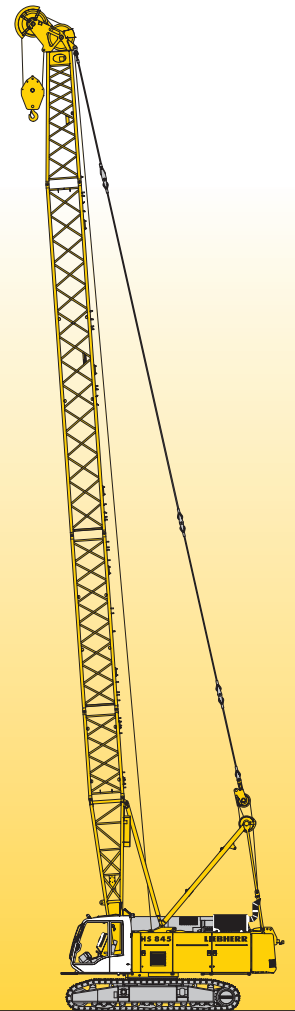


Technical data
Hydraulic crawler crane

HS 845 HD
Litronic®

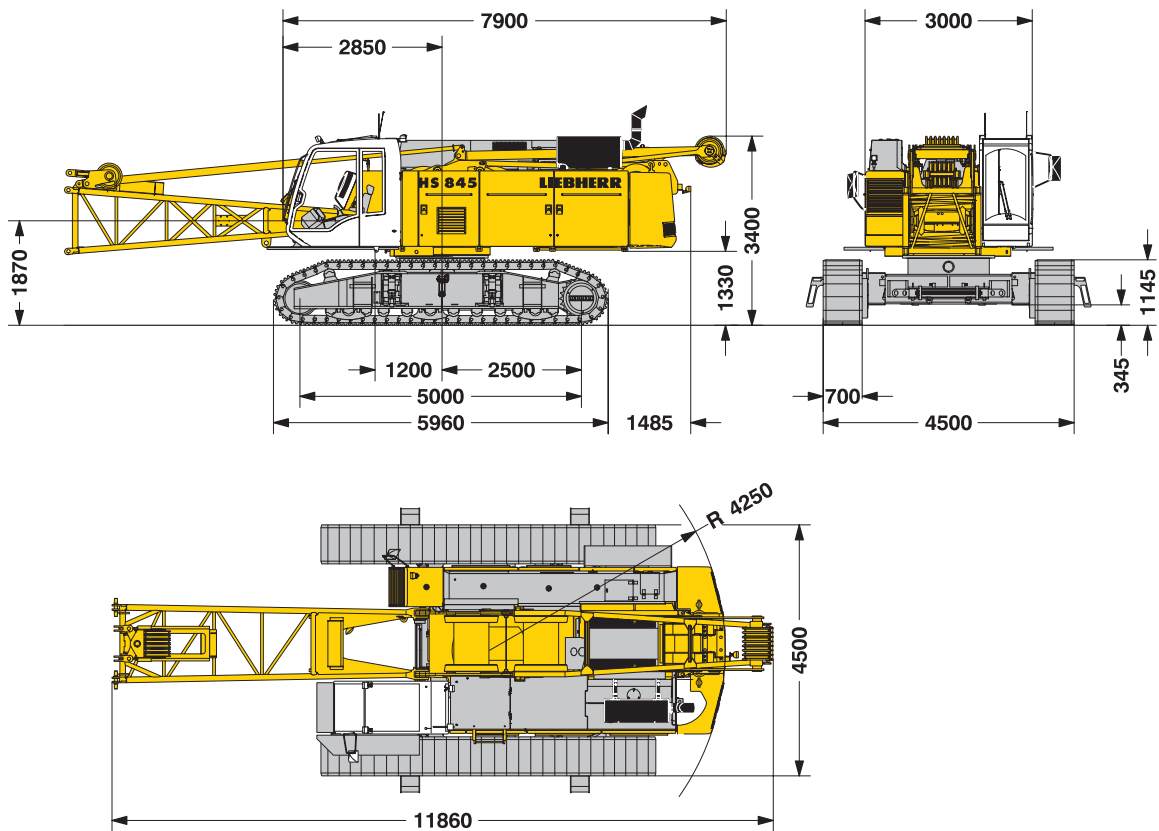


LIEBHERR

Courtesy of Crane.Market

Dimensions

Basic machine with undercarriage



Operating weight

The operating weight includes the basic machine with HD undercarriage, 2 main winches 200 kN including wire ropes (90 m) and 11 m main boom, consisting of A-frame, pulley block, boom foot (5.5 m) and boom head (5.5 m), 20 t basic counterweight, 700 mm triple grouser track shoes and 60 t hook block.

Total weight _____ approx. 67.4 t

Ground pressure

Ground bearing pressure _____ 0.95 kg/cm²

Equipment

Standard main boom (No. 1311.xx) max. length _____ 56 m

Fixed jib _____ upon request
Modular designed equipment for operation as crane, with dragline or clamshell.

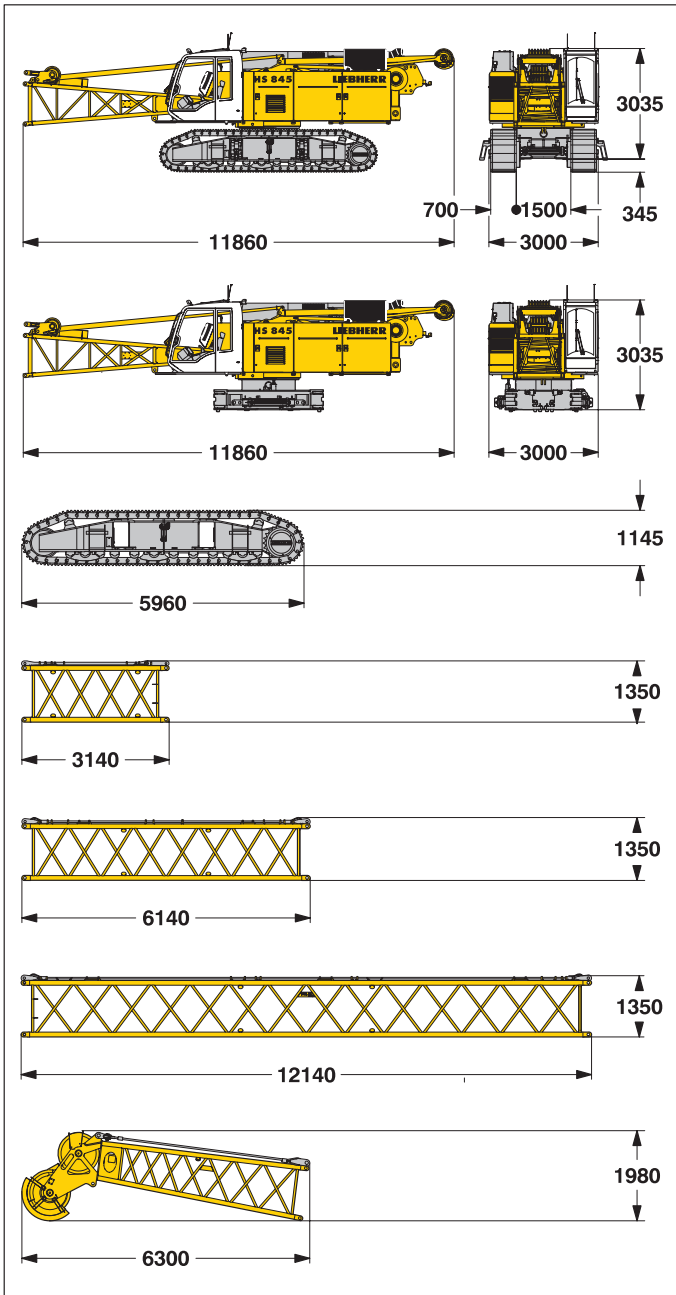
For dragline operation, a rotating fairlead is fitted into the boom foot. This minimizes the rope angle to drum, which results in lower rope wear.

Remarks

1. The lifting capacities stated are valid for lifting operation only (corresponds with crane classification according to F.E.M. 1.001, crane group A1).
2. Crane standing on firm, horizontal ground.
3. The weight of the lifting device (hoisting ropes, hook block, shackle etc.) must be deducted from the gross lifting capacity to obtain a net lifting value.
4. Additional equipment on boom (e.g. boom walkways, auxiliary jib) must be deducted to get the net lifting capacity.
5. For max. wind speed please refer to lift chart in operator's cab or manual.
6. Working radii are measured from centre of swing and under load.
7. The lifting capacities are valid for 360 degrees of swing.
8. Calculation of stability under load is based on DIN 15019 / part 2 / chart 1 and ISO 4305 Table 1 + 2, tipping angle 4°.
9. The structures are calculated according to F.E.M. 1.001 – 1998 (EN 13001–2 / 2004).

Transport dimensions and weights

Basic machine and standard main boom (No. 1311.18)



Basic machine

with HD undercarriage, boom foot, pulley block, A-frame, 2x 200 kN winches including wire ropes (90 m), without basic counterweight

Width	mm	3000
Weight	kg	44700

Basic machine

with boom foot, pulley block, A-frame, 2x 200 kN winches including wire ropes (90 m), without basic counterweight and crawlers

Width	mm	3000
Weight	kg	30960

Crawler

2x

Triple grouser track shoes	mm	700
Width	mm	1120
Weight	kg	6870

Boom section (No. 1311.18)

3 m

Width	mm	1400
Weight*	kg	390

Boom section (No. 1311.18)

6 m

Width	mm	1400
Weight*	kg	670

Boom section (No. 1311.18)

12 m

Width	mm	1400
Weight*	kg	1067

Boom head (No. 1311.18)

Width	mm	1400
Weight*	kg	1690

Transport option

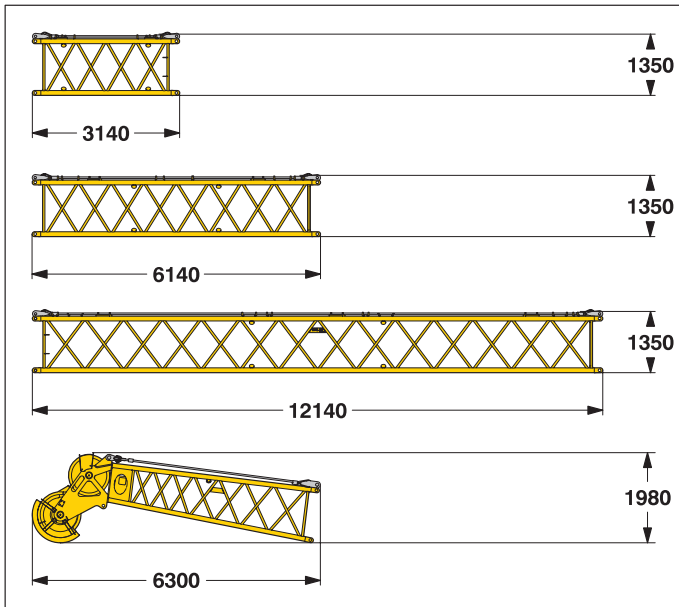
Boom transport option

Boom section	9 m	12 m	
Length	mm	9140	12140
Weight*	kg	3400	5040

*) Including pendant ropes

Transport dimensions and weights

Heavy main boom (No. 1311.22)



*) Including pendant ropes

Boom section (No. 1311.22) **3 m**

Width	mm	1400
Weight*	kg	500

Boom section (No. 1311.22) **6 m**

Width	mm	1400
Weight*	kg	800

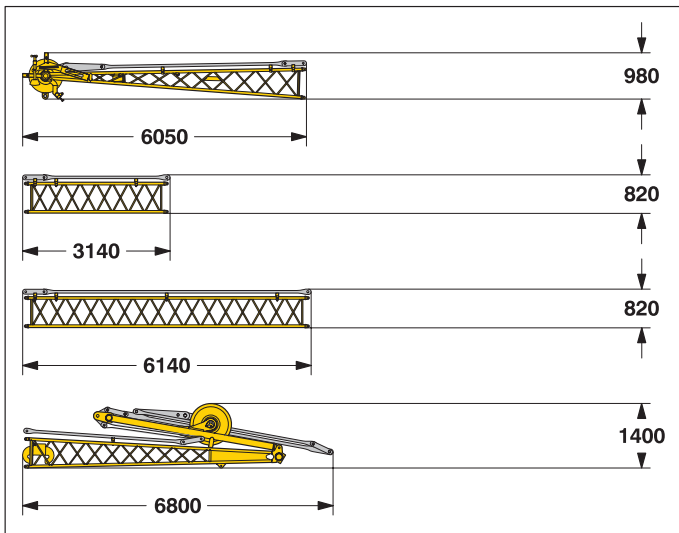
Boom section (No. 1311.21) **12 m**

Width	mm	1400
Weight*	kg	1260

Boom head (No. 1311.22)

Width	mm	1400
Weight*	kg	1970

Fixed jib (No. 0806.xx)



*) Including pendant straps

Fixed jib head (No. 0806.xx)

Width	mm	1140
Weight*	kg	445

Fixed jib section (No. 0806.xx) **3 m**

Width	mm	950
Weight*	kg	110

Fixed jib section (No. 0806.xx) **6 m**

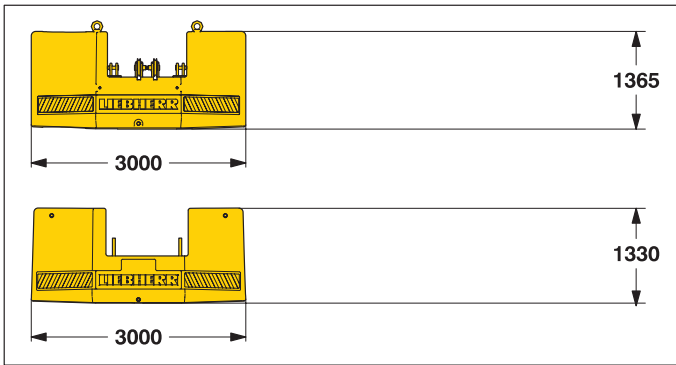
Width	mm	950
Weight*	kg	195

Fixed jib foot with A-frame (No. 0806.xx)

Width	mm	1500
Weight*	kg	930

Transport dimensions and weights

Counterweight



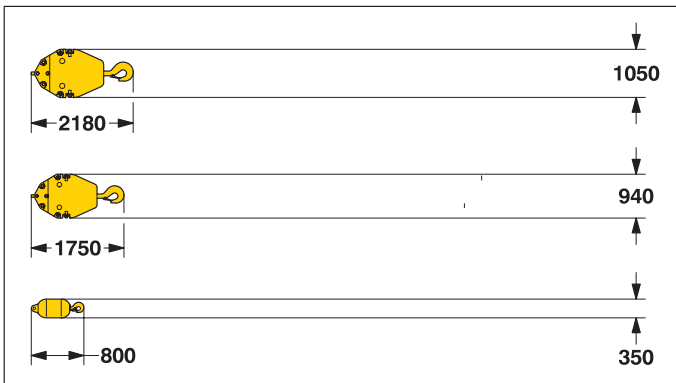
Counterweight I **1 x**

Width	mm	830
Weight	kg	12600

Counterweight II **1 x**

Width	mm	625
Weight	kg	7400

Hooks



60 t hook block - 1 sheave

Width	mm	160
Weight	kg	970

40 t hook block - 1 sheave

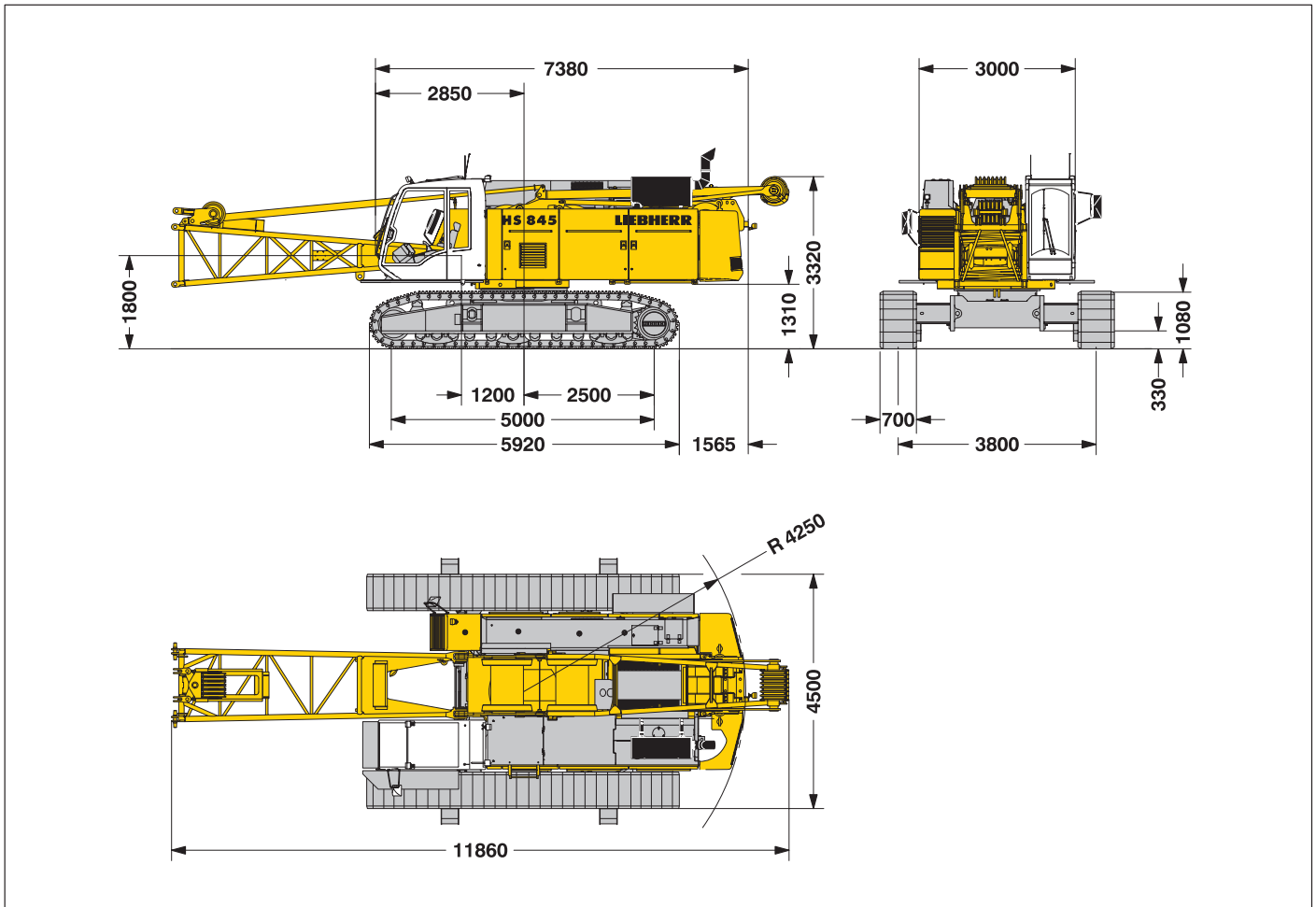
Width	mm	300
Weight	kg	515

20 t single hook

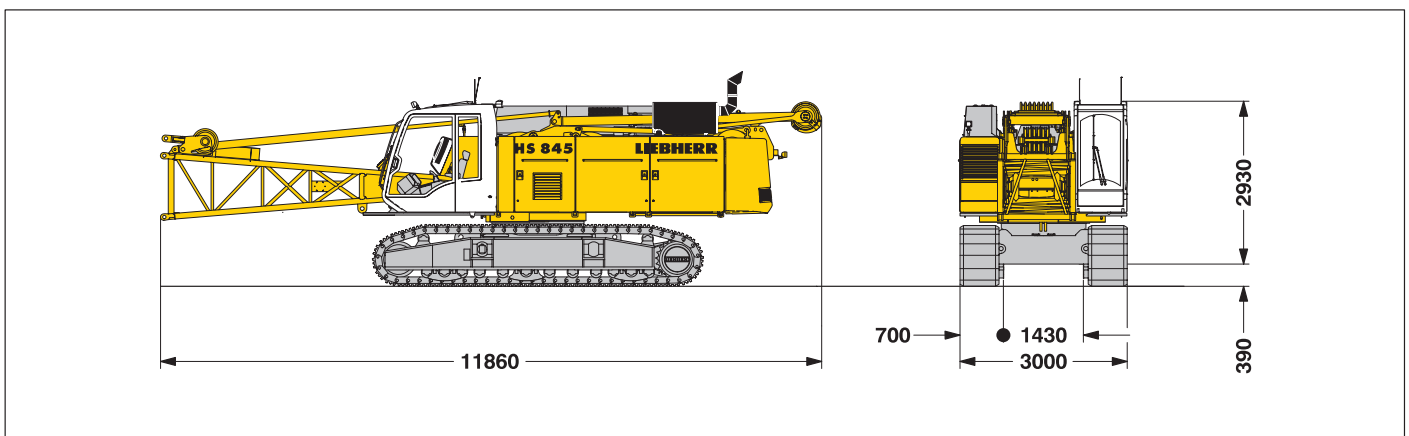
Width	mm	350
Weight	kg	300

Dimensions

Basic machine with undercarriage for casing oscillator



Transport dimensions



Basic machine

with undercarriage for casing oscillator, boom foot, pulley block, A-frame, 2x 200 kN winches including wire ropes (90 m), without basic counterweight.

Width	mm	3000
Weight*	kg	48500

*) Including guide rails

Technical description



Engine

Power rating according to ISO 9249, 350 kW (469 HP) at 1900 rpm
Engine type _____ Liebherr D 846 A7
Fuel tank _____ 800 l capacity with continuous level indicator and reserve warning
Engine complies with NRMM exhaust certification EPA / CARB Tier 3 and 97/68 EC Stage III



Hydraulic system

The main pumps are operated by a distributor gearbox. Axial piston displacement pumps work in closed and open circuits supplying oil only when needed (flow control on demand). To minimize peak pressure an automatically working pressure cut off is integrated. This spares pumps and saves energy. The hydraulic oil is cleaned through electronically controlled pressure and return filters.
Possible contamination is signalled in the cabin. The use of synthetic environmentally friendly oils is possible.
Ready made hydraulic retrofit kits are available to customize requirements e. g. powering casing oscillators, VM vibrators, hydraulic grabs, hanging leads etc.
Working pressure _____ max. 350 bar
Oil tank capacity _____ 1000 l



Boom winch

Line pull _____ max. 2x 50 kN
Rope diameter _____ 18 mm
Boom up _____ 45 sec. from 15° to 82°



Swing

Consists of rollerbearing with external teeth for lower tooth flank pressure, fixed axial piston hydraulic motor, spring loaded and hydraulically released multi-disc holding brake, planetary gearbox and pinion.
Swing speed from 0 – 4.5 rpm continuously variable, selector for 3 speed ranges to increase swing precision.
Option:
Second swing drive



Noise emission

Noise emissions correspond with 2000/14/EC directive on noise emission by equipment used outdoors.



Main winches

Winch options:
Line pull (nom. load) _____ 120 kN _____ 160 kN _____ 200 kN
Rope diameter _____ 24 mm _____ 26 mm _____ 30 mm
Drum diameter _____ 525 mm _____ 580 mm _____ 630 mm
Rope speed m/min _____ 0–133 _____ 0–111 _____ 0–90
Rope capacity 1st layer _____ 48.5 _____ 51.9 m _____ 46.5 m
The winches are outstanding in their compact design and easy assembly. Clutch and braking functions on the free fall system are provided by a compact designed, low wear and maintenance free multi-disc brake. The drag and hoist winches use pressure controlled, variable flow hydraulic motors.
This system features sensors that automatically adjust oil flow to provide max. winch speed depending on load.
Option:
Auxiliary winch _____ 70 kN in boom foot
Tagline winch _____ 30 kN with free fall



Crawlers

The track width of the undercarriage is changed hydraulically. Propulsion through axial piston motor, hydraulically released spring loaded multi-disc brake, maintenance free crawler tracks, hydraulic chain tensioning device.
Flat or triple grouser track shoes _____ 700 mm
Drive speed _____ 0 – 1.5 km/h
Option:
● 2 speed hydraulic motor for higher travel speed

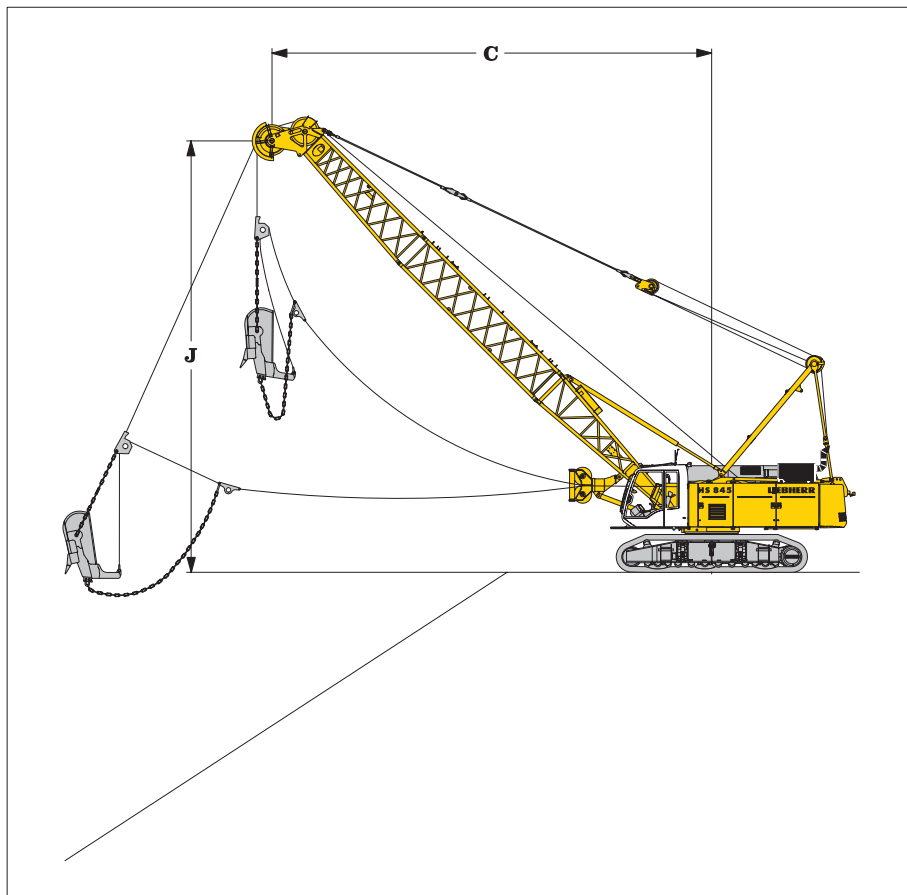


Control

The control system – developed and manufactured by Liebherr – is designed to withstand extreme temperature changes and the rough heavy duty tasks common in the construction industry. Complete machine operating data are shown on a high resolution display. The crane is equipped with proportional control for all movements, which can be carried out simultaneously.
Dragline operation: A special "Interlock" control system is an option available. It is designed for power lifting of the dragline bucket without using the drag winch brake.
On request, Liebherr also offers special custom designed control systems for free fall winches.
Operation: Left joy stick for boom winch and swing, right two directional levers for winch I and II. Crawler control is actuated with the two central foot pedals. Additionally, hand levers can be attached to the pedals.
Options:
● Special demolition control system
● MDE: Machine data recording
● PDE: Process data recording
● GSM modem

Dragline equipment

20 t counterweight - standard main boom



Working diagram

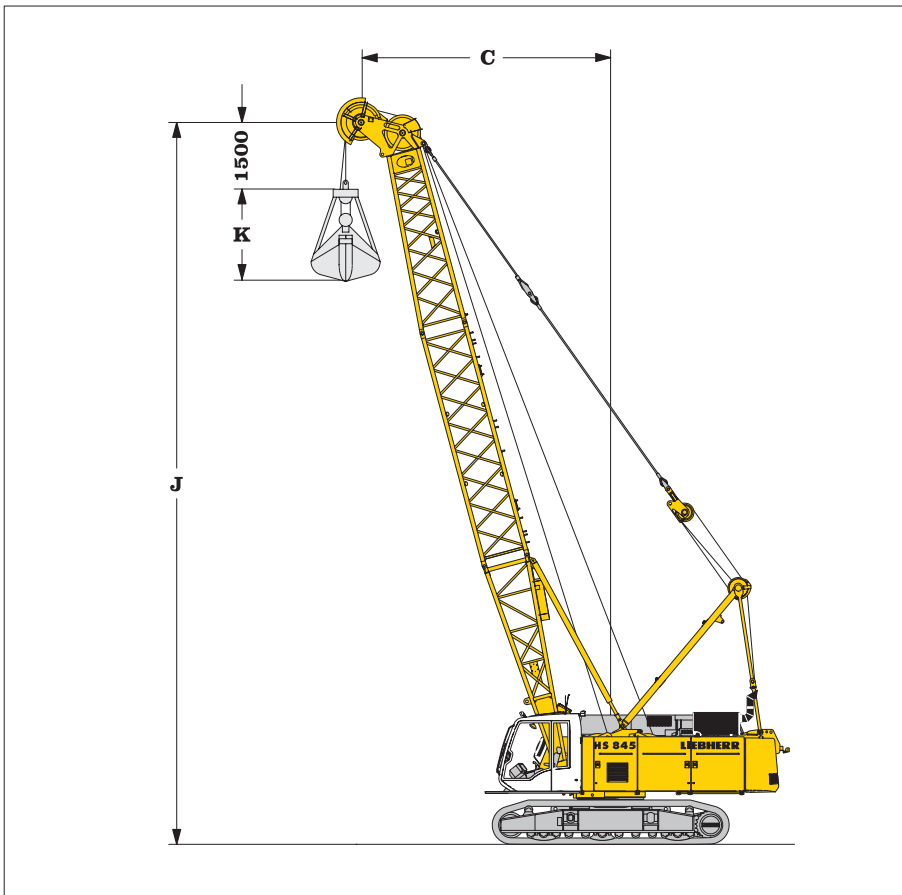
C = Radius / dumping radius
 J = Height of boom head sheave centre above ground level

Capacities in metric tons for boom lengths (14 m – 26 m)										counterweight 20 t					
alpha	14			17			20			23			26		
	C	J	t	C	J	t	C	J	t	C	J	t	C	J	t
45	11.9	11.3	13.0	14.1	13.4	10.6	16.2	15.6	9.0	18.3	17.7	7.7	20.4	19.8	6.6
40	12.7	10.4	12.2	15.0	12.3	10.0	17.3	14.2	8.3	19.6	16.2	7.0	21.9	18.1	6.0
35	13.4	9.4	11.4	15.9	11.1	9.2	18.3	12.8	7.8	20.8	14.5	6.6	23.2	16.2	5.6
30	14.0	8.3	10.5	16.6	9.8	8.6	19.2	11.3	7.2	21.8	12.8	6.0	24.4	14.3	5.1
25	14.5	7.2	9.5	17.3	8.5	7.7	20.0	9.7	6.4	22.7	11.0	5.4	25.4	12.3	4.6

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

Clamshell equipment

20 t counterweight - standard main boom



Working diagram

- C = Radius / dumping radius
- J = Height of boom head sheave centre above ground level
- K = Length of clamshell (depending on type and capacity of bucket)

Capacities in metric tons for boom lengths (14 m – 26 m)												counterweight 20 t			
alpha	14			17			20			23			26		
	C	J	t	C	J	t	C	J	t	C	J	t	C	J	t
65	8.1	14.3	20.3	9.4	17.0	17.2	10.6	19.7	14.5	11.9	22.4	12.6	13.2	25.2	10.7
60	9.1	13.7	17.4	10.6	16.3	14.4	12.1	18.9	12.3	13.6	21.5	10.5	15.1	24.1	9.1
55	10.1	13.0	15.6	11.9	15.4	12.7	13.6	17.9	10.6	15.3	20.3	9.0	17.0	22.8	7.7
50	11.1	12.2	13.9	13.0	14.5	11.2	14.9	16.8	9.3	16.9	19.1	7.9	18.8	21.4	6.7
45	11.9	11.3	12.5	14.1	13.4	10.1	16.2	15.6	8.4	18.3	17.7	7.0	20.4	19.8	6.0
40	12.7	10.4	11.5	15.0	12.3	9.3	17.3	14.2	7.6	19.6	16.2	6.4	21.9	18.1	5.4
35	13.4	9.4	10.7	15.9	11.1	8.6	18.3	12.8	7.1	20.8	14.5	5.9	23.2	16.2	5.0
30	14.0	8.3	10.1	16.6	9.8	8.1	19.2	11.3	6.6	21.8	12.8	5.5	24.4	14.3	4.6
25	14.5	7.2	9.5	17.3	8.5	7.7	20.0	9.7	6.3	22.7	11.0	5.2	25.4	12.3	4.4

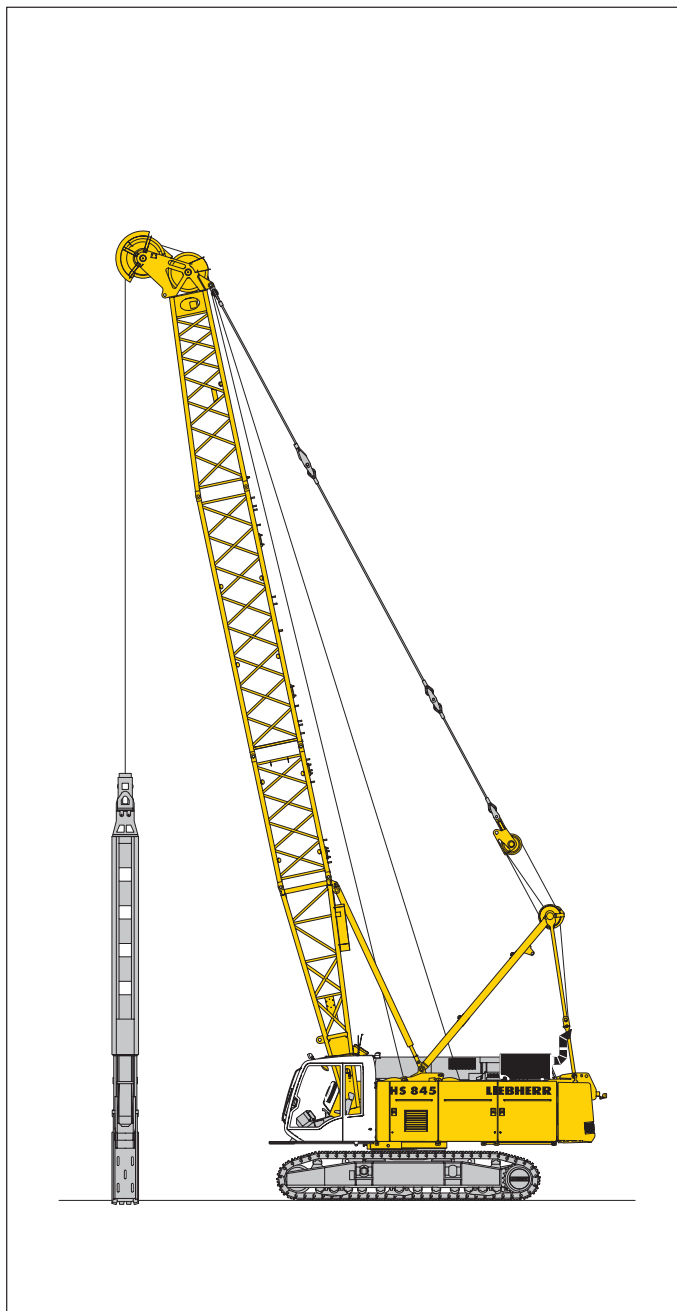
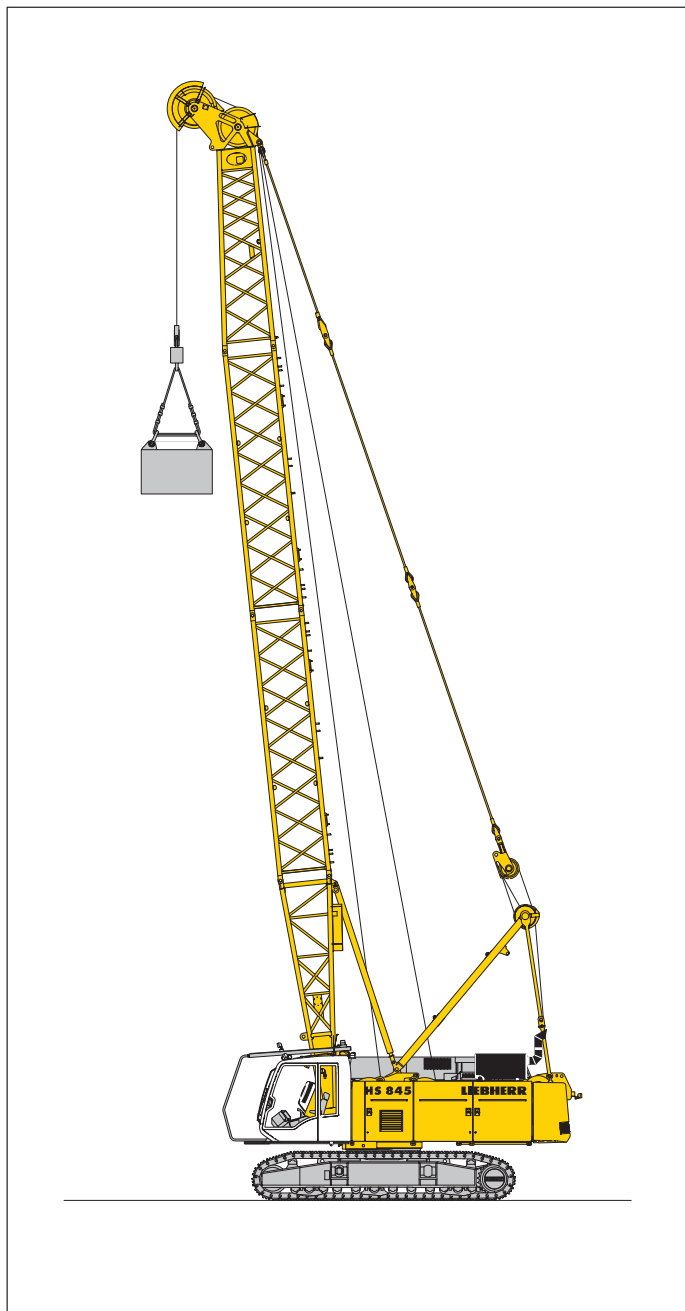
Max. capacities in metric tons do not exceed 66.7 % of tipping load.

Load diagram restricted by safety factors of standard ropes:

- Winches _____ 120 kN _____ 160 kN _____ 200 kN
- Rope diameter _____ 24 mm _____ 26 mm _____ 30 mm
- Min. breaking load _____ 512 kN _____ 604 kN _____ 810 kN
- 1-rope clamshell _____ 10 t _____ 12 t _____ 16.5 t
- 2-rope clamshell _____ 13.3 t _____ 16 t _____ 22 t

Equipment (with standard main boom No. 1311.18)

Dynamic soil compaction and slurry wall grab



Capacities in metric tons for boom lengths (20 m – 26 m)

Radius (m)	Boom length		
	20 m	23 m	26 m
	t	t	t
8	19	18	18
9	17	16	16

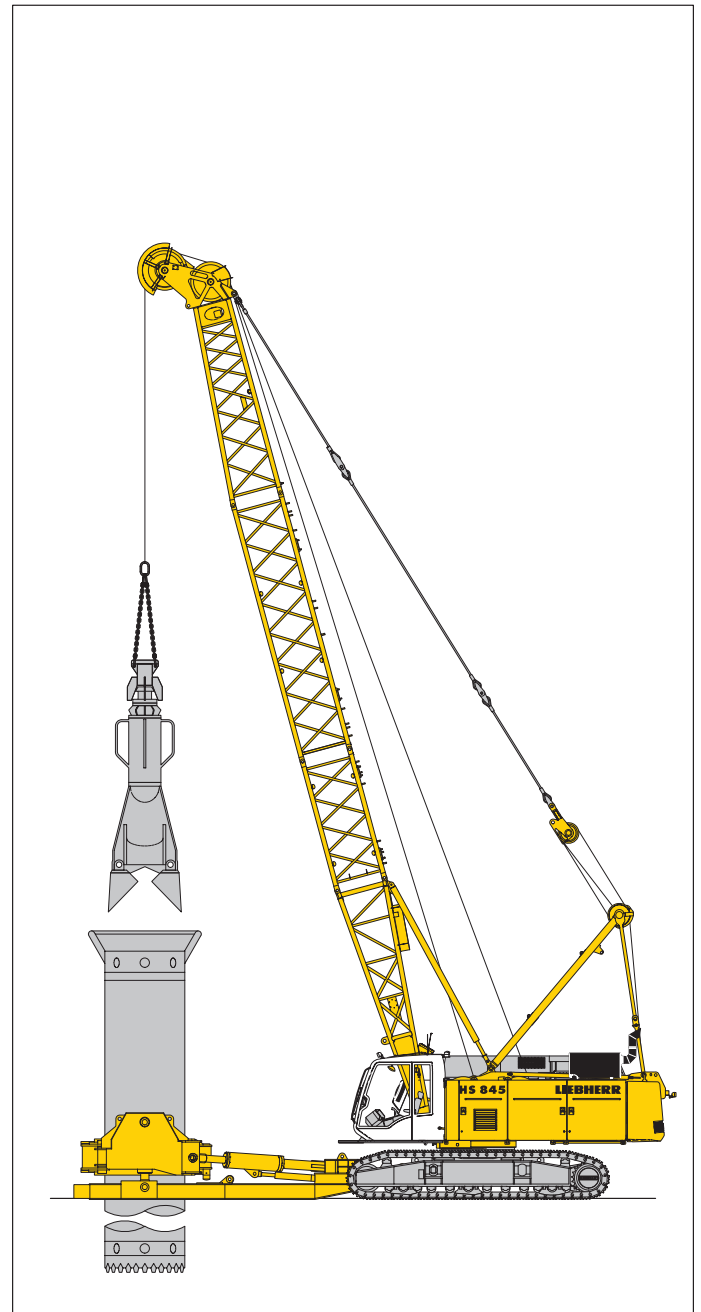
Max. capacities in metric tons do not exceed 75% of tipping load. All loads given are max. values and must not be exceeded. They are only permitted in 2 rope automatic operation and are valid for work on a surface with max. inclination of 1 %. Lifting heights must not exceed 25 m.

Slurry wall grab

Winch options _____ 2 x 200 kN
 Line speed 1st layer (m/min) _____ 0-92
 Max. chisel weight _____ 12 t
 Maximum allowable weight in two rope operation _____ 22 t

Equipment (with standard main boom No. 1311.18)

Casing oscillator with corresponding undercarriage

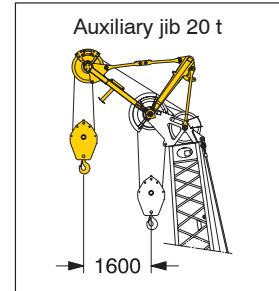
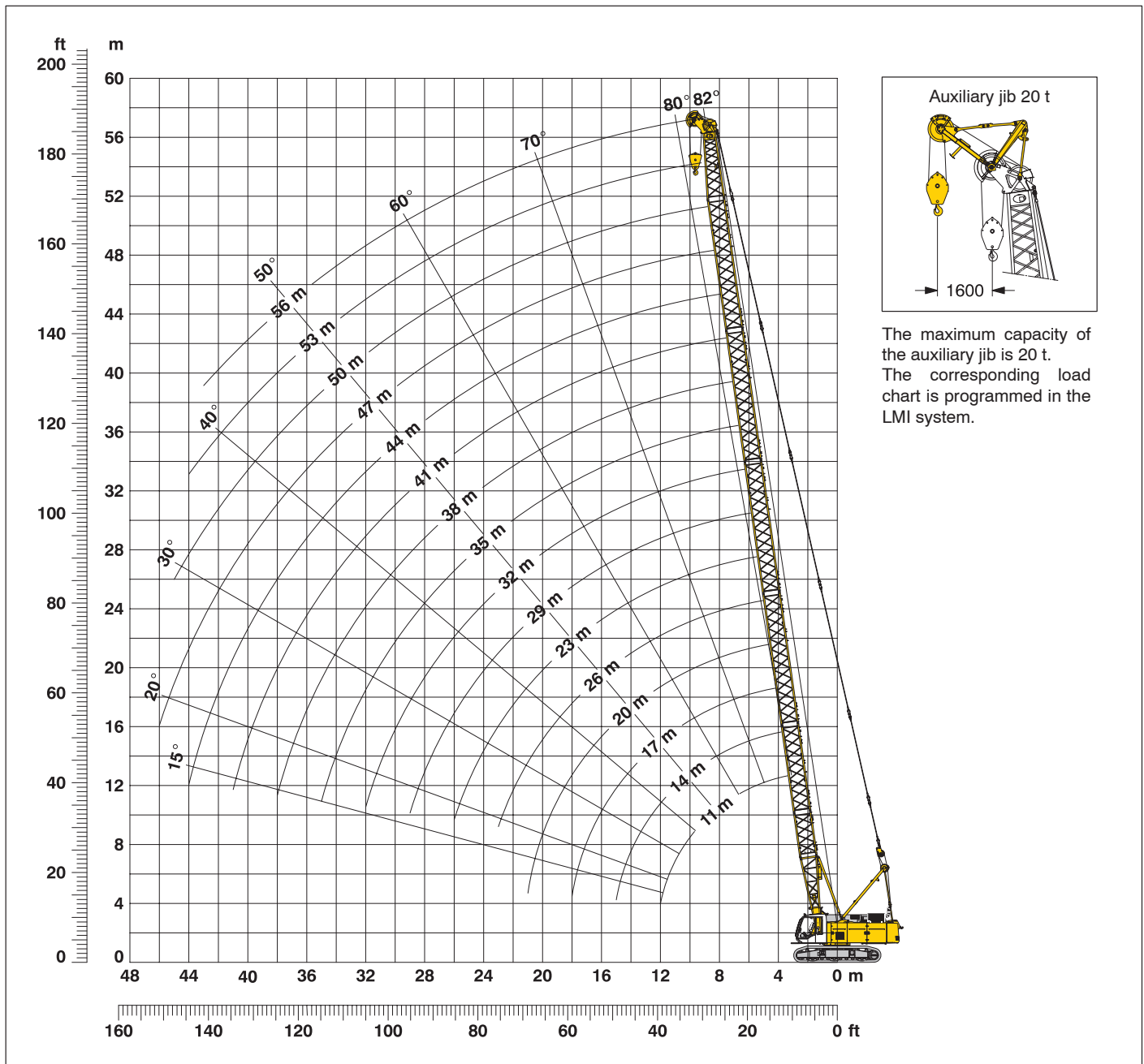


Casing oscillator

Winch options	2 x 200 kN
Line speed 1st layer (m/min)	0-92
Drilling diameter	1800 mm
Maximum allowable weight in two rope operation	22 t

Standard main boom (No. 1311.18) 82° - 15°

20 t counterweight



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

Main boom configuration (Table 1 – No. 1311.18)

Configuration for boom lengths (11 m – 56 m)

Configuration	Length	Amount of boom extensions															
		11	14	17	20	23	26	29	32	35	38	41	44	47	50	53	56
Boom foot	5.5 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom insert	3.0 m		1		1		1		1		1		1		1		1
Boom insert	6.0 m			1	1		1		1		1		1		1		1
Boom insert	12.0 m					1	1	1	1	2	2	2	2	3	3	3	3
Boom head	5.5 m	1	1	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	53	56

Lift chart for standard main boom (No. 1311.18)

12.3 t counterweight

Capacities in metric tons for boom lengths (11 m – 47 m) – with 200 kN winches														
Radius	Boom length (m)													Radius
	11	14	17	20	23	26	29	32	35	38	41	44	47	
(m)	t	t	t	t	t	t	t	t	t	t	t	t	t	(m)
3.4	51.3													3.4
4	51.3	48.3												4
5	38.3	36.2	34.3	32.6										5
6	30.2	28.8	27.6	26.4	25.3	24.2	23.2							6
7	24.0	23.9	22.9	22.1	21.2	20.4	19.7	19.0	18.3					7
8	19.7	19.8	19.6	18.9	18.3	17.6	17.0	16.4	16.0	15.4	14.9	14.3		8
9	16.7	16.7	16.7	16.5	16.0	15.5	15.0	14.5	14.0	13.6	13.1	12.7	12.3	9
10	14.4	14.5	14.5	14.5	14.2	13.7	13.3	12.9	12.5	12.1	11.7	11.3	10.9	10
12	11.2	11.2	11.2	11.2	11.2	11.1	10.8	10.4	10.1	9.8	9.5	9.2	8.9	12
14		9.0	9.1	9.0	9.0	8.9	8.9	8.7	8.4	8.1	7.8	7.6	7.3	14
16			7.5	7.5	7.4	7.4	7.3	7.2	7.1	6.8	6.6	6.4	6.1	16
18			6.3	6.3	6.2	6.2	6.1	6.0	5.9	5.8	5.6	5.4	5.2	18
20				5.4	5.3	5.3	5.2	5.1	5.0	4.9	4.8	4.6	4.4	20
22					4.6	4.5	4.5	4.4	4.3	4.2	4.1	4.0	3.8	22
24						3.9	3.9	3.8	3.7	3.6	3.5	3.4	3.2	24
26						3.4	3.3	3.3	3.2	3.1	3.0	2.9	2.8	26
28							2.9	2.8	2.7	2.7	2.6	2.5	2.4	28
30								2.4	2.4	2.3	2.2	2.1	2.0	30
32								2.1	2.0	2.0	1.9	1.8	1.7	32
34									1.8	1.7	1.6	1.5	1.4	34
36										1.4	1.3	1.2	1.1	36
38										1.2	1.1	1.0		38

Lift chart for standard main boom (No. 1311.18)

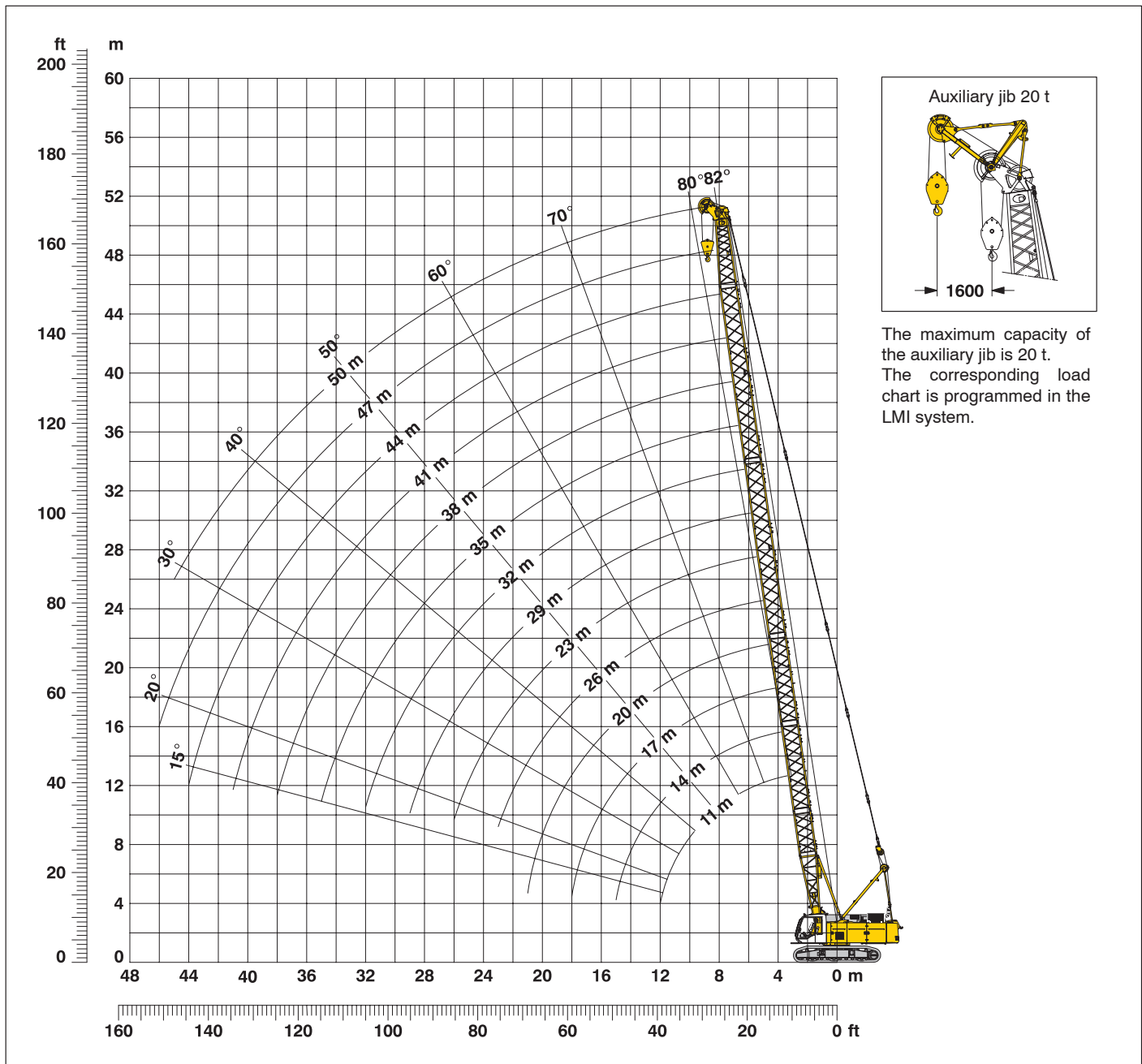
20 t counterweight

Capacities in metric tons for boom lengths (11 m – 56 m) – with 200 kN winches																
Radius	Boom length (m)															Radius
	11	14	17	20	23	26	29	32	35	38	41	44	47	50	53	
(m)	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t
5.5						35.2										5.5
6				34.7	33.3	31.9	30.7									6
7	31.5	30.6	30.3	29.1	28.1	27.1	26.1	25.2	24.3							7
8	26.0	26.0	25.9	25.1	24.2	23.4	22.7	21.9	21.2	20.5	19.9	19.3				8
9	22.0	22.0	22.1	21.9	21.2	20.6	20.0	19.4	18.8	18.2	17.6	17.1	16.6	16.1		9
10	19.0	19.1	19.1	19.1	18.9	18.3	17.8	17.3	16.8	16.3	15.9	15.4	14.9	12.8	11.1	9.5
12	14.9	15.0	15.0	15.0	14.9	14.8	14.6	14.2	13.8	13.4	13.0	12.7	12.3	11.9	10.9	9.3
14		12.1	12.2	12.2	12.1	12.0	12.0	11.9	11.6	11.2	10.9	10.6	10.3	10.0	9.7	9.1
16			10.2	10.2	10.1	10.0	10.0	9.9	9.8	9.6	9.3	9.0	8.8	8.5	8.3	8.0
18			8.6	8.6	8.6	8.5	8.5	8.4	8.3	8.2	8.0	7.8	7.6	7.3	7.1	6.8
20				7.5	7.4	7.3	7.3	7.2	7.1	7.0	6.9	6.8	6.6	6.4	6.1	5.9
22					6.4	6.4	6.3	6.2	6.2	6.1	6.0	5.9	5.8	5.5	5.3	5.1
24						5.6	5.6	5.5	5.4	5.3	5.2	5.1	5.0	4.8	4.6	4.4
26						5.0	4.9	4.8	4.7	4.6	4.5	4.4	4.4	4.2	4.0	3.8
28							4.3	4.3	4.2	4.1	4.0	3.9	3.8	3.7	3.5	3.3
30								3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	2.9
32								3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.5
34									2.9	2.9	2.7	2.7	2.6	2.5	2.3	2.2
36										2.5	2.4	2.3	2.2	2.1	2.0	1.9
38										2.2	2.1	2.0	2.0	1.8	1.7	1.6
40											1.9	1.8	1.7	1.6	1.5	1.4
42												1.6	1.5	1.4	1.3	1.1
44													1.3	1.1	1.1	
46														1.1		46

Above lift chart is for reference only. For actual lift duty please refer to lift chart in operator's cab or manual.

Heavy main boom (No. 1311.22) 82° - 15°

20 t counterweight



Main boom configuration (No. 1311.22)

Configuration for boom lengths (11 m – 50 m)

Boom foot	Length	Amount of boom extensions													
		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom insert	5.5 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom insert	3.0 m		1		1		1		1		1		1		1
Boom insert	6.0 m			1	1	2	2	1	1	2	2	1	1	2	2
Boom insert	12.0 m							1	1	1	1	2	2	2	2
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

Lift chart for heavy main boom (No. 1311.22)

12.3 t counterweight

Capacities in metric tons for boom lengths (11 m – 41 m) – with 200 kN winches												
Radius	Boom length (m)											Radius
	11	14	17	20	23	26	29	32	35	38	41	
(m)	t	t	t	t	t	t	t	t	t	t	t	(m)
3.4	65.7											3.4
4	51.4	47.8										4
5	37.8	35.6	33.7	32.0								5
6	29.7	28.3	27.0	25.7	24.6	23.5	22.6					6
7	23.6	23.3	22.3	21.4	20.5	19.7	19.0	18.3	17.5			7
8	19.3	19.3	19.0	18.2	17.5	16.8	16.3	15.9	15.3	14.7	14.3	8
9	16.2	16.2	16.2	15.9	15.3	14.8	14.4	13.8	13.3	12.8	12.4	9
10	14.0	14.0	14.0	13.9	13.5	13.0	12.7	12.2	11.8	11.3	11.0	10
12	10.7	10.7	10.7	10.6	10.5	10.3	10.1	9.7	9.4	9.0	8.8	12
14		8.5	8.5	8.4	8.3	8.2	8.3	7.9	7.6	7.3	7.1	14
16			6.9	6.9	6.8	6.7	6.7	6.6	6.3	6.0	5.9	16
18			5.7	5.7	5.6	5.5	5.5	5.4	5.3	5.0	4.9	18
20				4.7	4.7	4.5	4.6	4.5	4.3	4.2	4.1	20
22					3.9	3.8	3.8	3.7	3.6	3.5	3.4	22
24					3.3	3.2	3.2	3.1	3.0	2.9	2.8	24
26						2.6	2.7	2.6	2.5	2.3	2.3	26
28							2.3	2.2	2.0	1.9	1.9	28
30								1.8	1.7	1.5	1.5	30
32									1.4	1.3	1.2	32
34										1.0		34

Lift chart for heavy main boom (No. 1311.22)

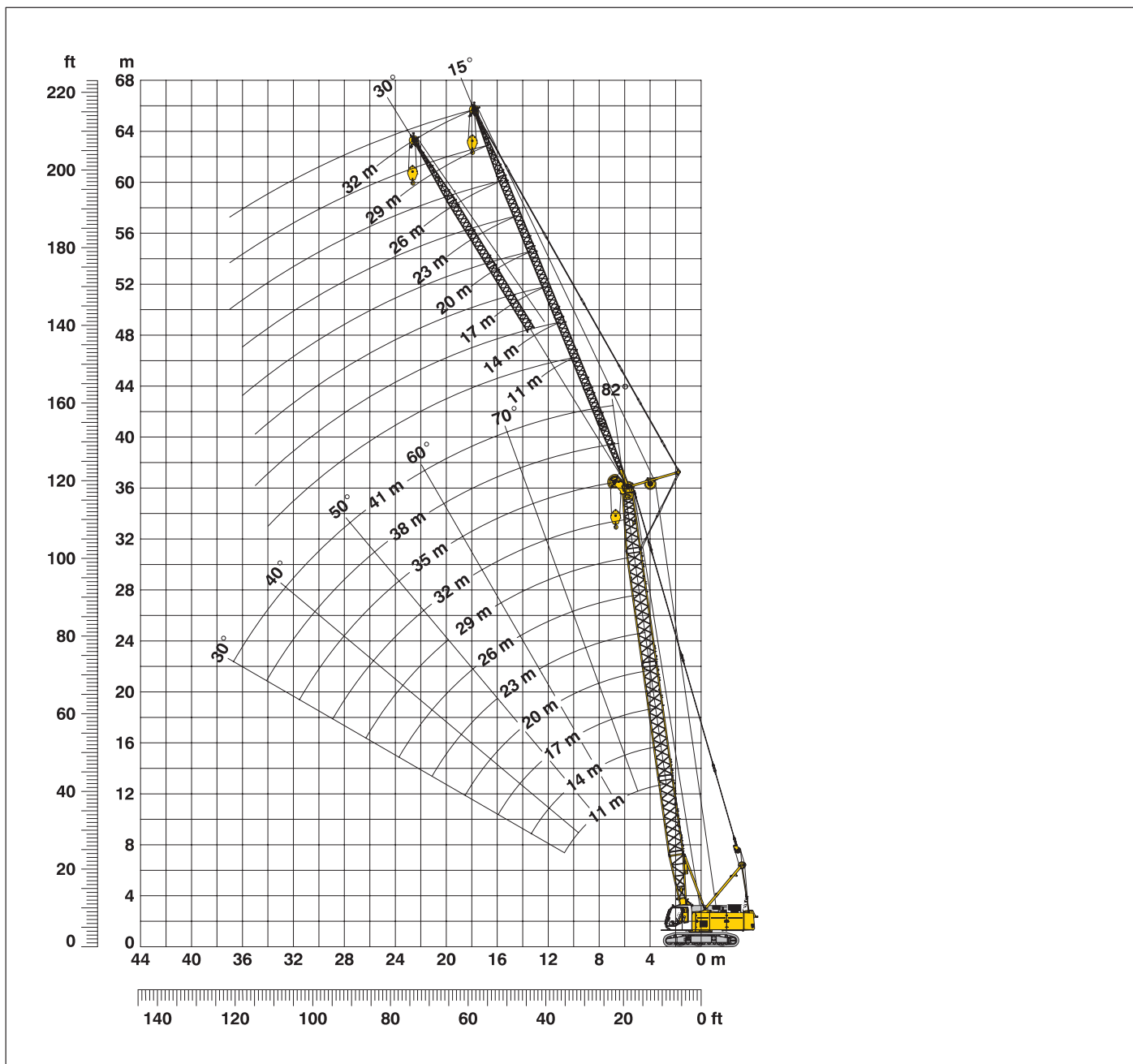
20 t counterweight

Capacities in metric tons for boom lengths (11 m – 50 m) – with 200 kN winches															
Radius	Boom length (m)														Radius
	11	14	17	20	23	26	29	32	35	38	41	44	47	50	
(m)	t	t	t	t	t	t	t	t	t	t	t	t	t	t	(m)
4.2			54.0												4.2
5		45.7	44.4	42.1											5
6	39.2	37.3	35.6	34.1	32.6	31.2	30.0								6
7	31.0	30.4	29.7	28.5	27.4	26.3	25.5	24.5	23.6						7
8	25.5	25.5	25.3	24.4	23.5	22.6	22.0	21.2	20.5	19.8	19.2	18.6			8
9	21.5	21.5	21.5	21.2	20.5	19.8	19.3	18.6	18.0	17.4	16.9	16.3	15.9	15.3	9
10	18.5	18.5	18.5	18.4	18.1	17.5	17.1	16.5	16.1	15.6	15.2	14.7	14.2	12.2	10
12	14.5	14.5	14.4	14.4	14.3	14.2	13.9	13.5	13.0	12.6	12.3	11.9	11.5	11.1	12
14		11.6	11.6	11.5	11.5	11.3	11.4	11.2	10.8	10.4	10.2	9.8	9.5	9.2	14
16			9.6	9.5	9.4	9.3	9.4	9.2	9.1	8.8	8.6	8.3	8.0	7.7	16
18			8.1	8.0	7.9	7.8	7.8	7.7	7.6	7.5	7.3	7.0	6.7	6.5	18
20				6.8	6.7	6.6	6.7	6.5	6.4	6.3	6.3	6.0	5.7	5.5	20
22					5.8	5.7	5.7	5.6	5.5	5.3	5.3	5.2	4.9	4.7	22
24					5.0	4.9	4.9	4.8	4.7	4.6	4.5	4.4	4.2	4.0	24
26						4.2	4.3	4.2	4.0	3.9	3.9	3.7	3.6	3.4	26
28							3.7	3.6	3.5	3.3	3.3	3.2	3.1	2.9	28
30								3.1	3.0	2.9	2.9	2.7	2.6	2.4	30
32								2.7	2.6	2.4	2.4	2.3	2.2	2.0	32
34									2.2	2.1	2.1	1.9	1.8	1.7	34
36										1.8	1.8	1.6	1.5	1.3	36
38										1.5	1.5	1.3	1.2	1.1	38
40											1.2	1.1			40

Above lift chart is for reference only. For actual lift duty please refer to lift chart in operator's cab or manual.

Fixed jib (No. 0806.xx) 15° and 30°

Main boom 82° - 30°



Boom configuration for standard boom (No. 1311.18)

for boom lengths (11 m - 44 m) – Table 1, page 12

Fixed jib configuration for fixed jib lengths (11 m - 32 m)

	Length	Amount of fixed jib extensions							
Fixed jib foot	5.5 m	1	1	1	1	1	1	1	1
Fixed jib insert	3.0 m		1		1		1		1
Fixed jib insert	6.0 m			1	1	2	2	3	3
Fixed jib head	5.5 m	1	1	1	1	1	1	1	1
Fixed jib length (m)		11	14	17	20	23	26	29	32

Lift chart – fixed jib (No. 0806.xx)

Offset 15°

Main boom 11 m

Radius (m)	Fixed jib length (m)			
	11	20	26	32
5.9	t	t	t	t
11	19.6	14.1	8.6	
14	12.1	7.5	5.3	
18	8.5	6.8	4.8	3.2
20	7.3	6.5	4.5	3.1
24		5.8	4.0	3.0
28		4.6	3.6	2.8
32			3.3	2.7
34			3.2	2.5
36				2.4
38				2.3
40				2.3

Main boom 14 m

Radius (m)	Fixed jib length (m)			
	11	20	26	32
6.3	t	t	t	t
11	19.2	14.4	8.7	
14	11.9	7.5	5.2	
18	8.4	6.9	4.8	2.9
20	7.2	6.7	4.6	2.8
22	6.2	6.4	4.4	2.8
26		5.0	3.9	2.7
32		3.5	3.4	2.6
36			2.9	2.4
38			2.6	2.3
40				2.2
42				2.1

Main boom 17 m

Radius (m)	Fixed jib length (m)			
	11	20	26	32
6.7	t	t	t	t
12	18.6	14.0	8.1	
16	9.8	7.2	5.0	
18	8.3	7.0	4.9	3.2
20	7.1	6.8	4.6	3.2
22	6.1	6.4	4.4	3.1
24	5.3	5.6	4.2	3.0
26	4.6	4.9	4.0	2.9
34		3.0	3.2	2.7
38			2.5	2.6
40			2.2	2.3
42				2.1

Main boom 23 m

Radius (m)	Fixed jib length (m)			
	11	20	26	32
7.6	t	t	t	t
12	17.5	13.7	8.1	
15	10.5	7.3	5.3	
18	8.0	7.0	4.8	3.5
20	6.8	6.8	4.7	3.1
22	5.9	6.2	4.5	3.1
24	5.1	5.4	4.3	3.0
26	4.4	4.7	4.2	2.9
28	3.8	4.2	4.0	2.9
30	3.3	3.7	3.8	2.8
38		2.2	2.3	2.4
40			2.0	2.1

Main boom 29 m

Radius (m)	Fixed jib length (m)			
	11	20	26	32
8.4	t	t	t	t
13	16.2	11.7	7.5	
16	9.1	7.0	5.1	
18	7.7	6.9	4.7	
20	6.6	6.7	4.6	3.1
24	4.8	5.2	4.3	3.0
28	3.6	4.0	4.1	2.8
30	3.1	3.4	3.6	2.8
32	2.7	3.0	3.2	2.7
34	2.3	2.6	2.8	2.7
36		2.3	2.4	2.5
38			2.1	2.2

Main boom 35 m

Radius (m)	Fixed jib length (m)			
	11	20	26	32
9.2	t	t	t	t
14	14.6	10.1	6.8	
18	7.2	6.6	4.5	
20	6.2	6.4	4.4	2.8
22	5.3	5.5	4.3	2.8
24	4.6	4.8	4.2	2.8
26	3.9	4.2	4.2	2.8
28	3.4	3.7	3.7	2.7
30	2.9	3.2	3.3	2.7
32	2.5	2.8	2.9	2.7
34	2.1	2.4	2.5	2.5
36		2.1	2.2	2.2

Main boom 38 m

Radius (m)	Fixed jib length (m)		
	11	20	23
9.7	t	t	t
14	13.8	9.7	
16	8.2	6.5	5.4
18	6.9	6.4	5.3
20	5.9	6.1	5.2
22	5.1	5.3	5.1
24	4.4	4.6	4.7
26	3.8	4.0	4.1
28	3.3	3.5	3.5
30	2.8	3.0	3.1
32	2.4	2.6	2.7
34		2.3	2.3

Main boom 41 m

Radius (m)	Fixed jib length (m)		
	11	14	17
10.1	t	t	t
12	12.9	11.4	9.8
13	10.3	9.6	8.0
16	7.9	8.0	7.5
20	5.7	5.8	5.9
22	4.9	5.0	5.1
24	4.2	4.3	4.4
26	3.6	3.7	3.8
28	3.1	3.1	3.2
30	2.6	2.7	2.8
32	2.2	2.3	2.4
34			2.0

Main boom 44 m

Radius (m)	Fixed jib length (m)		
	11		
10.5	t	t	t
12	12.1	11.0	
14	9.1		
16	7.6		
18	6.4		
20	5.5		
22	4.7		
24	4.0		
26	3.4		
28	2.9		
30	2.4		
32	2.0		

Capacities in metric tons with fixed jib (No. 0806.xx), 20 t counterweight. Above lift chart is for reference only. For actual lift duty and complete chart with all available configurations please refer to lift chart in operator's cab or manual.

Lift chart - fixed jib (No. 0806.xx)

Offset 30°

Main boom 11 m

Radius (m)	Fixed jib length (m)			
	11	20	26	32
8.5	t	t	t	t
15	14.2	5.4		
17	9.4	5.3		
18	8.6	5.2		
20	7.4	5.0	3.4	
24		4.7	3.2	2.5
28		4.4	3.1	2.3
30		4.1	3.0	2.3
34			2.9	2.2
36			2.9	2.1
40				2.0
42				2.0

Main boom 14 m

Radius (m)	Fixed jib length (m)			
	11	20	26	32
8.9	t	t	t	t
16	13.4	4.7		
20	7.3	4.3	2.9	
22	6.3	4.2	2.8	
24	5.4	4.1	2.8	2.0
26		4.1	2.7	2.1
28		4.0	2.6	2.0
30		3.9	2.6	
32		3.6	2.6	
34			2.5	
36			2.5	
38			2.5	

Main boom 17 m

Radius (m)	Fixed jib length (m)			
	11	20	26	32
9.3	t	t	t	t
16	13.7	5.6		
20	7.2	5.3	3.7	
26	4.7	5.1	3.4	2.5
28		4.5	3.3	2.5
30		4.0	3.3	2.5
32		3.5	3.3	2.4
34		3.1	3.2	2.3
36			3.0	2.2
38			2.6	2.2
40			2.3	2.1
42				2.1

Main boom 23 m

Radius (m)	Fixed jib length (m)			
	11	20	26	32
10.2	t	t	t	t
17	13.2	6.1		
22	6.0	5.7	3.9	
26	4.5	5.0	3.7	2.7
28	3.9	4.4	3.6	2.6
30	3.4	3.9	3.5	2.5
32		3.4	3.4	2.5
34		3.0	3.2	2.4
36		2.6	2.8	2.3
38		2.3	2.5	2.2
40			2.2	2.2
42				2.0

Main boom 29 m

Radius (m)	Fixed jib length (m)			
	11	20	26	32
11	t	t	t	t
18	12.6	6.0		
22	5.9	5.7	3.9	
24	5.0	5.6	3.8	
26	4.3	4.9	3.7	2.9
28	3.8	4.2	3.6	2.6
30	3.2	3.7	3.5	2.5
32	2.8	3.2	3.4	2.5
34	2.4	2.8	3.0	2.4
36	2.0	2.5	2.7	2.3
38		2.1	2.3	2.3
40			2.0	2.2

Main boom 35 m

Radius (m)	Fixed jib length (m)			
	11	20	26	32
11.8	t	t	t	t
19	11.3	5.8		
20	7.0	5.7		
22	6.5	5.6		
24	5.6	5.6		
26	4.9	5.3	3.6	
28	4.2	4.6	3.6	
30	3.6	4.0	3.5	2.6
32	3.1	3.5	3.5	2.5
34	2.6	3.1	3.2	2.5
36	2.2	2.7	2.9	2.4
38		2.3	2.5	2.4
			2.2	2.3

Main boom 38 m

Radius (m)	Fixed jib length (m)			
	11	20	23	26
12.3	t	t	t	t
19	10.6	5.6		
20	6.3	5.5		
22	5.4	5.4	4.6	
24	4.7	5.1	4.5	3.7
26	4.0	4.4	4.5	3.6
28	3.5	3.9	4.0	3.5
30	3.0	3.4	3.5	3.5
32	2.5	2.9	3.0	3.1
34	2.1	2.5	2.6	2.7
36		2.2	2.3	2.4
38				2.0

Main boom 41 m

Radius (m)	Fixed jib length (m)		
	11	14	17
12.7	t	t	t
15	9.9	8.3	
17	7.7	7.9	6.9
18	7.1	7.3	6.7
20	6.1	6.2	6.4
22	5.2	5.4	5.5
24	4.5	4.6	4.8
26	3.8	4.0	4.1
28	3.3	3.4	3.6
30	2.8	2.9	3.1
32	2.4	2.5	2.7
34	2.0	2.1	2.3

Main boom 44 m

Radius (m)	Fixed jib length (m)		
	11		
13.1	t		
14	9.3		
16	8.1		
18	6.9		
20	5.8		
22	5.0		
24	4.3		
26	3.6		
28	3.1		
30	2.6		
32	2.2		

Capacities in metric tons with fixed jib (No. 0806.xx), 20 t counterweight. Above lift chart is for reference only. For actual lift duty and complete chart with all available configurations please refer to lift chart in operator's cab or manual.

Notice

