	3.9	4.8	2.0	2.5	3.8	4.7	2.0	2.3	3.6	4.5	2.2	3.5	4.4	3.3	3.9
33	2.0	2.4	3.7	4.6		2.3	3.5	4.4		2.1	3.4	4.2		3.2	4.1	3.0	3.8
34		2.2	3.4	4.3		2.1	3.3	4.1			3.1	4.0		3.0	3.8	2.8	3.6
35			3.2	4.1			3.0	3.9			2.9	3.7		2.7	3.6	2.6	3.4
36			3.0	3.8			2.8	3.7			2.7	3.5		2.5	3.3	2.4	3.2
37			2.7	3.6			2.6	3.5			2.5	3.2		2.3	3.1	2.2	2.9
38			2.5	3.3			2.4	3.2			2.3	3.1		2.1	2.9		2.7
39							2.2	3.0			2.1	2.9			2.7		2.5
40							2.1	2.8				2.7			2.5		2.3
41								2.6				2.5			2.3		2.1
42												2.3			2.2		
43												2.1			2.0		
44												2.0					

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* Rear counterweight in[t]
 + 15.3t carbody counterweight

Lifting operation

Lifting operation with fixed jib 15° (0806.20)



Jib configuration 0806HS

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

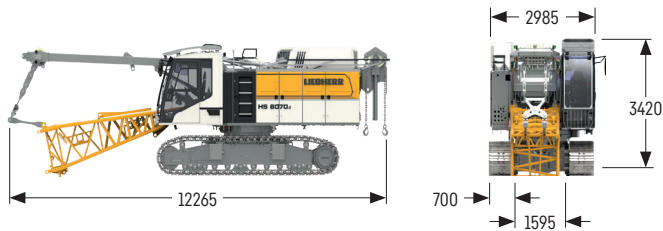
For main boom configuration 20 m - 38 m please refer to the table on page 16.

Lifting operation with fixed jib 15° (0806.20)

Data available on request

Transport dimensions and weights

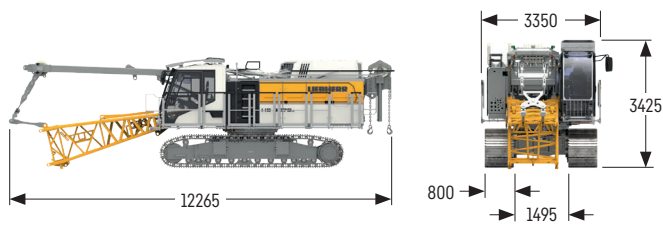
Basic machine and main boom (1311.24)



Basic machine, crawlers non-detachable

with HD undercarriage, boom foot (1311.24), A-frame, 2x 200kN winches, without rear counterweight

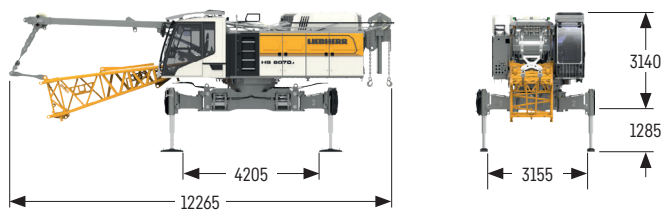
Width with 700 mm 3-web grousers	mm	3000
Weight with 700 mm 3-web grousers	kg	45900
Width with 800 mm 3-web grousers	mm	3400
Weight with 800 mm 3-web grousers	kg	46800
Width with 900 mm 3-web grousers	mm	3500
Weight with 900 mm 3-web grousers	kg	48600
Weight of hoist ropes	kg/m	4.62



Basic machine, crawlers detachable

with HD undercarriage, boom foot (1311.24), A-frame, 2x 200kN winches, without rear counterweight

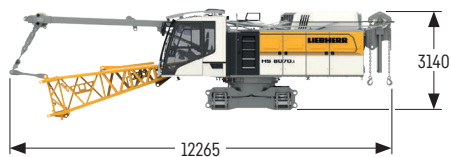
Width with 800 mm 3-web grousers	mm	3400
Weight with 800 mm 3-web grousers	kg	51600
Width with 900 mm 3-web grousers	mm	3500
Weight with 900 mm 3-web grousers	kg	53400
Weight of hoist ropes	kg/m	4.62



Basic machine, crawlers detachable

with HD undercarriage, without crawlers, incl. jack-up cylinder, boom foot (1311.24), A-frame, 2x 200kN winches, without rear counterweight

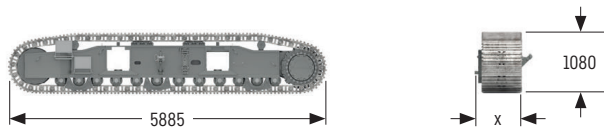
Width	mm	3000
Weight	kg	36800
Weight of hoist ropes	kg/m	4.62



Basic machine, crawlers detachable

with HD undercarriage, without crawlers, with boom foot (1311.24), A-frame, 2x 200kN winches, without rear counterweight

Width	mm	3000
Weight	kg	34300
Weight of hoist ropes	kg/m	4.62



Crawler (2x)

Width with 800 mm 3-web grousers (dimension x)	mm	895
Width with 900 mm 3-web grousers (dimension x)	mm	945
Weight with 800 mm 3-web grousers	kg	6060
Weight with 900 mm 3-web grousers	kg	7830



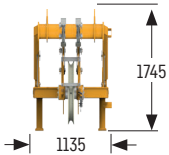
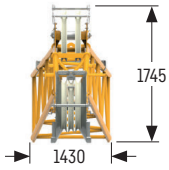
Boom section 3 m (1311.24)

Width	mm	1430
Weight with 900 mm flat track pads	kg	8300
Weight incl. pendant ropes	kg	525



Boom section 6 m (1311.24)

Width	mm	1430
Weight incl. pendant ropes	kg	880



Boom head* (1311.24)

Width	mm	1430
Weight incl. pendant ropes	kg	2120

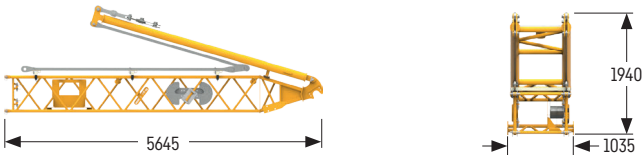
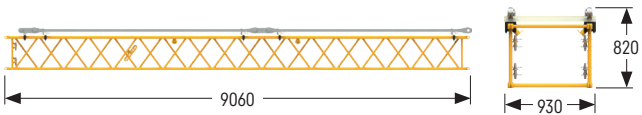
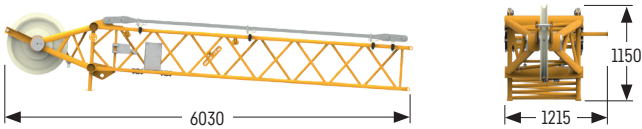
*) Steel sheaves (2+3)

Auxiliary jib

Width	mm	1135
Weight	kg	1085

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.

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

Counterweight



Counterweight slab (standard 2x, option 6x)

Width	mm	850
Weight	kg	1500

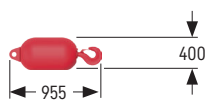
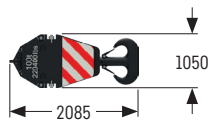
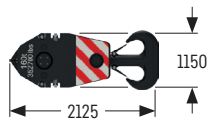
Counterweight slab (1x)

Width	mm	1050
Weight	kg	17330

Carbody counterweight (option 2x)

Width	mm	1640
Weight	kg	7500

Hooks



100 t hook block - 2 sheaves

Width	mm	385
Weight	kg	1200

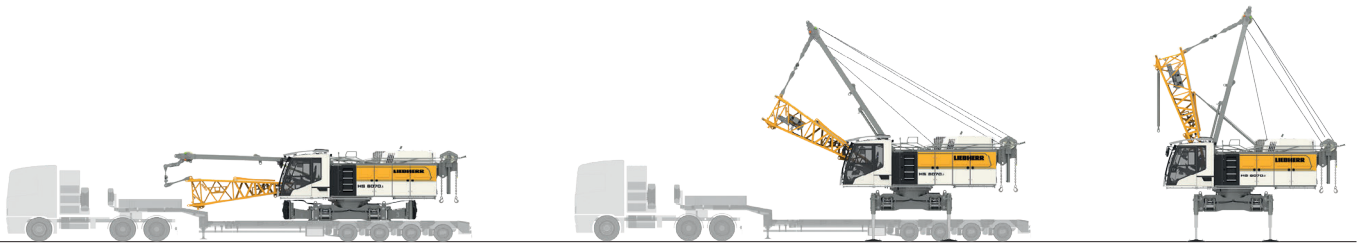
60 t hook block - 1 sheave

Width	mm	260
Weight	kg	970

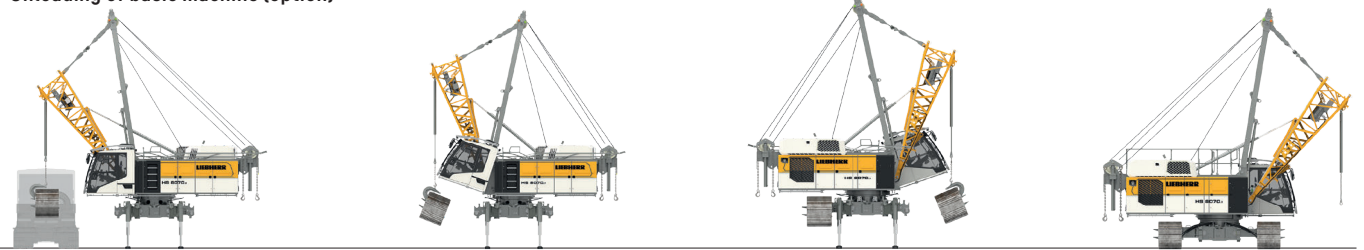
30 t hook block - 1 sheave

Width	mm	400
Weight	kg	400

Self-assembly system



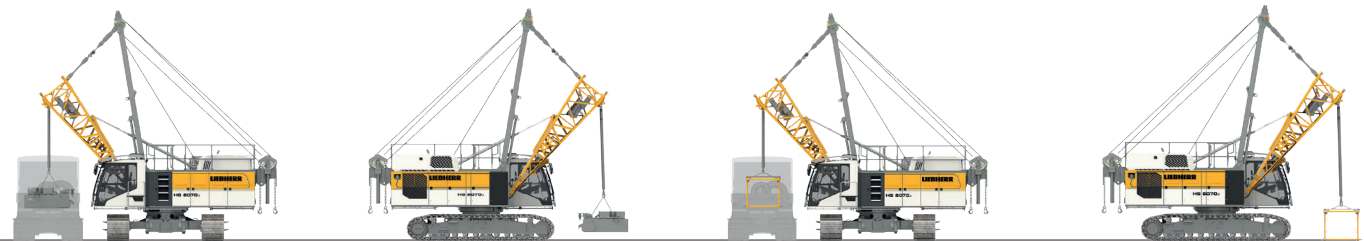
Unloading of basic machine (option)



Unloading and assembly of crawlers

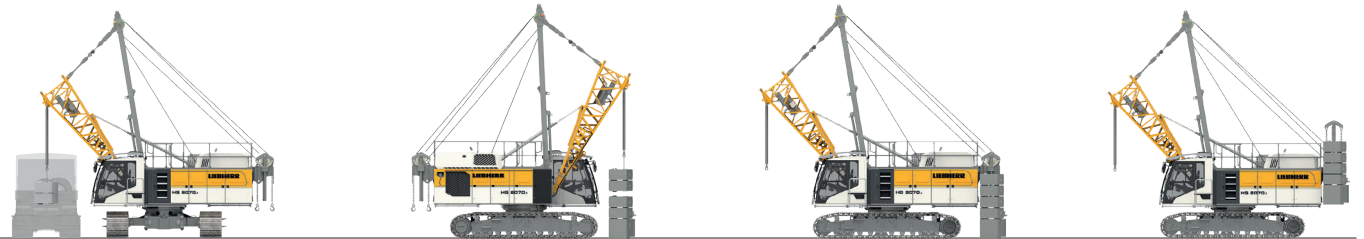


Unloading of basic machine (standard)

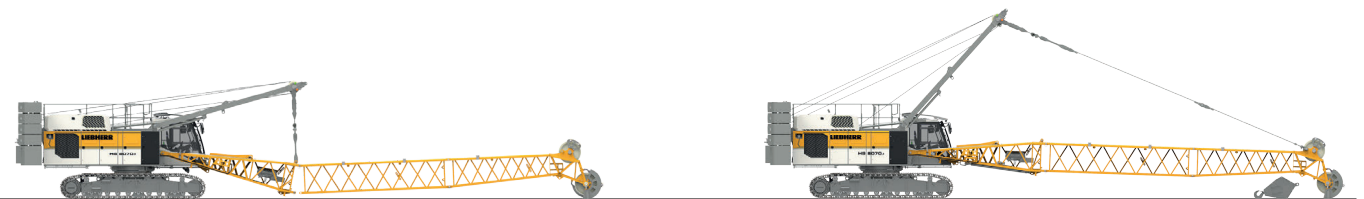


Unloading and assembly of carbody counterweight

Unloading and assembly of boom

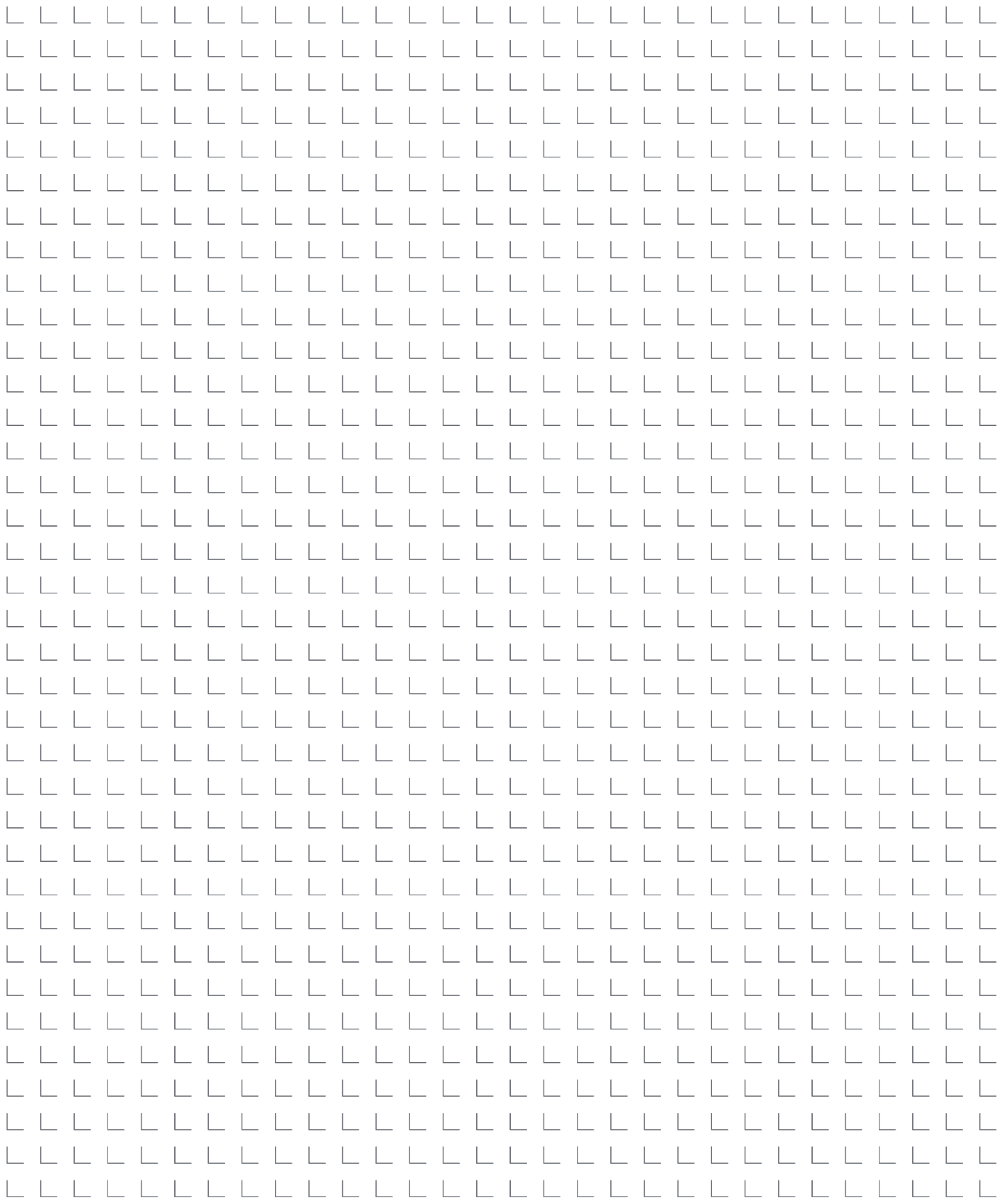


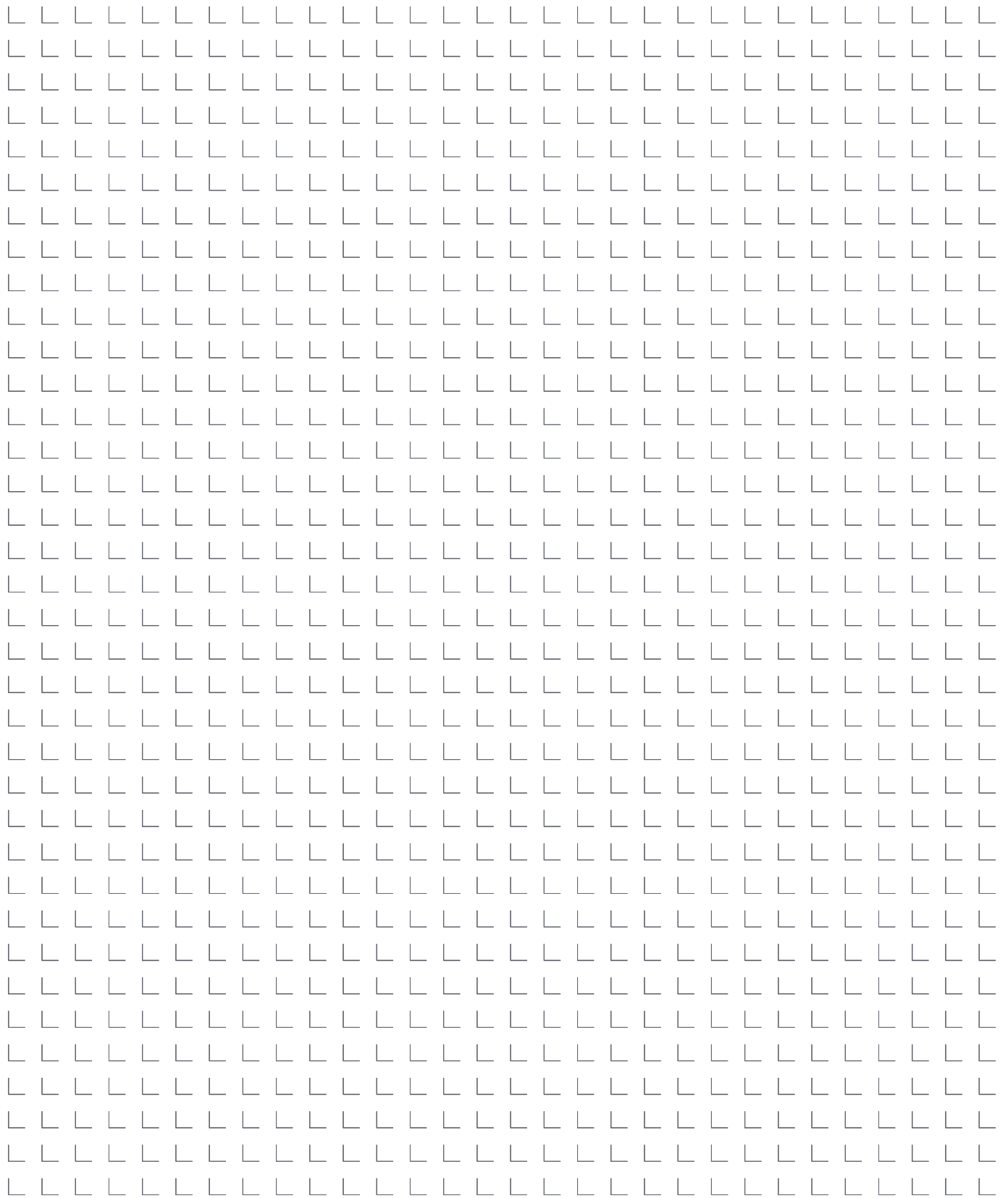
Unloading and assembly of rear counterweight



Assembly of boom and reeving of hoist ropes

Notes





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