**EN-US** 



# LB 25 unplugged

LB 2102.07 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.



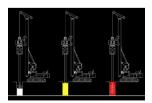
#### Attachment recognition

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.



#### 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
- Auger filling level display for drilling tools
- Kelly winch with freewheeling and with slack rope monitoring, reduction and limitation
- Crowd booster



#### **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.



#### 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.



#### Kelly visualisation

- -Time savings
- Higher availability
- More safety
- -Cost reduction

# **Technical description**



| Max. drive power    | 390 kW                               |
|---------------------|--------------------------------------|
| Battery type        | High Performance Battery System      |
| Technology          | Li-Ion NMC (nickel manganese cobalt) |
| Max. charging power | 20 kW (CEE socket 32 A / 400 V AC)   |
|                     | 40 kW (CEE socket 63 A / 400 V AC)   |
|                     | 80 kW (CEE socket 125 A / 400 VAC)   |
| Mains voltage       | 400 VAC (3 phase + N + PE)           |
| Capacity            | 4 h*                                 |
| Option              | 6 h*                                 |

<sup>\*</sup> in normal operation

## Kelly winch with freewheeling

| Line pull effective | 44,962 lbf (1st layer) |  |
|---------------------|------------------------|--|
| Rope diameter       | 28 mm                  |  |
| Rope speed          | 0-312 ft/min           |  |
|                     |                        |  |

# † Auxiliary winch

| Line pull effective | 17,985 lbf (1st layer) |  |
|---------------------|------------------------|--|
| Rope diameter       | 20 mm                  |  |
| Rope speed          | 0-271 ft/min           |  |

# Hydraulic system

| Hydraulic oil tank capacity | 159 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         | 0-1.26 mph   |
| Track force         | 98,916 lbf   |
| Grousers            | Width 27.6 inch  |

## Swing gear

| Swilly year  |  |
|--------------|--|
| 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                         |

# † Crowd system

| Crowd force                       | 67,443/67,443 lbf (push/pull) |
|-----------------------------------|-------------------------------|
| Line pull effective               | 33,721 lbf (1st layer)        |
| Rope diameter                     | 24 mm                         |
| Travel with standard leader       | 56.8 ft                       |
| between mechanical limit stops    |                               |
| Travel with Ultra-Low-Head leader | 15.1 ft                       |
| and short leader lower part       |                               |
| Rope speed                        | 0-289 ft/min                  |
|                                   |                               |

# Noise measurement data and vibration

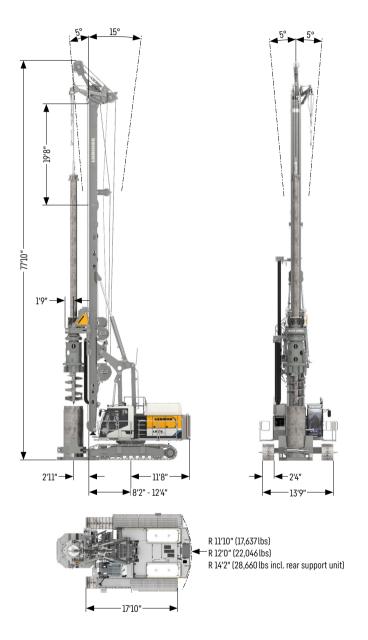
| Noise emission                                | according to | o 2000/14/EC directive   |
|---|--------------|--------------------------|
| Emission sound pressure level L <sub>PA</sub> | 77.0 dB(A)   | (in the cabin)           |
| Guaranteed sound power level L <sub>wa</sub>  | 101 dB(A)    | (of the machine)         |
| Vibration transmitted to the                  | < 8.2ft/s²   | (to the hand-arm system) |
| machine operator                              | < 1.6 ft/s²  | (to the whole body)      |

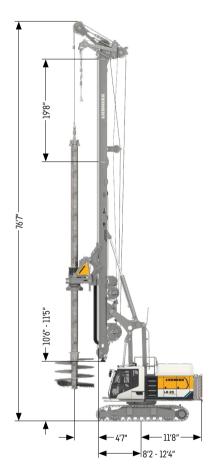
#### Remarks:

- -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**





#### **Operating weights**

| Total weight with 27.6 inch 3-web grousers | lbs 160,937 |
|--|-------------|
| Total weight with 31.5 inch 3-web grousers | lbs 161,819 |

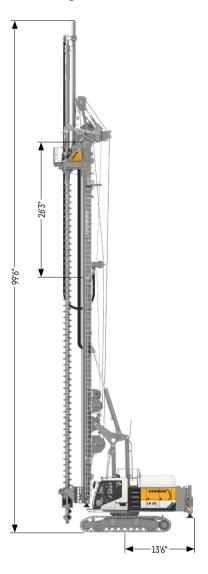
The operating weight includes the basic machine LB 25 unplugged with rotary, Kelly bar 20/3/27, 17,637 lbs counterweight and equipment for casing oscillator.

#### **Operating weights**

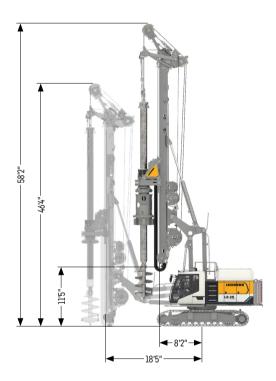
| Total weight with 27.6 inch 3-web grousers | lbs 171,520 |
|--|-------------|
| Total weight with 31.5 inch 3-web grousers | lbs 172,401 |

The operating weight includes the basic machine LB 25 unplugged with rotary, Kelly bar 20/4/48, 22,046 lbs counterweight and equipment for casing oscillator.

# Folding leader



### **Low Head**



#### **Operating weights**

| Total weight with 27.6 inch 3-web grousers | lbs | 179,015 |
|--|-----|---------|
| Total weight with 31.5 inch 3-web grousers | lbs | 179,900 |

The operating weight includes the basic machine LB 25 unplugged with rotary, continuous flight auger 65.6 ft, 28,660 lbs counterweight and equipment for casing oscillator.

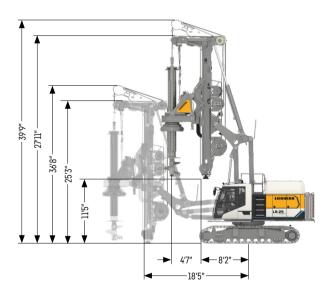
#### **Operating weights**

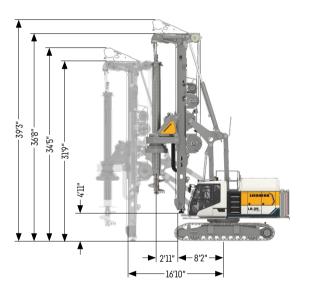
| Total weight with 27.6 inch 3-web grousers | lbs | 156,528 |
|--|-----|---------|
| Total weight with 31.5 inch 3-web grousers | lbs | 157,410 |

The operating weight includes the basic machine LB 25 unplugged with rotary, Kelly bar 20/3/18 and 22,046 lbs counterweight.

Equipment for casing oscillator not included. The line pull of the Kelly winch is reduced to  $22,\!480$  lbf when working at a radius exceeding 13.3 ft.

#### **Ultra Low Head**





#### **Operating weights**

| Total weight with 27.6 inch 3-web grousers | lbs 160,717 |  |
|--|-------------|--|
| Total weight with 31.5 inch 3-web grousers | lbs 161,599 |  |

The operating weight includes the basic machine LB 25 unplugged with rotary, Kelly bar 20/3/15, 28,660 lbs counterweight and equipment for casing oscillator.

The line pull of the Kelly winch is reduced to 35 969 lbf when working at a radius exceed

The line pull of the Kelly winch is reduced to 35,969 lbf when working at a radius exceeding 12.3 ft.

#### **Operating weights**

| Total weight with 27.6 inch 3-web grousers | lbs | 162,481 |
|--|-----|---------|
| Total weight with 31.5 inch 3-web grousers | lbs | 163,362 |

The operating weight includes the basic machine LB 25 unplugged with rotary, Kelly bar 20/3/18 and 28,660 lbs counterweight. Equipment for casing oscillator not included. The line pull of the Kelly winch is reduced to 35,969 lbf when working at a radius exceeding 12.3 ft.

# **Local zero emission**

#### **Emission-free**

The new machines with alternative electro-hydraulic drive have a very low noise level and are also emission-free. That is a huge advantage in areas sensitive to noise and also for the people working on the jobsite.

#### Operation

The LB 25 unplugged can be operated both connected to the power supply (plugged in) or powered by battery (unplugged).

#### Sustainability

Liebherr is aware of its responsibility towards society and the environment and, with the unplugged series, strives for the best possible combination of environmental sustainability, customer benefit and efficiency.





#### Plugged in

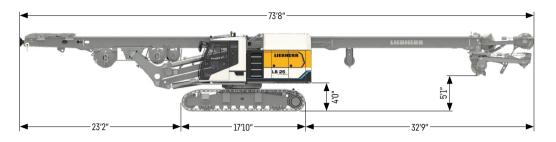
When connected to the power supply, there are no restrictions in performance and application of the machine when compared to the conventional version with diesel engine. The battery is constantly charged when connected to the power supply and therefore always provides sufficient energy.

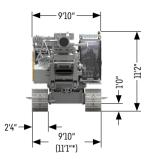


#### Unplugged

In normal operation, the battery is designed for an operating time of 4 hours (standard) or 6 hours (option). It can be simply recharged using a conventional jobsite electric supply (32 A, 63 A, 125 A).

# **Transport dimensions and weights**

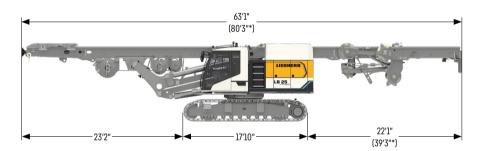




#### Standard leader (19.7 ft leader upper part)

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

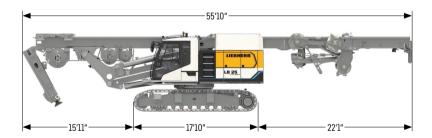
\* Transport width with 31.5 inch grousers



#### Folding leader (26.2 ft leader upper part)

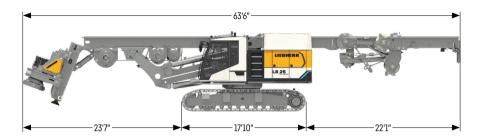
includes the basic machine (ready for operation) with leader, without attach—lbs 117,506 ments (such as rotary, Kelly bar etc.), without counterweight and without adapter for casing oscillator

\* Transport length leader not folded



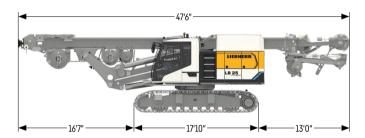
#### Leader lower and upper part folded

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



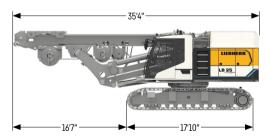
#### Leader lower and upper part folded (with BAT)

includes the basic machine (ready for operation) with leader, BAT 250, without lbs 129,191 counterweight and without adapter for casing oscillator



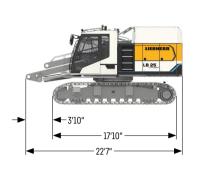
#### **Low Head**

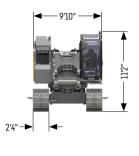
includes the basic machine (ready for operation) with leader, without attach—lbs 111,113 ments (such as rotary, Kelly bar etc.), without counterweight and without adapter for casing oscillator



#### Ultra Low Head

includes the basic machine (ready for operation) with leader, without attach- lbs 107,586 ments (such as rotary, Kelly bar etc.), without counterweight and without adapter for casing oscillator

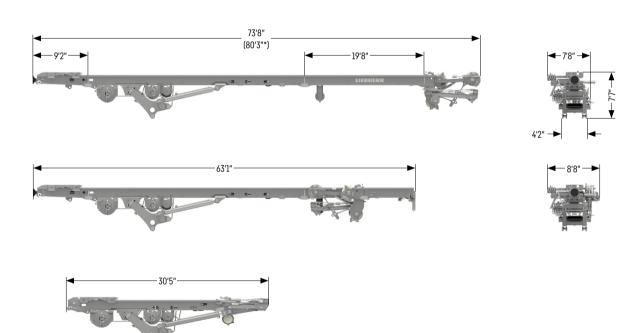




#### Basic machine

with crawler side frames, without counterweight and without adapter for casing oscillator

lbs 77,603



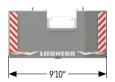
#### **Leader versions**

| 20440. 10.0.0.0            |     |        |
|----------------------------|-----|--------|
| Standard leader            | lbs | 39,242 |
| Folding leader             | lbs | 41,226 |
| Standard leader lower part | lbs | 1,543  |
| 19.7 ft leader extension   | lbs | 3,306  |
| 26.2ft leader extension    | lbs | 5,291  |
| Leader top                 | lbs | 3,748  |
| Short leader lower part    | lbs | 661    |

<sup>\*</sup> Transport length folding leader

#### Options

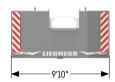
| Adapter for casing oscillator    | lbs | 1,764 |
|----------------------------------|-----|-------|
| Concrete supply line             | lbs | 1,323 |
| All round platform with railings | lbs | 882   |





#### Counterweight

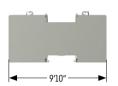
Weight lbs 11,023



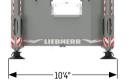


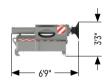
#### Counterweight

Weight lbs 17,637









#### Intermediate slab

Weight lbs 11,023

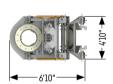
#### Counterweight with rear support unit

Weight lbs 17,637









#### **BAT 250**

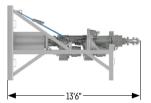
Transport weight lbs 11,684

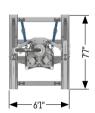
#### BAT 250 with adapter for drilling axis 4.6 ft

Transport weight lbs 14,110







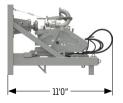


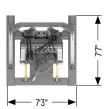
#### MA 180

Transport weight lbs 12,346

#### DBA 90

Transport weight lbs 12,566





#### **DHR 110**

Transport weight lbs 12,787

# **Kelly drilling**

## **Standard**



## Standard (large drilling axis)



#### Performance data

| lbf-ft | 0-185,866           |   |
|--------|---------------------|---|
| rpm    | 0-58                |   |
|        | Drilling axis 2.9ft | Drilling axis 4.6ft                         |
| ft     | 3.9                 | 7.2   |
| ft     | 4.9                 | 8.2   |
| ft     | 8.9                 | 10.8  |
|        | rpm<br>ft           | rpm 0-58 Drilling axis 2.9ft  ft 3.9 ft 4.9 |

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

<sup>\*</sup> Depending on casing driver configuration.

## **Drilling depths**

**Technical data Kelly bars** 

|         |               |              | Drilling depths   |                  |                    |                    |                   |          |                    |        |  |
|---------|---------------|--------------|-------------------|------------------|--------------------|--------------------|-------------------|----------|--------------------|--------|--|
|         | Kelly bars    |              |                   | Low Head         |                    |                    |                   | Standard |                    |        |  |
| Model   | Length A [ft] | Weight [lbs] | X [               | ft]              | Dept               | h [ft]             | ] X               | ft]      | Dept               | h [ft] |  |
|         |               |              | 2.9               | 4.6              | 2.9                | 4.6                | 2.9               | 4.6      | 2.9                | 4.6    |  |
| 20/3/18 | 25.6          | 7,496        | 17.7              | 16.4             | 54.5               | 56.1               | 37.4              | 36.1     | 54.5               | 56.1   |  |
| 20/3/21 | 29.4          | 8,818        | 13.8              | 12.8             | 64.3               | 65.9               | 33.5              | 32.5     | 64.3               | 65.9   |  |
| 20/3/24 | 32.6          | 9,700        | 10.5 <sup>1</sup> | 9.5              | 74.1 <sup>1</sup>  | 75.8               | 30.2              | 29.2     | 74.1               | 75.8   |  |
| 20/3/27 | 35.4          | 10,141       | 7.21              | 6.21             | $84.0^{1}$         | 85.6 <sup>1</sup>  | 26.9              | 25.9     | 84.0               | 85.6   |  |
| 20/3/30 | 38.7          | 10,803       | 4.61/2            | 3.3 <sup>1</sup> | 93.81/2            | 95.5 <sup>1</sup>  | 24.3              | 23.0     | 93.8               | 95.5   |  |
| 20/3/33 | 42.0          | 11,464       | 1.31/2            | -                | 103.71/2           | -                  | 21.0              | 20.0     | 103.7              | 105.3  |  |
| 20/4/36 | 37.0          | 13,669       | 6.21              | 4.91             | 113.5 <sup>1</sup> | 115.2 <sup>1</sup> | 25.9              | 24.6     | 113.5              | 115.2  |  |
| 20/4/42 | 42.2          | 15,212       | 1.01/2            | -                | $133.5^{1/2}$      | -                  | 20.7              | 19.7     | 133.5              | 135.2  |  |
| 20/4/48 | 46.6          | 18,078       | -                 | -                | -                  | -                  | 16.1              | 14.8     | 152.9              | 154.5  |  |
| 20/4/54 | 52.0          | 18,960       | -                 | -                | -                  | -                  | 10.8 <sup>1</sup> | 9.8      | 172.9 <sup>1</sup> | 174.5  |  |

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

Drilling axis 2.9 ft
Drilling axis 4.6 ft

Other Kelly bars available on request

When using a casing oscillator (standard 118/120 KL), value X has to be reduced by 3.9 ft.

When using a Kelly bar guide, value X has to be reduced by 1.6 ft.

When using a short leader lower part the drilling depth is reduced by 6.6 ft for a drilling axis of 3 ft, and by 8.2 ft for a drilling axis of 4.6 ft.

Length of drilling tool 6.2 ft

## **Drilling depths with Ultra Low Head**

Technical data Kelly bars

|         |               |              | Drilling depths with short leader lower part |                       |              |                   |                   |                   |                   |                   |
|---------|---------------|--------------|--|-----------------------|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|         | Kelly bars    |              |  | Leader top horizontal |              |                   |                   | Leader t          | op raised         |                   |
| Model   | Length A [ft] | Weight [lbs] | X  | [ft]                  | Dept         | th [ft]           | X [ft]            |                   | Depth [ft]        |                   |
|         |               |              | 2.9  | 4.6                   | 2.9          | 4.6               | 2.9               | 4.6               | 2.9               | 4.6               |
| 20/3/15 | 22.9          | 7,055        | 7.5 <sup>2</sup>                             | 7.5 <sup>2</sup>      | 34.12        | 33.8 <sup>2</sup> | 10.5 <sup>2</sup> | 10.5 <sup>2</sup> | 34.12             | 33.8 <sup>2</sup> |
| 20/3/18 | 25.6          | 7,496        | 4.6 <sup>2</sup>                             | 14.62                 | 44.02        | 43.6 <sup>2</sup> | 7.9 <sup>2</sup>  | 7.92              | 44.0 <sup>2</sup> | 43.62             |
| 20/3/21 | 29.4          | 8,818        | -  | -                     | -            | -                 | 3.9 <sup>2</sup>  | $3.9^{2}$         | 53.8 <sup>2</sup> | $53.5^{2}$        |
|         |               |              |  |                       | Orilling dep | ths with sta      | ndard lead        | er lower pa       | rt                |                   |
| 20/3/15 | 22.9          | 7,055        | 7.5 <sup>1</sup>                             | 7.5                   | 40.71        | 42.3              | 10.5              | 10.5              | 40.7              | 42.3              |
| 20/3/18 | 25.6          | 7,496        | 4.6 <sup>2</sup>                             | 14.61                 | $50.5^{2}$   | $52.2^{1}$        | 7.9 <sup>2</sup>  | 7.9               | $50.5^{2}$        | 52.2              |
| 20/3/21 | 29.4          | 8,818        | -  | -                     | -            | -                 | 3.9 <sup>2</sup>  | 3.9 <sup>2</sup>  | 160.42            | 62.0 <sup>2</sup> |

 $<sup>^{\</sup>mathrm{1}}$  Installation of Kelly bar with raised leader top

Drilling axis 2.9 ft

Drilling axis 4.6 ft

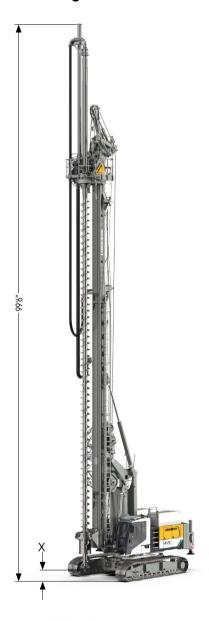
Other Kelly bars available on request. Values indicated for minimum radius Length of drilling tool 2.3 ft

<sup>&</sup>lt;sup>2</sup> Installation only possible using auxiliary equipment

 $<sup>^{\</sup>rm 2}\,\mbox{Installation}$  only possible using auxiliary equipment

# **Continuous flight auger drilling**

# Folding leader



#### Performance data

| i oi ioimanoo aata                          |        |           |          |                |
|---|--------|-----------|----------|----------------|
| Rotary drive - torque                       | lbf-ft | 0-169,639 |          |                |
| Rotary drive - speed                        | rpm    | 0-58      |          |                |
| Max. drilling diameter*                     | ft     | 3.2       |          |                |
|   |        | Low Head  | Standard | Folding leader |
| Drilling depth without Kelly extension      | ft     | 33.1      | 52.8     | 59.4           |
| Drilling depth with 19.7 ft Kelly extension | ft     | 52.8      | 72.5     | 79.1           |
| Max. pull force                             | lbf    | 157,366   | 157,366  | 157,366        |

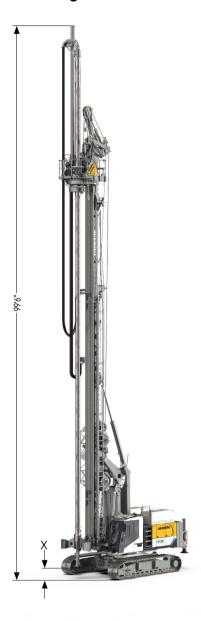
 $Above \ drilling \ depths \ take \ into \ account \ that \ an \ auger \ cleaner \ is \ used \ and \ the \ cardan \ joint \ has \ been \ removed.$ 

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

<sup>\*</sup> Other drilling diameters available on request

# **Full displacement drilling**

# Folding leader



#### Performance data

| i ci ioimanoc aata                          |        |           |          |                |
|---|--------|-----------|----------|----------------|
| Rotary drive - torque                       | lbf-ft | 0-169,639 | ,        |                |
| Rotary drive - speed                        | rpm    | 0-58      |          |                |
| Max. drilling diameter*                     | ft     | 1.6       |          |                |
|   |        | Low Head  | Standard | Folding leader |
| Drilling depth without Kelly extension      | ft     | 34.8      | 54.5     | 61.0           |
| Drilling depth with 19.7 ft Kelly extension | ft     | 54.5      | 74.1     | 80.7           |
| Max. pull force                             | lbf    | 157,366   | 157,366  | 157,366        |

Above drilling depths are valid for the use of standard tools and for an X value of 2.2 ft (see above illustration).

\* Other drilling diameters available on request

# **Double rotary drilling**

#### **DBA 90**



#### Performance data

| Rotary drive I - torque             | lbf-ft | 0-66,381 |                                |  |
|-------------------------------------|--------|----------|--------------------------------|--|
| Rotary drive I - speed              | rpm    | 0-32     |                                |  |
| Rotary drive II - torque            | lbf-ft | 0-50,154 |                                |  |
| Rotary drive II - speed             | rpm    | 0-44     |                                |  |
| Max. drilling diameter*             | ft     | 2.0      |                                |  |
|                                     |        | Low Head | Standard                       | Folding leader   |
| Drilling depth                      | ft     | 34.1     | 53.8                           | 60.4   |
| Max. pull force                     | lbf    | 67,443   | 67,443                         | 67,443   |
| About APIC and a the comment of the |        |          | V -1 (0.0 (1 ( 1 11 - 1 - 11 - | ) D   1996   1996   1997   199 |

Above drilling depths are valid for the use of standard tools and for an X value of 2.9 ft (see above illustration). Due to differences in the max. admissible load capacities, the combinations of drilling depth and drilling diameter may be limited.

<sup>\*</sup> Other drilling diameters available on request

# **Soil mixing**

## MA 180 / BAT 250





#### Performance data MA 180

| Rotary drive - torque                     | lbf-ft | 0-121,698 |          |                |
|---|--------|-----------|----------|----------------|
| Rotary drive - speed                      | rpm    | 0-80      |          |                |
| Max. mixing diameter*                     | ft     | 4.9       |          |                |
|   |        | Low Head  | Standard | Folding leader |
| Mixing depth                              | ft     | 36.1      | 55.8     | 62.3           |
| Mixing depth with 19.7 ft Kelly extension | ft     | 55.8      | 78.7     | 82.0           |
| Max. pull force                           | lbf    | 67,443    | 67,443   | 67,443         |

#### Performance data BAT 250

| Rotary drive - torque                     | lbf-ft | 0-169,639 |          |                |
|---|--------|-----------|----------|----------------|
| Rotary drive - speed                      | rpm    | 0-58      |          |                |
| Max. mixing diameter*                     | ft     | 4.9       |          |                |
|   |        | Low Head  | Standard | Folding leader |
| Mixing depth                              | ft     | 34.8      | 54.5     | 61.0           |
| Mixing depth with 19.7 ft Kelly extension | ft     | 54.5      | 74.1     | 80.7           |
| Max. pull force                           | lbf    | 157,366   | 157,366  | 157,366        |

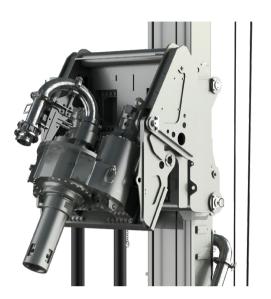
Above mixing depths are valid for the use of standard tools and for an X value of 1.0 ft for MA 180, and 2.2 ft for BAT 250 (see above illustration).

<sup>\*</sup> Other mixing diameters available on request

# **Down-the-hole drilling**

## **DHR 110**





#### Performance data DHR 110

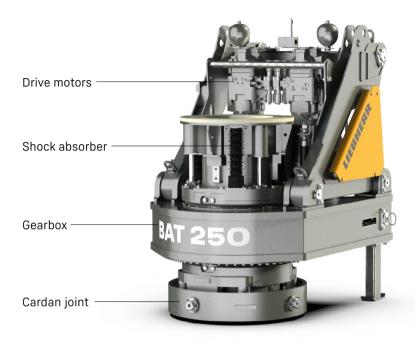
| 1 CHOIMIGHEE GARA DITK 110 |        |                   |                   |                   |
|----------------------------|--------|-------------------|-------------------|-------------------|
| Rotary drive - torque      | lbf-ft | 0-78,182          |                   |                   |
| Rotary drive - speed       | rpm    | 0-41              |                   |                   |
|                            |        | Low Head          | Standard          | Folding leader    |
| Drilling depth             | ft     | 35.1              | 54.8              | 61.4              |
| Folding function           | 0      | 0-90              | 0-90              | 0-90              |
| Max. pull force            | lbf    | 134,885*/78,683** | 134,885*/78,683** | 134,885*/78,683** |

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

<sup>\*</sup> Max. pull force recovery mode

<sup>\*\*</sup> Max. pull force drilling operation

# **BAT 250**



#### 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

#### Automatic gearbox for best operating comfort:

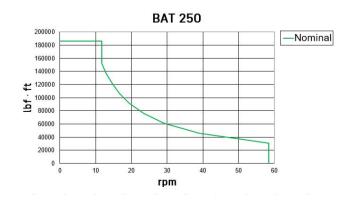
- -No stopping required to change gears
- -No interruption of the drilling process
- -Continuous optimization of speed

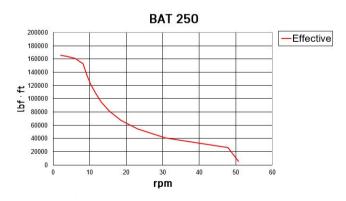
#### Highest availability through easy set-up:

- No mechanical shift gearbox
- -Low maintenance requirements

#### 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.



One portal, all services



Process data recording



Your jobsite at a glance



Positioning system



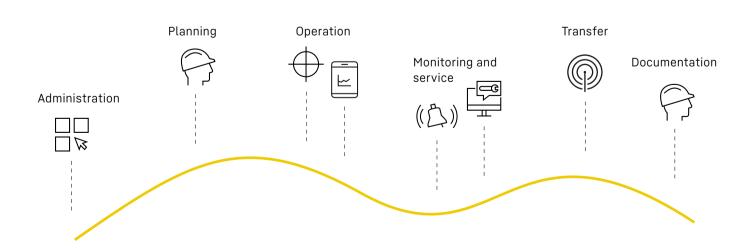
Remote support in real time



Data transfer and positioning system

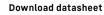


Monitoring tool for wind conditions and battery status











Please contact us.