

Construction Machine

HS 8130.1

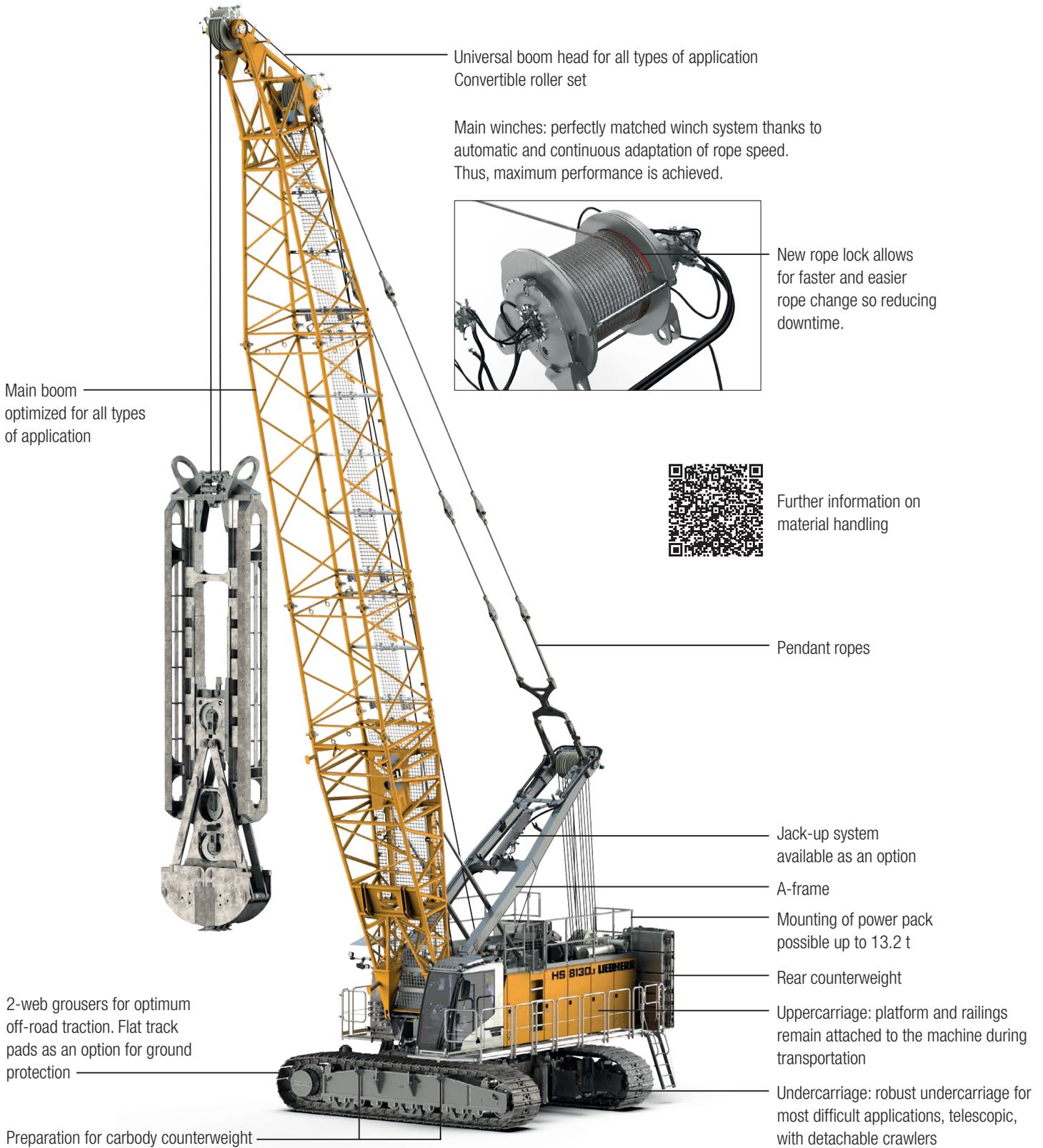
EN

HS 8005.01.03



LIEBHERR

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: vibration isolation for cabin

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 (hook block, hoist ropes, shackles etc.) must be deducted from the load capacity.
- Additional equipment on boom (e.g. walkways) must be deducted from the load capacity.
- For max. wind speed please refer to load chart in operator's cab or manual.



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



- Working radii are measured from centre of swing and under load.
- The load 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/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	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
Hydraulic retrofit kits for attachments	ready-made customized hydraulic retrofit kits are available e.g. powering casing oscillators, VM vibrators, hydraulic grabs, fixed leaders



Winches

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	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 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

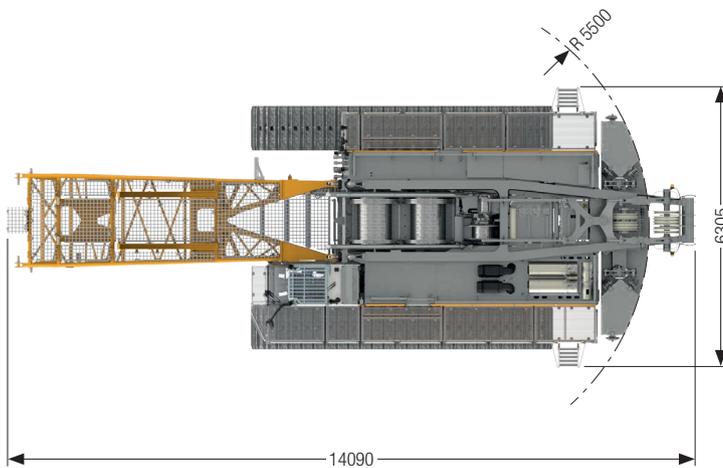
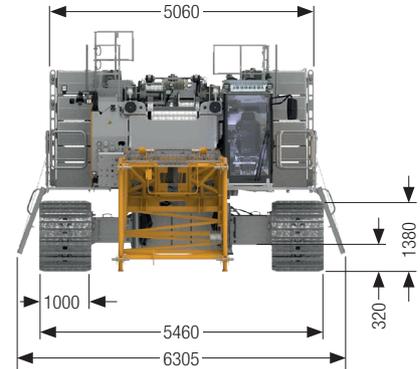
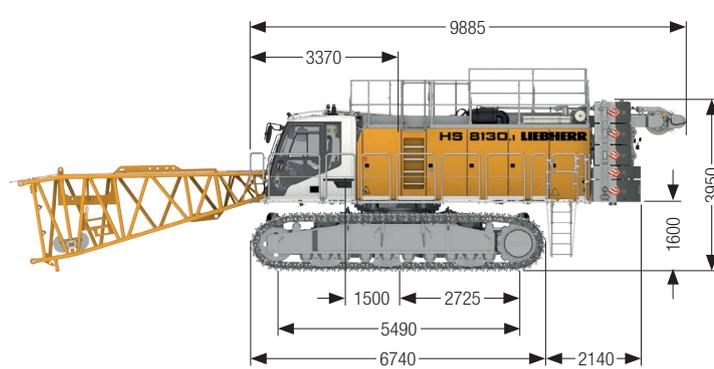
Control system	includes all control and monitoring functions, designed to withstand extreme environmental conditions and heavy construction tasks
Display	high resolution monitor in the operator's cabin, clear display of complete machine operating data, warnings and failure indications in the required 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. 116t

Dimensions

Basic machine with undercarriage



Ground pressure

Ground pressure	1.06 kg/cm ²
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Equipment

Main boom (2018.33)	max. 53 m
Characteristics	<ul style="list-style-type: none"> modular designed equipment for lifting, dragline or grab 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)



Load chart for grab operation

Capacities in [t] with 34.3t counterweight

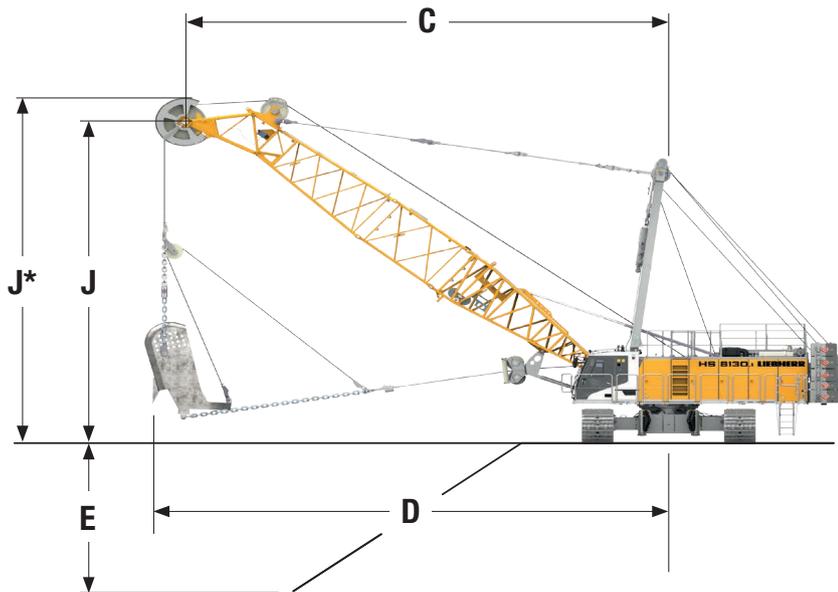
	Boom length [m]							
	17	20	23	26	29	32	35	38
6		53.0	53.0	47.1	46.3			
7	53.0	53.0	53.0	44.2	43.4	36.5	35.5	30.4
8	51.3	51.1	50.8	41.8	40.8	34.3	33.3	28.5
9	43.0	43.1	43.0	39.6	38.4	32.4	31.1	26.7
10	36.9	37.0	36.9	36.9	36.3	30.4	29.3	25.2
11	32.2	32.3	32.2	32.2	32.1	28.9	27.6	23.6
12	28.5	28.5	28.5	28.4	28.4	27.3	25.9	22.4
13	25.5	25.5	25.5	25.4	25.3	25.2	24.2	21.0
14	23.0	23.0	22.9	22.9	22.8	22.7	22.6	19.8
16	19.0	19.1	19.0	18.9	18.8	18.7	18.1	17.0
18	15.5	16.1	16.1	16.0	15.9	15.6	15.1	14.5
20		13.8	13.8	13.7	13.6	13.4	13.0	12.5
22			11.9	11.9	11.8	11.7	11.4	11.1
24			9.3	10.4	10.3	10.2	10.1	9.7
26				9.0	8.9	8.7	8.5	8.3
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 474-12. Max. capacities do not exceed 66% of tipping load.
Above capacities are for reference only and are not programmed in the LML 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

$J^* = J + 0.64 \text{ m}$

Load charts for dragline operation

Capacities in [t] with 34.3t counterweight

		Boom length [m]											
		14			17			20			23		
alpha [°]		C	J	[t]	C	J	[t]	C	J	[t]	C	J	[t]
		[m]	[m]		[m]	[m]		[m]	[m]		[m]	[m]	
55		10.7	12.9	37.8	12,5	15,4	30,7	14.2	17.8	25.6	15.9	20.3	21.0
50		11.7	12.1	33.6	13,6	14,4	27,2	15.5	16.7	22.6	17.5	19.0	18.3
45		12.5	11.2	30.5	14,6	13,3	24,5	16.7	15.5	20.0	18.9	17.6	15.9
40		13.3	10.3	28.0	15,6	12,2	22,4	17.9	14.1	18.1	20.2	16.0	14.4
35		13.9	9.2	26.1	16,4	11	20,8	18.9	12.7	16.4	21.3	14.4	13.3
30		14.5	8.2	24.6	17,1	9,7	19,5	19.7	11.2	15.1	22.3	12.7	12.6
25		15.0	7.0	21.8	17,7	8,3	17	20.4	9.6	13.3	23.2	10.8	11.0

preliminary

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.

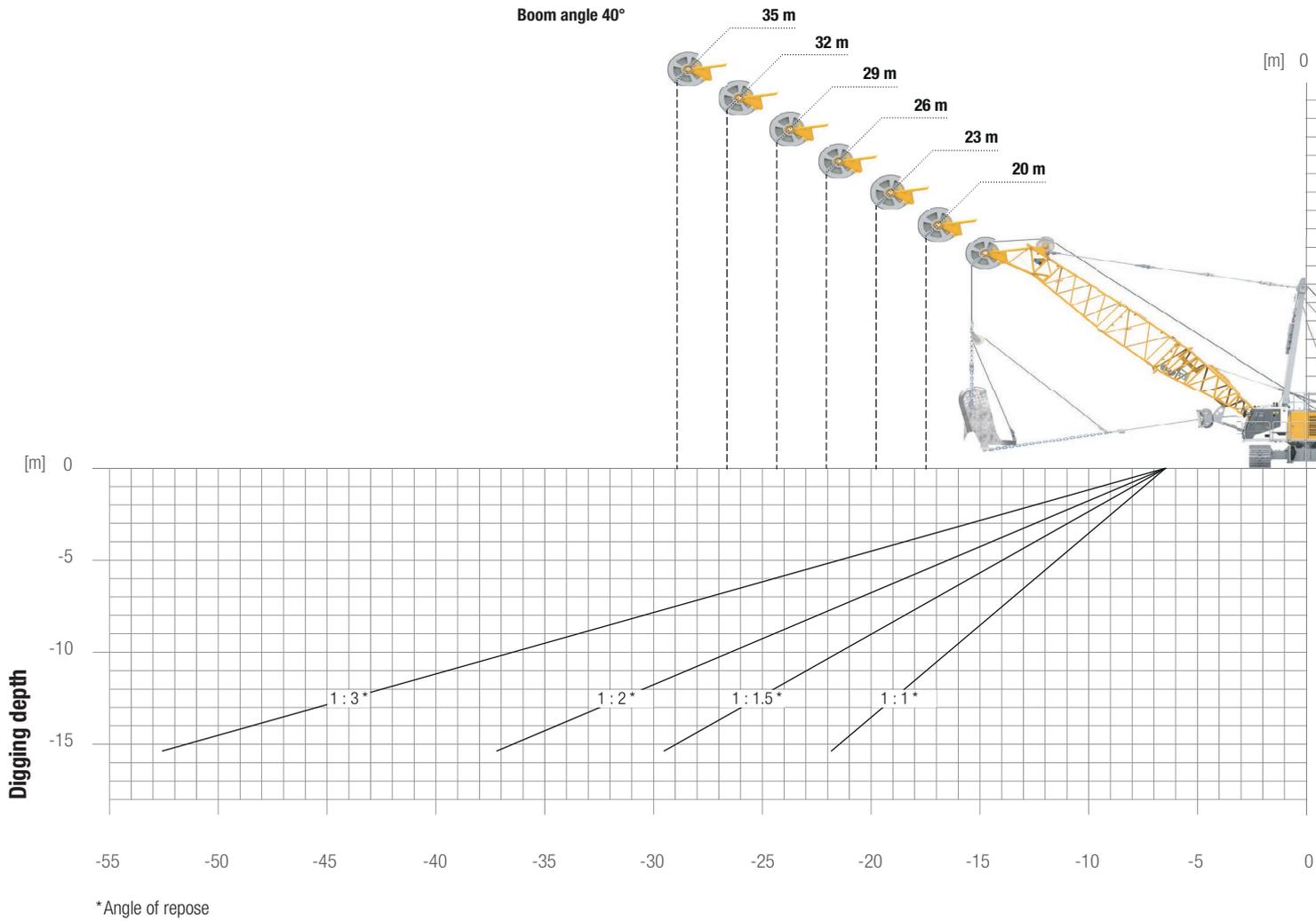
Capacities in [t] with 34.3t counterweight

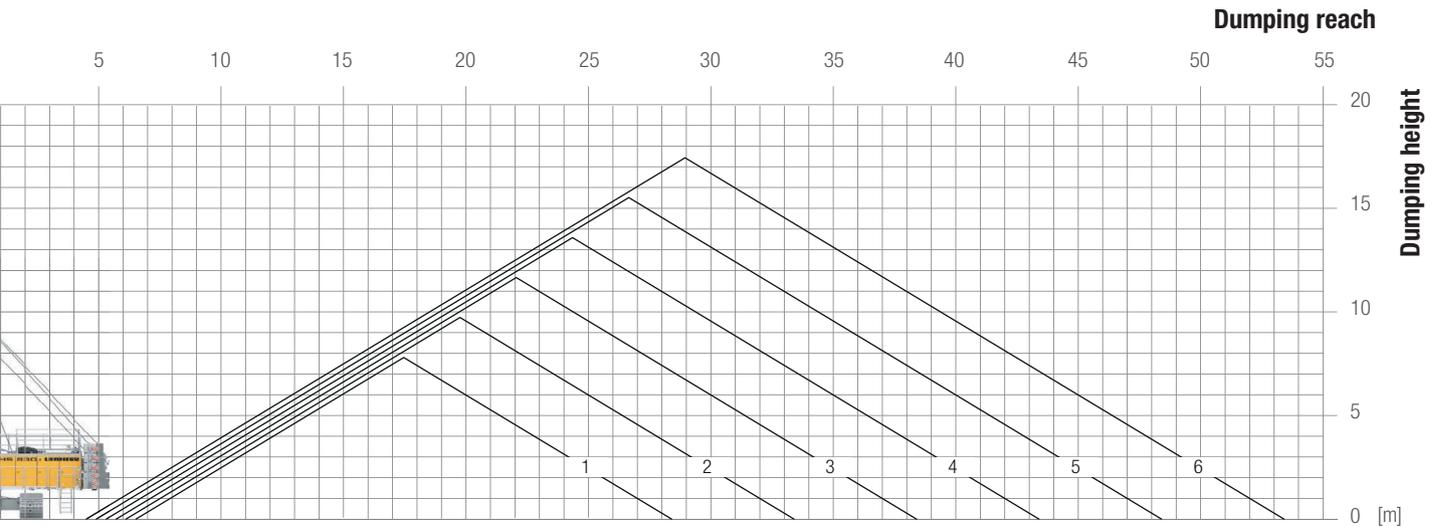
		Boom length [m]											
		26			29			32			35		
		C	J	[t]	C	J	[t]	C	J	[t]	C	J	[t]
alpha [°]		[m]	[m]	[t]	[m]	[m]	[t]	[m]	[m]	[t]	[m]	[m]	[t]
	55	17.6	22.7	17.2	19.4	25.2	14.5	21.1	27.7	12.5	22.8	30.1	10.8
	50	19.4	21.3	14.8	21.3	23.6	12.7	23.2	25.9	11.0	25.2	28.2	9.2
	45	21.0	19.7	13.3	23.1	21.8	11.3	25.2	23.9	9.4	27.4	26.1	7.4
	40	22.5	18.0	12.2	24.8	19.9	10.0	27.1	21.8	7.8	29.4	23.8	5.9
	35	23.8	16.1	11.1	26.2	17.8	8.7	28.7	19.6	6.6	31.1	21.3	4.8
	30	24.9	14.2	10.0	27.5	15.7	7.6	30.1	17.2	5.6	32.7	18.7	3.9
	25	25.9	12.1	9.1	28.6	13.4	6.8	31.3	14.6	4.9	34.0	15.9	3.2

preliminary

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

Digging range	1	2	3	4	5	6
Main boom (m)	20	23	26	29	32	35
Dragline bucket (m ³ /yd ³)	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

Digging range	1	2	3	4	5	6
Main boom (m)	20	23	26	29	32	35
Dragline bucket (m ³ /yd ³)	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 34.3t 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

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

preliminary



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 lifting operation	t	60 at radius of 5.4 m
Capacity in duty cycle operation	t	50.8 at radius of 6 m

Stability calculated according to DIN EN16228-5.
Machine is standing on firm, horizontal ground.



Slurry wall cutter

Working depth	m	110
Wall thickness	mm	800-1800

Stability calculated according to DIN EN16228-5.
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 29t counterweight

Radius [m]	Boom length [m]					
	20	23	26	29	32	35
8	34.1	33.9	30.3	29.4	25.1	
9	29.8	29.7	28.7	27.5	23.9	22.8
10		25.5	25.5	25.4	22.4	21.5
11			22.2	22.1	20.9	20.3

Max. capacities in metric tonnes do not exceed 75% of tipping load. All loads given are max. values and must not be exceeded.

They are only permitted in two-rope automatic operation and are valid for work on a surface with max. inclination of 1%.

Option: dynamic soil compaction automatic incl. cabin protection and armoured glass

Casing oscillator

Max. drilling diameter	mm	3300
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Special applications

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

Capacities in [t] with 34.3t counterweight

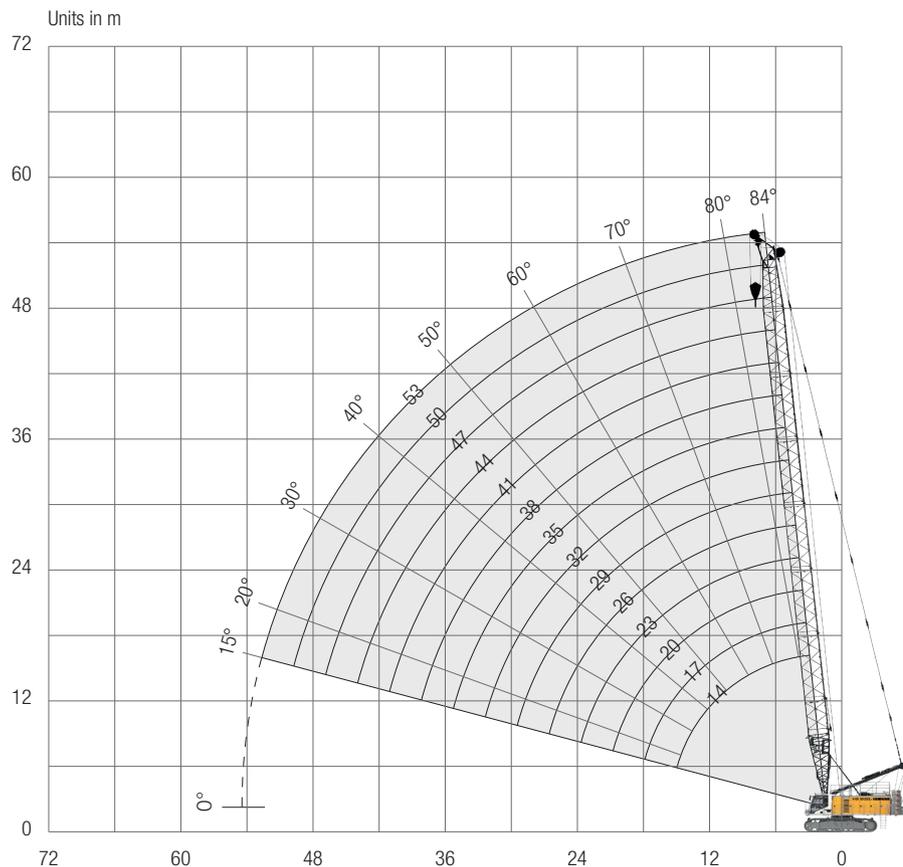
	Boom length [m]							
	17	20	23	26	29	32	35	38
6		53.0	53.0	47.1	46.3			
7	53.0	53.0	53.0	44.2	43.4	36.5	35.5	30.4
8	53.0	51.1	50.8	41.8	40.8	34.3	33.3	28.5
9	47.1	47.0	45.7	39.6	38.4	32.4	31.1	26.7
10	41.9	41.0	40.5	37.2	36.3	30.4	29.3	25.2
11	36.6	36.6	35.5	35.3	32.9	28.9	27.6	23.6
12	32.4	32.4	32.1	31.0	30.5	27.3	25.9	22.4
13	29.0	29.0	28.4	27.9	26.9	25.9	24.2	21.0
14	26.1	26.1	25.6	25.0	24.2	23.1	22.8	19.8
15	23.7	23.7	23.1	22.5	21.8	21.0	20.2	18.8
16	21.6	21.5	20.9	20.5	19.5	19.1	18.1	17.0
17	19.8	19.5	19.2	18.4	17.7	17.2	16.5	15.6
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	10.9	10.7	10.5	10.1	9.7
25				9.9	9.8	9.6	9.4	9.1
26				9.0	8.9	8.7	8.5	8.3
27				7.5	8.0	7.9	7.7	7.5
28					7.2	7.1	6.9	6.7
29					6.5	6.4	6.2	6.0
30					5.8	5.7	5.5	5.3
31						5.1	4.9	4.7
32						4.5	4.3	4.1
33						3.9	3.7	3.6
34							3.2	3.0
35							2.7	2.5
36								2.1
37								1.6
38								1.2

preliminary

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 operation

Main boom 84° to 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	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	1
Boom length [m]	14	17	20	23	26	29	32	35	38	41	44	47	50	53	
Auxiliary jib	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

preferred boom combination

Capacities in [t]

Radius [m]	Boom length [m]														
	14			17			20			23			26		
	29	34.4	45 [+7]	29	34.4	45 [+7]	29	34.4	45 [+7]	29	34.4	45 [+7]	29	34.4	45 [+7]
4	130.0														
5	105.1			99.3			94.1			89.3	98.4				
6	82.3	47.3		78.6	86.6		75.2	82.8		71.9	79.3		68.9	76.0	
7	67.4	74.3		64.8	71.4		62.3	68.7		60.0	66.2		57.7	63.7	
8	56.1	61.4		54.9	60.6		53.0	58.5		51.2	56.6		49.5	54.7	
9	46.9	51.5		47.1	51.6		46.0	50.8		44.6	49.2	59.6	43.2	47.7	57.8
10	40.2	44.1		40.3	44.2	53.9	40.3	44.3	53.9	39.3	43.5	52.8	38.2	42.2	51.3
11	35.0	38.5	47.0	35.1	38.6	47.1	35.1	38.6	47.2	35.0	38.5	47.1	34.1	37.7	46.0
12	30.8	34.0	41.6	30.9	34.1	41.7	30.9	34.1	41.8	30.9	34.0	41.7	30.7	33.9	41.6
13	27.4	30.3	37.2	27.5	30.4	37.3	27.6	30.4	37.4	27.5	30.3	37.3	27.4	30.2	37.2
14	24.6	27.2	33.5	24.7	27.3	33.7	24.8	27.4	33.7	24.7	27.3	33.7	24.6	27.2	33.6
16				20.5	22.7	28.0	20.6	22.8	28.0	20.5	22.7	28.0	20.4	22.6	27.9
18				17.1	19.0	23.8	17.2	19.2	23.9	17.2	19.1	23.9	17.1	19.0	23.8
20							14.6	16.4	20.6	14.6	16.3	20.5	14.5	16.3	20.5
22								16.4		12.5	14.1	17.9	12.5	14.0	17.8
24										10.8	12.2	15.6	10.8	12.2	15.6
26													9.4	10.7	13.8

preliminary

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	34.4	45 [+7]	29	34.4	45 [+7]	29	34.4	45 [+7]	29	34.4	45 [+7]	29	34.4	45 [+7]
6	66.1	72.9		63.4	70.0			47.3							
6.8															56.2
7	55.6	61.4		53.6	59.2		51.7	57.2	65.2	49.9	55.2	63.3	48.2	53.3	56.2
8	47.8	52.9	64.0	46.3	51.1	61.9	44.8	49.5	60.0	43.3	47.9	58.1	41.9	46.4	53.7
9	41.8	46.3	56.1	40.5	44.8	54.5	39.3	43.5	52.9	38.1	42.1	51.3	36.9	40.9	49.9
10	37.0	41.0	49.9	35.9	39.8	48.5	34.8	38.6	47.2	33.8	37.5	45.9	32.8	36.4	44.6
11	33.1	36.7	44.8	32.1	35.6	43.6	31.2	34.6	42.4	30.3	33.6	41.3	29.4	32.7	40.2
12	29.8	33.1	40.5	29.0	32.2	39.5	28.1	31.3	38.5	27.3	30.4	37.5	26.5	29.6	36.5
13	27.0	30.1	36.9	26.3	29.3	36.0	25.5	28.5	35.1	24.8	27.7	34.2	24.1	26.9	33.3
14	24.5	27.1	33.4	24.0	26.8	33.0	23.4	26.0	32.2	22.8	25.3	31.4	22.1	24.6	30.6
16	20.2	22.5	27.7	20.1	22.3	27.6	19.8	22.1	27.4	19.2	21.6	26.8	18.6	21.0	26.1
18	17.0	18.9	23.6	16.8	18.7	23.5	16.6	18.6	23.3	16.4	18.4	23.1	15.9	18.0	22.7
20	14.4	16.1	20.3	14.3	16.0	20.2	14.1	15.8	20.0	13.9	15.6	19.8	13.7	15.4	19.6
22	12.4	13.9	17.7	12.2	13.8	17.5	12.0	13.6	17.3	11.9	13.4	17.2	11.7	13.2	17.0
24	10.7	12.1	15.5	10.6	11.9	15.4	10.4	11.8	15.2	10.2	11.6	15.0	10.0	11.4	14.8
26	9.3	10.5	13.7	9.2	10.4	13.6	9.0	10.2	13.4	8.8	10.1	13.2	8.6	9.9	13.0
28	8.1	9.2	12.1	8.0	9.1	12.0	7.8	9.0	11.9	7.6	8.8	11.7	7.4	8.6	11.5
30	7.0	8.1	10.7	6.9	8.0	10.7	6.8	7.9	10.5	6.6	7.7	10.4	6.4	7.5	10.2
32				6.0	7.0	9.5	5.9	6.9	9.4	5.7	6.7	9.2	5.5	6.5	9.0
34							5.1	6.0	8.4	4.9	5.9	8.2	4.8	5.7	8.0
36										4.2	5.1	7.4	4.1	5.0	7.2
38										3.6	4.5	6.5	3.4	4.3	6.4
40													2.9	3.7	5.6

preliminary

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



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Crane Planner 2.0

Capacities in [t]

Radius [m]	Boom length [m]										
	44			47			50			53	
	29	34.4	45 [+7]	29	34.4	45 [+7]	29	34.4	45 [+7]	34.4	45 [+7]
7		43.8									
8	40.6	44.9	48.6	39.2	43.5	44.3	37.9	39.9	39.9	35.5	35.5
9	35.7	39.6	46.5	34.6	38.4	42.0	33.5	37.3	38.2	34.8	34.8
10	31.8	35.3	43.3	30.8	34.3	40.1	29.9	33.3	36.5	32.3	33.2
11	28.5	31.7	39.1	27.7	30.8	38.0	26.8	29.9	34.7	29.1	31.8
12	25.7	28.7	35.5	25.0	27.9	34.6	24.2	27.1	33.2	26.3	30.2
13	23.5	26.1	32.5	22.8	25.4	31.6	22.1	24.7	30.8	23.9	29.0
14	21.5	23.9	29.8	20.8	23.4	29.0	20.2	22.7	28.3	21.9	27.5
16	18.1	20.4	25.5	17.5	19.8	24.8	17.0	19.2	24.1	18.6	23.5
18	15.4	17.4	22.1	14.9	16.9	21.5	14.3	16.3	20.8	15.6	20.3
20	13.2	15.0	19.3	12.6	14.4	18.8	12.1	13.9	18.3	13.3	17.5
22	11.3	13.0	16.8	10.8	12.5	16.5	10.3	12.0	15.9	11.4	15.3
24	9.8	11.2	14.6	9.4	10.9	14.4	8.9	10.4	14.0	9.9	13.5
26	8.4	9.7	12.8	8.1	9.5	12.6	7.7	9.0	12.4	8.6	11.9
28	7.2	8.4	11.3	7.0	8.2	11.1	6.6	7.9	10.9	7.4	10.5
30	6.2	7.3	10.0	6.0	7.1	9.8	5.7	6.9	9.6	6.5	9.3
32	5.3	6.4	8.9	5.1	6.1	8.6	4.9	5.9	8.4	5.6	8.2
34	4.6	5.5	7.9	4.4	5.3	7.6	4.1	5.1	7.4	4.9	7.2
36	3.9	4.8	7.0	3.7	4.6	6.8	3.5	4.4	6.6	4.1	6.3
38	3.3	4.1	6.2	3.1	3.9	6.0	2.9	3.7	5.8	3.5	5.6
40	2.7	3.5	5.5	2.5	3.3	5.3	2.3	3.1	5.1	2.9	4.9
42	2.2	3.0	4.8	2.0	2.8	4.6	1.8	2.6	4.5	2.3	4.2
44	1.7	2.5	4.2	1.6	2.3	4.1	1.4	2.1	3.9	1.9	3.7
46				1.1	1.8	3.5		1.6	3.3	1.4	3.1
48								1.2	2.9	1.0	2.6
50									2.4		2.2

preliminary

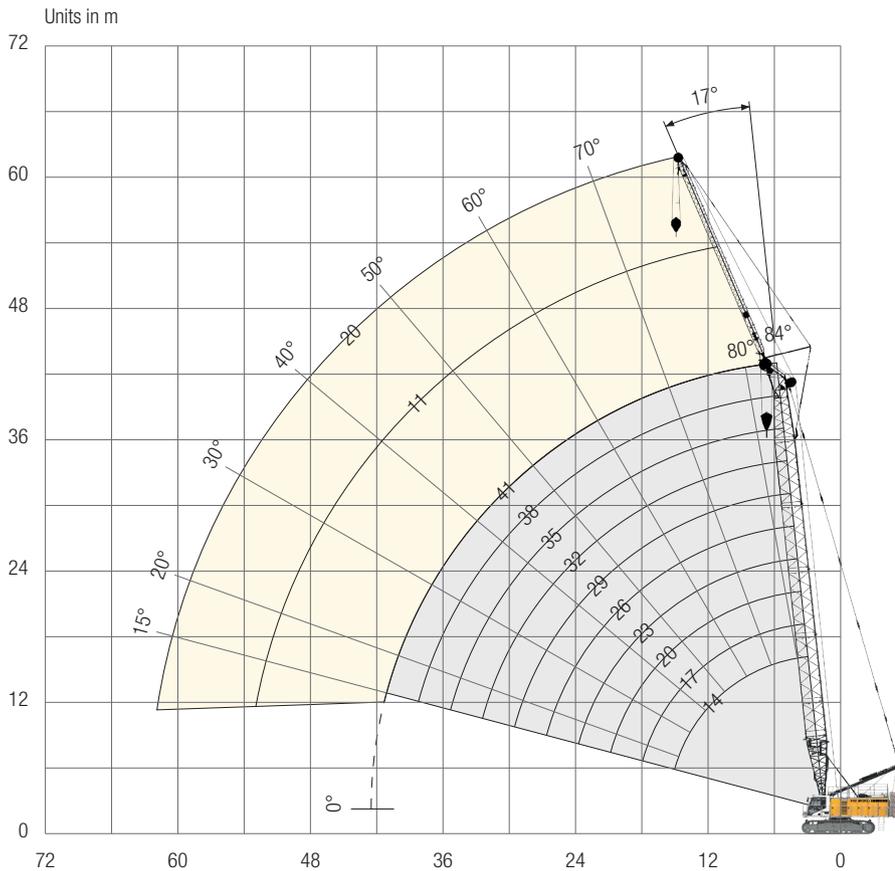
Counterweight in [t]
 [+7] Carbody counterweight in [t]



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 **Crane Planner 2.0**

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 charts with fixed jib 15° (No. 0806.20)

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

	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 44.9t rear counterweight and 7 t carbody counterweight

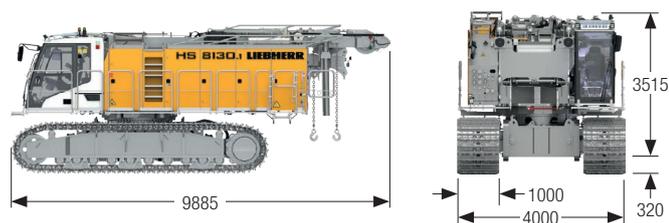
	Boom length [m]				
	20	23	29	35	41
13	7.1	7.1			
14	6.8	6.8	6.8		
15	6.6	6.6	6.6	6.7	6.6
16	6.4	6.4	6.5	6.5	6.5
17	6.3	6.3	6.4	6.4	6.4
18	6.1	6.2	6.2	6.3	6.3
19	6.0	6.0	6.1	6.2	6.2
20	5.8	5.9	6.1	6.1	6.1
21	5.7	5.8	5.9	6.0	6.0
22	5.6	5.6	5.8	5.9	6.0
23	5.5	5.6	5.7	5.8	5.9
24	5.4	5.4	5.6	5.7	5.8
25	5.2	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

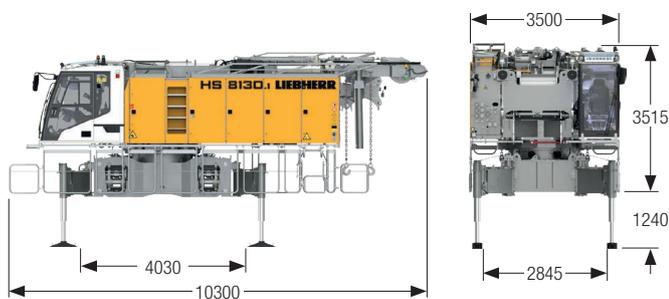
Basic machine and main boom (No. 2018.33)



Basic machine

with HD undercarriage, A-frame, 2 x 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	6.455



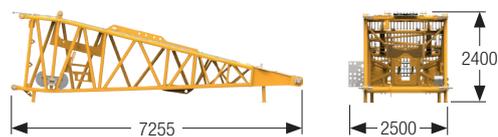
Basic machine

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	6.455

Crawler side frame (2x)

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



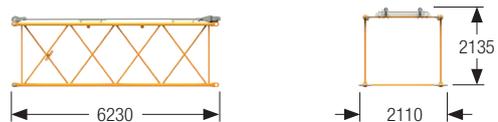
Boom foot 7 m (No. 2018.33)

Width	mm	2500
Weight incl. pendant ropes	kg	3215



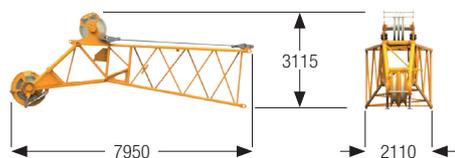
Boom section 3 m (No. 2018.33)

Width	mm	2110
Weight incl. pendant ropes	kg	750



Boom section 6 m (No. 2018.33)

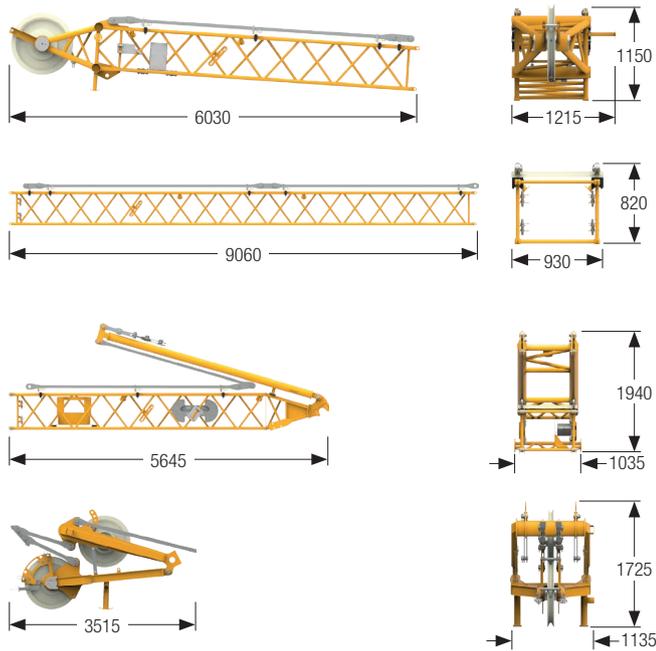
Width	mm	2110
Weight incl. pendant ropes	kg	1230



Boom head 7 m (No. 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

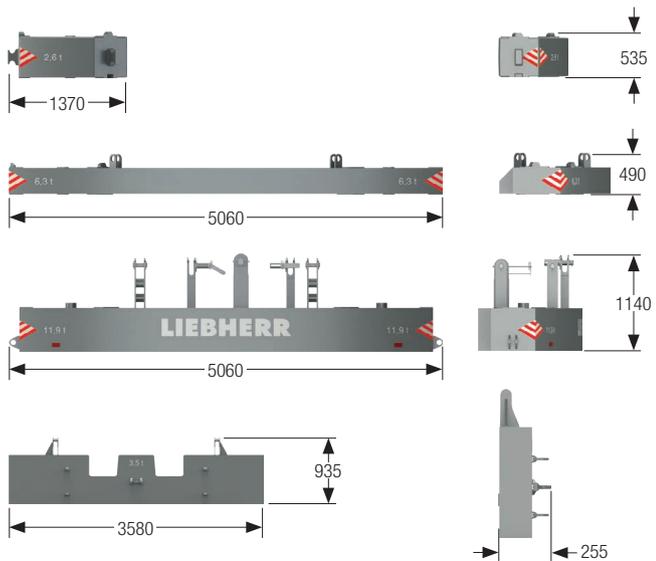
Jib foot with A-frame

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

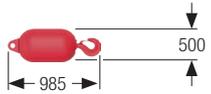
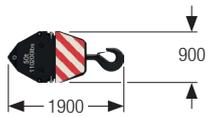
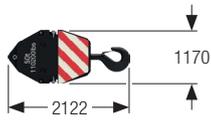
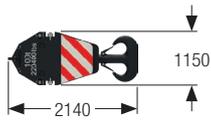
Counterweight slab (1x)

Width	mm	1220
Weight	kg	12000

Carbody counterweight (2x)

Width	mm	255
Weight	kg	3500

Hooks



160t hook block – 3 sheaves

Width	mm	420
Weight	kg	2011

100t hook block – 2 sheaves

Width	mm	270
Weight	kg	1200

80t hook block – 2 sheaves

Width	mm	245
Weight	kg	1200

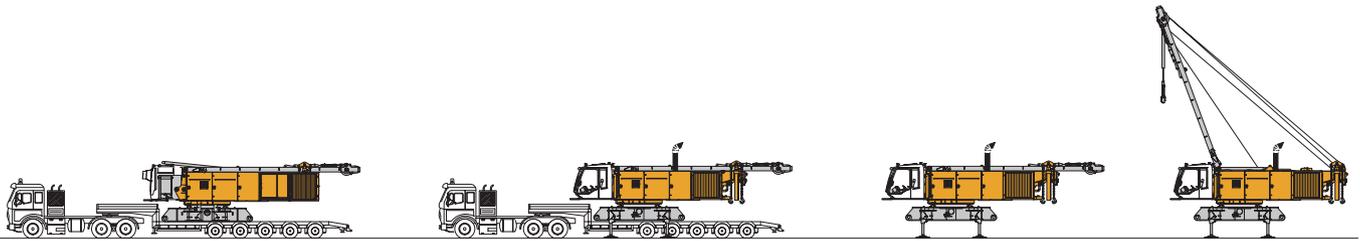
50t hook block – 1 sheave

Width	mm	230
Weight	kg	750

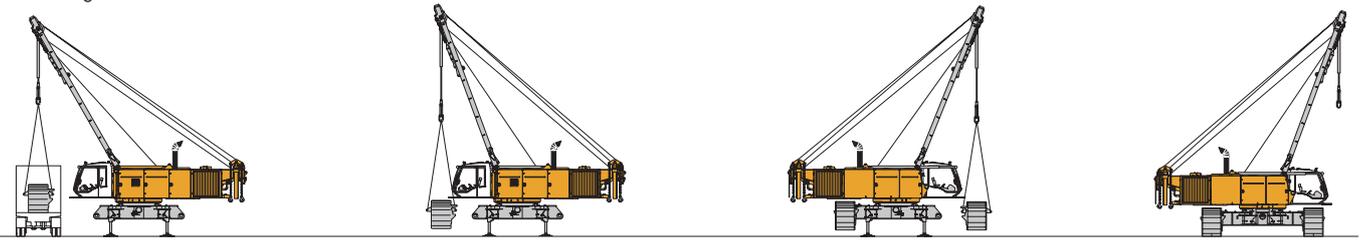
35t single hook

Width	mm	500
Weight	kg	800

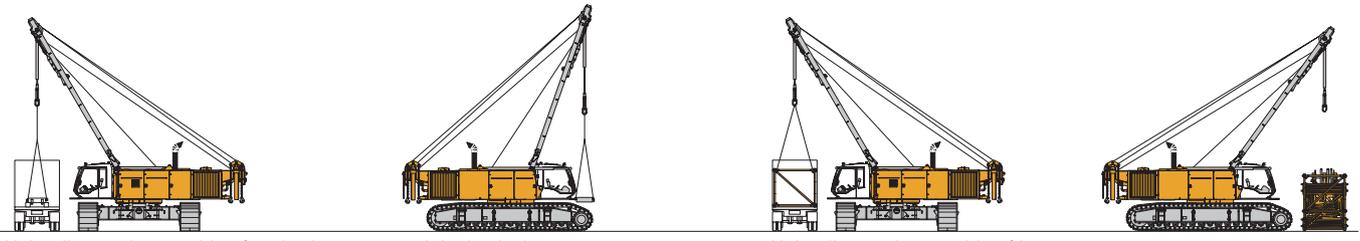
Self-assembly system



Unloading of basic machine

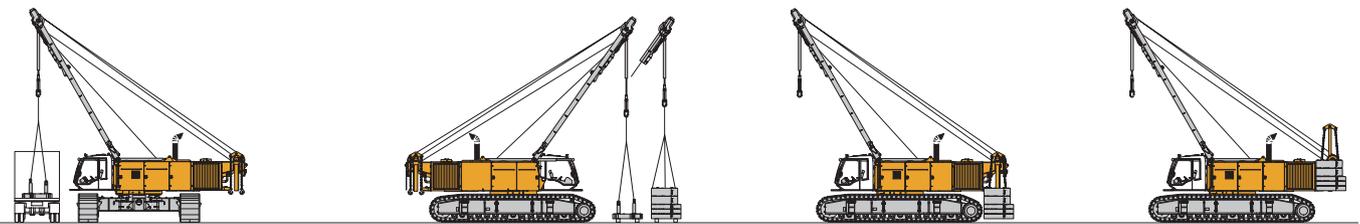


Unloading and assembly of crawlers

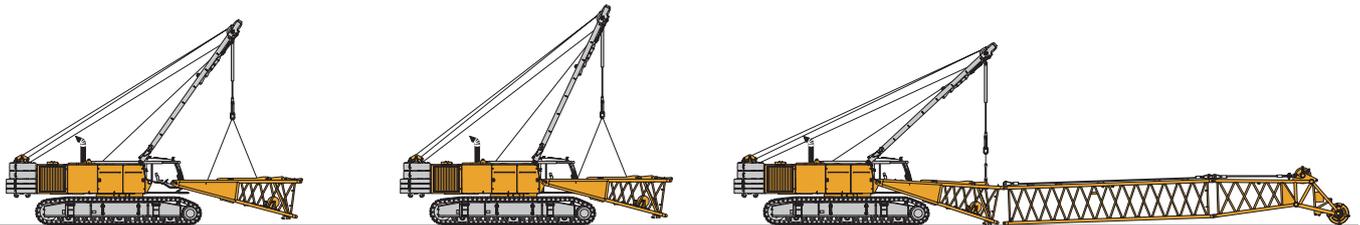


Unloading and assembly of carbody counterweight (option)

Unloading and assembly of boom

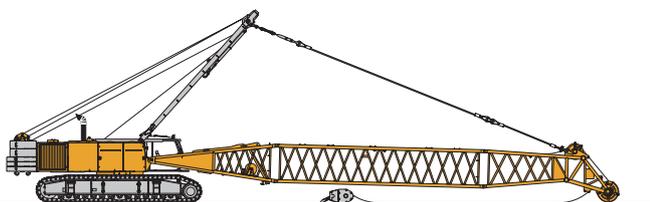


Unloading and assembly of counterweight



Assembly of boom foot

Assembly of boom



Reeving of hoist ropes

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Hans Liebherr founded the Liebherr family company in 1949. Since then, the family business has steadily grown to a group of more than 130 companies with nearly 44,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

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