LRH 600

EN-US

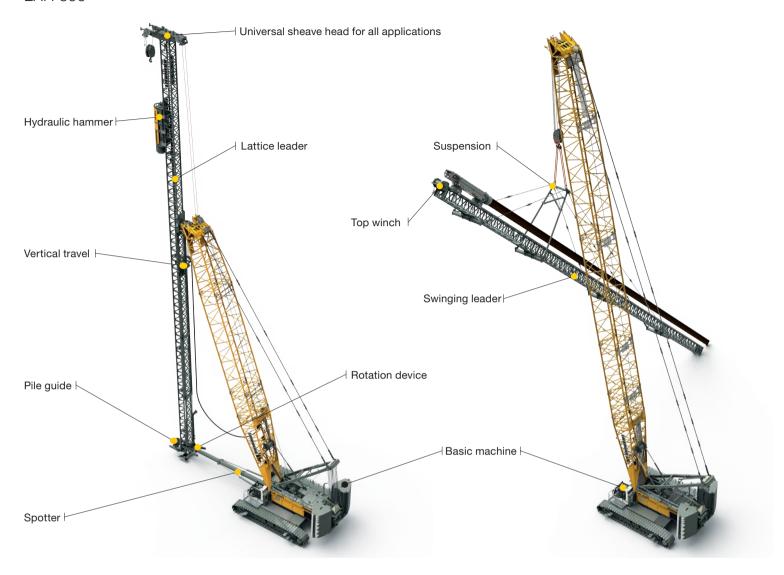
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Concept and characteristics

LRH 600

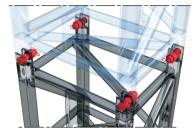


- Depending on the requirements basic machines of the crawler crane series (LR 1300.1 SX) or duty cycle crawler crane series (HS 8200) are used. Combined with solid leaders this high-performance construction machinery convinces with its high level of efficiency and flexibility.
- Thanks to the special leader kinematics a radius of max. 49.2 ft (fixed leader) as well as a continuous inclination adjustment are achieved.

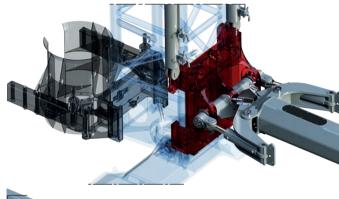
- Hydraulic supply through carrier machine
- All adjustment functions and their control completely integrated in the carrier machine
- Equipment design according to latest European regulations and standards
- High stability through lattice structure

Special features

Connection of leader sections



Automatic rotation device







- Structure and connection of leader sections: Easy and quick assembly thanks to pin connection, high stability through lattice structure.
- · Vertical travel:

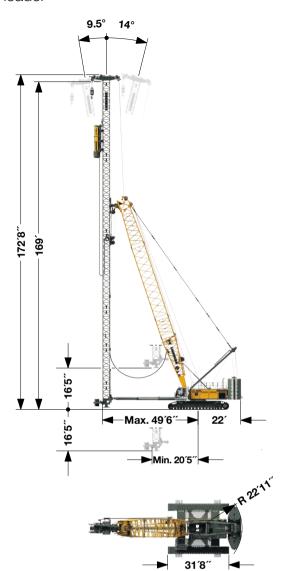
In order to provide maximum stability, the kicker is connected to the boom head via supporting tubes. This allows to change the leader height without influencing the leader inclination.

• Spotter:

Two compensation cylinders always keep the leader parallel to the uppercarriage. This allows for maximum torque transmission. Radius and inclination are adjusted using only one pair of cylinders.

Dimensions and weights

LRH 600 fixed leader



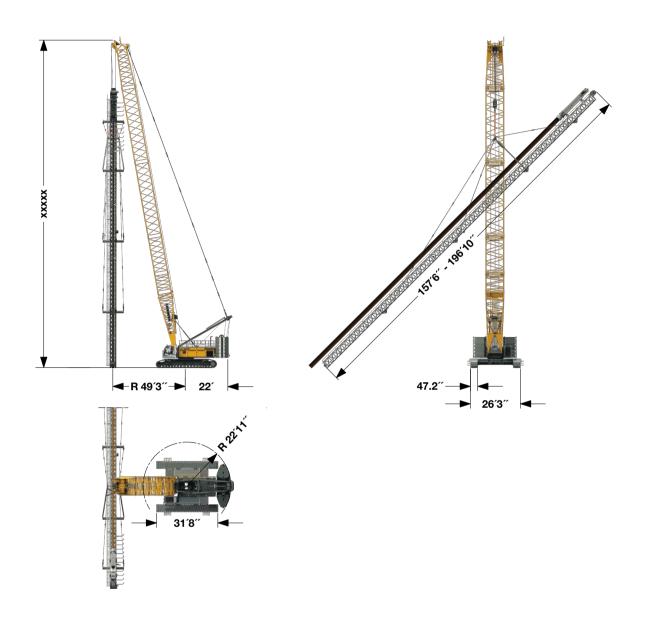


Technical data – fixed leader

Leader length —	128/147.7/167.3 ft
Weight without carrier machine ————	- 66,139/71,650/77,162 lbs
Min. radius ————————————————————————————————————	=*
Leader inclination continuously variable* Lateral inclination Forward inclination Backward inclination	——————————————————————————————————————
Max. pile weight — Max. hammer weight —	
Pull force	max. 269,771 lbf
Max. torque (effective over complete leader length) —	236,020 lbf-ft
Vertical travel —	± 16.4 ft

*) Other leader inclinations available on request

LRH 600 swinging leader

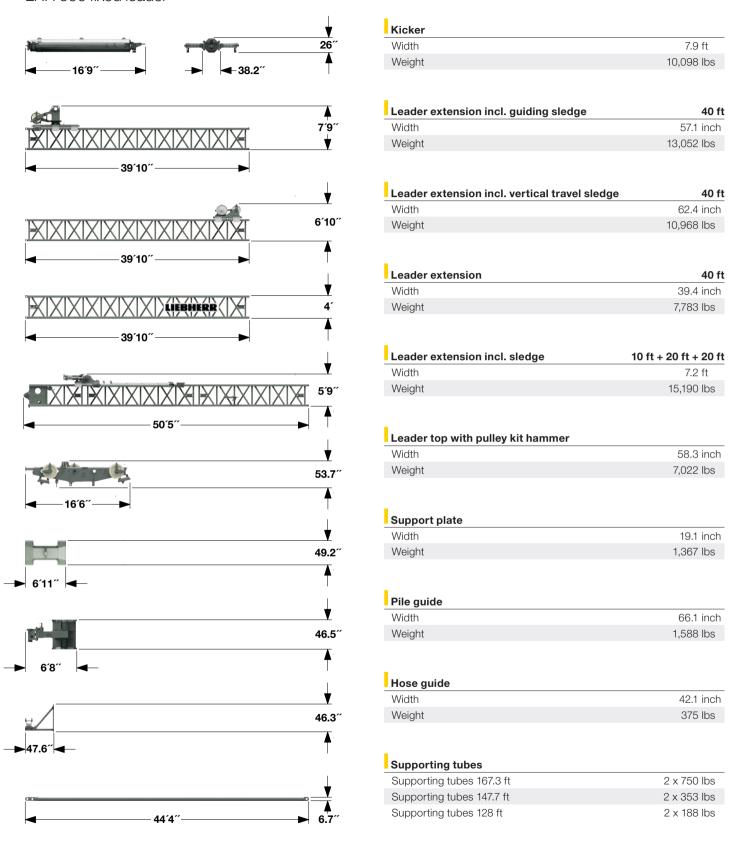


Technical data – swinging leader	
Leader length —	157.5/196.9 ft
Weight without carrier machine —	55,116/63,934 lbs
Leader inclination*	1:1
Max. pile weight ————————————————————————————————————	44,093 lbs 44,093 lbs

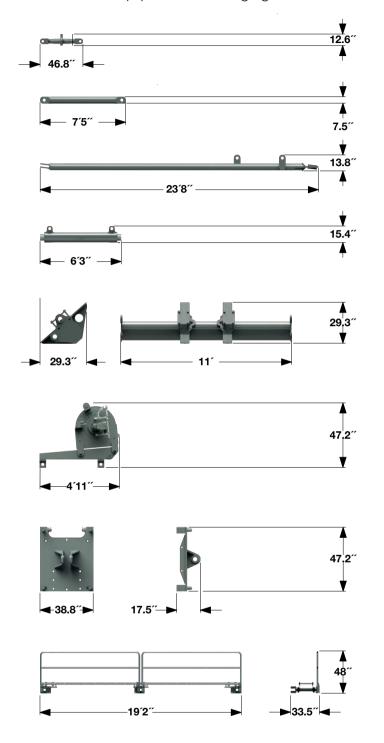
 $[\]ensuremath{^{*}}\xspace$) Other leader inclinations available on request

Transport dimensions and weights

LRH 600 fixed leader



Additional equipment for swinging leader



Width Weight	9.1 i 287 l
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	2011
Brace 2x	
Width	7.5 i
Weight	210 I
A-frame bar 2x	
Width Weight	23.2 i 885 l
	0.5
A-frame spacer	
Width Weight	9.5 i 665 l
Traverse 4x	
Width Weight	29.3 i 1370 l
Top winch	
Width	52.7 i
Weight	2515 I
Leader foot	
Width	17.5 i
Weight	885 I

Suspension rope 14x

Weight

3750 lbs

Hydraulic hammer

H 15 L



Key features

-Drop weight 22,046 lbs + 5,512 lbs + 5,512 lbs

- Total weight incl. pile helmet and 33,069 lbs drop weight: 52,470 lbs - Length incl. pile helmet: 21.2 ft (LRH) -Length incl. pile helmet: 17.9 ft (LRB) - Max. impact energy: 165,951 lbf-ft

-Drop height: 4.9 ft

Process data recording (PDE)

- Constant recording of relevant process data during the piling process

Short design H15 L: allows for very long piles

Modular weights: easy adaptation of the hammer to the piling requirements Hammer control: independent control of impact energy and blows/minute

Lightweight design: results in higher load capacity

Soundproofing is standard: pile helmet is soundproofed as a standard



Technical data H 15 L

Hammer typ	H 15-10	H 15-12	H 15-15
Drop weight	22,046 lbs	27,558 lbs	33,069 lbs
Max. rated energy	110,634 lbf-ft	138,662 lbf-ft	165,951 lbf-ft
Blow rate - blows/min	30 – 80	30 – 80	30 – 80
Hammer weight incl. pile helmet and dolly	41,447 lbs	46,958 lbs	52,470 lbs

Various pile helmet sizes available on request.

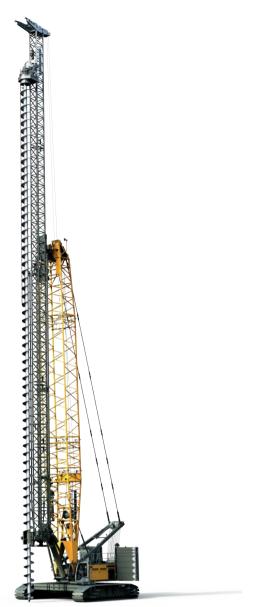
MyJobsite

Using the MyJobsite software solution all relevant process, machine, construction site, and positioning data (LIPOS) can be recorded, displayed, analysed, managed, and evaluated in one central location. The collected data can be accessed via a web browser when an internet connection is active.

With the recorded PDE data, a working protocol is automatically generated as proof of quality directly after completion of a work process. The parameters of the driving protocol can be defined and assigned in advance, which is an enormous time-saver.

Continuous flight auger drilling, full displacement drilling and down-the-hole drilling

BAT 320





Technical data

Rotary drive - torque -	- 0 - 236,020	lbf-ft
Rotary drive - speed —	0 – 47	rpm
Max. pull force**	—— 179,847	lbf
Max. crowd force**	33.721	lbf

^{*)} Other drilling diameters available on request **) Determined by the rotary drive

Performance data for 167.3 ft leader and auger cleaner

Drilling depth	- 167.3 ft
Max. drilling diameter*	- 47.2 inch

Hydraulic hammer

Swinging leader



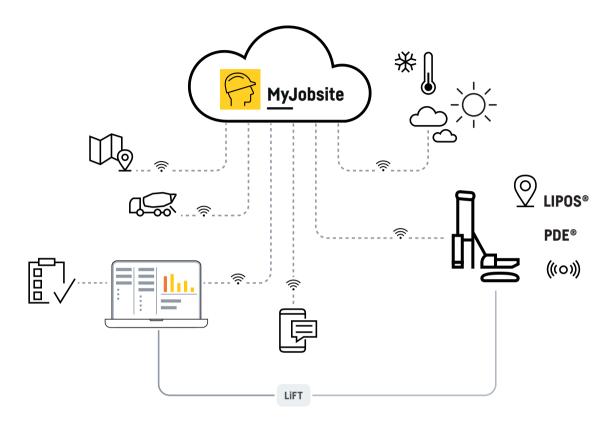
Technical data – swinging leader

Leader length —	— 157.5/196.9 ft
Weight without carrier machine —	- 55,116/63,934 lbs
Leader inclination*	1:1
Max. pile weight — Max. hammer weight —	44,093 lbs 44,093 lbs
Top winch without free fall Max. pull force (1st layer)	48,334 lbf

*) Other leader inclinations available on request

Digitalization in deep foundation work

As deep foundation expert, Liebherr has created a combination of the most diverse assistance systems and software solutions in order to record and evaluate complex processes and to be able to provide the corresponding evidence.



LIPOS - Liebherr positioning system

Using pre-installed components, LIPOS enables the direct integration of machine control systems from Trimble and Leica. These systems are based on modern DGNSS technology (Differential Global Navigation Satellite System) and so achieve the best possible conditions for a precise and efficient positioning of Liebherr machines and their attachment tools.

PDE

All working processes can be electronically recorded and visualized using the process data recording system PDE. The system is operated and displayed on the PDE touchscreen in the operator's cab. PDE records operating data from the Litronic control system, as well as data from external sensors.

MyJobsite

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With the recorded PDE data, such as the driving progress of the pile per blow, the total number of blows, or the impact frequency per minute, a driving protocol is automatically generated as proof of quality directly after completion of a work process. The parameters of the driving protocol can be defined and assigned in advance. Using the templates saves a lot of time when creating the protocols.

MyJobsite is THE tool for quality control and documentation. The deluge of data, which s accrued each day from a wide variety of sources on the jobsite, can be recorded precisely and processed in an informative manner. Unpopular bureaucratic work is kept to a minimum and the amount of time required for it is significantly reduced. At the same time, the quality of administration work is maximised.