

Construction Machine

HS 8130 HD
Litronic[®]

enUS

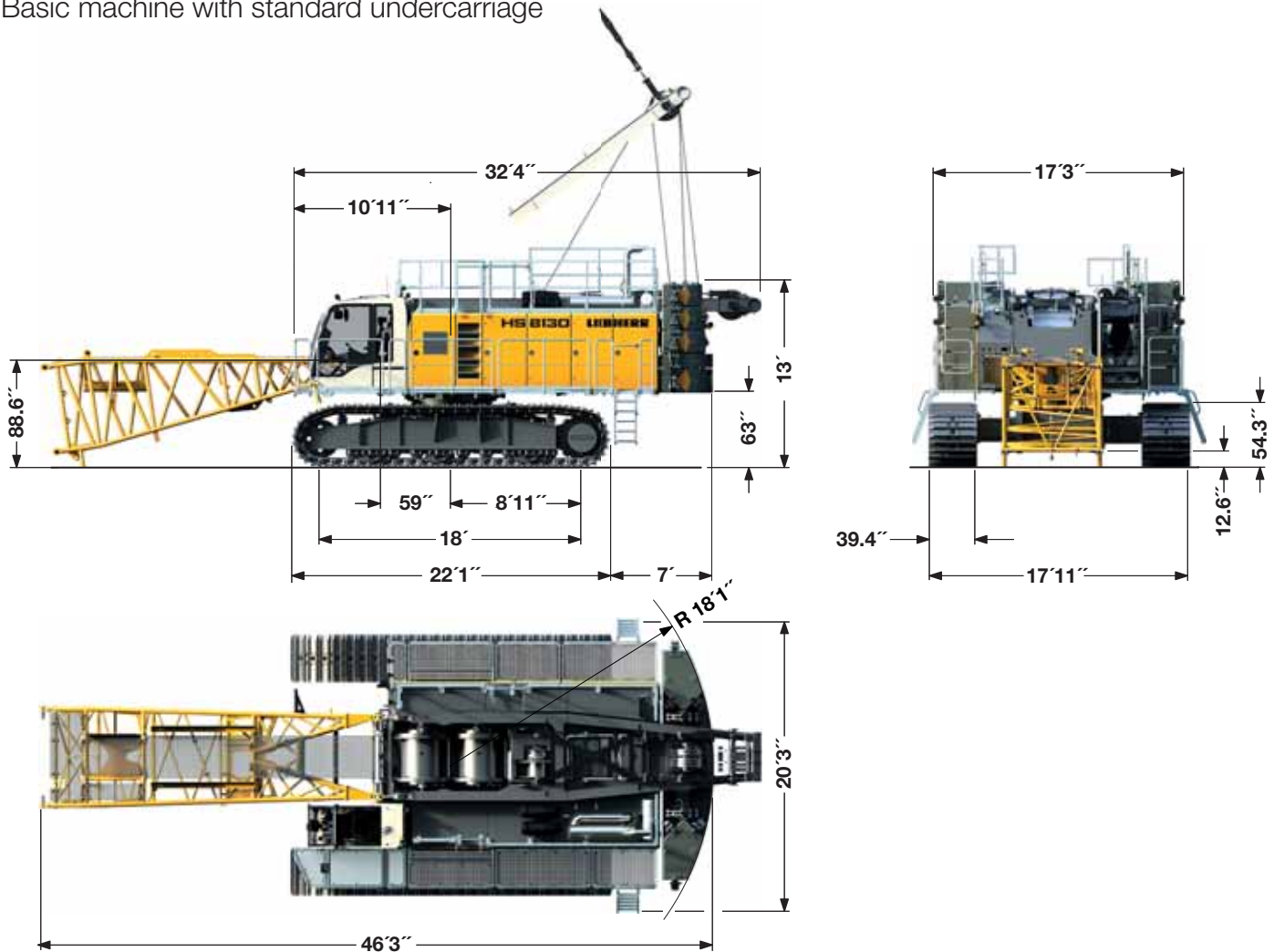
HS 8005.01



LIEBHERR

Dimensions

Basic machine with standard undercarriage



Operating weight

The operating weight includes the basic machine with standard undercarriage, 2 main winches 78,685 lbf including wire ropes (295 ft), and 46 ft main boom, consisting of A-frame, boom foot (23 ft) and boom head (23 ft), 63,935 lbs basic counterweight, 39.4 inch 2-web grousers and 110,230 lbs hook block.

Total weight _____ approx. 255,736 lbs

Ground pressure

Ground bearing pressure _____ 15.07 PSI

Equipment

Main boom (No. 2018.33) max. length _____ 174 ft
Modular designed equipment for lifting operation, with dragline or clamshell.

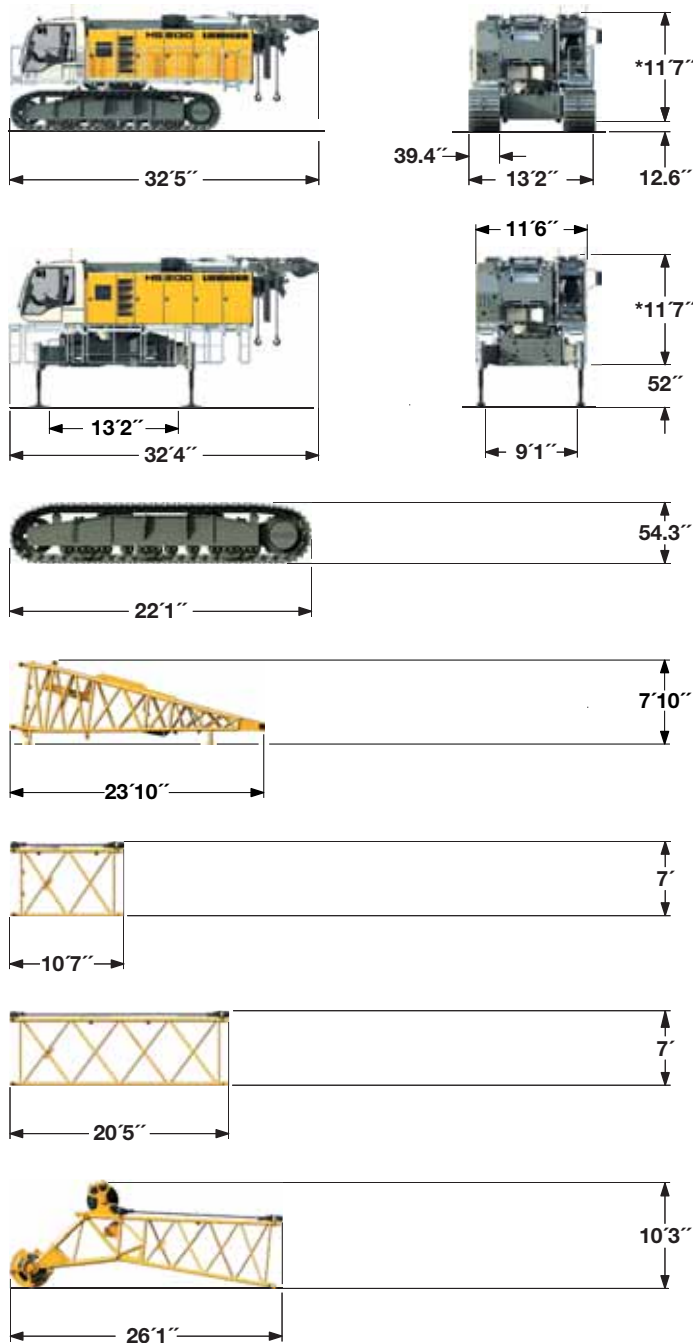
For dragline operation, a rotating fairlead is fitted into the boom foot. This minimizes the rope angle to drum, which results in lower rope wear.

Remarks

1. Liebherr cable excavator HS 8005.01
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 with standard undercarriage and boom (No. 2018.33)



Basic machine

with HD undercarriage, A-frame, 2x 78,800 lbs winches and self-assembly system for counterweight, without boom foot, and basic counterweight. Machine is ready for operation.

Width	13'2"
Weight without hoist rope	171,960 lbs
Weight of hoist rope (2x 295 ft)	4.338 lbs/ft

Basic machine

with A-frame, self-assembly system, 2x 78,800 lbs winches without boom foot, basic counterweight and crawlers. Machine is ready for operation.

Width	11'6"
Weight without hoist rope	112,436 lbs
Weight of hoist rope (2x 295 ft)	4.338 lbs/ft

Crawler

2x

2-web grousers	39.4 inch
Width	41.5 inch
Weight	32,850 lbs

Boom foot (No. 2018.33)

23 ft

Width	8'3"
Weight incl. pendant ropes	7,090 lbs

Boom section (No. 2018.33)

10 ft

Width	6'11"
Weight incl. pendant ropes	1,655 lbs

Boom section (No. 2018.33)

20 ft

Width	6'11"
Weight incl. pendant ropes	2,715 lbs

Boom head (No. 2018.33)

23 ft

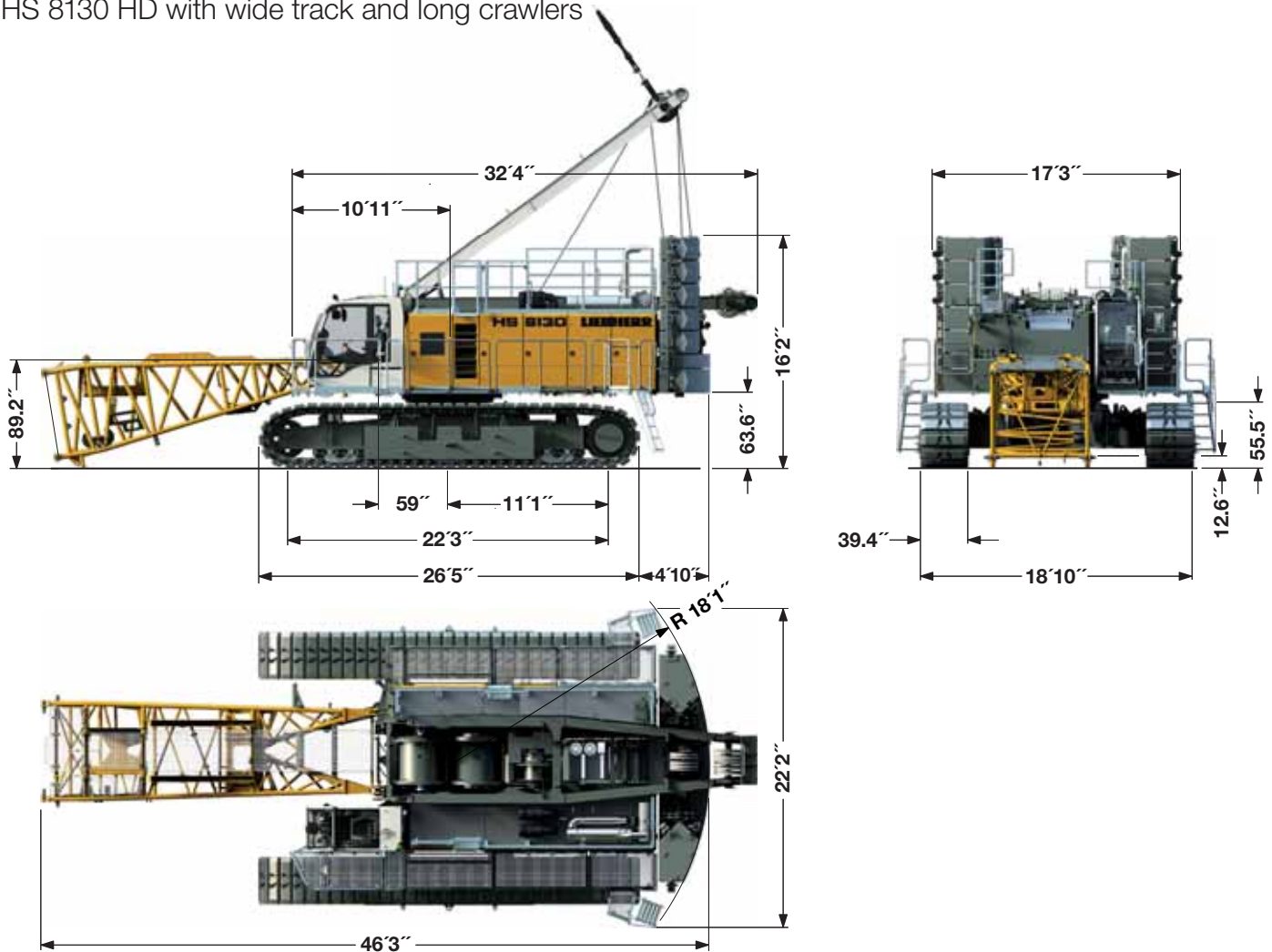
Width	6'11"
Weight incl. pendant ropes	8,710 lbs

*) 114" with diesel engines for countries with little regulation, compliant with emissions level according to regulation ECE-R.96 H.

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.

Dimensions

HS 8130 HD with wide track and long crawlers



Operating weight

The operating weight includes the basic machine with wide track and long crawlers undercarriage, 2 main winches 78,685 lbf including wire ropes (295 ft), and 46 ft main boom, consisting of A-frame, boom foot (23 ft) and boom head (23 ft), 63,935 lbs basic counterweight, 39.4 inch track pads and 110,230 lbs hook block.

Total weight _____ approx. 257,940 lbs

Ground pressure

Ground bearing pressure _____ 12.2 PSI

Equipment

Main boom (No. 2018.33) max. length _____ 184 ft
Modular designed equipment for lifting operation, with dragline or clamshell.

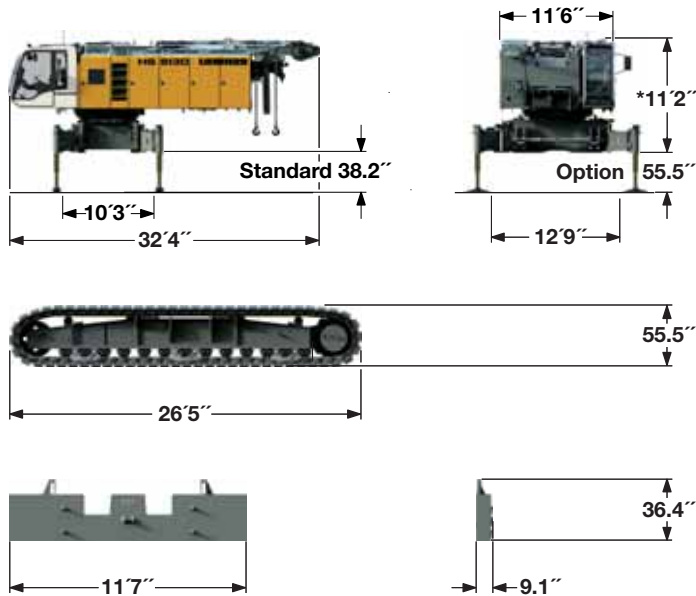
For dragline operation, a rotating fairlead is fitted into the boom foot. This minimizes the rope angle to drum, which results in lower rope wear.

Remarks

1. Liebherr cable excavator HS 8005.01
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

HS 8130 HD with wide track and long crawlers



Basic machine

with A-frame, self-assembly system, 2x 78,800 lbs winches without boom foot, basic counterweight and crawlers. Machine is ready for operation.

Width	11'6"
Weight without hoist rope	94,800 lbs
Weight of hoist rope (2x 295 ft)	4.338 lbs/ft

Crawler

2x

Track pads	39.4 inch
Width	40.9 inch
Weight	41,447 lbs

Carbody counterweight

2x

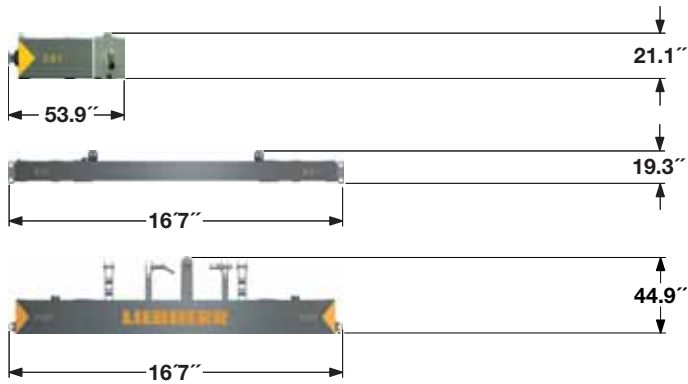
Width	9.1 inch
Weight	7,815 lbs

*) 114" with diesel engines for countries with little regulation, compliant with emissions level according to regulation ECE-R.96 H.

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.

Transport dimensions and weights

Counterweights



Counterweight (option 6x) 4x

Width	33 inch
Weight	5,901 lbs

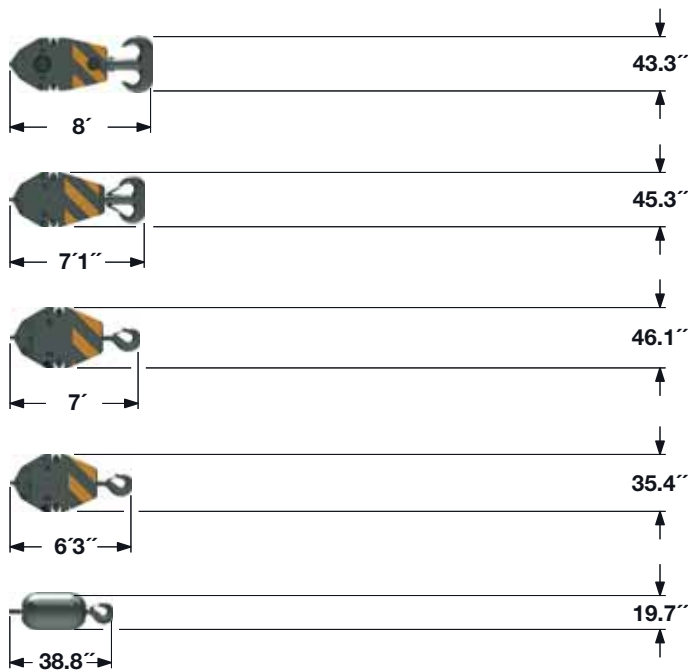
Counterweight 1x

Width	4'
Weight	13,890 lbs

Counterweight 1x

Width	4'
Weight	26,455 lbs

Hooks



352,740 lbs hook block – 3 sheaves

Width	16.5 inch
Weight	4,435 lbs

220,465 lbs hook block – 2 sheaves

Width	10.6 inch
Weight	2,645 lbs

176,370 lbs hook block – 1 sheave

Width	9.7 inch
Weight	2,645 lbs

110,230 lbs hook block – 1 sheave

Width	9.1 inch
Weight	1,654 lbs

77,160 lbs single hook

Width	19.7 inch
Weight	1,765 lbs

Technical description



Engine

Power rating according to ISO 9249, 505 kW (677 hp) at 1700 rpm
Engine type _____ Liebherr D 9508 A7-04
Fuel tank _____ 203.4 gal capacity with continuous level
_____ indicator and reserve warning
AdBlue tank _____ 25.4 gal 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.

Option:

Engine with power reduction to 495 kW (QPME Ready)



Hydraulic system

The 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. 5076 PSI

Oil tank capacity _____ 309 gal



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 0-3.8 rpm continuously variable, selector for 3 speed ranges to increase swing precision.



Noise emission

Noise emissions correspond with 2000/14/EC directive.

Guaranteed sound pressure level L_{PA} in the cabin _____ 75.7 dB(A)

Guaranteed sound power level L_{WA} _____ 110 dB(A)

Vibration transmitted to the hand-arm system of the

machine operator _____ < 8.20. ft/s²

Vibration transmitted to the whole body of the

machine operator _____ < 1.64 ft/s²



Main winches

Winch options:

Line pull (nom. load) _____ 78,700 lbf

Rope diameter _____ 36 mm

Drum diameter _____ 32.7 inch

Rope speed _____ 0-315 ft/min

Rope capacity 1st layer _____ 154 ft

Rope capacity in 4 layers (useable length) _____ 771 ft

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 _____ 15,750 lbf in boom foot

Tagline winch _____ 6,750 lbf with free fall

Tagline winch _____ 15,750 lbf 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
- Piling control / chisel control



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.

2-web grousers _____ 39.4 inch

Drive speed _____ 0 - 0.8 mph

Option:

- Self-assembly system, jack-up system

HS 8130 HD with wide track and long crawlers:

Track pads _____ 39.4 inch

Drive speed _____ 0 - 0.8 mph

Option:

- Self-assembly system, jack-up system



Boom winch

Line pull _____ max. 37,095 lbf

Rope diameter _____ 24 mm

Boom up _____ 56 sec. from 15° to 84°

Equipment

Casing oscillator and clamshell



Casing oscillator

Max. drilling diameter ————— 10.8 ft

Load chart for grab operation

Max. 75,620 lbs counterweight – standard undercarriage recommended (main boom No. 2018.33)

Capacities in 1000 lbs for boom lengths (66 ft - 125 ft)

Radius (ft)	Boom length (ft)							Radius (ft)
	66 lbs	75 lbs	85 lbs	95 lbs	105 lbs	115 lbs	125 lbs	
18.4			115.0					18.4
20	116.8	116.8	112.1	109.8				20
25	116.8	114.1	102.4	99.5	85.4	82.2	72.0	25
30	92.8	92.7	92.6	90.0	78.0	74.8	65.2	30
40	61.6	61.4	61.3	61.1	60.9	59.9	54.9	40
50	45.0	44.9	44.8	44.5	44.3	43.2	42.0	50
60	34.7	34.6	34.5	34.2	33.6	32.5	31.2	60
70	23.7	27.5	27.5	27.2	27.0	26.2	25.3	70
75		24.7	24.7	24.5	24.3	23.7	23.1	75
85			20.0	19.7	19.4	18.9	18.4	85
95				14.4	14.2	13.7	13.3	95
105					9.8	9.4	9.1	105
115						5.8	5.5	115
125							2.5	125

TLT 11313556 M180655 V1

Max. capacities in metric tonnes do not exceed 66.7% of tipping load. Capacities are for reference only and are not programmed in the LMI system.

Max. lifting capacity with mechanical grab is 77,200 lbs. For higher lifting capacities a hydraulic grab is required.

Dynamic soil compaction



Dynamic soil compaction

Counterweight ————— 63,935 lbs

Load chart for grab operation

Max. 75,620 lbs counterweight – standard undercarriage recommended (main boom No. 2018.33)

Capacities in 1000 lbs for boom lengths (66 ft – 115 ft)

Radius (ft)	Boom length (ft)					
	66 lbs	75 lbs	85 lbs	95 lbs	405 lbs	115 lbs
26.2	75.2	74.7	66.8	64.8	55.3	
29.5	65.7	65.5	63.3	60.6	52.7	50.3
32.8		56.2	56.2	56.0	49.4	47.4
36.1			48.9	48.7	46.1	44.8

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 82 ft.

Equipment

Slurry wall grab

Maximum capacity in duty cycle operation with standard ropes

Line pull (1st layer)	lbf-ft	78,700
Rope diameter	mm	36
Minimum breaking load	lbf	274,267
Line pull - 1-rope duty cycle operation	lbf	78,685
Line pull - 2-rope duty cycle operation ¹⁾	lbf	119,147

- 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. Max. capacities in metric tonnes do not exceed 75% of tipping 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. catwalks, hose drums etc.) must be deducted to get the net capacity.



Load chart for slurry wall operation

Max. 75,620 lbs counterweight – standard undercarriage recommended (main boom No. 2018.33)

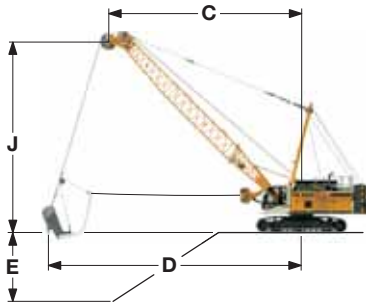
Capacities in 1000 lbs for boom lengths (46 ft - 125 ft)

Radius (ft)	Boom length (ft)									Radius (ft)
	46 lbs	56 lbs	66 lbs	75 lbs	85 lbs	95 lbs	105 lbs	115 lbs	125 lbs	
18.4					115.0					18.4
20		116.8	116.8	116.8	112.1	109.8				20
25	110.4	110.7	110.8	110.8	102.4	99.5	85.4	82.2	72.0	25
30	84.1	84.3	84.3	84.3	84.2	84.1	78.0	74.8	65.2	30
35	67.3	67.5	67.6	67.5	67.4	67.2	67.0	66.9	59.6	35
40	55.7	55.9	56.0	55.9	55.7	55.6	55.4	55.2	54.9	40
45	47.1	47.4	47.4	47.3	47.2	47.0	46.8	46.6	46.3	45
50	40.4	40.8	40.9	40.8	40.7	40.5	40.3	40.0	39.8	50
60		30.9	31.5	31.5	31.4	31.1	30.9	30.7	30.4	60
65			28.0	28.0	27.9	27.7	27.5	27.2	26.9	65
70			23.7	25.0	25.0	24.8	24.6	24.3	24.0	70
75				22.5	22.5	22.3	22.1	21.8	21.5	75
80					20.3	20.1	19.9	19.6	19.4	80
85					18.4	18.2	18.0	17.8	17.5	85
90						16.5	16.4	16.1	15.7	90
95						14.4	14.2	13.7	13.3	95
100							11.9	11.5	11.1	100
105							9.8	9.4	9.1	105
115								5.8	5.5	115
125									2.5	125

TLT 11913213 M00000 V1

Max. lifting capacity with mechanical grab is 77,200 lbs. For higher lifting capacities a hydraulic grab is required. Stability calculated according to EN 996:1995. Machine standing on firm, horizontal ground.

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



Load chart for dragline operation

Max. 75,620 lbs counterweight – standard undercarriage recommended (main boom No. 2018.33)

Capacities in 1000 lbs for boom lengths (46 ft - 115 ft)

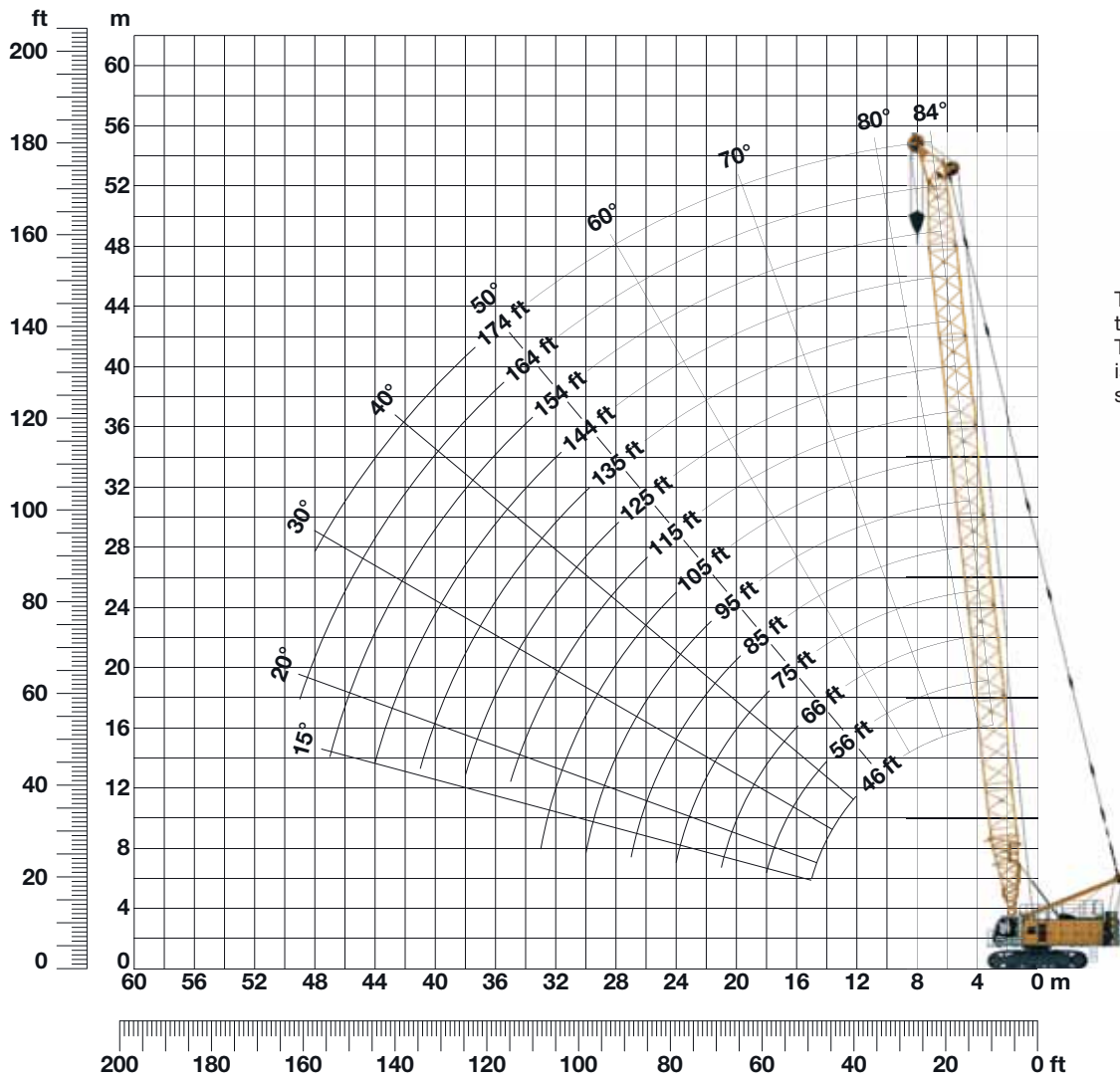
alpha	Boom length (ft)																		alpha
	46		66		85		95		105		115								
	C	J																	
	(ft)	(ft)	(lbs)	(ft)	(ft)	(lbs)	(ft)	(ft)	(lbs)	(ft)	(ct)	(lbs)	(ft)	(ft)	(lbs)	(ft)	(ft)	(lbs)	
55	35.3	42.4	83.3	46.6	58.5	56.5	57.8	74.6	37.9	63.5	82.7	32.0	69.1	90.7	27.5	74.8	98.8	23.8	55
50	38.3	39.7	74.1	50.9	54.8	49.8	63.6	69.9	32.7	69.9	77.4	28.1	76.2	84.9	24.2	82.6	92.5	20.3	50
45	41.0	36.8	67.2	55.0	50.7	44.0	68.9	64.6	29.3	75.8	71.6	25.0	82.8	78.5	20.7	89.8	85.5	16.3	45
40	43.5	33.6	61.8	58.6	46.3	39.8	73.7	58.9	26.9	81.2	65.3	22.0	88.8	71.6	17.3	96.3	77.9	13.1	40
35	45.7	30.3	57.5	61.9	41.6	36.1	78.0	52.9	24.6	86.1	58.5	19.1	94.1	64.2	14.6	102.2	69.8	10.6	35
30	47.7	26.7	54.2	64.7	36.6	33.4	81.7	46.4	22.1	90.3	51.4	16.8	98.8	56.3	12.4	107.3	61.2	8.6	30
25	49.2	23.1	48.1	67.1	31.4	29.3	84.9	39.7	20.1	93.9	43.9	15.0	102.8	48.0	10.7	111.7	52.2	7.0	25

TLT 11313558 M180655 V1

Max. capacities in 1000 lbs do not exceed 75% of tipping load. 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.

Working range - main boom 84° - 15°

Basic machine with standard undercarriage



Auxiliary jib 79,400 lbs



The maximum capacity of the auxiliary jib is 79,400 lbs. The corresponding load chart is programmed in the LMI system.

Main boom configuration

from 46 ft to 174 ft (Table 1 - No. 2018.33)

	Length*	Configuration for boom lengths													
		46	56	66	75	85	95	105	115	125	135	144	154	164	174
Boom foot	23 ft	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom section	10 ft		1		1		1		1		1		1		1
Boom section	20 ft			1	1	2	2	3	3	4	4	5	5	6	6
Boom head	23 ft	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom length (ft)		46	56	66	75	85	95	105	115	125	135	144	154	164	174
Auxiliary jib applicable		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

*) Actual lengths of boom sections are metric (e.g. 3 m, 6 m, 7 m). The figures shown above are approximate conversions to feet.

Load chart for lifting operation

with 63,935 lbs counterweight (main boom No. 2018.33)

Capacities in 1000 lbs for boom lengths (46 ft - 164 ft) - with 78,700 lbf winches

Radius (ft)	Boom length in (ft)													Radius (ft)
	46 lbs	56 lbs	66 lbs	75 lbs	85 lbs	95 lbs	105 lbs	115 lbs	125 lbs	135 lbs	144 lbs	154 lbs	164 lbs	
13	286.6													13
15	264.7	241.7	232.9											15
20	179.1	171.2	163.7	156.8	150.3	144.2	138.5	104.4						20
25	133.2	129.4	124.9	120.4	116.2	112.2	108.3	104.7	101.1	97.8	94.5	91.4		25
30	101.1	101.3	100.2	97.0	94.0	91.0	88.2	85.5	82.8	80.3	77.7	75.4	73.0	30
35	80.6	80.8	80.9	80.6	78.3	76.0	73.8	71.6	69.5	67.4	65.4	63.4	61.5	35
40	66.4	66.6	66.7	66.5	66.3	64.8	63.0	61.2	59.4	57.6	55.9	54.3	52.7	40
45	55.8	56.2	56.3	56.1	55.9	55.6	54.5	53.0	51.8	50.3	48.9	47.4	46.0	45
50	48.0	48.5	48.7	48.5	48.3	48.0	47.6	46.7	45.4	44.1	42.7	41.4	40.1	50
60		36.7	37.1	37.0	36.8	36.5	36.1	35.8	35.4	34.5	33.4	32.3	31.2	60
70			29.0	29.1	28.9	28.6	28.3	27.9	27.5	27.1	26.6	25.6	24.7	70
75				25.9	25.9	25.6	25.3	24.9	24.5	24.0	23.6	22.9	22.0	75
85					20.8	20.6	20.3	19.9	19.5	19.1	18.6	18.2	17.6	85
95						16.6	16.4	16.0	15.7	15.2	14.8	14.3	13.9	95
105							13.2	12.9	12.6	12.2	11.7	11.3	10.8	105
115								10.3	10.1	9.6	9.2	8.8	8.3	115
125									7.9	7.5	7.1	6.7	6.2	125
135										5.6	5.3	4.9	4.4	135
145											3.7	3.3	2.9	145
150												2.6		150

TLT 11943967 M00000 Offiziell

Above load chart is 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.

with 75,620 lbs counterweight (main boom No. 2018.33)

Capacities in 1000 lbs for boom lengths (46 ft - 174 ft) - with 78,700 lbf winches

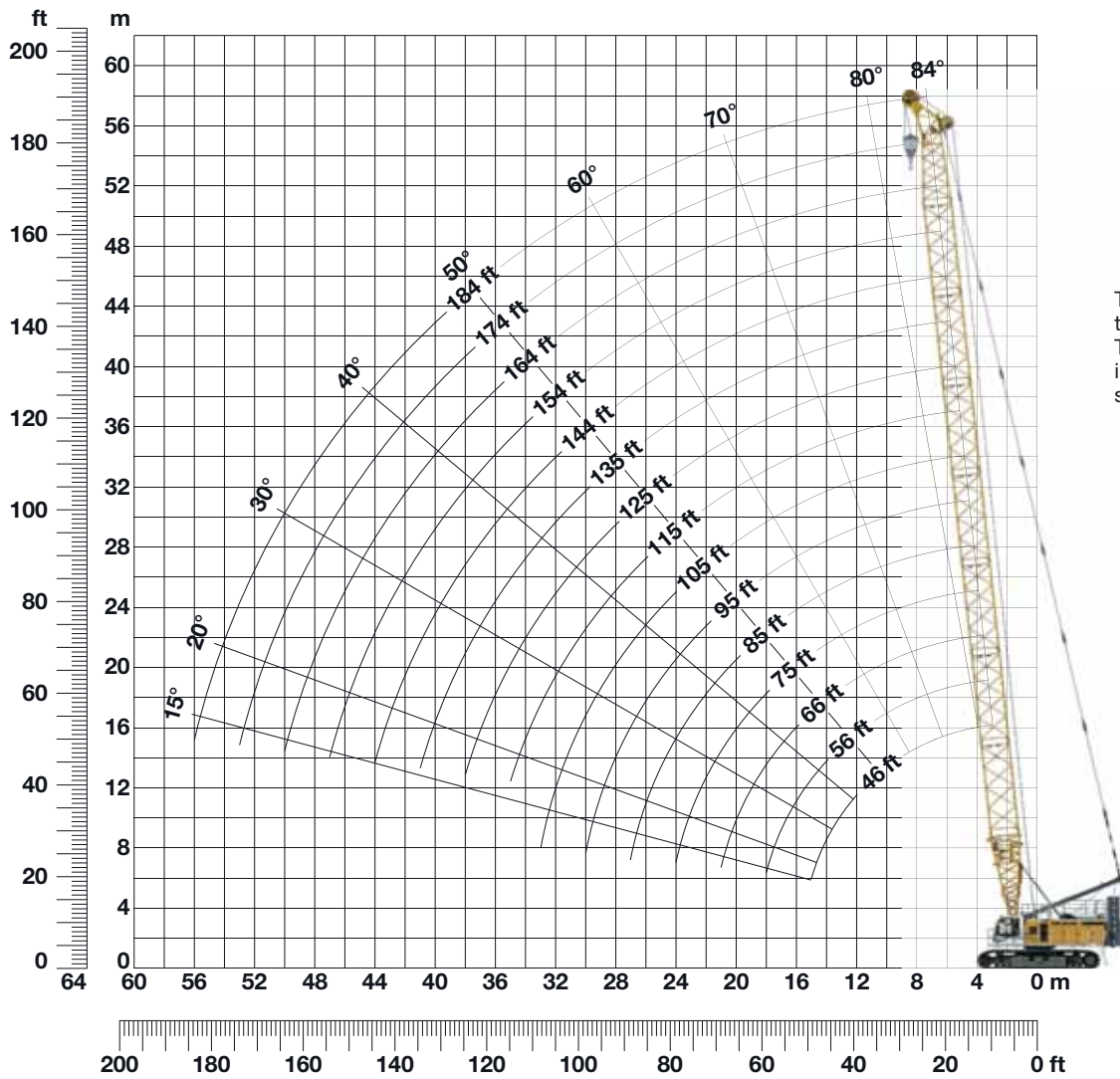
Radius (ft)	Boom length in (ft)														Radius (ft)
	46 lbs	56 lbs	66 lbs	75 lbs	85 lbs	95 lbs	105 lbs	115 lbs	125 lbs	135 lbs	144 lbs	154 lbs	164 lbs	174 lbs	
17.1					196.7										17.1
20	195.9	187.2	179.1	171.6	164.5	158.0	151.7	104.4							20
25	145.9	141.8	136.8	132.0	127.5	123.1	119.0	115.0	111.2	107.6	104.1	100.8			25
30	110.9	111.1	110.0	106.6	103.3	100.1	97.1	94.1	91.3	88.5	85.9	83.3	80.8	78.4	30
35	88.6	88.8	88.9	88.7	86.3	83.8	81.4	79.1	76.8	74.6	72.4	70.4	68.3	66.3	35
40	73.2	73.4	73.5	73.3	73.1	71.6	69.7	67.7	65.8	64.0	62.2	60.4	58.6	56.9	40
45	61.7	62.1	62.2	62.0	61.8	61.4	60.5	58.8	57.2	55.6	54.0	52.7	51.4	49.9	45
50	52.7	53.3	53.5	53.3	53.1	52.8	52.7	52.0	50.6	49.2	47.8	46.4	45.1	43.7	50
60		40.9	41.3	41.2	41.0	40.7	40.3	40.0	39.6	38.8	37.7	36.5	35.4	34.2	60
70			32.5	32.6	32.5	32.1	31.8	31.4	31.0	30.6	30.2	29.3	28.3	27.3	70
75				29.2	29.1	28.8	28.5	28.1	27.7	27.3	26.9	26.4	25.4	24.4	75
85					23.6	23.4	23.1	22.7	22.4	21.9	21.5	21.0	20.6	19.7	85
95						19.1	18.9	18.6	18.2	17.7	17.3	16.8	16.4	15.9	95
105							15.5	15.2	14.9	14.4	14.0	13.5	13.1	12.6	105
115								12.4	12.1	11.7	11.3	10.8	10.4	9.8	115
125									9.7	9.4	9.0	8.5	8.1	7.6	125
135										7.4	7.0	6.6	6.2	5.7	135
145											5.3	4.9	4.5	4.0	145
155												3.4	3.0	2.6	155
160													2.4		160

TLT 11943967 M00000 Offiziell

Above load chart is 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 84° - 15°

HS 8130 HD with wide track and long crawlers



Auxiliary jib 79,400 lbs



The maximum capacity of the auxiliary jib is 79,400 lbs. The corresponding load chart is programmed in the LMI system.

Main boom configuration

from 46 ft to 184 ft (Table 1 - No. 2018.33)

	Length*	Configuration for boom lengths														
		46	56	66	75	85	95	105	115	125	135	144	154	164	174	184
Boom foot	23 ft	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom section	10 ft		1		1		1		1		1		1		1	
Boom section	20 ft			1	1	2	2	3	3	4	4	5	5	6	6	7
Boom head	23 ft	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom length (ft)		46	56	66	75	85	95	105	115	125	135	144	154	164	174	184
Auxiliary jib applicable		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

*) Actual lengths of boom sections are metric (e.g. 3 m, 6 m, 7 m). The figures shown above are approximate conversions to feet.

Load chart for lifting operation

with 63,935 lbs counterweight and 15,435 lbs carbody counterweight (main boom No. 2018.33)

Capacities in 1000 lbs for boom lengths (46 ft - 184 ft) - with 78,700 lbf winches

Radius (ft)	Boom length in (ft)															Radius (ft)
	46 lbs	56 lbs	66 lbs	75 lbs	85 lbs	95 lbs	105 lbs	115 lbs	125 lbs	135 lbs	144 lbs	154 lbs	164 lbs	174 lbs	184 lbs	
13	286.6															13
15	281.8	241.7	232.9													15
20	200.8	191.7	183.3	175.4	168.0	161.2	154.7	104.4								20
25	148.9	144.2	139.1	134.2	129.5	125.0	120.7	116.7	112.8	109.1	105.5	102.1	98.5			25
30	112.4	112.7	111.3	107.8	104.5	101.3	98.2	95.2	92.3	89.5	86.8	84.2	81.6	79.2	76.8	30
40	73.6	73.9	74.0	73.8	73.6	72.1	70.2	68.2	66.3	64.4	62.6	60.8	59.1	57.4	55.6	40
50	52.8	53.5	53.6	53.5	53.3	53.0	52.7	52.3	50.8	49.4	48.0	46.7	45.3	44.0	42.6	50
60		40.9	41.3	41.2	41.0	40.7	40.4	40.0	39.6	39.0	37.8	36.6	35.5	34.4	33.2	60
70			32.4	32.5	32.4	32.1	31.8	31.4	31.0	30.6	30.2	29.4	28.3	27.3	26.3	70
75				29.1	29.1	28.8	28.5	28.1	27.7	27.3	26.8	26.4	25.5	24.5	23.4	75
80					26.1	25.9	25.6	25.2	24.8	24.4	23.9	23.5	22.9	21.9	20.8	80
85					23.5	23.3	23.1	22.7	22.3	21.9	21.4	21.0	20.5	19.6	18.6	85
95						19.0	18.8	18.5	18.1	17.7	17.3	16.8	16.3	15.8	14.9	95
105							15.4	15.1	14.8	14.3	13.9	13.4	13.0	12.5	11.8	105
115								12.3	12.0	11.6	11.2	10.7	10.3	9.8	9.3	115
125									9.6	9.3	8.9	8.4	8.0	7.5	7.0	125
135										7.3	7.0	6.5	6.1	5.6	5.1	135
145											5.2	4.8	4.4	3.9	3.5	145
155												3.3	2.9	2.5		155
160													2.3			160

TLT 11916561 M00000 Offiziell

Above load chart is 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.

with 98,988 lbs counterweight and 15,435 lbs carbody counterweight (main boom No. 2018.33)

Capacities in 1000 lbs for boom lengths (46 ft - 184 ft) - with 78,700 lbf winches

Radius (ft)	Boom length in (ft)															Radius (ft)
	46 lbs	56 lbs	66 lbs	75 lbs	85 lbs	95 lbs	105 lbs	115 lbs	125 lbs	135 lbs	144 lbs	154 lbs	164 lbs	174 lbs	184 lbs	
18.1						215.6										18.1
20					204.7	202.8	195.1	104.4								20
25	173.5	173.1	169.1	168.6	164.5	159.0	153.7	148.8	144.0	139.5	129.9	122.4				25
30	143.2	141.3	140.4	137.5	133.4	129.5	125.7	122.0	118.5	115.2	111.9	108.8	100.5	96.3	87.4	30
40	94.8	95.0	95.1	94.9	94.7	93.1	90.8	88.5	86.2	84.0	81.8	79.7	77.7	75.7	72.6	40
50	55.6	69.5	69.7	69.5	69.3	69.0	68.7	68.2	66.5	64.9	63.2	61.6	60.1	58.5	57.0	50
60		46.4	54.0	53.9	53.7	53.4	53.0	52.7	52.3	51.8	50.6	49.6	48.3	47.0	45.8	60
65			48.1	48.3	48.2	47.9	47.6	47.2	46.8	46.4	45.9	44.8	43.6	42.4	41.2	65
75				39.2	39.1	38.8	38.5	38.1	37.7	37.3	36.9	36.4	35.9	34.8	33.7	75
85					32.3	32.1	31.8	31.4	31.0	30.6	30.2	29.7	29.2	28.8	27.9	85
95						26.8	26.6	26.2	25.9	25.4	25.0	24.5	24.1	23.6	23.1	95
105							22.3	22.0	21.7	21.3	20.9	20.4	19.9	19.4	19.0	105
115								18.6	18.3	17.9	17.5	17.0	16.6	16.1	15.6	115
125									15.4	15.0	14.7	14.2	13.8	13.3	12.8	125
135										12.6	12.3	11.8	11.4	10.9	10.4	135
145											10.1	9.7	9.3	8.8	8.4	145
155												7.9	7.5	7.1	6.6	155
165													5.9	5.5	5.0	165
175														4.0	3.6	175
180															3.0	180

TLT 11916561 M00000 Offiziell

Above load chart is 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.

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