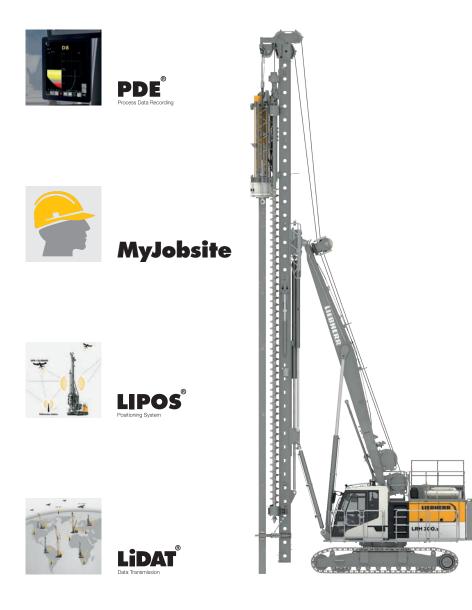


# **Concept and characteristics**



#### The robust universal machine

- -Hydraulic hammer
- Pre-drill

#### Assistance systems

- -Joystick control for all machine functions
- -Leader inclination memory
- -Positioning system
- Free-fall winches with slack rope monitoring and prevention

# **Technical description**

### Diesel engine

Power rating according to ISO 9249	250 kW (335 hp) at 1700 rpm
Engine type	Liebherr D 936 A7-04
Fuel tank capacity	700 l with continuous level indicator and reserve warning
Exhaust certification	EU 2016/1628 Stage V; EPA/CARB Tier 4f ECE-R.96 Power Band H non-certified emission standard

### Hvdraulic system

Pump for working tools	2x 272 l/min
Separate pump for kinematics	130 l/min
Hydraulic oil tank capacity	600 l
Max. working pressure	350 bar
Hydraulic oil electronic monitoring of all filters	
	use of synthetic environmentally friendly oil possible



### 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	0-3.75 rpm continuously variable

### Hammer winch with free fall

Line pull (effective)	108 kN	
Rope diameter	24 mm	
Rope speed	0-66 m/min	
- Alexandream		_

### **WILL** Pile winch with free fall

Line pull (effective)	80 kN
Rope diameter	20 mm
Rope speed	0-66 m/min



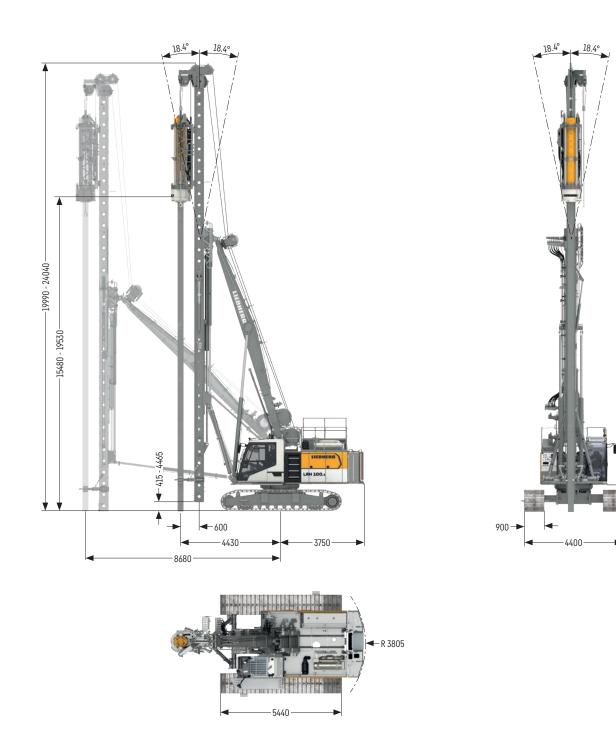
Drive system	with fixed axial piston hydraulic motors
Crawler side frames	maintenance-free, with hydraulic chain tensioning device
Brake	hydraulically released, spring-loaded multi-disc holding brake
Drive speed	0-2.0 km/h
Track force	440 kN
Grousers	width 900 mm

### **Remarks:**

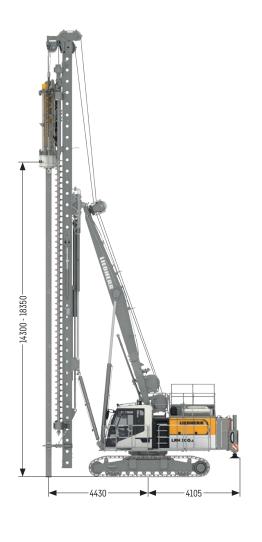
-Illustrations showing the types of application (e.g. hydraulic hammer, pre-drill etc.) are examples only.

-Weights and transport dimensions 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.

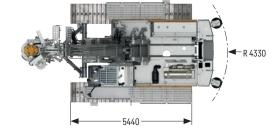
## **Dimensions**



Operating weight Total weight with 900 mm 3-web grousers t 71.3 The operating weight includes the basic machine LRH 100.1 incl. hammer H 6-6 and 13 t counterweight





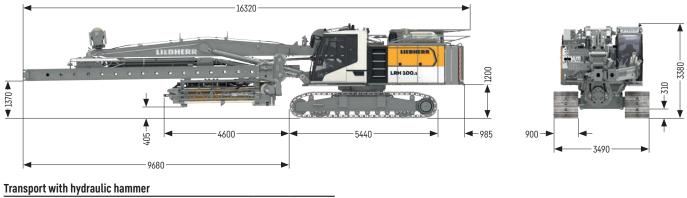


 
 Operating weight

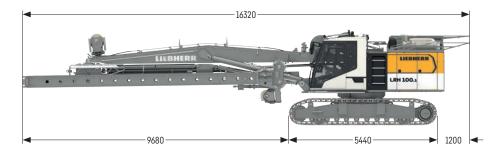
 Total weight with 900 mm 3-web grousers
 t
 72.2

 The operating weight includes the basic machine LRH 1001 incl. hammer H 6-6, rotary
 BA 12 and 13 t counterweight.
t 72.2

## **Transport dimensions and weights**

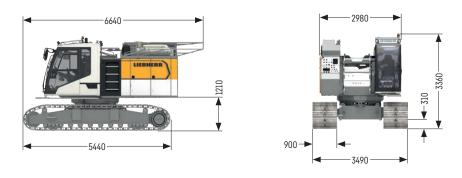


includes the basic machine (fully tanked and ready for operation) with leader, hydraulic hammer H 6-6 and 13 t counterweight	t 71.3
Weight hydraulic hammer H 6-6	t 9.6



#### Transport without hydraulic hammer

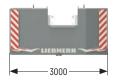
includes the basic machine (fully tanked and ready for operation) with t 48.7 leader, without hydraulic hammer and without counterweight

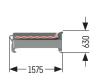


t 31.1

#### **Basic machine**

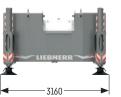
fully tanked and ready for operation, without counterweight

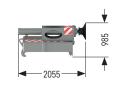




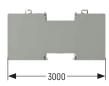
### Counterweight Weight

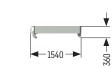
t 8.0





Counterweight with rear support unit	
Weight	t 8.0



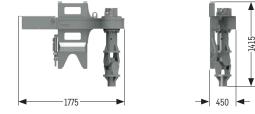


### Intermediate slab

H 6-6 Weight incl. 6 t drop weight

Leader Weight

Weight	t	5.0



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M	<b>▲</b> —1115-
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t 9.6

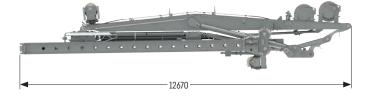
t 17.6

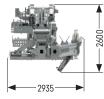
5.2

E	ЗA	1	2

Weight

t 0.62





LRH 100.1	7

# Hydraulic hammer H 6





#### Performance data

Hammer type		H 6-3	H 6-4	H 6-5	H 6-6	
Drop weight	kg	3000	4000	5000	6000	
Max. rated energy	kNm	36	48	60	72	
Blow rate	blows/min	50-150	50-150	50-150	40-150	
Max. pile length	m	19.5	19.5	19.5	19.5	
Hammer weight incl. pile helmet and dolly	kg	6600	7600	8600	9600	

Various pile helmet sizes up to diameters of 630 mm or in square design available on request

# Pre-drill BA 12





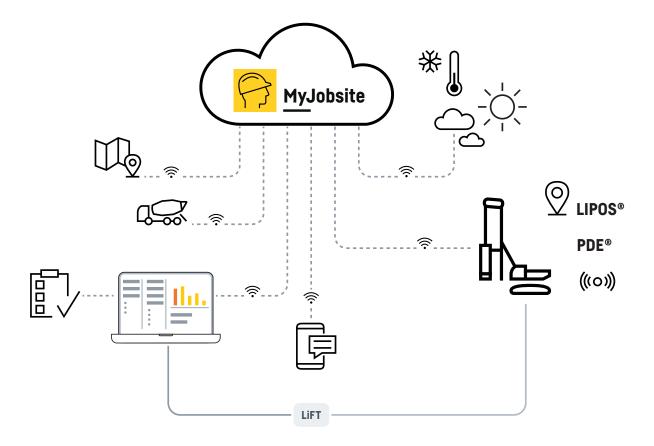
#### Performance data

Rotary drive - torque	kNm	12
Rotary drive - speed	rpm	0 - 65
Max. drilling diameter	mm	350
Max. pile length	m	18.3
Max. drilling depth	m	12

Other drilling diameters 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

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, 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.



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