

EN-US



LB 45.1

LB 2005.08
www.liebherr.com

LIEBHERR

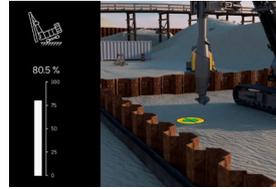
Drilling rigs

Assistance systems



Remote-controlled assembly and disassembly

The remote control facilitates the safe assembly and disassembly of the machine. The operator can change position and thus has a better view of collision points.



Ground pressure visualisation

Changes in the leader position or swinging the uppercarriage lead to a shift in the centre of gravity. Centres of gravity, load moments and ground pressure distribution under the crawler are calculated in real time.



Attachment recognition

The basic machine's control system detects attachments, records their operating hours and optimises oil quantities and pressures. Operating parameters and faults are recorded and can be recalled via LiDAT.



Automatic leader adjustment

The operator can save the leader inclination. At the touch of a button, the leader can be set to the desired inclination at the piling or drilling point for each new working step. This saves time and ensures precise results.



Drilling assistant for single-pass method

The rope crowd system, rotary drive and the amount of flowing concrete are optimally matched during drilling and subsequent extraction.



Assistance systems for Kelly drilling

- Automatic shake-off function for working tools
- Kelly visualisation
- Auger filling level display for drilling tools
- Kelly winch with freewheeling and with slack rope monitoring and prevention
- Crowd booster

Technical description



Diesel engine

| | |
|---|---|
| Power rating according to ISO 9249 | 450 kW (603 hp) at 1700 rpm |
| Engine type | Liebherr D 966 A7-05 |
| Fuel tank capacity | 165 gal with continuous level indicator and reserve warning |
| Exhaust certification | EU 2016/1628 Stage V EPA/CARB Tier 4f non-certified emission standard |



Hydraulic system

| | |
|------------------------------------|--|
| Hydraulic oil tank capacity | 203 gal |
| Max. working pressure | 5,584 PSI |
| Hydraulic oil | electronic monitoring of all filters use of synthetic environmentally friendly oil possible |



Crawlers

| | |
|----------------------------|--|
| 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 | 0-0.99 mph |
| Track force | 164,785 lbf |
| Grousers | Width 39.4 inch (option 35.4 inch) |



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 | 0-2.4 rpm continuously variable |



Kelly winch with freewheeling

| | |
|----------------------------|------------------------|
| Line pull effective | 94,419 lbf (1st layer) |
| Rope diameter | 38 mm |
| Rope speed | 0-213 ft/min |



Auxiliary winch

| | |
|----------------------------|------------------------|
| Line pull effective | 22,480 lbf (1st layer) |
| Rope diameter | 20 mm |
| Rope speed | 0-292 ft/min |



Crowd system

| | |
|---|-------------------------------|
| Crowd force | 89,924/89,924 lbf (push/pull) |
| Line pull effective | 44,962 lbf (1st layer) |
| Rope diameter | 28 mm |
| Travel with standard leader between mechanical limit stops | 58.4 ft |
| Rope speed | 0-230 ft/min |



Noise measurement data and vibration

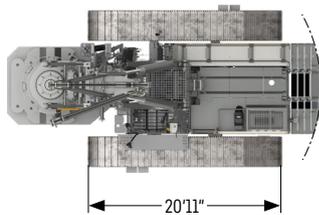
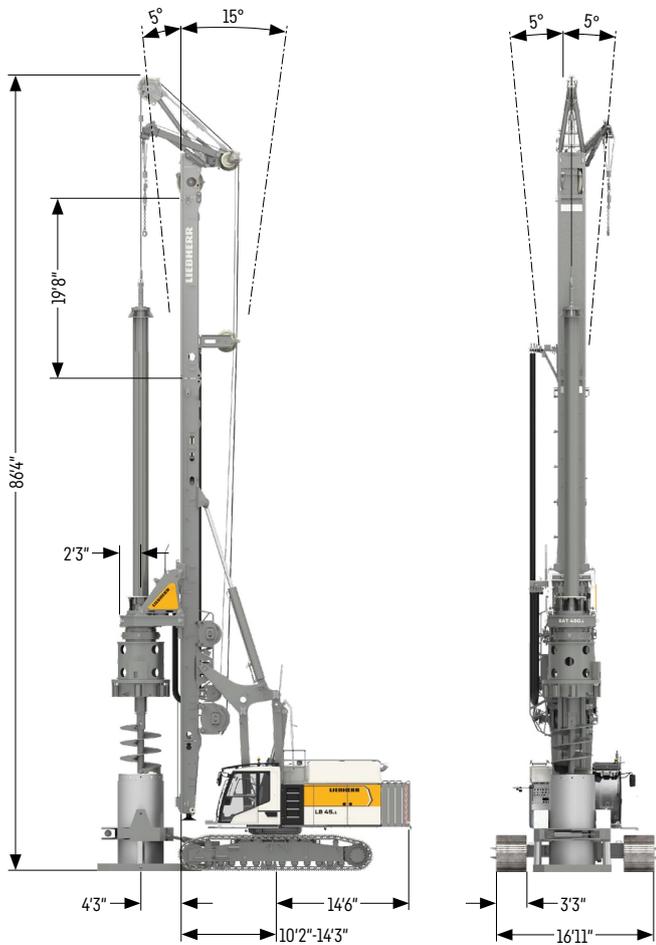
| | | |
|--|-----------------------------------|--------------------------|
| Noise emission | according to 2000/14/EC directive | |
| Emission sound pressure level L_{PA} | 82.1 dB(A) | (in the cabin) |
| Guaranteed sound power level L_{WA} | 111.0 dB(A) | (of the machine) |
| Vibration transmitted to the machine operator | < 8.2 ft/s ² | (to the hand-arm system) |
| | < 1.6 ft/s ² | (to the whole body) |
| Eco-silent mode (option) | | |
| Guaranteed sound power level L_{WA} | -1 dB(A) | (of the machine) |

Remarks:

- Illustrations showing the types of application (e.g. Kelly drilling, continuous flight auger drilling 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.

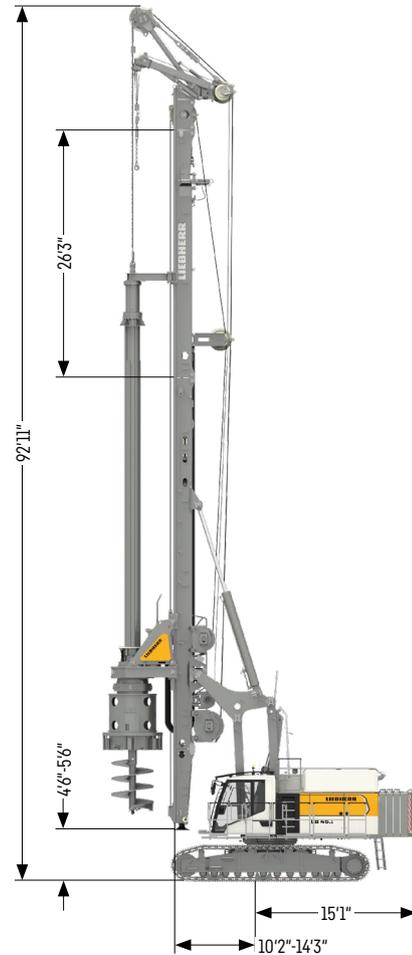
Dimensions

Standard



- R 14'9" (44,092 lbs)
- R 15'4" (50,706 lbs)
- R 15'7" (50,706 lbs incl. rear support unit)

Folding leader



Operating weights

| | |
|--|-------------|
| Total weight with 35.4 inch 3-web grousers | lbs 254,634 |
| Total weight with 39.4 inch 3-web grousers | lbs 256,177 |

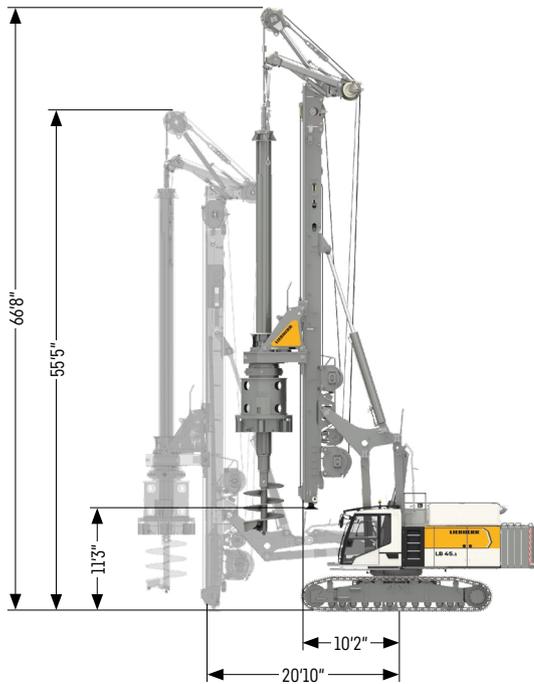
The operating weight includes the basic machine LB 45.1 with rotary and Kelly bar 36/3/36, 44,092 lbs counterweight and equipment for casing oscillator.

Operating weights

| | |
|--|-------------|
| Total weight with 35.4 inch 3-web grousers | lbs 270,728 |
| Total weight with 39.4 inch 3-web grousers | lbs 272,271 |

The operating weight includes the basic machine LB 45.1 with rotary, Kelly bar 36/4/48 and 50,706 lbs counterweight. Equipment for casing oscillator not included.

Low Head



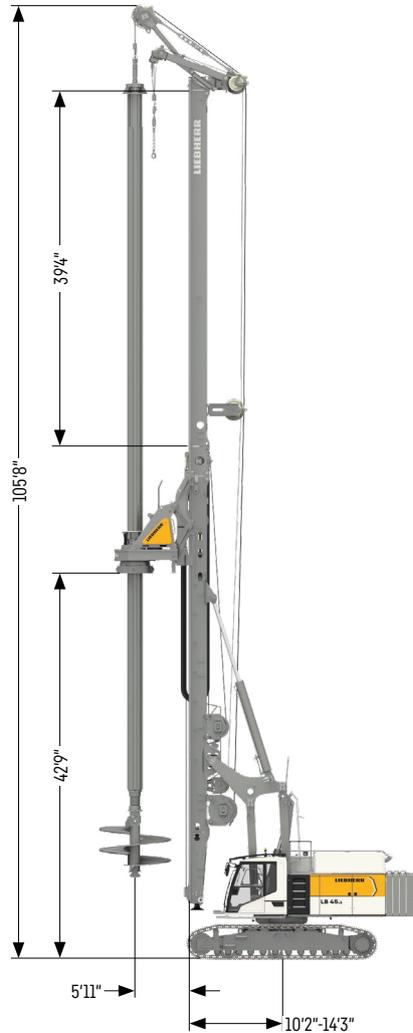
Operating weights

| | |
|--|-------------|
| Total weight with 35.4 inch 3-web grousers | lbs 247,579 |
| Total weight with 39.4 inch 3-web grousers | lbs 249,122 |

The operating weight includes the basic machine LB 45.1 with rotary, Kelly bar 36/4/30 and 50,706 lbs counterweight. Equipment for casing oscillator not included.

The line pull of the Kelly winch is reduced to 56,202 lbf when working at a radius exceeding 14.3 ft.

Kelly Only

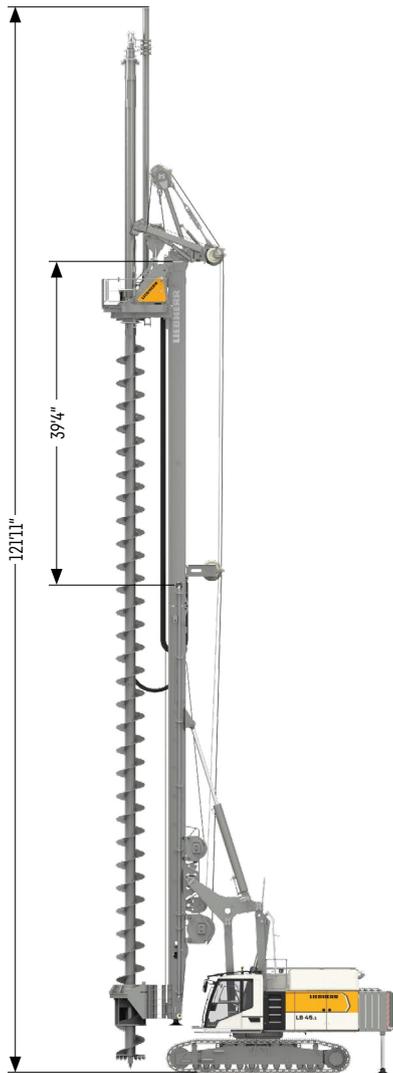


Operating weights

| | |
|--|-------------|
| Total weight with 35.4 inch 3-web grousers | lbs 292,112 |
| Total weight with 39.4 inch 3-web grousers | lbs 293,656 |

The operating weight includes the basic machine LB 45.1 with rotary, drilling axis extension 5.9 ft, Kelly bar 36/4/93 and 50,706 lbs counterweight. Equipment for casing oscillator not included.

Single-pass

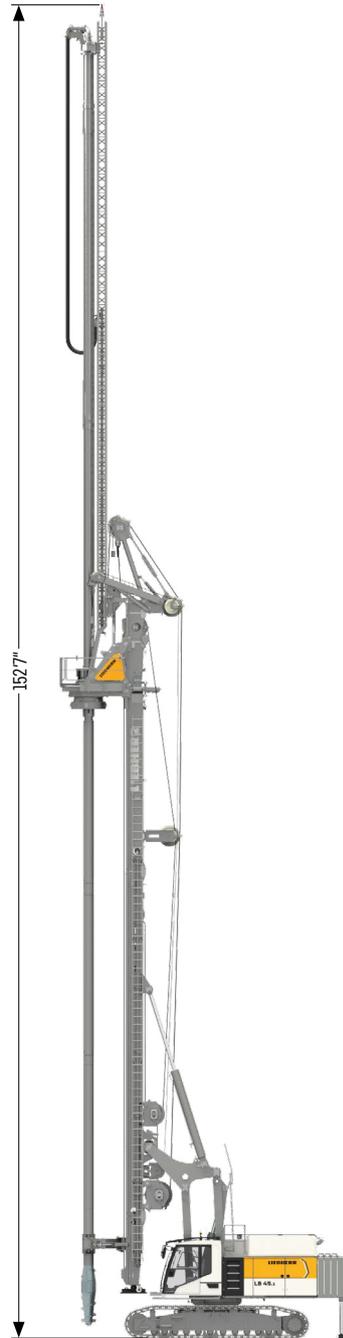


Operating weights

| | |
|--|-------------|
| Total weight with 35.4 inch 3-web grousers | lbs 279,767 |
| Total weight with 39.4 inch 3-web grousers | lbs 281,310 |

The operating weight includes the basic machine LB 45.1 with rotary, 39.4 ft Kelly extension, auger \varnothing 3.3 ft 82.0 ft, auger cleaner \varnothing 3.3 ft and 50,706 lbs counterweight. Equipment for casing oscillator not included.

Lattice boom extension



Operating weights

| | |
|--|-------------|
| Total weight with 35.4 inch 3-web grousers | lbs 284,396 |
| Total weight with 39.4 inch 3-web grousers | lbs 285,940 |

The operating weight includes the basic machine LB 45.1 with rotary, 59.1 ft Kelly extension, drill rod 68.9 ft and 50,706 lbs counterweight. Equipment for casing oscillator not included.

Combined applications

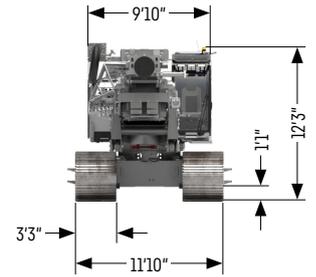
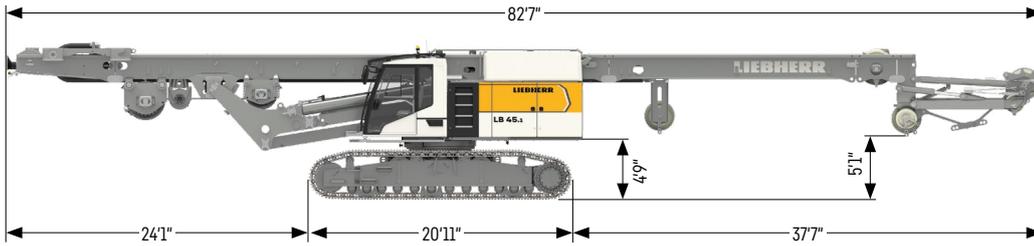
Combined applications

| |  |  |  |  |  |  |  |
|--|---|---|---|---|---|---|---|
|  Standard leader | Kelly CFA FDD CCFA DTH WSM | Kelly | Kelly CFA FDD CCFA DTH WSM | Kelly | FDD | Kelly WSM | Kelly CFA FDD CCFA DTH WSM |
|  Folding leader | Kelly CFA FDD CCFA DTH WSM | Kelly | Kelly CFA FDD CCFA DTH WSM | Kelly | FDD | Kelly WSM | Kelly CFA FDD CCFA DTH WSM |
|  Low Head | Kelly CFA FDD CCFA DTH WSM | | Kelly CFA FDD CCFA DTH WSM | Kelly | | Kelly WSM | Kelly CFA FDD CCFA DTH WSM |
|  Kelly Only | | Kelly | Kelly | Kelly | | Kelly | Kelly |
|  Single-pass | CFA FDD WSM CCFA DTH | | CFA FDD WSM CCFA DTH | | | WSM | CFA FDD WSM CCFA DTH |

* Distance from drilling axis to front edge of leader

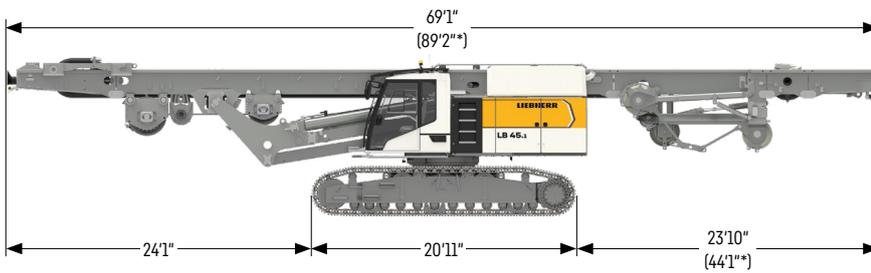
Kelly Kelly drilling
 CFA Continuous flight auger drilling
 FDD Full displacement drilling
 CCFA Double rotary drilling
 DTH Down-the-hole drilling
 WSM Soil mixing

Transport dimensions and weights



Standard leader (19.7 ft leader upper part)

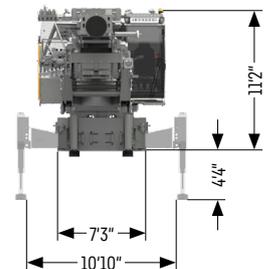
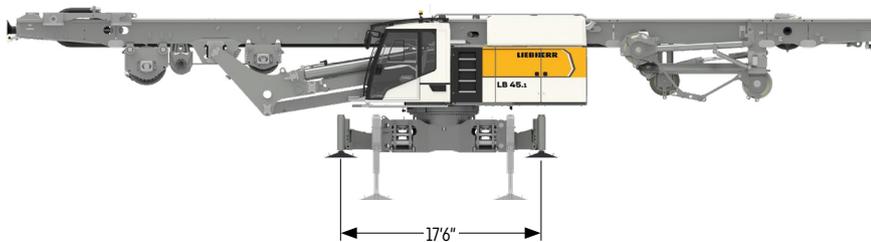
includes the basic machine (fully tanked and ready for operation) with leader, lbs 167,992
 without attachments (such as rotary, Kelly bar etc.), without counterweight
 and without adapter for casing oscillator



Folding leader (26.2 ft leader upper part)

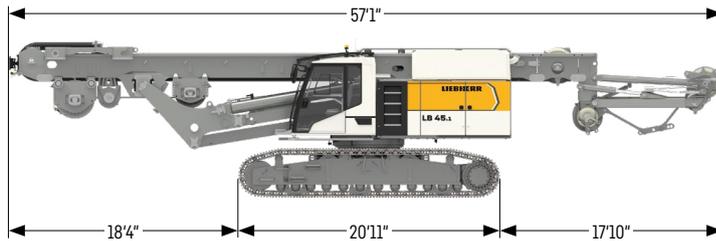
includes the basic machine (fully tanked and ready for operation) with leader, lbs 171,079
 without attachments (such as rotary, Kelly bar etc.), without counterweight
 and without adapter for casing oscillator

* Transport length leader not folded



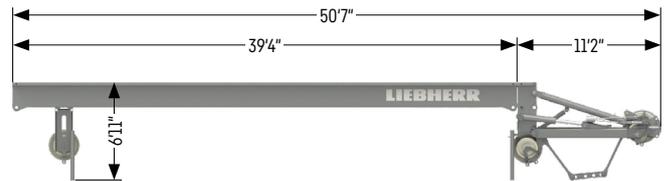
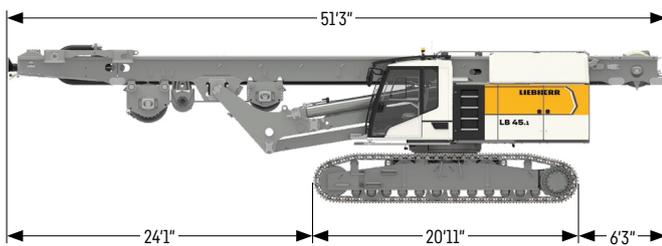
Folding leader without crawlers

includes the basic machine (fully tanked and ready for operation) with leader, lbs 135,364
 jack-up system and adapter for casing oscillator, without attachments (such
 as rotary, Kelly bar etc.), without counterweight and without crawlers



Low Head

includes the basic machine (fully tanked and ready for operation) with leader, lbs 160,717
 without attachments (such as rotary, Kelly bar etc.) and without counterweight

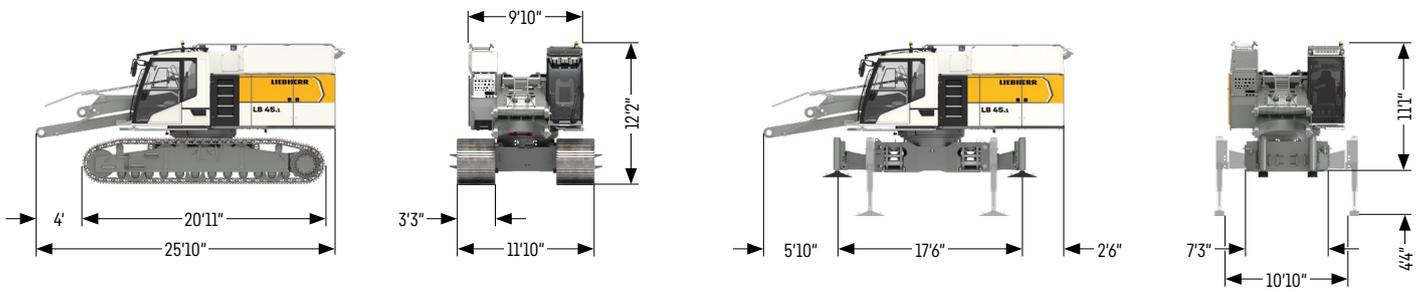


Kelly Only and single-pass

Kelly Only without 39.4 ft leader extension and leader top lbs 159,174
 includes the basic machine (fully tanked and ready for operation) with leader,
 without attachments (such as rotary, Kelly bar etc.) and without counterweight

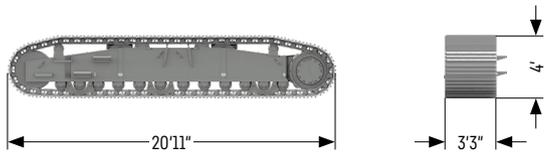
Single-pass without 39.4 ft leader extension and leader top lbs 157,410
 includes the basic machine (fully tanked and ready for operation) with leader,
 without attachments (such as rotary, Kelly bar etc.) and without counterweight

39.4 ft leader extension with leader top lbs 132,228



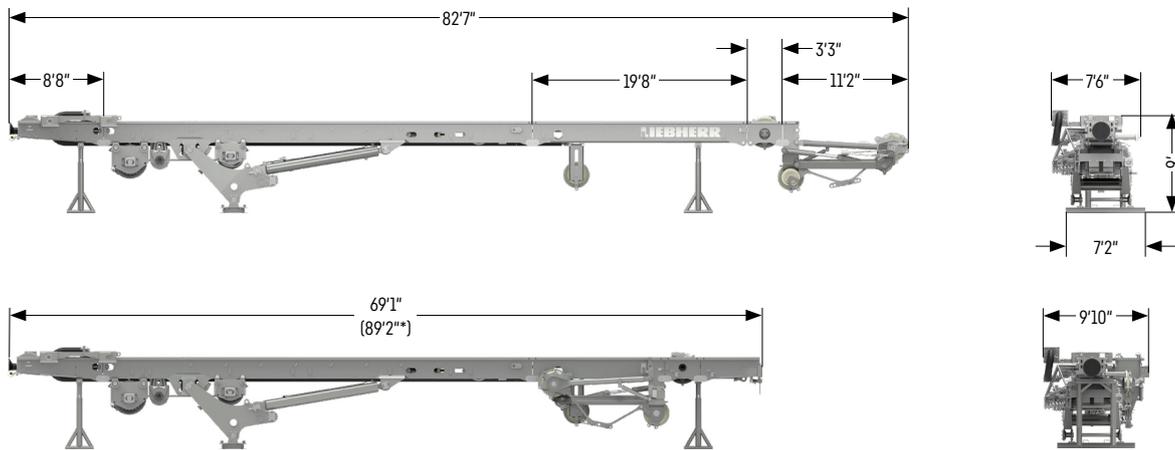
Carrier machine versions

| | |
|---|-------------|
| without jack-up system, counterweight and adapter for casing oscillator | lbs 111,113 |
| with jack-up system and adapter for casing oscillator, without counterweight and crawlers | lbs 75,398 |



Crawler

| | |
|------------|------------|
| Left/right | lbs 22,487 |
|------------|------------|



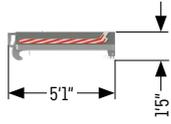
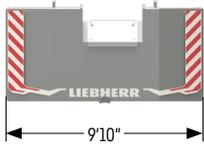
Leader versions

| | |
|---|------------|
| Standard leader | lbs 59,525 |
| Folding leader | lbs 62,211 |
| Standard leader lower part | lbs 3,748 |
| 19.7 ft leader extension | lbs 5,070 |
| 26.2 ft leader extension | lbs 7,495 |
| 39.4 ft leader extension | lbs 8,377 |
| Leader top | lbs 4,188 |
| 3.2 ft leader extension with pulley support | lbs 1,763 |
| Short leader lower part | lbs 1,102 |

* Transport length folding leader

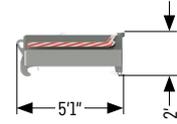
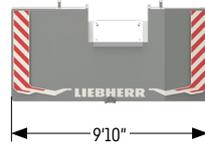
Options

| | |
|----------------------------------|-----------|
| Jack-up system | lbs 6,393 |
| Adapter for casing oscillator | lbs 2,866 |
| Concrete supply line | lbs 1,323 |
| All round platform with railings | lbs 1,102 |



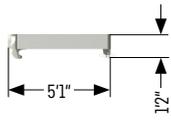
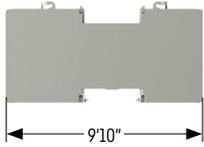
Counterweight

Weight lbs 11,023



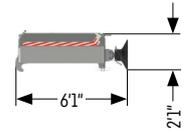
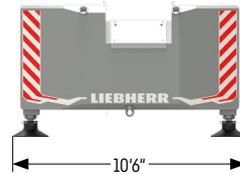
Counterweight

Weight lbs 17,636



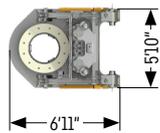
Intermediate slab

Weight lbs 11,023



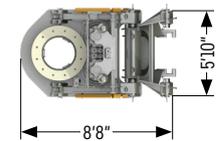
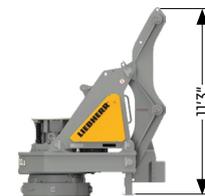
Rear counterweight with rear support

Weight lbs 17,636



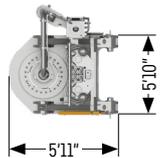
BAT 450.1

Transport weight lbs 20,062



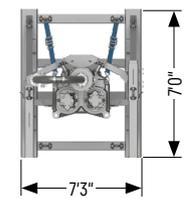
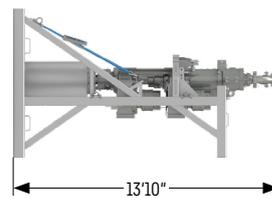
BAT 450.1 with adapter for drilling axis 5.9 ft

Transport weight lbs 23,369



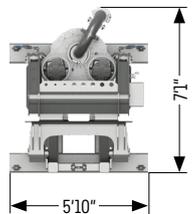
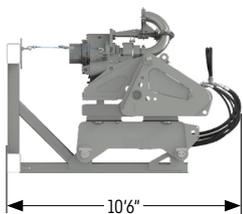
MA 220

Transport weight lbs 14,110



DBA 220

Transport weight lbs 19,401

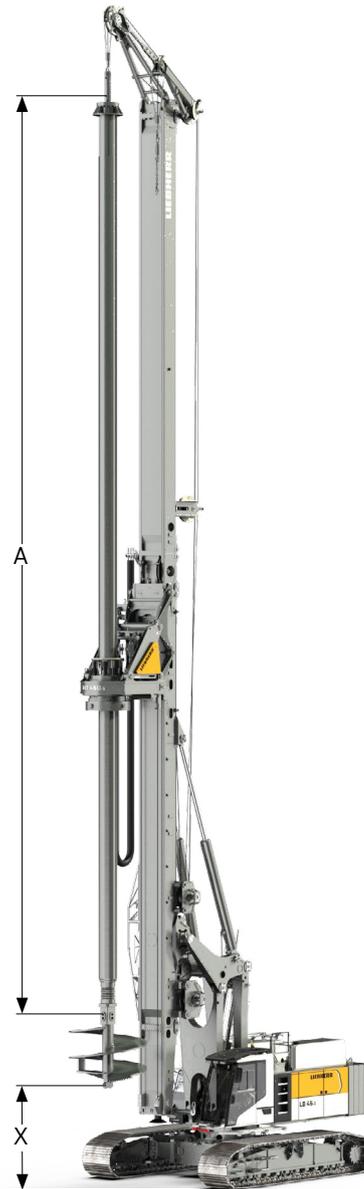


DHR 220

Transport weight lbs 15,212

Kelly drilling

Standard with short leader lower part **Kelly Only (large drilling axis)**



Performance data

| | | | |
|---|--------|----------------------|----------------------|
| Rotary drive - torque | lbf-ft | 0-452 | |
| Rotary drive - speed | rpm | 0-37 | |
| | | Drilling axis 4.3 ft | Drilling axis 5.9 ft |
| Max. drilling diameter cased* | ft | 6.6 | 9.2 |
| Max. drilling diameter uncased | ft | 7.5 | 10.5 |
| Max. drilling diameter uncased with short leader lower part | ft | 12.5 | 14.8 |

Above applications are sample illustrations. Other drilling diameters available on request.

* Depending on casing driver configuration.

Drilling depths with Low Head, standard, folding leader and Kelly Only

Technical data Kelly bars

| Kelly bars Model Length A [ft] Weight [lbs] | | | Drilling depths | | | | | | | | | | | | | | | |
|--|------|--------|--------------------|------------------|----------------------|--------------------|--------------------|------------------|----------------------|--------------------|--------------------|--------------------|----------------------|----------------------|--------------------|------------------|----------------------|--------------------|
| | | | Low Head | | | | Standard | | | | Folding leader | | | | Kelly Only | | | |
| | | | X [ft] | | Depth [ft] | | X [ft] | | Depth [ft] | | X [ft] | | Depth [ft] | | X [ft] | | Depth [ft] | |
| 4.3 | 5.9 | 4.3 | 5.9 | 4.3 | 5.9 | 4.3 | 5.9 | 4.3 | 5.9 | 4.3 | 5.9 | 4.3 | 5.9 | 4.3 | 5.9 | 4.3 | 5.9 | |
| 36/3/30 | 39.0 | 16,755 | 12.5 | 12.1 | 92.8 | 94.8 | 31.8 | 31.5 | 92.8 | 94.8 | 38.4 | 38.1 | 92.8 | 94.8 | 39.4 | 36.4 | 92.8 | 94.8 |
| 36/3/36 | 46.1 | 20,282 | 5.2 ^{1/2} | 4.9 ¹ | 112.5 ^{1/2} | 114.2 | 24.9 | 24.6 | 112.5 | 114.2 | 31.5 | 31.2 | 112.5 | 114.2 | 39.4 | 36.4 | 112.5 | 114.2 |
| 36/4/30 | 32.6 | 18,739 | 18.7 | 18.4 | 92.8 | 94.5 | 38.4 | 38.1 | 92.8 | 94.5 | 44.9 | 44.6 | 92.8 | 94.5 | 39.4 | 36.4 | 92.8 | 94.5 |
| 36/4/42 | 42.5 | 24,030 | 8.9 | 8.5 ¹ | 132.2 ¹ | 133.9 ¹ | 28.5 | 28.2 | 132.2 | 133.9 | 35.1 | 34.8 | 132.2 | 133.9 | 39.4 | 36.4 | 132.2 | 133.9 |
| 36/4/48 | 47.5 | 26,675 | 3.9 ^{1/2} | 3.6 ¹ | 151.9 ^{1/2} | 153.5 ¹ | 23.6 | 23.3 | 151.9 | 153.5 | 30.2 | 29.9 | 151.9 | 153.5 | 39.4 | 36.4 | 151.9 | 153.5 |
| 36/4/54 | 52.3 | 28,660 | - | - | - | - | 18.4 | 18.4 | 171.6 | 173.6 | 25.3 | 25.0 | 171.6 | 173.6 | 38.4 | 36.4 | 171.6 | 173.6 |
| 36/4/60 | 57.3 | 31,085 | - | - | - | - | 13.8 | 13.5 | 191.3 | 192.9 | 20.3 | 20.2 | 191.3 | 192.9 | 33.5 | 33.1 | 191.3 | 192.9 |
| 36/4/66 | 62.2 | 33,730 | - | - | - | - | 8.9 ¹ | 8.5 ¹ | 211.3 ¹ | 212.9 ¹ | 15.4 | 15.1 | 211.3 | 212.9 | 28.5 | 28.2 | 211.3 | 212.9 |
| 36/4/72 | 67.1 | 36,155 | - | - | - | - | 3.9 ^{1/2} | 3.6 ¹ | 230.6 ^{1/2} | 232.6 ¹ | 10.5 ¹ | 10.2 | 230.6 ¹ | 232.6 | 23.6 | 23.3 | 230.6 | 232.6 |
| 36/4/78 | 72.0 | 38,581 | - | - | - | - | - | - | - | - | 5.6 ^{1/2} | 5.3 ¹ | 250.7 ^{1/2} | 252.3 ¹ | 18.7 | 18.4 | 250.7 | 252.3 |
| 36/4/84 | 77.0 | 41,226 | - | - | - | - | - | - | - | - | 0.6 ^{1/2} | 0.3 ^{1/2} | 270.3 ^{1/2} | 272.0 ^{1/2} | 13.8 | 13.5 | 270.3 | 272.0 |
| 36/4/90 | 81.9 | 44,373 | - | - | - | - | - | - | - | - | - | - | - | - | 8.9 ¹ | 8.5 ¹ | 290.0 ¹ | 291.7 ¹ |
| 36/4/93 | 84.5 | 46,518 | - | - | - | - | - | - | - | - | - | - | - | - | 6.2 ¹ | 5.9 ¹ | 299.5 ¹ | 301.2 ¹ |
| 36/4/96 | 86.8 | 45,856 | - | - | - | - | - | - | - | - | - | - | - | - | 3.9 ^{1/2} | 3.6 ¹ | 309.7 ^{1/2} | 311.4 ¹ |

¹ When using a short leader lower part an assist crane is required for installation.

² Installation only possible using auxiliary equipment

Drilling axis 4.3 ft

Drilling axis 5.9 ft

Other Kelly bars available on request.

When using a casing oscillator (standard 118/120 KL, 150 KL, 180 KL and 200 KL), dimension X must be reduced by 5.2 ft.

Other casing oscillators available on request.

When using a Kelly bar guide, dimension X has to be reduced by 4.5 ft for a drilling axis of 4.3 ft, and by 7.5 ft for a drilling axis of 5.9 ft.

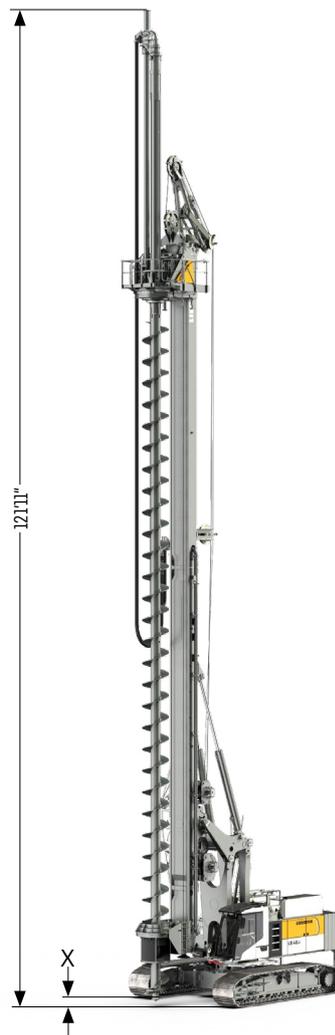
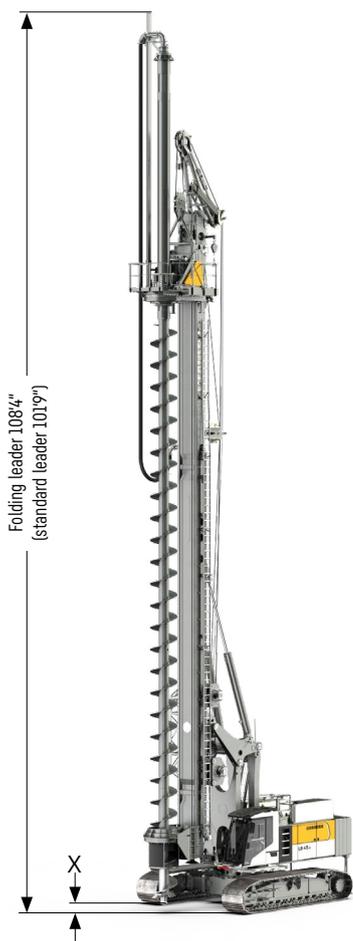
When using a short leader lower part the drilling depth is reduced by 5.7 ft for a drilling axis of 4.3 ft, and by 7.6 ft for a drilling axis of 5.9 ft.

Length of drilling tool 6.2 ft

Continuous flight auger drilling

Folding leader

Single-pass



Performance data

| | | | | | |
|---|--------|-----------|----------|----------------|-------------|
| Rotary drive - torque | lbf-ft | 0-333,378 | | | |
| Rotary drive - speed | rpm | 0-37 | | | |
| Max. drilling diameter* | ft | 3.9 | | | |
| | | Low Head | Standard | Folding leader | Single-pass |
| Drilling depth without Kelly extension | ft | 34.8 | 54.5 | 61.0 | 73.8 |
| Drilling depth with 26.2 ft Kelly extension | ft | 61.0 | 80.7 | 87.3 | 100.1 |
| Max. pull force | lbf | 224,808 | 224,808 | 224,808 | 188,839 |

Above drilling depths take into account that an auger cleaner is used and the cardan joint has been removed.

Above drilling depths are valid for the use of standard tools and for the X dimension of 0.7 ft (see above illustration).

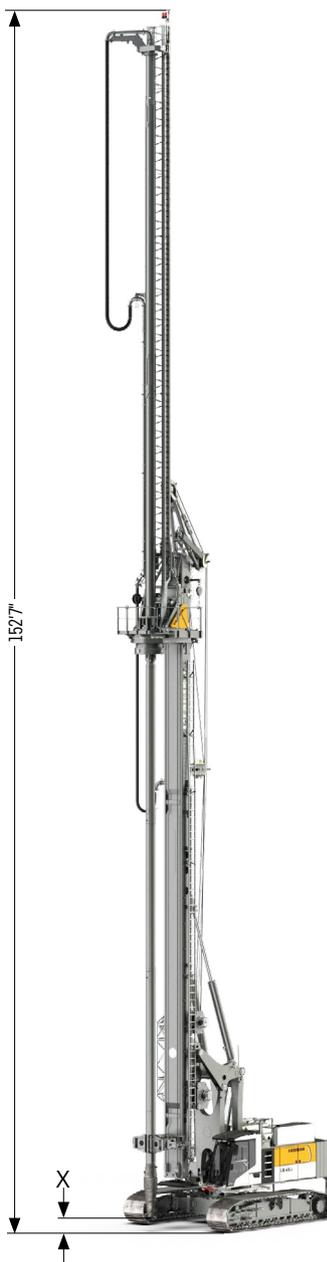
* Other drilling diameters available on request

Full displacement drilling

Folding leader



Lattice boom extension



Performance data

| | | | | | |
|--|--------|----------|----------|----------------|-------------|
| Rotary drive - torque | lbf-ft | 0-33,378 | | | |
| Rotary drive - speed | rpm | 0-37 | | | |
| Max. drilling diameter* | ft | 2.6 | | | |
| | | Low Head | Standard | Folding leader | Single-pass |
| Drilling depth without Kelly extension | ft | 37.1 | 56.8 | 63.3 | 76.4 |
| Drilling depth with 26.2 ft Kelly extension | ft | 63.3 | 83.0 | 89.6 | 102.7 |
| Drilling depth with 59.1 ft lattice boom extension | ft | - | 109.9 | 122.4 | - |
| Max. pull force | lbf | 224,808 | 224,808 | 224,808 | 188,839 |

Above drilling depths are valid for the use of standard tools and for an X dimension of 1.4 ft (see above illustration).

* Other drilling diameters available on request

Double rotary drilling

DBA 220



Performance data

| | | | | | |
|--------------------------|--------|-----------|----------|----------------|-------------|
| Rotary drive I - torque | lbf-ft | 0-161,526 | | | |
| Rotary drive I - speed | rpm | 0-22 | | | |
| Rotary drive II - torque | lbf-ft | 0-80,394 | | | |
| Rotary drive II - speed | rpm | 0-37 | | | |
| Max. drilling diameter* | ft | 3.0 | | | |
| | | Low Head | Standard | Folding leader | Single-pass |
| Drilling depth** | ft | 35.4 | 55.1 | 61.7 | 74.8 |
| Max. pull force | lbf | 184,343 | 184,343 | 184,343 | 184,343 |

Above drilling depths are valid for the use of standard tools and for an X dimension of 3.1 ft (see above illustration). Due to differences in the max. admissible load capacities, the combinations of drilling depth and drilling diameter may be limited.

* Other drilling diameters on request

** When using a protective hose, the maximum drilling depth has to be reduced by 1.2 ft.

Soil mixing

MA 220 / BAT 450.1



Performance data MA 220

| | | | | | |
|---|--------|-----------|----------|----------------|-------------|
| Rotary drive - torque | lbf-ft | 0-162,264 | | | |
| Rotary drive - speed | rpm | 0-80 | | | |
| Max. mixing diameter* | ft | 4.9 | | | |
| | | Low Head | Standard | Folding leader | Single-pass |
| Mixing depth | ft | 36.4 | 56.1 | 62.7 | 75.8 |
| Mixing depth with 26.2 ft Kelly extension | ft | 62.7 | 82.3 | 88.9 | 102.0 |
| Max. pull force | kN | 224,808 | 224,808 | 224,808 | 188,839 |

Performance data BAT 450.1

| | | | | | |
|---|--------|-----------|----------|----------------|-------------|
| Rotary drive - torque | lbf-ft | 0-333,378 | | | |
| Rotary drive - speed | rpm | 0-37 | | | |
| Max. mixing diameter* | ft | 7.5 | | | |
| | | Low Head | Standard | Folding leader | Single-pass |
| Mixing depth | ft | 36.4 | 56.1 | 62.7 | 75.8 |
| Mixing depth with 26.2 ft Kelly extension | ft | 62.7 | 82.3 | 88.9 | 102.0 |
| Max. pull force | lbf | 224,808 | 224,808 | 224,808 | 188,839 |

Above mixing depths are valid for the use of standard tools and for the X dimension of 2.0 ft (see above illustration).

When using a short leader lower part the mixing depth is reduced by 5.7 ft

* Other mixing diameters available on request

Down-the-hole drilling



Performance data DHR 220

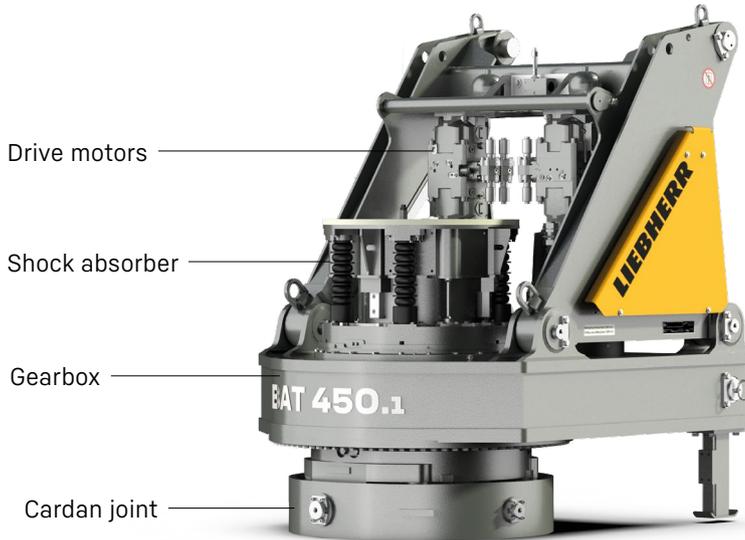
| | | | | | |
|-----------------------|--------|--------------------|--------------------|--------------------|--------------------|
| Rotary drive - torque | lbf-ft | 0-160,788 | | | |
| Rotary drive - speed | rpm | 0-25 | | | |
| | | Low Head | Standard | Folding leader | Single-pass |
| Drilling depth | ft | 36.7 | 56.4 | 63.0 | 76.1 |
| Folding function | ° | 0-90 | | | |
| Max. pull force | lbf | 134,885*/179,847** | 134,885*/179,847** | 134,885*/179,847** | 134,885*/179,847** |

Above drilling depths are valid for the use of standard tools and for an X dimension of 1.6 ft (see above illustration).

* Max. pull force in drilling operation

** Max. pull force in recovery mode

BAT 450.1



Kelly shock absorber:

- Newly developed Kelly shock absorber for highest demands
- Possibility of adjusting the strength of the Kelly shock absorber for different Kelly bar weights

Highest availability through easy set-up:

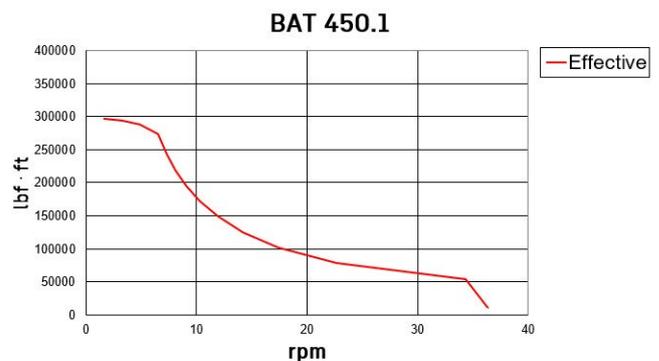
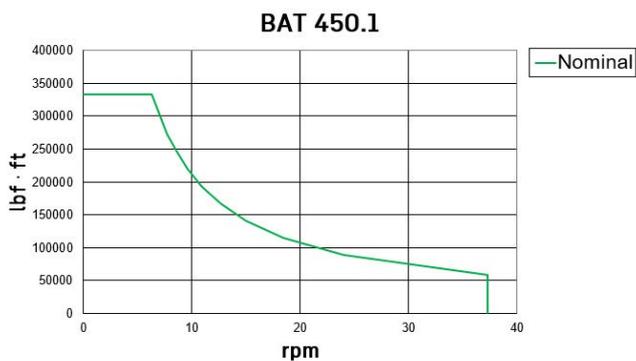
- No mechanical shift gearbox
- Low maintenance requirements

Automatic gearbox for best operating comfort:

- No stopping required to change gears
- No interruption of the drilling process
- Continuous optimization of speed

Flexibility through modular design:

- Exchangeable cardan joint for other casing drivers
- Exchangeable drive adapters for use of other Kelly bars
- Quickly exchangeable equipment for other methods of operation



Digital solutions

Liebherr-Werk Nenzing GmbH has set itself the goal of using digital solutions to network and optimise processes on the jobsite.

In the progression from an experienced machine manufacturer to a full-service provider Liebherr already has a number of digital solutions, which provide substantial support for all those involved in the construction site.



MyLiebherr

One portal, all services



PDE

Process data recording



MyJobsite

Your jobsite at a glance



LIPOS

Positioning system



XpertAssist

Remote support in real time



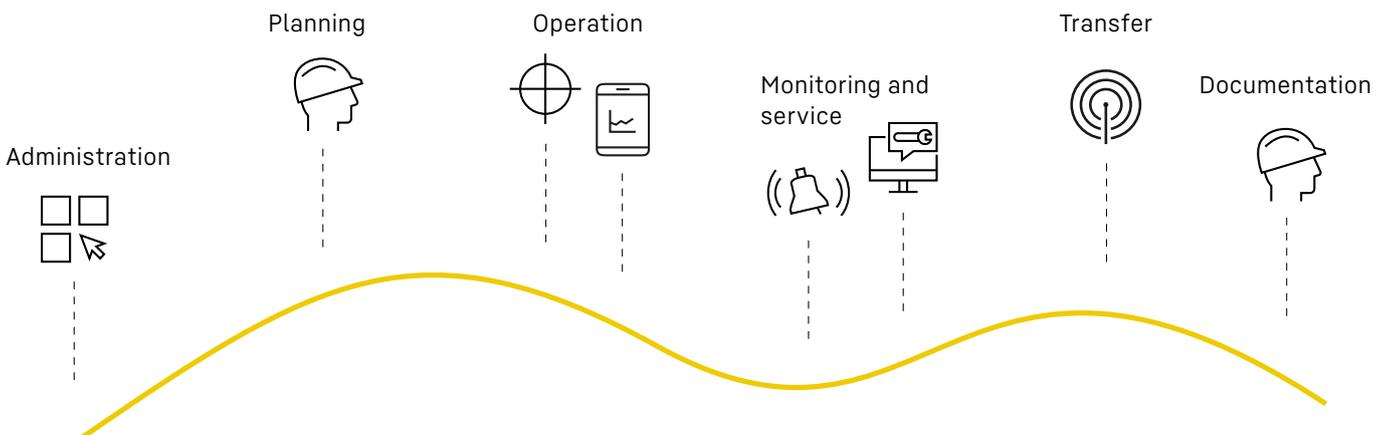
LiDAT

Data transfer and positioning system



MyNotifier

Monitoring tool for wind conditions and battery status





Download datasheet



Please contact us.

Liebherr-Werk Nenzing GmbH · Dr. Hans Liebherr Str. 1 · 6710 Nenzing, Austria
Phone +43 50809 41-473 · foundation.equipment@liebherr.com · www.liebherr.com
facebook.com/LiebherrConstruction