Construction Machine

HS 8070 HD

Litronic®

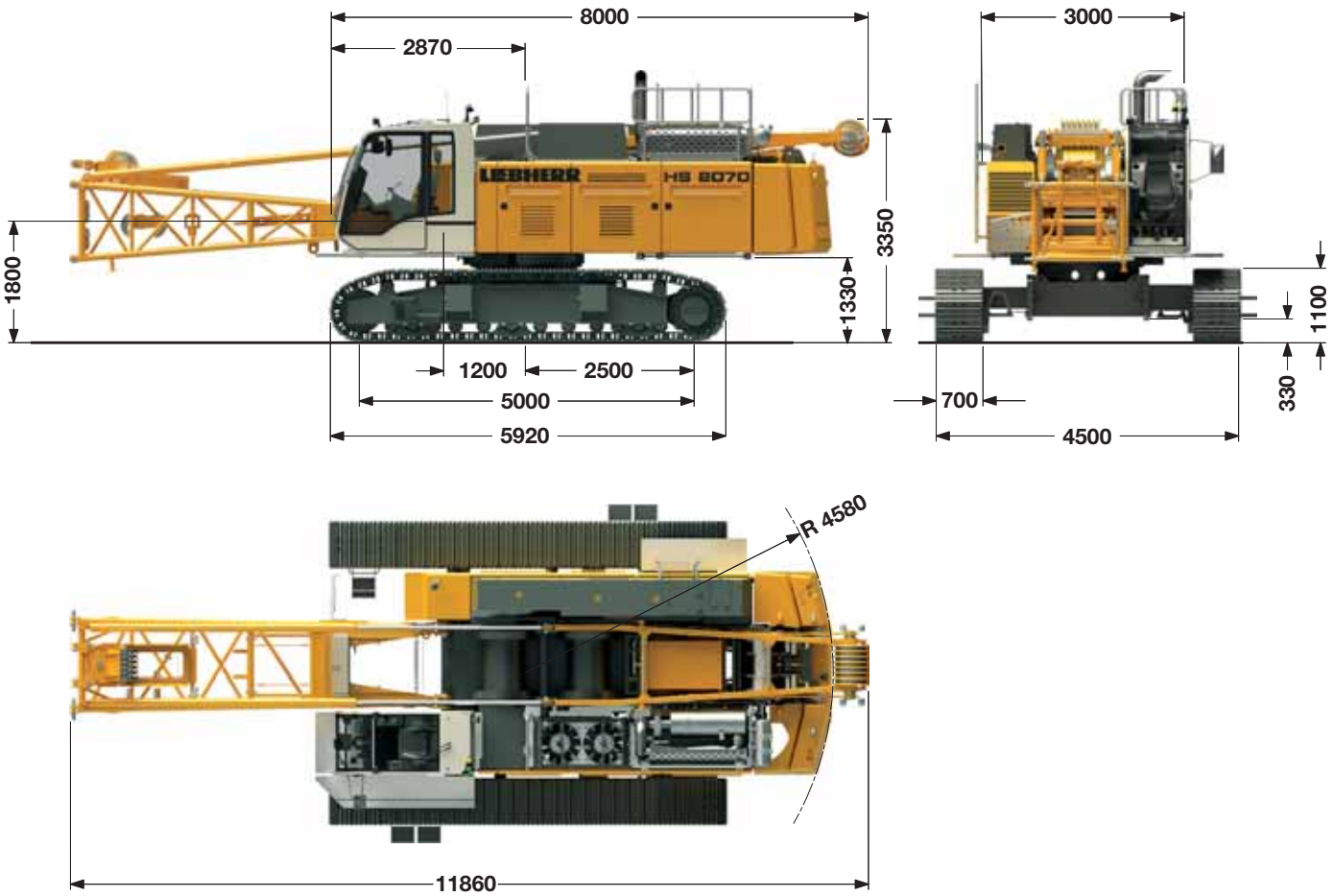
EN

HS 8003.01

LIEBHERR

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 3-web grousers and 60 t hook block.

Total weight ——— approx. 68 t

Ground pressure

Ground bearing pressure ——— 0.97 kg/cm²

Equipment

Main boom (No. 1311.18) max. length ——— 56 m
Main boom (No. 1311.22) max. length ——— 50 m
Fixed jib (No. 0806) ——— 11 m - 32 m

Modular designed equipment for lifting operation, with dragline or clamshell.

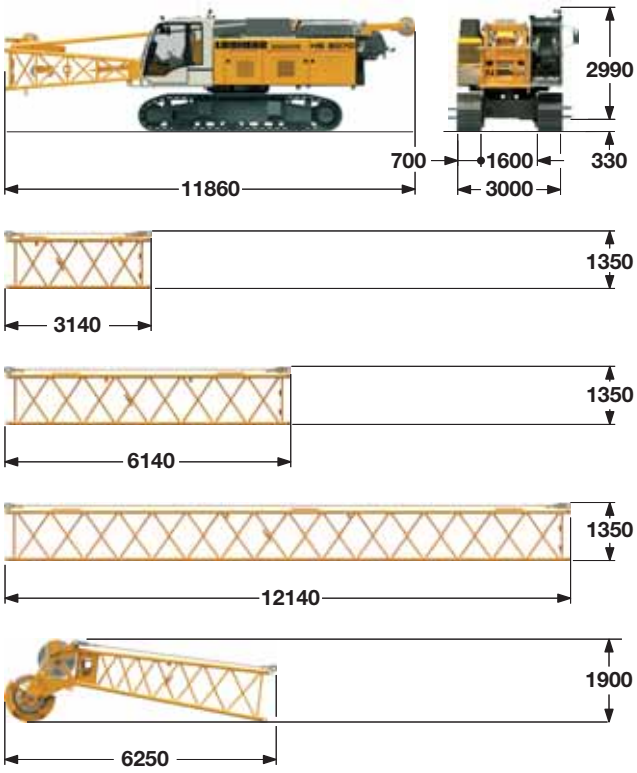
For dragline operation, a rotating fairlead is fitted into the boom foot. This minimizes the rope angle to drum, which results in lower rope wear.

Remarks

1. Liebherr cable excavator HS 8003.01
2. Designed according to EN 474–1 and EN 474–12.
3. Machine standing on firm, horizontal ground.
4. The weight of the lifting device (hoist ropes, hook block, shackle etc.) must be deducted from the gross lifting capacity to obtain a net lifting value.
5. Additional equipment on boom (e.g. boom catwalks, auxiliary jib) must be deducted to get the net lifting capacity.
6. For max. wind speed please refer to lift chart in operator‘s cab or manual.
7. Working radii are measured from centre of swing and under load.
8. The lifting capacities are valid for 360 degrees of swing.

Transport dimensions and weights

Basic machine and 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 with 700 mm 3-web grousers	3000 mm
Weight	47000 kg
Option:	
Width with 800 mm 3-web grousers	3390 mm
Weight	47540 kg

Boom section (No. 1311.18)	**3 m**
Width	1430 mm
Weight incl. pendant ropes	390 kg

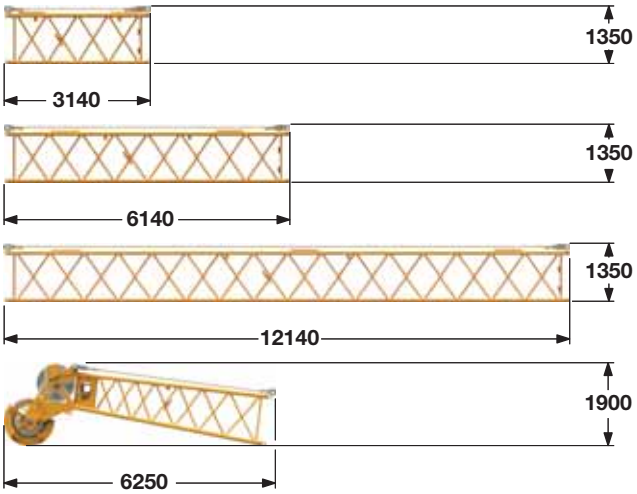
Boom section (No. 1311.18)	**6 m**
Width	1430 mm
Weight incl. pendant ropes	620 kg

Boom section (No. 1311.18)	**12 m**
Width	1430 mm
Weight incl. pendant ropes	1085 kg

Boom head[1] (No. 1311.18)	
Width	1400 mm
Weight incl. pendant ropes	1420 kg

[1] Polyamide sheaves

Main boom (No. 1311.22)



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.

Boom section (No. 1311.22)	**3 m**
Width	1430 mm
Weight incl. pendant ropes	470 kg

Boom section (No. 1311.22)	**6 m**
Width	1430 mm
Weight incl. pendant ropes	730 kg

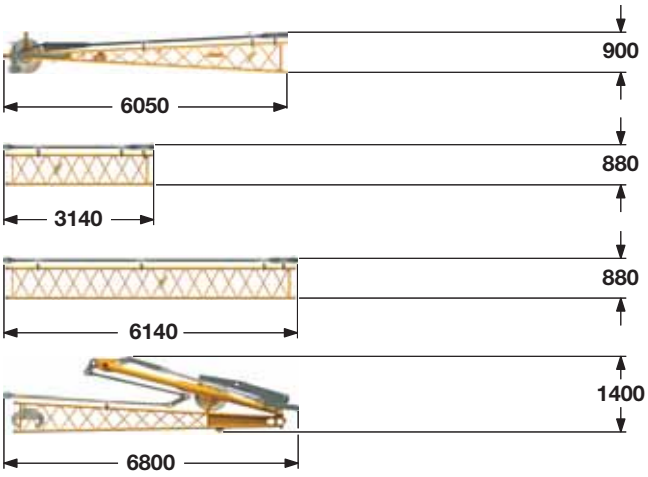
Boom section (No. 1311.21)	**12 m**
Width	1430 mm
Weight incl. pendant ropes	1260 kg

Boom head[1] (No. 1311.22)	
Width	1400 mm
Weight incl. pendant ropes	1610 kg

[1] Polyamide sheaves

Transport dimensions and weights

Fixed jib (No. 0806.xx)



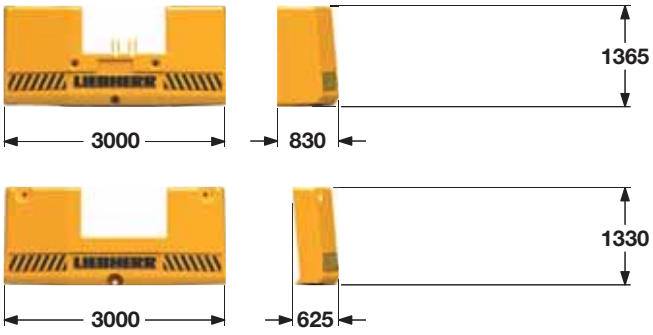
Fixed jib head (No. 0806.16)	
Width	1140 mm
Weight incl. pendant ropes	475 kg

Fixed jib section (No. 0806.15)	**3 m**
Width	950 mm
Weight incl. pendant ropes	150 kg

Fixed jib section (No. 0806.15)	**6 m**
Width	950 mm
Weight incl. pendant ropes	252 kg

Fixed jib foot with A-frame (No. 0806.16)	
Width	1500 mm
Weight incl. pendant ropes	1210 kg

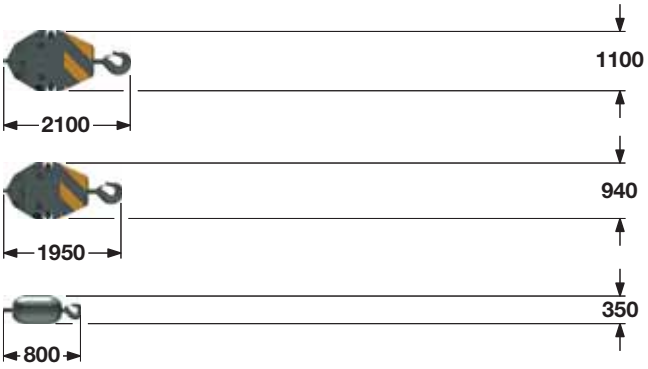
Counterweights



Counterweight I	**1x**
Width	830 mm
Weight	12600 kg

Counterweight II	**1x**
Width	625 mm
Weight	7400 kg

Hooks



60 t hook block – 1 sheave	
Width	350 mm
Weight	1100 kg

40 t hook block – 1 sheave	
Width	350 mm
Weight	515 kg

20 t single hook	
Width	350 mm
Weight	350 kg

Technical description

Engine

Power rating according to ISO 9249, 320 kW (429 hp) at 1700 rpm
Engine type — Liebherr D 936 A7–04
Fuel tank — 680 l capacity with continuous level indicator and reserve warning
Engine complies with NRMM exhaust certification EPA CARB Tier 4f and 97/68 EC Stage IV.

ECO-Silent-Mode:
For work not requiring high engine power, the diesel engine can be operated in the ECO-Silent-Mode (e.g. for inserting reinforcement cages, for dragline or lifting operation).
Due to the ECO-Silent-Mode which can be preselected by the operator the engine runs with optimum fuel efficiency. This lowers consumption and reduces noise emission.

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 signaled in the cabin.
Ready made hydraulic retrofit kits are available to customize requirements e.g. powering casing oscillators, VM vibrators, hydraulic grabs, fixed leaders etc.
Working pressure — max. 400 bar
Oil tank capacity — 880 l

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.
3-web grousers — 700 mm
Transport width — 3000 mm
Drive speed — 0 – 1.5 km/h
Option:
3-web grousers — 800 mm
Transport width — 3390 mm
Option:
- 2-speed hydraulic motor for higher travel speed

Noise emission

Noise emissions correspond with 2000/14/EC directive.
Guaranteed sound pressure level L_{PA} in the cabin — 72.9 dB(A)

Guaranteed sound power level L_{WA} — 108 dB(A)
Vibration transmitted to the hand-arm system of the machine operator — < 2.5 m/s²
Vibration transmitted to the whole body of the machine operator — < 0.5 m/s²

Main winches

Winch options:

Line pull (nom. load)	160 kN	200 kN
Rope diameter	26 mm	30 mm
Drum diameter	580 mm	630 mm
Rope speed	0-111 m/min	0-90 m/min
Rope capacity 1st layer	51.9 m	40 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 (1311.22)
Tagline winch — 30 kN with free fall

Control

The core of the Liebherr machines is the Litronic control system.
Developed and manufactured by Liebherr, this comprehensive system encompasses all control and monitoring functions and is designed to withstand extreme temperature changes and the rough heavy duty tasks common in the construction industry. Complete machine operating data, warnings and failure indications are clearly displayed in the required language on the high resolution monitor in the operator's cab.
Documentation of operating data (PDE) enables optimum diagnosis as well as early detection and prevention of more serious defects.
An electro-hydraulic proportional control allows several movements to be performed simultaneously. This ensures that all categories of loads can be positioned with utmost precision.
Options:
- PDE: Process data recording
- LiTU: Liebherr Telematics Unit
- Special demolition control system

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

Boom winch

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

Equipment

Casing oscillator and clamshell

Casing oscillator

Max. drilling diameter ——— 1800 mm

Load chart for grab operation

20 t counterweight (main boom No. 1311.18)

Capacities in metric tonnes for boom lengths (11 m - 32 m) - with 200 kN winches

	Boom length (m)								
Radius	11	14	17	20	23	26	29	32	Radius
(m)	t	t	t	t	t	t	t	t	(m)
5.3							24.5		5.3
6				29.9	30.3	28.5	24.5	21.0	6
7		26.5	26.5	26.5	26.5	26.5	24.5	21.0	7
8	21.8	21.8	21.9	21.8	21.8	21.8	21.8	21.0	8
9	18.5	18.5	18.5	18.5	18.5	18.5	18.4	18.4	9
10	16.0	16.0	16.1	16.0	16.0	16.0	15.9	15.9	10
14		10.2	10.2	10.2	10.2	10.2	10.1	10.0	14
16			8.6	8.5	8.5	8.5	8.4	8.4	16
20				6.3	6.3	6.2	6.2	6.1	20
22					5.5	5.5	5.4	5.3	22
24						4.8	4.8	4.7	24
28							3.8	3.7	28
30								3.3	30

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Max. capacities in metric tonnes do not exceed 66% of tipping load. Above load charts are for reference only and are not programmed in the LMI system.

Dynamic soil compaction

Dynamic soil compaction

Counterweight	20 t

Capacities in metric tonnes for boom lengths (20 m - 26 m)

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

Max. capacities in metric tonnes do not exceed 75% of tipping load. Above load charts are for reference only and are not programmed in the LMI system.

Equipment

Slurry wall grab

Maximum capacity in duty cycle operation with standard ropes

Line pull (1st layer)	kN	160	200
Rope diameter	mm	26	30
Minimum breaking load	kN	615	846
Line pull - 1-rope duty cycle operation	kN	160	200
Line pull - 2-rope duty cycle operation[1)]	kN	242	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 LMI 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

20 t counterweight (main boom No. 1311.18)

Capacities in metric tonnes for boom lengths (11 m - 32 m) - with 200 kN winches

	Boom length (m)								
Radius	**11**	**14**	**17**	**20**	**23**	**26**	**29**	**32**	**Radius**
(m)	t	t	t	t	t	t	t	t	(m)
6				29.9	30.3	28.5	24.5		6
7			29.0	28.1	27.6	27.2	24.5		7
8			24.6	24.6	24.3	23.5	22.7		8
9			20.9	20.8	20.8	20.6	19.6	18.5	9
10	18.0	18.1	18.1	18.0	18.0	17.7	17.3	16.3	10
12		14.1	14.1	14.1	14.1	13.7	13.2	12.8	12
14		11.5	11.5	11.5	11.4	11.1	10.9	10.6	14
16			9.6	9.6	9.6	9.5	9.4	9.2	16
18				8.2	8.2	8.1	8.1	8.0	18
20				7.0	7.1	7.0	7.0	6.9	20
22					6.2	6.1	6.1	6.0	22
24						5.4	5.4	5.3	24
26							4.7	4.7	26
28							4.2	4.1	28
30								3.7	30

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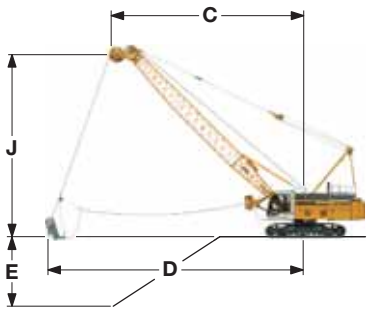
Max. lifting capacity with mechanical grab is 20 t. For higher lifting capacities a hydraulic grab is required.
Stability calculated according to EN 996:1995. Machine standing on firm, horizontal ground.



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

Load chart for dragline operation

20 t counterweight (main boom No. 1311.18)

Capacities in metric tonnes for boom lengths (14 m - 29 m) - with 200 kN winches

	Boom length (m)																		
	14			17			20			23			26			29			
alpha	C	J		C	J		C	J		C	J		C	J		C	J		alpha
	(m)	(m)	t	(m)	(m)	t	(m)	(m)	t	(m)	(m)	t	(m)	(m)	t	(m)	(m)	t	
45	11.9	11.3	**14.2**	14.1	13.4	**11.5**	16.2	15.6	**9.5**	18.3	17.7	**8.0**	20.4	19.8	**6.8**	22.5	21.9	**5.9**	45
40	12.7	10.4	**13.1**	15.0	12.3	**10.5**	17.3	14.2	**8.6**	19.6	16.2	**7.3**	21.9	18.1	**6.2**	24.2	20.0	**5.3**	40
35	13.4	9.4	**12.2**	15.9	11.1	**9.7**	18.3	12.8	**8.0**	20.8	14.5	**6.7**	23.2	16.2	**5.7**	25.7	18.0	**4.8**	35
30	14.0	8.3	**11.5**	16.6	9.8	**9.2**	19.2	11.3	**7.5**	21.8	12.8	**6.3**	24.4	14.3	**5.3**	27.0	15.8	**4.5**	30
25	14.5	7.2	**10.4**	17.3	8.5	**8.5**	20.0	9.7	**7.1**	22.7	11.0	**5.9**	25.4	12.3	**5.0**	28.1	13.5	**4.2**	25

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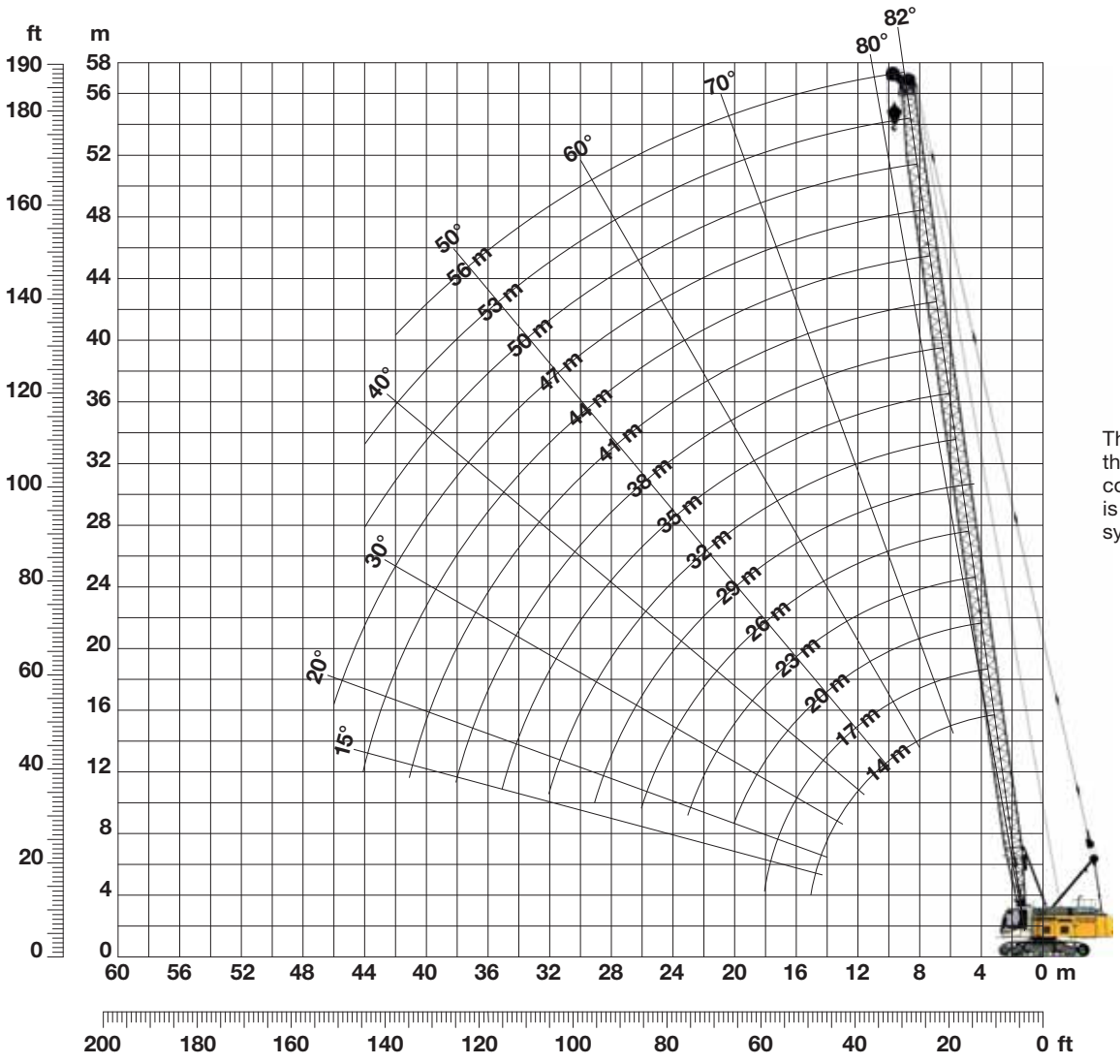
Max. capacities in metric tonnes do not exceed 75% of tipping load. Above load charts are for reference only and are not programmed in the LMI system. The size of the bucket has to be determined according to local conditions.

Working range - main boom 82° – 15°

with 20.0 t counterweight (main boom No. 1311.18)



Auxiliary jib 16 t

The maximum capacity of the auxiliary jib is 16 t. The corresponding load chart is programmed in the LMI system.

Main boom configuration
from 11 m to 56 m (Table 1 - No. 1311.18)

	Length	Configuration for boom lengths															
Boom foot	5.5 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom section	3.0 m		1		1		1		1		1		1		1		1
Boom section	6.0 m			1	1			1	1			1	1			1	1
Boom section	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**
Auxiliary jib applicable		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			

Load chart for lifting operation

with 12.3 t counterweight and 20.0 t counterweight (main boom No. 1311.18)

Capacities in metric tonnes for boom lengths (11 m - 50 m) - with 200 kN winches and 12.3 t counterweight

	Boom length (m)														
Radius	11	14	17	20	23	26	29	32	35	38	41	44	47	50	Radius
(m)	t	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	30.8										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	20.5	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	14.1	13.6	13.2	12.7	12.3	11.8	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	11.0	10.6	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	8.6	12
14		9.0	9.1	9.0	9.0	8.9	8.9	8.7	8.4	8.1	7.9	7.6	7.3	7.1	14
16			7.5	7.4	7.4	7.4	7.3	7.2	7.1	6.9	6.6	6.4	6.2	5.9	16
18			6.3	6.3	6.3	6.2	6.1	6.0	6.0	5.8	5.6	5.4	5.2	5.0	18
20				5.3	5.3	5.3	5.2	5.1	5.0	5.0	4.8	4.6	4.4	4.2	20
22					4.6	4.5	4.5	4.4	4.3	4.2	4.1	4.0	3.8	3.6	22
24						3.9	3.9	3.8	3.7	3.6	3.5	3.4	3.2	3.0	24
26						3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.6	26
28							2.9	2.8	2.8	2.7	2.6	2.5	2.4	2.2	28
30								2.4	2.4	2.3	2.2	2.1	2.0		30
32								2.1	2.1						32

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Capacities in metric tonnes for boom lengths (11 m - 56 m) - with 200 kN winches and 20 t counterweight

	Boom length (m)																
Radius	11	14	17	20	23	26	29	32	35	38	41	44	47	50	53	56	Radius
(m)	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	t	(m)
5.4						32.0											5.4
6				34.7	33.3	32.0	30.7										6
7	31.5	31.5	30.3	29.1	28.1	27.1	26.1	25.2	24.3								7
8	26.0	26.0	25.9	25.0	24.2	23.4	22.7	21.9	21.2	20.6	19.9	19.3					8
9	22.0	22.0	22.1	21.9	21.2	20.6	20.0	19.3	18.8	18.2	17.6	17.1	16.6	15.7			9
10	19.0	19.1	19.1	19.0	18.9	18.3	17.8	17.3	16.8	16.3	15.9	15.4	14.9	14.5	13.6	11.7	10
12	14.9	15.0	15.0	14.9	14.9	14.9	14.6	14.2	13.8	13.4	13.0	12.7	12.3	11.9	11.5	11.1	12
14		12.1	12.2	12.1	12.1	12.0	12.0	11.9	11.6	11.3	10.9	10.6	10.3	10.0	9.7	9.4	14
16			10.2	10.1	10.1	10.0	10.0	9.9	9.8	9.6	9.3	9.1	8.8	8.5	8.3	8.0	16
18			8.6	8.6	8.6	8.5	8.5	8.4	8.3	8.2	8.1	7.8	7.6	7.4	7.1	6.9	18
20				7.4	7.4	7.3	7.3	7.2	7.1	7.0	6.9	6.8	6.6	6.4	6.1	5.9	20
22					6.5	6.4	6.3	6.2	6.2	6.1	6.0	5.9	5.8	5.5	5.3	5.1	22
24						5.6	5.6	5.5	5.4	5.3	5.2	5.1	5.0	4.8	4.6	4.4	24
26						5.0	4.9	4.8	4.8	4.7	4.6	4.5	4.4	4.3	4.0	3.8	26
28							4.4	4.3	4.2	4.1	4.0	3.9	3.8	3.7	3.6	3.3	28
30								3.8	3.7	3.6	3.5	3.4	3.4	3.3	3.1	2.9	30
32								3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	32
34									3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.2	34
36										2.5	2.5	2.3	2.3	2.2	2.1		36
38										2.2	2.2	2.1					38

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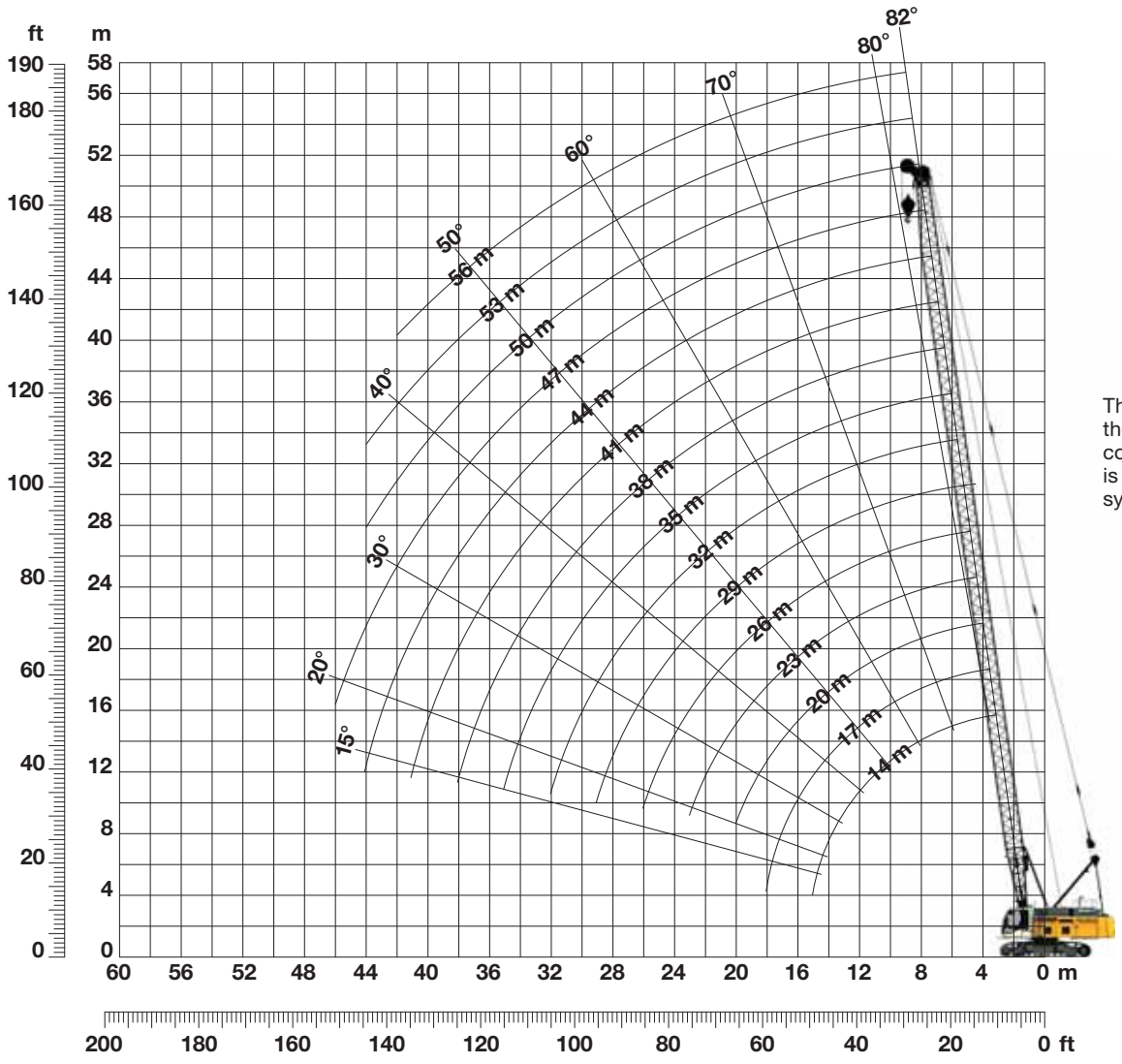
Above load charts are for reference only. For actual lift duty please refer to load chart in operator's cab or manual. Load charts for lifting operation are valid with classification according to ISO 4301-1/1986, group A1.

Working range - main boom 82° – 15°

with 20.0 t counterweight (main boom No. 1311.22)



Auxiliary jib 20 t

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

Main boom configuration
from 11 m to 50 m (Table 1 - No. 1311.22)

	Length	Configuration for boom lengths													
Boom foot	5.5 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom section	3.0 m		1		1		1		1		1		1		1
Boom section	6.0 m			1	1	2	2	1	1	2	2	1	1	2	2
Boom section	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**
Auxiliary jib applicable		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			

Load chart for lifting operation

with 12.3 t counterweight and 20.0 t counterweight (main boom No. 1311.22)

Capacities in metric tonnes for boom lengths (11 m - 41 m) - with 200 kN winches and 12.3 t counterweight

	Boom length (m)											
Radius	11	14	17	20	23	26	29	32	35	38	41	Radius
(m)	t	t	t	t	t	t	t	t	t	t	t	(m)
3.4	65.7(70*)											3.4
4	51.4	47.8										4
5	37.8	35.6	33.7	32.0	30.0							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	1.2	32
34									1.0			34

TLT 9837087 - M 96154 offiziell

*) with 800 mm 3-web grousers

Capacities in metric tonnes for boom lengths (11 m - 50 m) - with 200 kN winches and 20 t counterweight

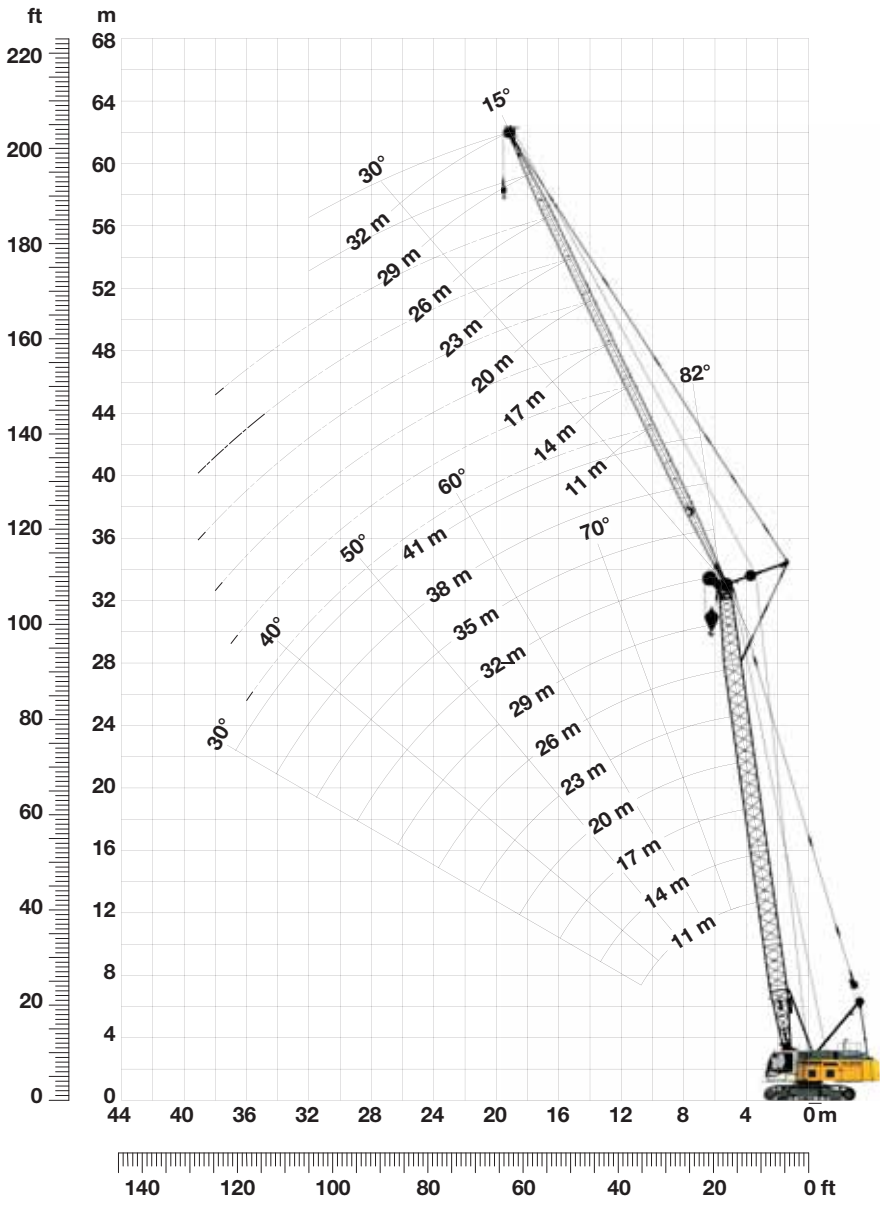
	Boom length (m)														
Radius	11	14	17	20	23	26	29	32	35	38	41	44	47	50	Radius
(m)	t	t	t	t	t	t	t	t	t	t	t	t	t	t	(m)
4.2			54.0												4.2
5	32.0	46.9	44.4	42.1	32.0										5
6	39.2	37.3	35.6	34.1	32.6	31.2	30.0								6
7	31.0	30.9	29.7	28.5	27.4	26.3	25.5	24.5	23.6						7
8	25.5	25.5	25.3	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	13.6	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

TLT 9837087 - M 96154 offiziell

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

Working range - fixed jib 15° and 30°

Main boom 82° - 30° (fixed jib No. 0806.xx)



Fixed jib configuration

for fixed jib lengths from 11 m to 32 m

Boom configuration (No. 1311.18) for boom lengths (11 - 41 m) - see table 1, page 10

	Length	Configuration for fixed jib lengths							
Fixed jib foot	5.5 m	1	1	1	1	1	1	1	1
Fixed jib section	3.0 m		1		1		1		1
Fixed jib section	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**

Load chart - fixed jib

Offset 15° (fixed jib No. 0806.xx)

Main boom 11 m

	Fixed jib length (m)			
Radius	11	20	26	32
(m)	t	t	t	t
6.2	24.4			
11	17.1	9.8		
14	12.3	8.4	5.9	
17	9.5	7.3	5.6	3.9
18	8.8	7.0	5.6	3.9
19	8.1	6.6	5.5	3.9
20	7.6	6.2	5.3	3.8
24		5.2	4.6	3.7
28		4.4	3.9	3.4
32			3.3	3.0
34			3.1	2.8
40				2.2

Main boom 14 m

	Fixed jib length (m)			
Radius	11	20	26	32
(m)	t	t	t	t
6.7	24.1			
12	15.1	8.7		
14	12.2	7.5	5.4	
17	9.4	6.4	5.1	3.9
18	8.6	6.1	4.9	3.8
20	7.4	5.6	4.6	3.6
22	6.5	5.1	4.3	3.4
24		4.7	4.0	3.2
28		4.0	3.4	2.9
32		3.5	2.9	2.5
34			2.7	2.4
38			2.4	2.0

Main boom 17 m

	Fixed jib length (m)			
Radius	11	20	26	32
(m)	t	t	t	t
7.1	22.7			
12	14.9	8.2		
15	11.0	6.5	5.2	
18	8.5	5.5	4.5	3.8
20	7.3	5.0	4.1	3.5
24	5.6	4.2	3.4	3.0
26	4.9	3.9	3.2	2.7
28		3.6	2.9	2.5
32		3.2	2.5	2.1
34		3.0	2.4	
36			2.3	
40			2.0	

Main boom 23 m

	Fixed jib length (m)			
Radius	11	20	26	32
(m)	t	t	t	t
7.9	19.4			
13	12.8	6.9		
16	9.9	5.7	4.4	
19	7.7	5.0	3.9	3.2
20	7.1	4.7	3.7	3.1
24	5.3	4.1	3.2	2.6
28	4.1	3.5	2.8	2.2
30	3.6	3.3	2.6	2.1
32		3.1	2.4	
34		3.0	2.3	
38		2.5	2.0	
40		2.2		

Main boom 29 m

	Fixed jib length (m)			
Radius	11	20	26	32
(m)	t	t	t	t
9	17.7			
14	11.0	6.2		
17	8.7	5.4	4.1	
20	6.9	4.8	3.6	2.9
24	5.1	4.1	3.2	2.5
26	4.4	3.9	2.9	2.3
28	3.9	3.6	2.7	2.2
30	3.4	3.4	2.6	2.0
32	3.0	3.3	2.4	
34	2.6	2.9	2.3	
36	2.3	2.6	2.2	
38		2.3	2.1	

Main boom 32 m

	Fixed jib length (m)			
Radius	11	20	26	32
(m)	t	t	t	t
9.2	16.7			
14	10.7	6.2		
17	8.4	5.4	4.0	
20	6.7	4.8	3.6	2.8
24	5.0	4.2	3.1	2.5
26	4.3	3.9	2.9	2.3
28	3.7	3.7	2.7	2.2
30	3.3	3.5	2.6	2.0
32	2.8	3.2	2.5	
34	2.5	2.8	2.3	
36	2.1	2.5	2.2	
38		2.1	2.1	

Main boom 35 m

	Fixed jib length (m)			
Radius	11	20	26	29
(m)	t	t	t	t
9.6	15.9			
14	10.4	6.0		
17	8.1	5.4	3.9	
19	7.0	5.0	3.7	3.3
20	6.5	4.8	3.6	3.1
24	4.9	4.2	3.1	2.8
28	3.7	3.8	2.8	2.5
30	3.2	3.5	2.6	2.3
32	2.7	3.1	2.5	2.2
34	2.4	2.7	2.4	2.1
36	2.0	2.4	2.2	
38		2.1	2.1	

Main boom 38 m

	Fixed jib length (m)			
Radius	11	17	20	
(m)	t	t	t	
10	14.8			
13	11.0	8.0		
15	9.2	7.4	5.8	
16	8.5	7.0	5.6	
18	7.3	6.5	5.2	
20	6.2	5.9	4.8	
24	4.7	4.9	4.3	
28	3.5	3.7	3.8	
30	3.0	3.3	3.3	
32	2.6	2.9	2.9	
34	2.2	2.5	2.6	
36		2.2	2.2	

Main boom 41 m

	Fixed jib length (m)			
Radius	11	14		
(m)	t	t		
10.4	13.7			
12	11.7	10.6		
14	9.7	9.8		
16	8.2	8.3		
18	7.0	7.1		
20	6.0	6.1		
24	4.5	4.6		
26	3.9	4.0		
28	3.4	3.5		
30	2.9	3.0		
32	2.5	2.6		
34	2.1	2.2		

TLT 9843118 - M 109275 offiziell

Capacities in metric tonnes with fixed jib (No. 0806.xx) and 20 t counterweight. Above load charts are for reference only. For actual lift duty please refer to load chart in operator's cab or manual. Load charts for lifting operation are valid with classification according to ISO 4301-1/1986, group A1.

Load chart - fixed jib

Offset 30° (fixed jib No. 0806.xx)

Main boom 11 m

	Fixed jib length (m)			
Radius	11	20	26	32
(m)	t	t	t	t
8.8	13.8			
16	8.7	5.7		
18	8.0	5.4		
20	7.6	5.0	4.0	
24		4.4	3.6	2.9
26		4.2	3.5	2.8
28		4.0	3.3	2.7
30		3.9	3.1	2.6
32			2.9	2.4
34			2.8	2.3
36			2.7	2.2
38				2.0

Main boom 14 m

	Fixed jib length (m)			
Radius	11	20	26	32
(m)	t	t	t	t
9.2	12.4			
16	8.4	5.2		
20	7.2	4.5	3.5	
22	6.5	4.2	3.3	
24	5.7	3.9	3.2	2.5
26		3.7	3.0	2.4
28		3.5	2.8	2.3
30		3.4	2.7	2.2
32		3.3	2.5	2.1
34			2.4	
36			2.3	
38			2.3	

Main boom 17 m

	Fixed jib length (m)			
Radius	11	20	26	32
(m)	t	t	t	t
9.7	12.9			
16	8.4	4.7		
18	7.6	4.4		
20	7.0	4.1		
22	6.5	3.8	3.0	
24	5.6	3.6	2.8	
26	4.9	3.4	2.6	2.1
28		3.2	2.5	
30		3.0	2.3	
32		2.9	2.2	
34		2.8	2.1	
36			2.0	

Main boom 23 m

	Fixed jib length (m)			
Radius	11	20	26	
(m)	t	t	t	
10.5	11.0			
17	7.7	4.0		
20	6.9	3.7		
22	6.3	3.5	2.6	
24	5.5	3.3	2.5	
26	4.8	3.1	2.3	
28	4.2	2.9	2.2	
30	3.7	2.8	2.1	
32		2.7	2.0	
34		2.6		
36		2.5		
40		2.3		

Main boom 29 m

	Fixed jib length (m)			
Radius	11	20	26	
(m)	t	t	t	
11.3	10.0			
18	7.5	3.7		
22	6.1	3.3	2.5	
24	5.3	3.2	2.3	
26	4.6	3.0	2.2	
28	4.0	2.9	2.1	
30	3.5	2.8	2.0	
32	3.1	2.7		
34	2.7	2.6		
36	2.3	2.5		
38		2.4		
40		2.1		

Main boom 32 m

	Fixed jib length (m)			
Radius	11	20	26	
(m)	t	t	t	
11.8	9.6			
19	7.3	3.6		
20	7.0	3.5		
24	5.2	3.2	2.3	
26	4.5	3.0	2.2	
28	3.9	2.9	2.1	
30	3.4	2.8	2.0	
32	3.0	2.7		
34	2.6	2.6		
36	2.2	2.5		
38		2.3		
40		2.0		

Main boom 35 m

	Fixed jib length (m)			
Radius	11	20	26	
(m)	t	t	t	
12.2	9.3			
18	7.6			
19	7.3	3.5		
20	6.8	3.4		
24	5.1	3.2	2.3	
26	4.4	3.0	2.2	
28	3.8	2.9	2.1	
30	3.3	2.8		
32	2.9	2.7		
34	2.5	2.6		
36	2.1	2.5		
38		2.2		

Main boom 38 m

	Fixed jib length (m)			
Radius	11	17	20	23
(m)	t	t	t	t
12.6	9.0			
17	7.9	4.4		
19	7.1	4.2	3.4	
22	5.7	3.9	3.3	2.7
24	5.0	3.8	3.1	2.6
26	4.3	3.7	3.0	2.5
28	3.7	3.5	2.9	2.4
30	3.2	3.4	2.8	2.4
32	2.8	3.1	2.7	2.3
34	2.4	2.7	2.6	2.2
36	2.0	2.4	2.5	2.1
38		2.0	2.2	2.0

Main boom 41 m

	Fixed jib length (m)			
Radius	11	14		
(m)	t	t		
13	8.8			
16	8.1	5.6		
18	7.4	5.4		
20	6.4	5.2		
22	5.5	5.0		
24	4.8	4.8		
26	4.1	4.3		
28	3.6	3.8		
30	3.1	3.3		
32	2.7	2.8		
34	2.3	2.5		
36		2.1		

TLT 9843118 - M 4109275 offiziell

Capacities in metric tonnes with fixed jib (No. 0806.xx) and 20 t counterweight. Above load charts are for reference only. For actual lift duty please refer to load chart in operator's cab or manual. Load charts for lifting operation are valid with classification according to ISO 4301-1/1986, group A1.

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Liebherr-Werk Nenzing GmbH
Dr. Hans Liebherr Str. 1, 6710 Nenzing/Austria
Tel.: +43 50809 41–473, Fax: +43 50809 41–499
crawler.crane@liebherr.com, www.liebherr.com
facebook.com/LiebherrConstruction