

NEW

BAUER BG 28 H

Drilling Rig

Base Carrier BT 75



Experience for you!

“Technology market leader and pioneer for innovations, at the same time down-to-earth with responsibility towards society and environment - that’s our goal.”

Prof. Dr. Sebastian Bauer

We could start by telling you about Sebastian Bauer, who founded a copper forge in the German town of Schrobenhausen some 200 years ago. We could then move on to how his workshop prospered and developed to a leading construction company for specialist foundation engineering. The story would continue to the mid 20th century, when innovation and the drive for perfection prompted Bauer to develop and build their own high-quality and high-performance machinery.

And it still wouldn’t end in the 21st century, Bauer now family-run in the seventh generation and meanwhile a globally operating group with more than 100 branches and subsidiaries operating in the fields of special foundation engineering (Bauer Spezialtiefbau), in manufacturing of foundation equipment (Bauer Maschinen) and focusing on products and services in the fields of water, energy, mineral resources and environmental technology (Bauer Resources).

But we think what really matters about us and to our customers is this: We are a strong partner with face and values, we are down to earth, and we are dedicated to perfection in everything we touch.



1790

Foundation as a copper forge in Schrobenhausen, Germany



1928

Well drilling in Bavaria, Germany



1958

Invention of the ground anchor by Dr.-Ing. K.H. Bauer



1976

First hydraulic rotary drill rig BAUER BG 7



1984

First diaphragm wall trench cutter BC 30

More than machines: Competent consulting

*Quality is not an act,
it is a habit.*

Of the thousands of machines Bauer Maschinen has built since production started in the 1970's with the first rotary drill rig BG 7, many of them are still in operation all over the world – in Siberia as well as in the desert. State of the art technology developed end-to-end by our inhouse engineers and full machine tests prior to delivery are one side of the coin. Bauer Maschinen can serve any customer need with the most comprehensive product portfolio.

The other side is project-specific consulting by highly trained experts, with a focus on your special requirements.

- **Quality and experience in specialist foundation engineering**
- **Global operation – local contacts in over 70 countries**
- **Reliability in technology, service**
- **Customized solutions**
- **On-site support over entire machine service life**



1980's

Start of international equipment sales



2001

Bauer Maschinen established as independent company within the BAUER Group



2006

Stock market launch of BAUER AG, directed by Prof. Thomas Bauer



2011

Introduction of BG ValueLine and BG PremiumLine



2014

With EEP Bauer sets new standards for efficiency

The Bauer Drilling Rig stands for multifunction equipment for a variety of foundation construction systems. The selection between two model ranges allows an optimum choice for differing project or transportation requirements.

Specific highlights of the drilling rigs are:

- High safety standards
- Environmental sustainability, economic efficiency and performance
- Easy to transport and short rigging time
- High quality standard
- Long lifetime and excellent resale value

The H-Model Line

Special features of the H-model line are:

- Fast loading onto transport vehicles
- Easy rigging on-site due to compact design
- Rapid shifting to new working positions at construction sites with underpasses or below low bridges



**BG 23 H
BT 65**



**BG 23 H
BT 75**



**BG 28 H
BT 75**

The V-Model Line

Special features of the V-model line are:

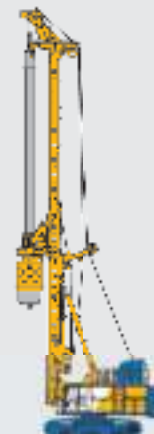
- Big borehole diameters
- Large drilling depths
- Extended service intervals and power transmission with low vibrations due to the robust design of the kinematic system



**BG 33
BT 85**



**BG 36
BS 95**



**BG 45
BS 95**

The Drilling Rig BG 28 H (BT 75)

| | |
|-------------------------|-------------|
| Max. drilling diameter: | 2,500 mm |
| Max. drilling depth: | 65.7 m |
| Max. torque: | 282 kNm |
| Max. height: | 24.9 m |
| Engine: | CAT C 9.3 B |
| | 310 kW |



BG 28 H
BT 85



BG 33 H
BT 85



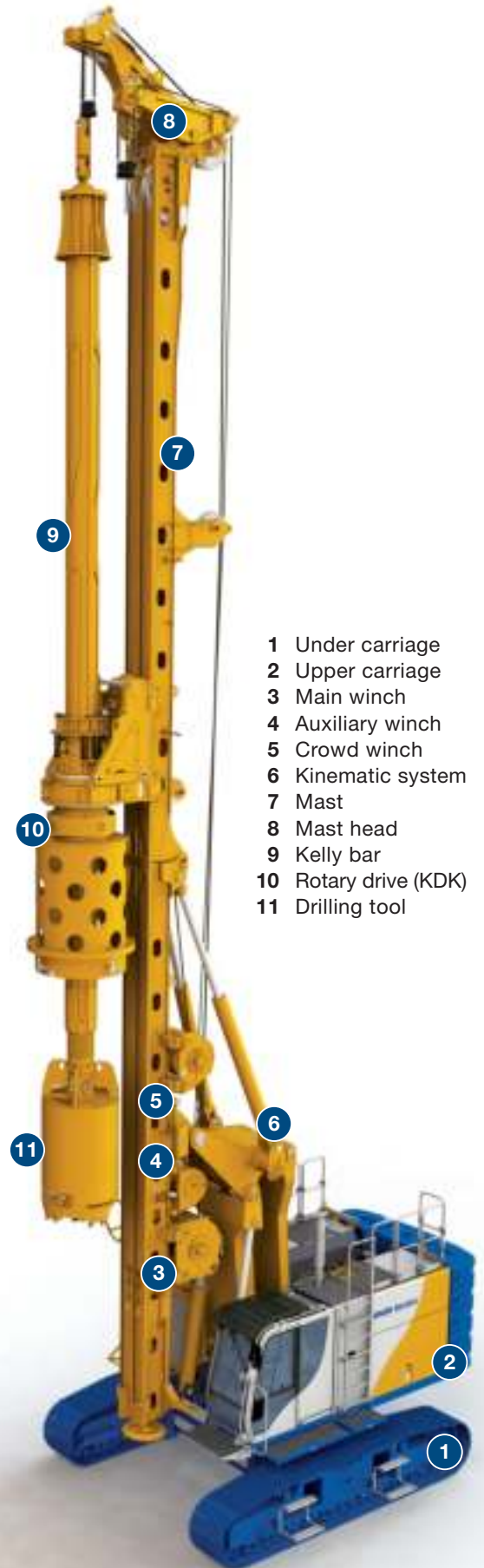
BG 36 H
BS 95



BG 55
BS 115



BG 72
BT 180



- 1 Under carriage
- 2 Upper carriage
- 3 Main winch
- 4 Auxiliary winch
- 5 Crowd winch
- 6 Kinematic system
- 7 Mast
- 8 Mast head
- 9 Kelly bar
- 10 Rotary drive (KDK)
- 11 Drilling tool



Modern, ergonomic operator's cab

- FOPS compliant with additional protective roof guard
- Premium operator seat, air-sprung, heatable and air-conditioned
- Joystick controls with high functionality
- B-Drive for multi-functional potentiometer input

Powerful CAT engines

- CAT C 9.3 B (Stage V / Tier 4 final or ORA*)
- Diesel particulate filter in exhaust emission Stage V / Tier 4 final
- Low noise emission
- Worldwide CAT service partners



Safety equipment

- Integrated service platforms in the upper carriage for easy and safe maintenance work
- Retractable grating on side of cab
- Guardrails on the upper level (foldable for transport)
- 2 rear view cameras



**Energy-Efficient
Power**

- Reduction of fuel consumption by up to 30%
- Increased productivity through improved efficiency
- Significantly reduced noise levels
- Tried and proven suitability for practical application
- Optimized parallel operation of main and auxiliary consumers

* Exhaust emission equivalent Tier 3 / Stage III A

Variable stackable counterweight elements

- Constant tail radius (irrespective of number of counterweights)
- Low weight of individual elements (4.9 t or 2.5 t)
- Flexible arrangement for various applications
- Mounting and demounting possible with the drilling rig
- Transport of the machine possible without removing counterweights



**Single Pass SPEX
Extreme**

Flexible mast concept

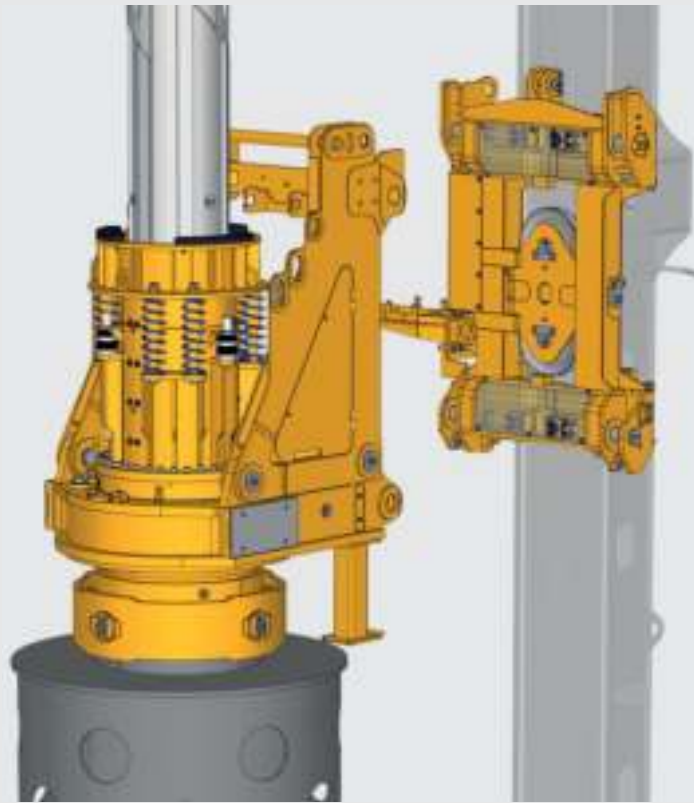
- Extension package Single Pass Extreme (SPEX)
- Multi-sectional mast
 - Low-head version
 - Giant drill version
 - Optimized transport length
- Upper mast extension 2 m or 3 m (hydraulic foldable and lockable)
 - Simple and secure attachment, no working at heights unsecured
 - Reduced transport length
- Lattice mast extension for 20.5 m follow-up stroke
- Vario-mast head
 - Mast head for drill axis 1,000 mm, expandable to 1,400 mm
 - Increased stroke for Kelly bars when using an upper Kelly guide
 - Tilttable main jib for single-pass processes and optimized transport



Remote control for rigging the machine

- The remote control can be used to perform numerous rigging functions outside the danger zone, such as moving the drilling rig, telescoping the under carriage, etc.
 - Operation within sight of the controlled rigging functions
 - Rugged and compact wireless remote control Multi with LCD screen
 - Lockable storage box for the remote control can be accessed from the ground



**Kelly set-up**

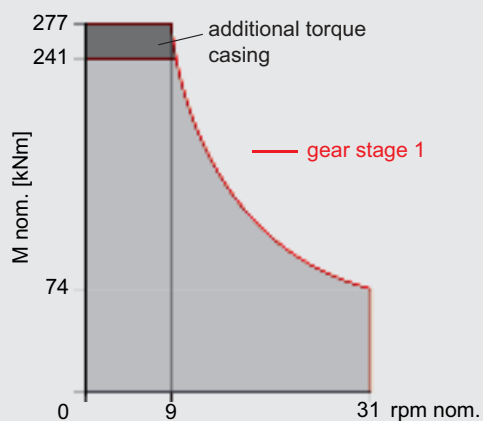
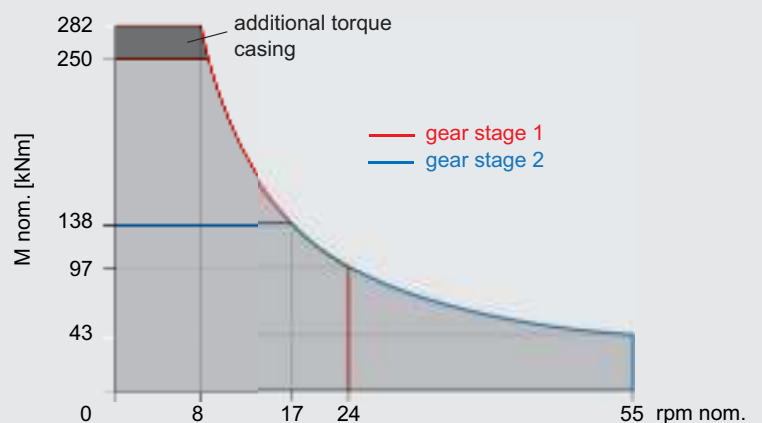
- Long Kelly guide
- Integrated shock absorbing spring system
- Kelly visualization (see page 15)
- Enhanced drilling performance
- High operation comfort
- Reduction of wear on Kelly bars and drive keys

Rotary drive KDK 280

- Optional single gear drive or multi gear drive
- Max. torque 282 kNm
- Max. speed 55 rpm
- Various modes of operation, partially selectable speed of rotation and torque

Hydraulically operated pin connection on the crowd sledge

- Pin connection controlled via the remote control
- Simple and secure attachment of the rotary drive, no working at heights unsecured

KDK 280 K**KDK 280 S**



Kelly Drilling



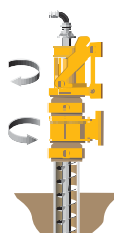
Cased Kelly Drilling
Casing Installation with BTM



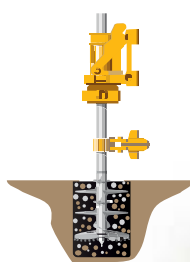
Cased Kelly Drilling
Casing Installation with Oscillator



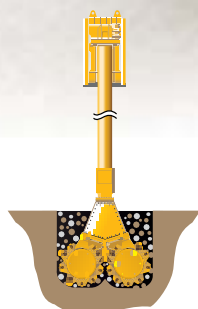
CFA
Continuous Flight Auger
Drilling



CCFA
Cased CFA with KDK + BTM /
Double Rotary System



SCM/SCM-DH
Single Column Mixing



CSM
Cutter Soil Mixing



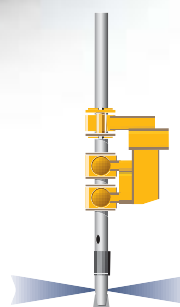
FDP
Full Displacement Piling
(Standard or Lost Bit)



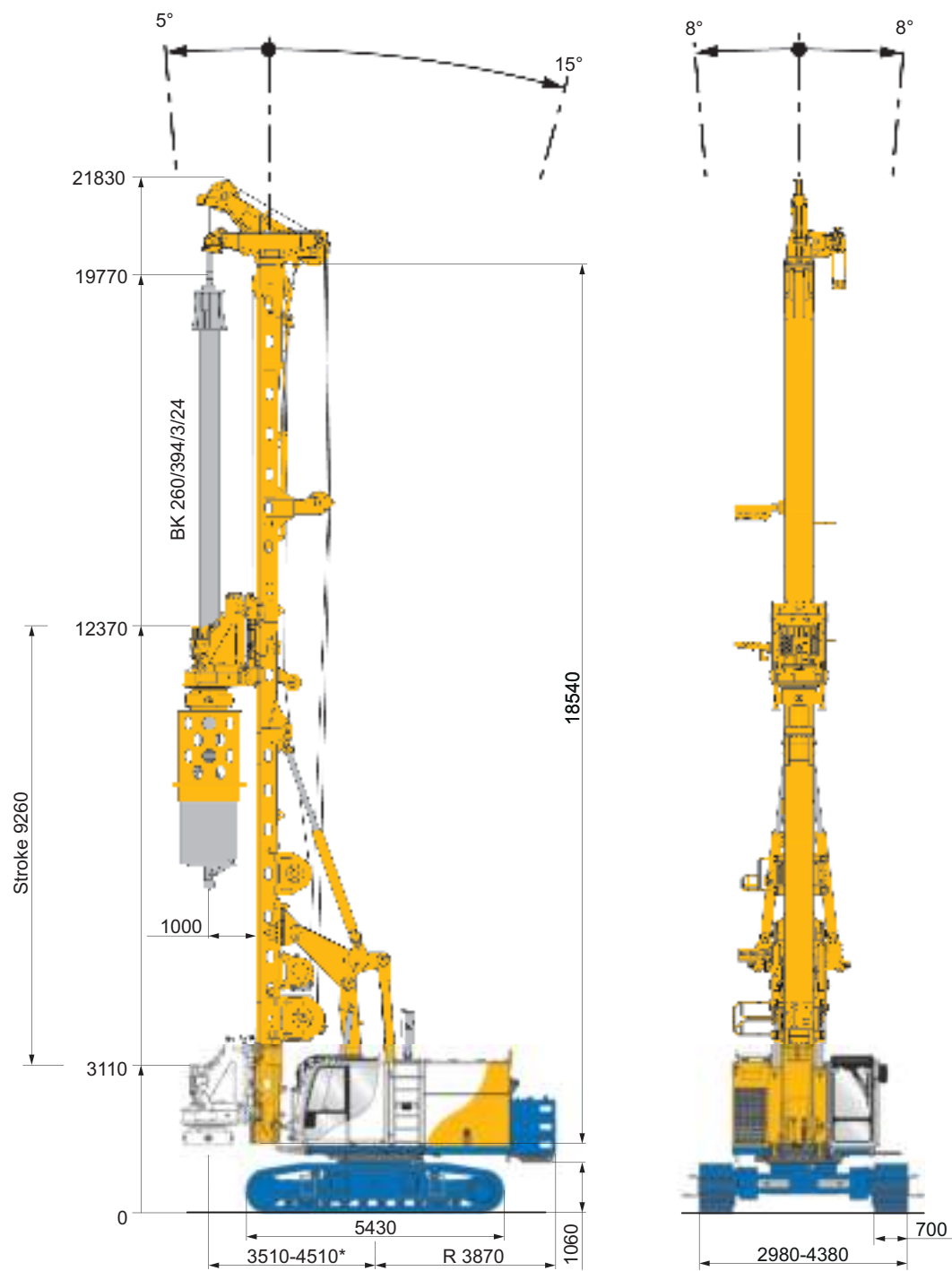
Pile Driving



TR
Vibrator



HDI
Jet Grouting



Operating weight 82.2 t
(as shown)

* depending on equipment

| Rotary drive (selectable) | KDK 280 K | KDK 280 S |
|---|-----------------------------------|--------------|
| Torque (nominal) for casing operation at 350 bar | 277 kNm | 282 kNm |
| Torque (nominal) for drilling at 350 bar | 241 kNm | 250 kNm |
| Max. speed of rotation | 31 rpm | 55 rpm |
| Crowd winch | | |
| Max. sledge stroke with 3 m mast extension | 18,700 mm | |
| Crowded force push and pull, effective / nominal | 330 / 423 kN | |
| Rope diameter | 24 mm | |
| Speed (down / up) | 9.9 m/min | |
| Fast speed (down / up) | 32 m/min | |
| Main winch | M6 / L3 / T5 | |
| Line pull (1st layer) effective / nominal | 200 / 250 kN | |
| Rope diameter | 28 mm | |
| Line speed (max.) | 85 m/min | |
| Auxiliary winch (selectable) | M6 / L3 / T5 | |
| Line pull (1st layer) effective / nominal | 80 / 100 kN | 100 / 125 kN |
| Rope diameter | 20 mm | |
| Line speed (max.) | 55 m/min | |
| Base carrier (EEP) | BT 75 | |
| Engine | CAT C 9.3 B | |
| Rated output ISO 3046-1 | 310 kW @ 1,850 rpm | |
| Exhaust emission EU 2016/1628 | ORA* | Stage V |
| EPA/CARB | ORA* | Tier 4 final |
| GB20891-2014 | China Stage III | - |
| Diesel tank capacity / AdBlue Tank | 730 / – l | 730 / 34,5 l |
| Sound pressure level in the cabin (EN 16228, Annex B) | L _{PA} 80 dB (A) | |
| Sound power level (2000/14/EC u. EN 16228, Annex B) | L _{WA} 110 dB (A) | |
| Hydraulic pressure | 350 bar | |
| Hydraulic oil tank capacity | 650 l | |
| Flow rates | 2 x 250 + 1 x 400 + 1 x 135 l/min | |
| Under carriage (selectable) | UW 65 | UW 80 |
| Crawler type | B 6 | B 7 |
| Traction force effective / nominal | 450 / 530 kN | 520 / 610 kN |

* Exhaust emission equivalent Tier 3 / Stage III A emission

Base carrier BT 75

Standard

- Removable counterweights
- Protective roof guard
- Radio with MP3, USB and Bluetooth hands-free kit
- Grating in front of cab
- Retractable grating on side of cab
- Electric refuelling pump
- Energy-Efficient Power (EEP)
- Premium operator seat
- 2 rear view cameras
- Integrated service platform
- Central lubrication system
- LED spotlights
- Climatronic

Optional

- Counterweight, variably adjustable
- Guardrails on the upper level (foldable for transport)
- High-pressure cleaner with water tank
- Rear support unit, **Fig. A**
- Compressor 1,000 l/min
- Electric generator 13 kVA
- Bio-degradable hydraulic oil
- Arctic kit / Artic kit plus
- Cab space heater with automatic timer
- Additional camera (at customer specific location)
- Front screen guard
- Remote control Basic, **Fig. B**
- Remote control Multi
- Premium operator seat with air-condition
- Weather protection

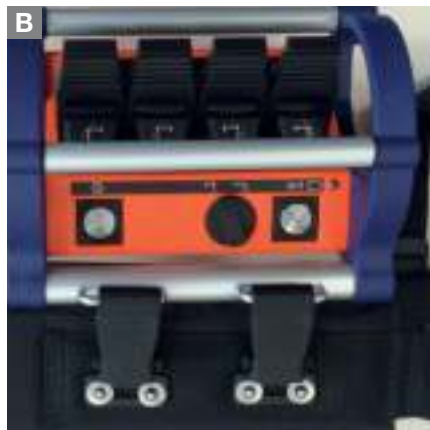
Drilling rig attachment

Standard

- Main winch with hydraulic free-wheel control
- Swivel for main rope
- Masthead (foldable for transport)
- Pivoted anchor point for main and auxiliary rope

Optional

- Vario-masthead, **Fig. C**
- Upper Kelly guide
- Extension of drill axis to 1,400 mm
- Hydraulically operated pin connection on the crowd sledge for easy mounting and removal of the rotary drive
- Extension package Single Pass Extreme (SPEX)
- Mast support unit
- Mast extension 2 m or 3 m, hydraulically foldable and lockable
- Multi-sectional mast for Low Head and Giant Drill applications
- Lattice mast extension
- Swivel for auxiliary rope
- Additional auxiliary winch 20 kN
- Attachment of casing oscillator up to BV 1500, **Fig. C**
 - Powered by on-board hydraulics of the base carrier
 - Controlled from operator's cab
 - Weight of drilling rig can be activated through mechanical fixing (UW 80)
- Attachment of automatic casing drive adapter
- Sling for counterweight handling
- Auger cleaner attachment for Kelly system
- Personnel hoist system with lift cage, **Fig. D**



Rotary drive

Standard

- Rotary drive KDK 280 K (single-gear drive)
- Selectable modes of operation
- Kelly drive adapter for outer Kelly tube 394 mm
- Integrated Kelly damping system
- Exchangeable Kelly drive adapter
- Cardanic joint
- Quick-release hydraulic couplers
- Transport supports
- Lifting gear

Optional

- Rotary drive KDK 280 S (multi-gear)
- Kelly equipment for outer Kelly tube 419 mm
- Torque multiplier BTM 720 K for Kelly drilling
 - Torque 400 kNm (nominal)
 - Increase of torque for casing installation
 - Easy attachment
 - Separate sledge
 - Connection to rotary drive with cardanic joint
- Torque multiplier BTM 200 for CCFA

Measuring and control system

Standard

- PLC processor for all electrically actuated functions
- Automatic mast alignment with memory-recall
- Depth measuring device on main winch
- Distance measuring device on crowd winch
- Main winch with electronic load sensing
- Slack rope prevention
- Automatic swivel alignment function
- Hoist limit switch for main and auxiliary winch
- Auxiliary winch with hydraulic load sensing
- Crowd stroke monitoring
- Crowd speed control
- Speed measuring control for rotary drive (KDK)
- Hold-Back control
- Electronic mast reach limiter

Optional

- Electronic load sensing for auxiliary winch
- Recording of concrete pressure and volume for Single-Pass processes
- Software modules for further applications
- Adaptive Kelly Speed assistant
- Automatic drilling and extraction control for Single-Pass processes
- BAUER Enhanced CAN Interface (BECI)
- Crowd Plus



B-Tronic

The BAUER B-Tronic system allows completion of construction tasks in a reliable and accurate manner, even under extreme operating conditions.

- The high-resolution touchscreen display ensures excellent user-friendliness
- The display can be optimally adapted to the operating situation and the amount of light present by changing the brightness level, the color scheme and the day / night mode
- The main parameters such as pump pressure, torque and drilling depths can be viewed at a glance

**B-Drive**

The B-Drive is a central operating and visualization system

- B-Drive combines adjustable potentiometer values on one display
- Ergonomic positioning of the display on the right column of the operator's cab

Tablet

The tablet is the multi-functional tool for the Bauer machine

- Online access to the customer portal, handbooks, equipment management systems and much more
- Standard internet connection via the DTR module, which is located in the machine
- The operator's screen can be mirrored live on the tablet to track the operating process

**Device networking****DTR module**

- The DTR module allows equipment and production data to be made available to a wide variety of users

WEB-BGM

- WEB-BGM is a software used to retrieve equipment data and establish the locations of various machines, even if you are not on site

Report of production data

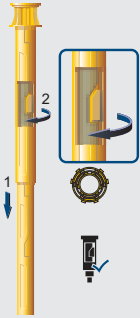
- Standardized reports for the documentation of drilling progress and verification of performance and quality



Adaptive Kelly speed assistant

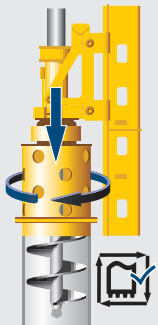
The assistant raises and lowers the Kelly bar safely and quickly and allows an easy operation. The automatic control of the speed of the main winch reduces the speed at the transition points of the Kelly sections.

This provides maximum safety with minimum wear. The permanent monitoring of the parameters prevents a locked Kelly bar from being raised or lowered accidentally and thus causing damage.



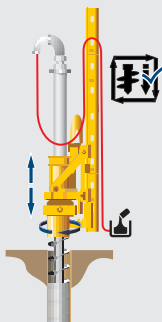
Kelly visualization

Display of the locking recesses, as well as representation of the controlled extension and retraction of the Kelly bar on the B-Tronic system. The rapid approach of the locking position results in a considerably enhanced drilling performance. In addition, the level of wear that the Kelly bar and drive keys are subject to is significantly reduced.



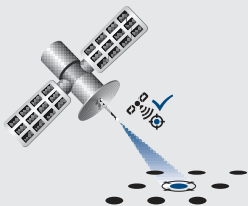
Kelly drilling assistant

Saves the current crowd speed and the speed of the rotary drive. It enhances drilling performance with simultaneous hands-free operation. Drilling parameters can be adjusted during the automated drilling procedure.



Automatic drilling and extraction control for Single-Pass processes

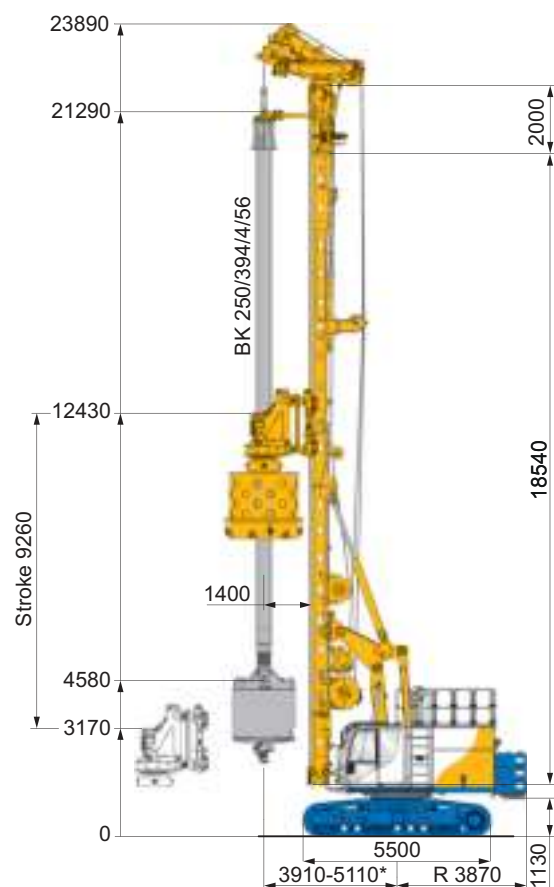
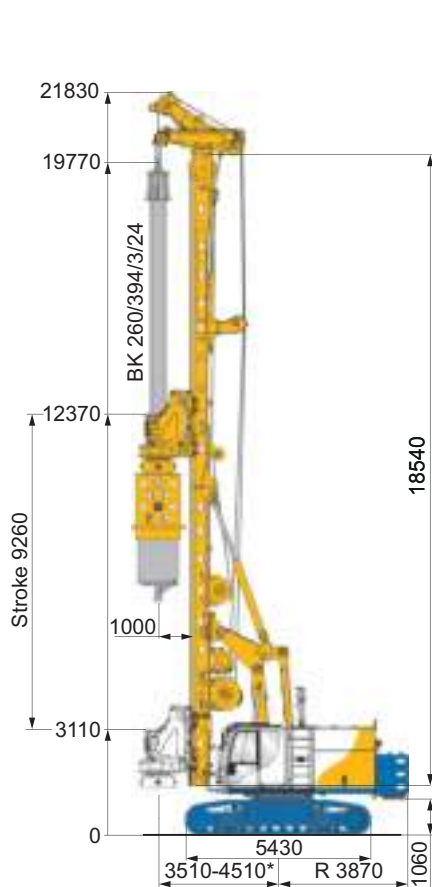
The system controls the drilling and / or extraction speed of the crowd system and enables hands-free operation. This ensures the production of a high-quality pile while simultaneously minimizing the amount of concrete.



Satellite-based positioning

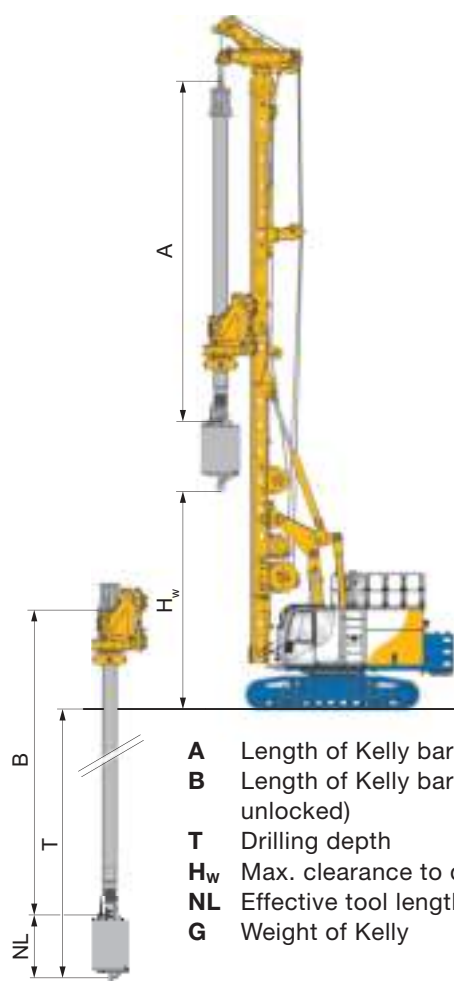
The BAUER Assistant Positioning System (B-APS) allows the position of a bored pile to be located extremely accurately. Documentation is provided for the nominal and actual coordinates, as well as the corresponding accuracy of each bored pile. Manual marking of the piles is no longer required.

Numerous other assistance systems are available in our portfolio.



| | Basic version | Upgraded version |
|---------------------------|---------------|------------------|
| Under carriage | UW 65 | UW 80 |
| Mast extension | without | 2 m |
| Upper Kelly guide | without | with |
| Drill axis | 1,000 mm | 1,400 mm |
| Max. drilling diameter | | |
| uncased | 1,700 mm | 2,500 mm |
| cased | 1,400 mm | 2,200 mm |
| Operating weight, approx. | 82.2 t | 100.2 t |
| with Kelly | 3/24 | 4/56 |
| with casing drive adapter | 1,300 mm | 2,000 mm |
| with bucket | 1,180 mm | 1,830 mm |
| with counterweight * | 9.9 t | 12.3 t |

* depending on equipment



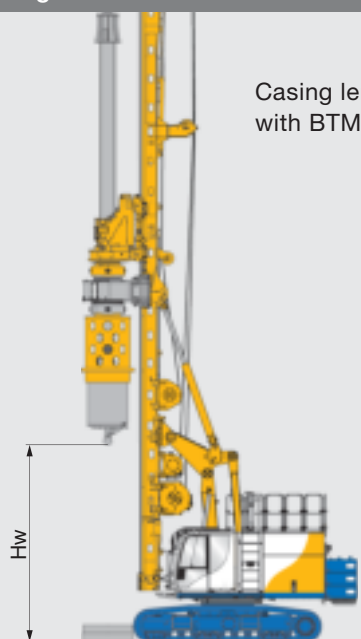
Drilling depth – uncased Kelly drilling, drill axis 1,000 mm

| | | | | without mast extension | | 2.0 m mast extension | |
|-----------------|-------|-------|--------|------------------------|-------|----------------------|-------|
| 3-part Kelly | A (m) | B (m) | G (kg) | H _w (m) | T (m) | H _w (m) | T (m) |
| BK/260/394/3/24 | 10.7 | 26.6 | 4,800 | 6.9 | 25.4 | 7.9 | 25.4 |
| BK/260/394/3/30 | 12.7 | 32.6 | 5,550 | 4.9 | 31.4 | 6.9 | 31.4 |
| BK/260/394/3/33 | 13.7 | 35.6 | 5,920 | 3.9 | 34.4 | 5.9 | 34.4 |
| BK/260/394/3/36 | 14.7 | 38.6 | 6,300 | 2.9 | 37.4 | 4.9 | 37.4 |
| BK/260/394/3/42 | 16.7 | 44.6 | 7,100 | 0.9 | 43.4 | 2.9 | 43.4 |
| BK/260/394/3/48 | 18.7 | 50.6 | 7,900 | - | - | 0.9 | 49.4 |
| 4-part Kelly | | | | | | | |
| BK/250/394/4/32 | 10.7 | 34.9 | 6,600 | 6.9 | 33.7 | 7.9 | 33.7 |
| BK/250/394/4/40 | 12.7 | 42.9 | 7,750 | 4.9 | 41.7 | 6.9 | 41.7 |
| BK/250/394/4/44 | 13.2 | 46.9 | 8,350 | 3.9 | 45.7 | 5.9 | 45.7 |
| BK/250/394/4/48 | 14.7 | 50.9 | 8,900 | 2.9 | 49.7 | 4.9 | 49.7 |
| BK/250/394/4/56 | 16.7 | 58.9 | 10,050 | - | - | 2.9 | 57.7 |
| BK/250/394/4/64 | 18.7 | 66.9 | 11,200 | - | - | 0.9 | 65.7 |

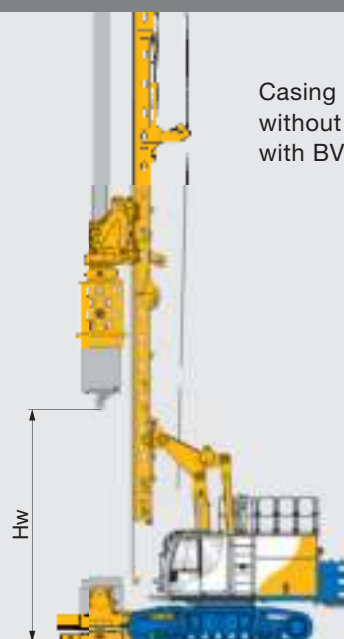
Drilling data have been determined with an effective tool length of NL = 1.9 m and with the mast at a minimum operating radius. These data only apply for the use of Bauer tools.

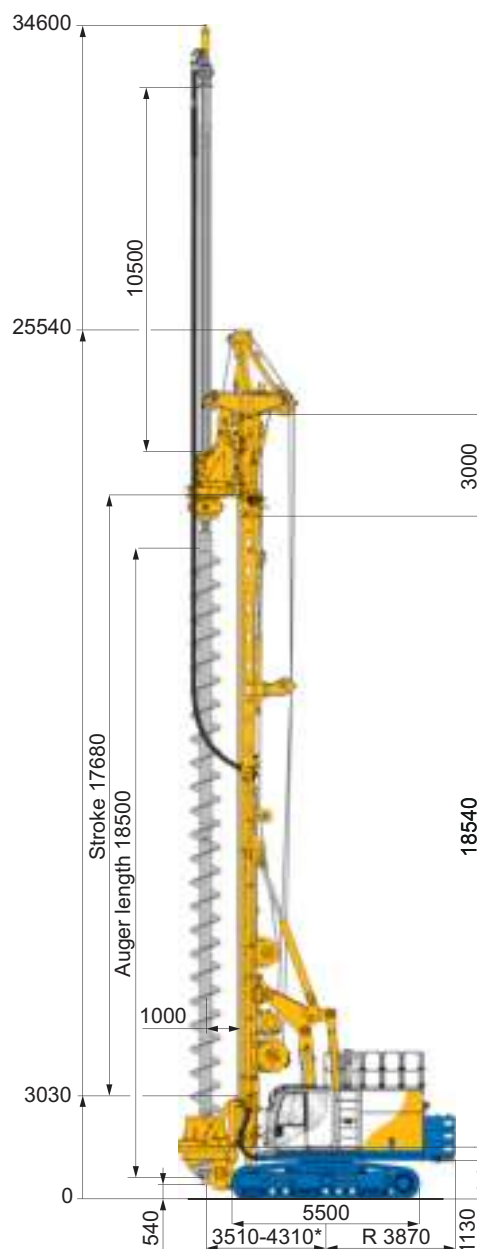
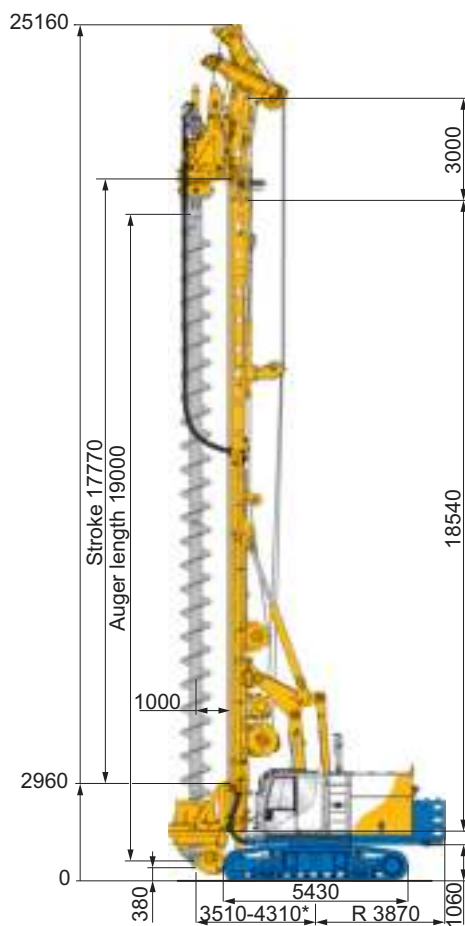
Other drilling depths, drilling diameters and Kelly versions are available on request.

Torque multiplier BTM 720 for a torque of 400 kNm for casing



Kelly drilling with casing oscillator up to BV 1500

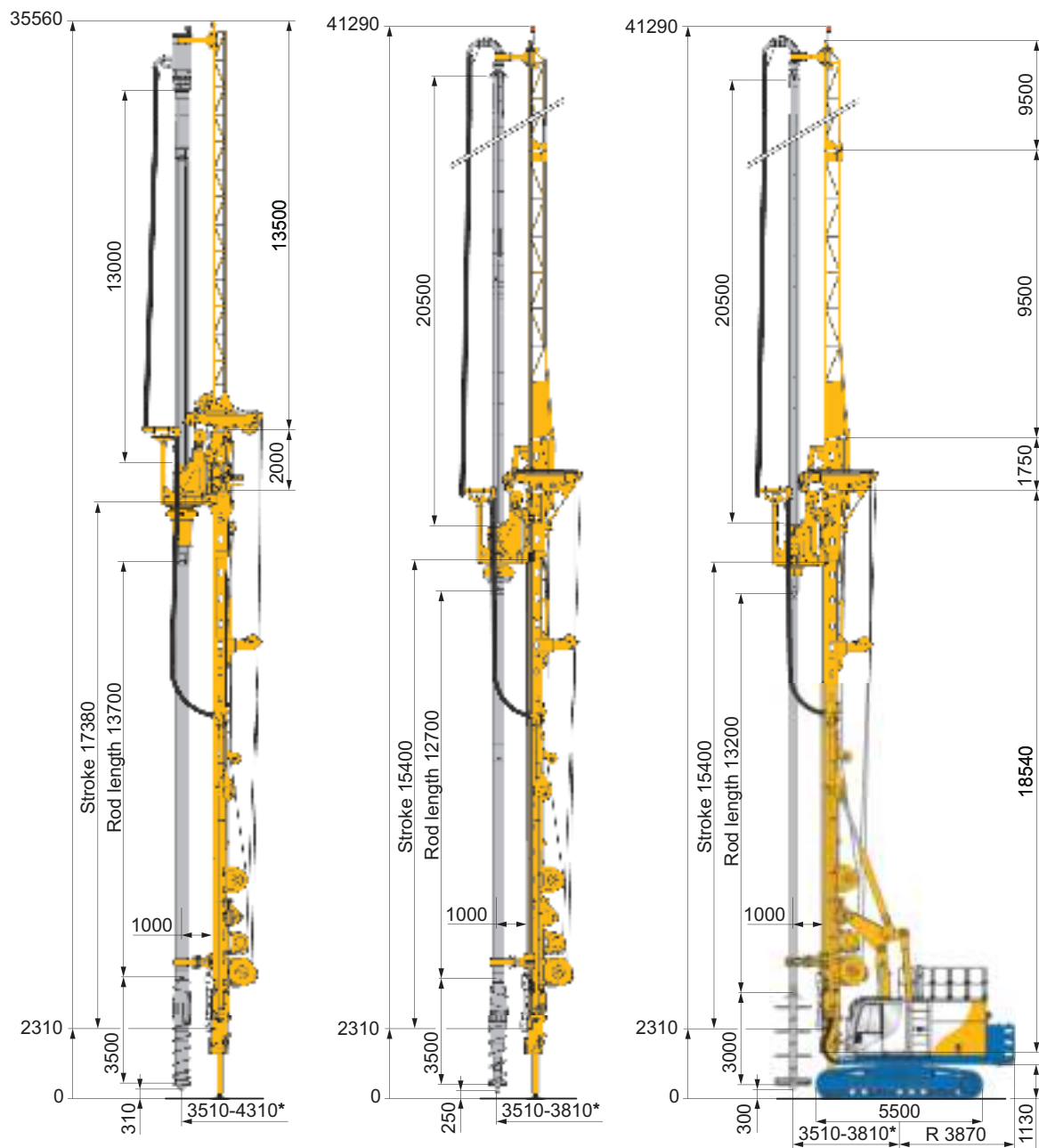




| | Basic version | Upgraded version |
|---|---------------|------------------|
| Under carriage | UW 65 | UW 80 |
| Mast extension | 3 m | 3 m |
| Kelly extension | without | 10.5 m |
| Max. drilling diameter | 1,200 mm | 1,200 mm |
| Drilling depth with auger cleaner | 17.1 m | 27.6 m |
| Max. extraction forth with main and crowd winch (effective) | 660 kN ** | 660 kN ** |
| with counterweight * | 12.3 t | 12.3 t |

* depending on equipment

** 730 kN up to 2 m mast extension (max.)



| | FDP Lost-bit drilling Upgraded version | FDP drilling Upgraded version | SCM mixing Upgraded version |
|---|---|----------------------------------|--------------------------------|
| Under carriage | UW 80 | UW 80 | UW 80 |
| Mast extension | 2 m | - | - |
| Kelly extension | 13.0 m | 20.5 m | 20.5 m |
| Max. drilling diameter FDP | 620 mm | 620 mm | - |
| Max. mixing diameter SCM | - | - | 2,500 mm ** |
| Max. drilling depth FDP | 29.9 m | 35.0 m | - |
| Max. mixing depth SCM | - | - | 35.0 m |
| Max. extraction force with main and crowd winch (effective) | 730 kN | 730 kN | 730 kN |
| with counterweight * | 12.3 t | 12.3 t | 12.3 t |

* depending on equipment

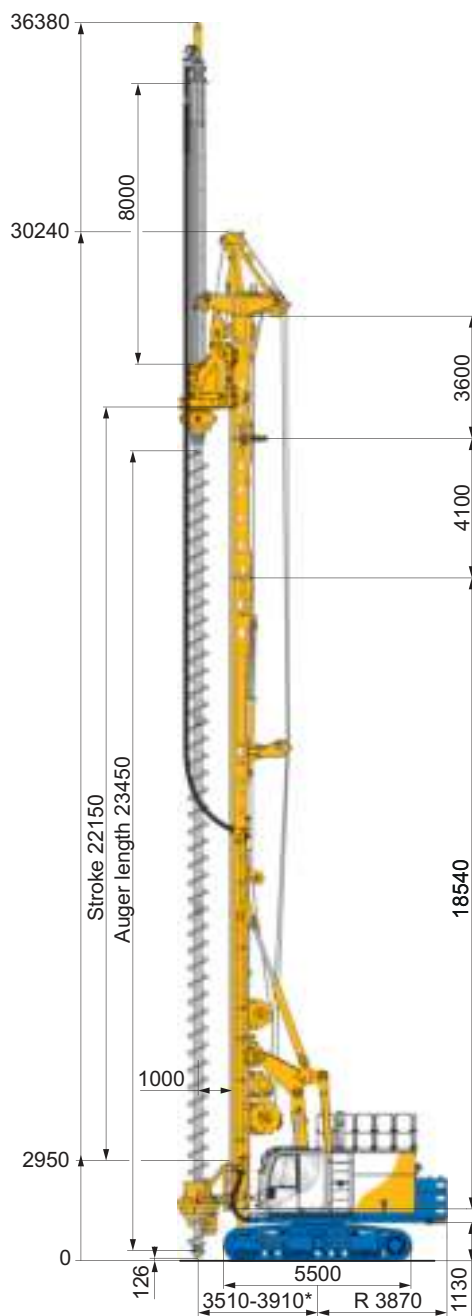
** operation only possible with restrictions



Single Pass **SPEX** Extreme

Highlights Extension Package Single Pass Extreme (SPEX)

- Expansion of the active feed by 7.7 m due to installation of an upper mast extension
- Further 8 m drilling depth, achievable due to following up with the Kelly extension
- Low investment costs due to the expansion of the standard equipment
- Compact transport dimensions due to the hydraulically foldable and lockable mast extension
- Optionally, the Remote Control Multi can be used to fold the mast extension
- Can be used in CFA, FDP and SCM mode



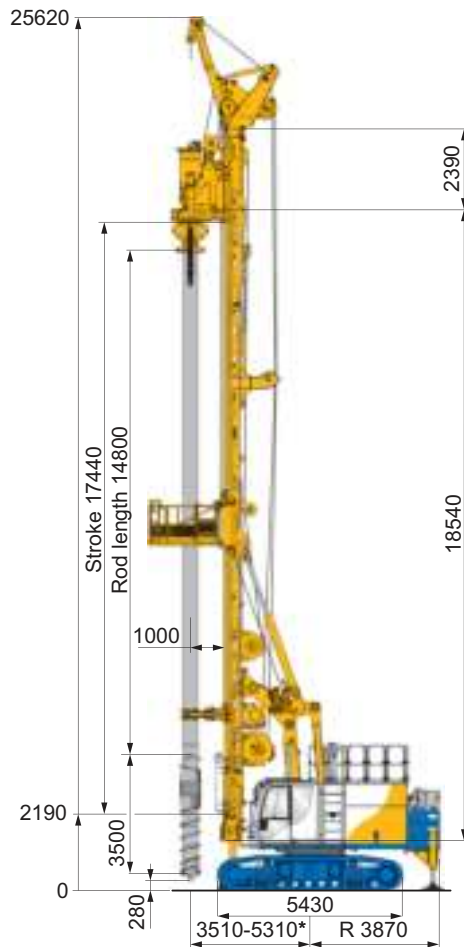
| | CFA drilling | | FDP drilling | SCM mixing |
|---|--------------|--------|--------------|------------|
| Kelly extension | without | 8.0 m | 8.0 m | 8.0 m ** |
| Max. drilling / mixing diameter | 1,180 mm | 880 mm | 620 mm | 1,700 mm |
| Drilling depth with auger cleaner and casing guidance | | | | |
| without Kelly extension | 21.9 m | | 22.3 m | 22.3 m |
| with Kelly extension | 30.0 m | | 30.3 m | 30.3 m |
| Max. extraction force with main and crowd winch (effective) * | 565 kN | | 565 kN | 565 kN |
| with counterweight * | 14.7 t | | 14.7 t | 14.7 t |

* depending on equipment

** not recommended

Highlights of Handling Package for FDP Lost-Bit:

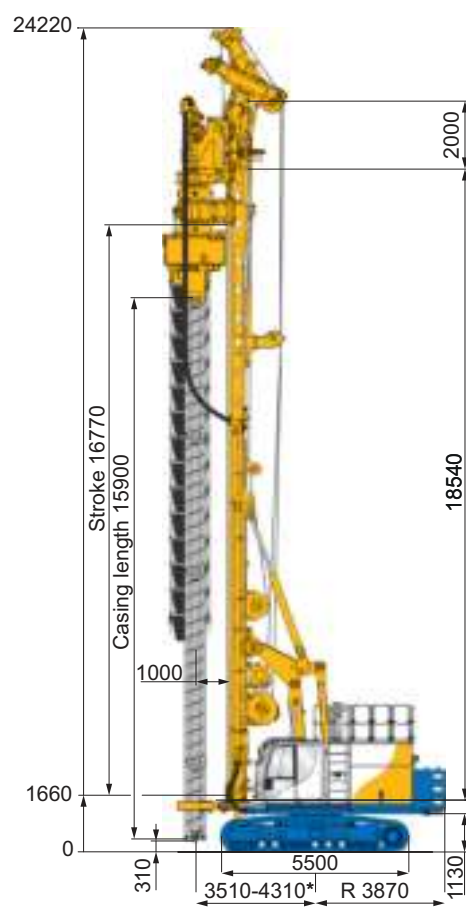
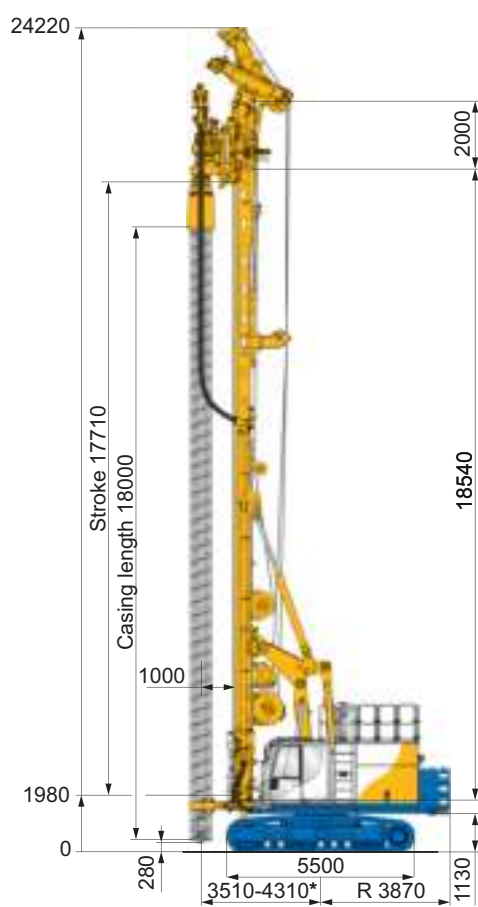
- Special mast head with auxiliary rope boom, which can be swivelled hydraulically in the drill axis
- Mast-guided personnel hoist system with swivelling transport platform
- Concrete funnel with camera system and cleaning system on the rotary drive for de-pressurized concreting in FDP mode
- High-pressure cleaner with water tank integrated in the base carrier
- Hydraulic upper carriage support for stabilizing and lifting the machine
- Extra wide flat track shoes on the under carriage
- Advanced EEP hydraulic system for full parallel operation of drilling and auxiliary functions
- Large horizontal movement enables a smooth and trouble-free swivel motion



Operating weight 91.7 t
(as shown)

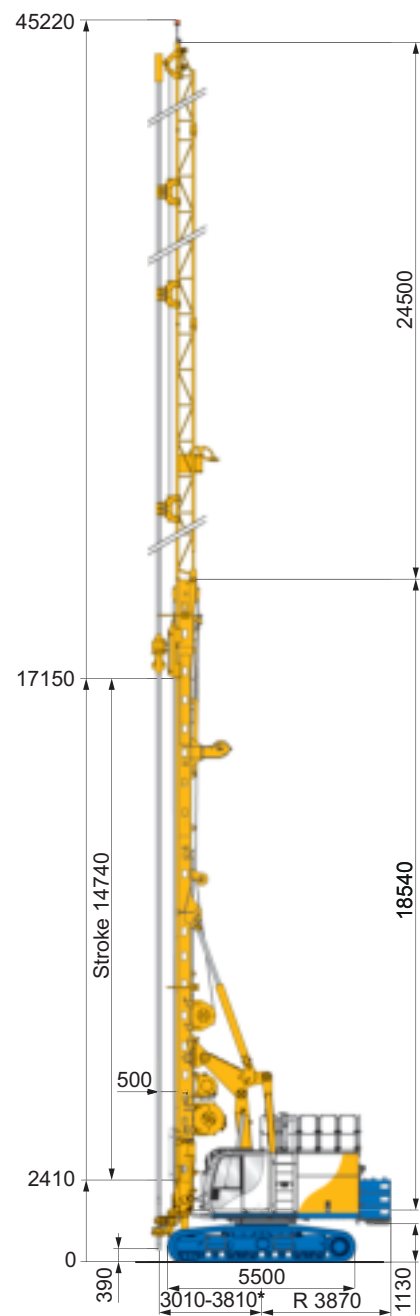
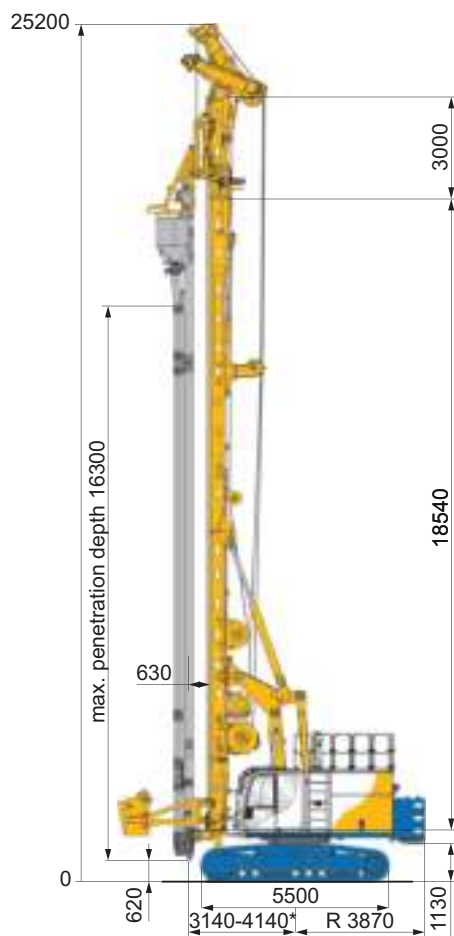
| FDP Lost-Bit drilling Handling Package | |
|---|--------|
| Max. drilling diameter | 620 mm |
| Max. drilling depth | 17.0 m |
| Max. extraction force with main and crowd winch (effective) | 730 kN |
| with counterweight * | 12.3 t |

* depending on equipment



| | FoW drilling DKS 50/140 | CCFA drilling with BTM 200 |
|---|----------------------------|-------------------------------|
| Torque auger/casing | 50/140 kNm | 100/200 kNm |
| Mast extension | 2 m | 2 m |
| Max. drilling diameter | 610 mm | 750 mm |
| Max. drilling depth | 17.3 m | 16.4 m |
| Max. extraction force with main and crowd winch (effective) | 500 kN | 530 kN |
| Ejection system | without | option |
| with counterweight * | 12.3 t | 12.3 t |

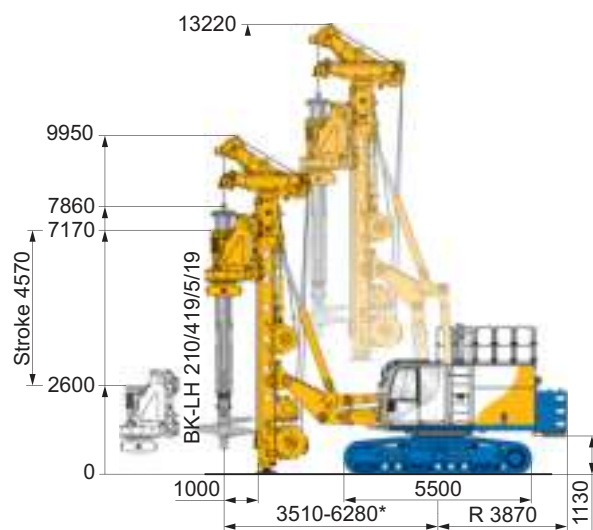
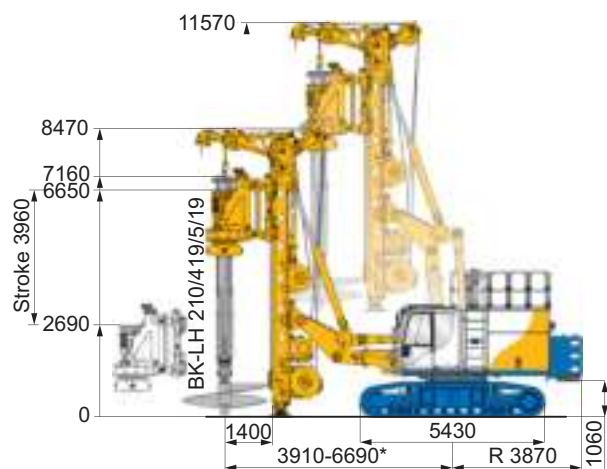
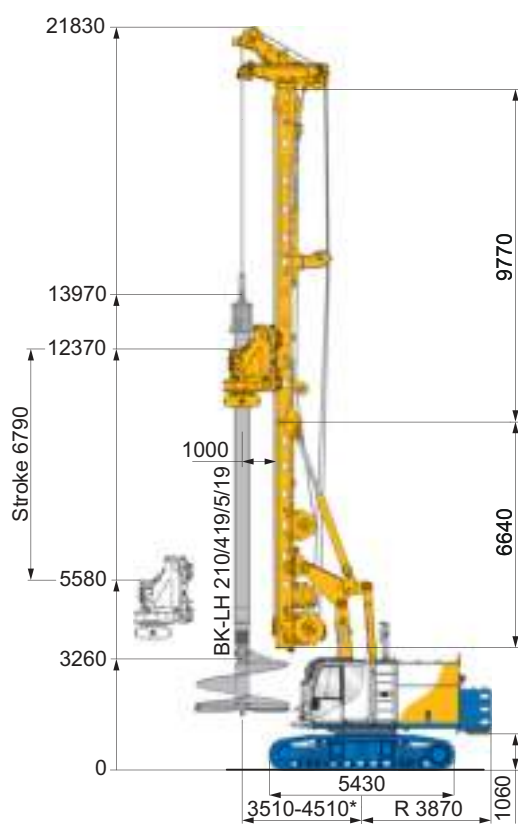
* depending on equipment



| Vibro Displacement (VD) Vibrator TR 17 | |
|--|--------|
| Max. penetration depth | 16.3 m |
| Pressure with crowd winch (effective) | 110 kN |
| Max. extraction force with crowd winch (effective) | 330 kN |
| with counterweight * | 14.9 t |

| Upgraded version Jet Grouting | |
|--|-------------|
| Length of lattice mast | 24.5 m |
| Max. rod diameter | 89 - 133 mm |
| Max. jetting depth | 35.3 m |
| Rotary drive | KDK 10/14 S |
| Max. extraction force with crowd winch (effective) | 330 kN |
| with counterweight * | 12.3 t |

* depending on equipment

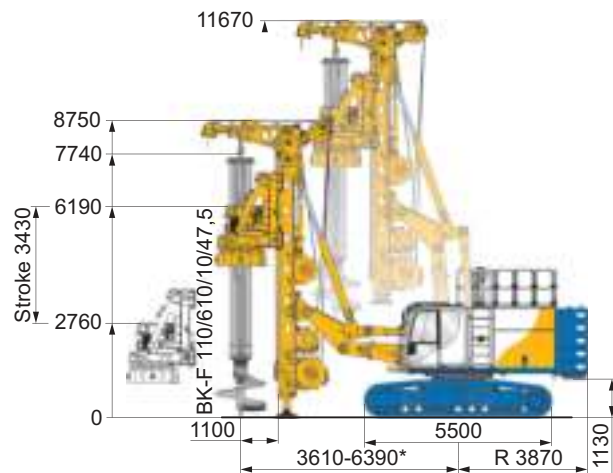


| Giant Drill - Basic version | | Low Headroom System |
|-----------------------------|---------------|---------------------|
| Under carriage | UW 65 / UW 80 | UW 65 / UW 80 |
| Lower mast extension | without | - |
| Drill axis | 1,000 mm | 1,000 / 1,400 mm |
| Max. drilling diameter | 3,000 mm | 1,700 / 2,500 mm |
| Max. drilling depth | - | 19.5 m |

* depending on equipment

Low Headroom System for large drilling depths:

- The BG 28 H low headroom drilling rig can also be configured for large drilling depths in limited headroom conditions.
- With the special Kelly bar BK-F 110/610/10/47.5 drilling depths of up to 47.8 m can be achieved with a maximum drilling diameter of 2,500 mm.
- Equipped with the low headroom masthead, the rig has a minimum height of just 8.8 m. Alternatively, the height of the rig with the Kelly masthead is 10.8 m.
- The KDK 280 WP (max. 250 kNm for drilling) automatically reduces the torque to 110 kNm when the special Kelly bar BK-F 110/610/10/47.5 is used. The full torque of 280 kNm is provided for cased drilling.



| Low Headroom System for large drilling depth | | |
|--|------------|----------|
| Under carriage | UW 80 | |
| Rotary drive | KDK 280 WP | |
| Drill axis | 1,100 mm | 1,400 mm |
| Max. drilling diameter | 1,900 mm | 2,500 mm |
| Max. drilling depth (BK-F 110/610/10/47,5) | 47.8 m | |

* depending on equipment

G = Weight
B = Width, overall

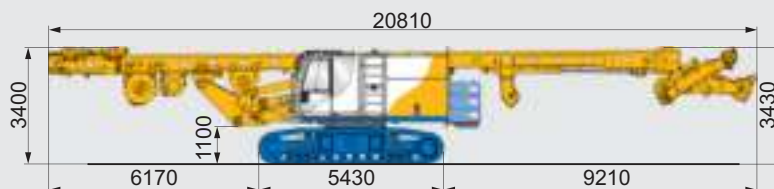
Weights shown are approximate values;
optional equipment may change the overall
weight and dimensions.

Transport with under carriage UW 65

Without mast extension *

G = 58.6 t

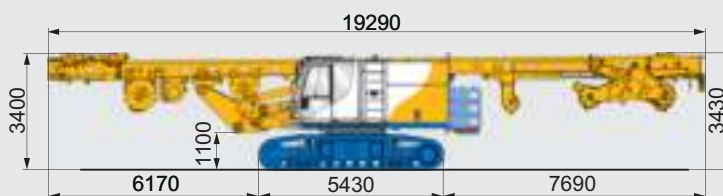
G = 68.5 t with 9.9 t counterweight



With mast extension *

G = 59.7 t

G = 69.6 t with 9.9 t counterweight



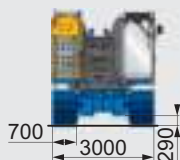
Lower mast section with rotary drive and folded mast extension

G = 64.8 t

G = 74.7 t with 9.9 t counterweight



Base carrier with UW 65 (Basic version)



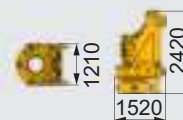
Counterweight **

G = 1 x 4.9 t + 2 x 2.5 t
B = 3,000 mm



Rotary drive

G = 5.2 t (KDK 280 K)
G = 5.5 t (KDK 280 S)



| | UW 65 | UW 80 |
|-------------|--|------------------|
| Track shoes | Overall width of crawlers retracted / extended | |
| 700 mm | 3,000 - 4,400 mm | 3,000 - 4,400 mm |
| 800 mm | - | 3,300 - 4,500 mm |
| 900 mm | 3,400 - 4,600 mm | 3,400 - 4,600 mm |

* more weight with three-sectional mast approx. 500 kg

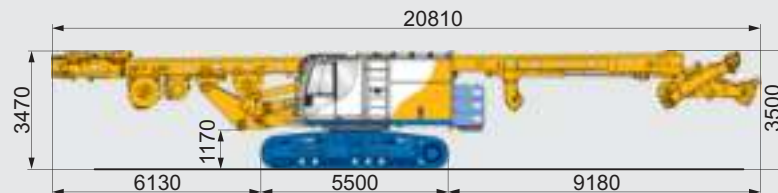
** depending on equipment

Transport with under carriage UW 80

Without mast extension

G = 62.9 t

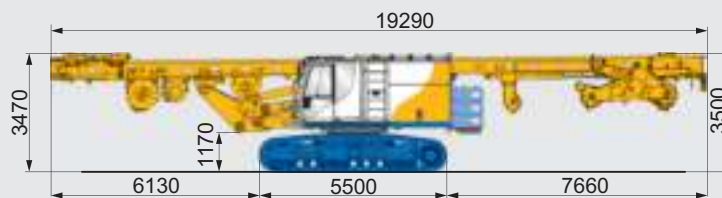
G = 75.2 t with 12.3 t counterweight



With mast extension *

G = 64.0 t

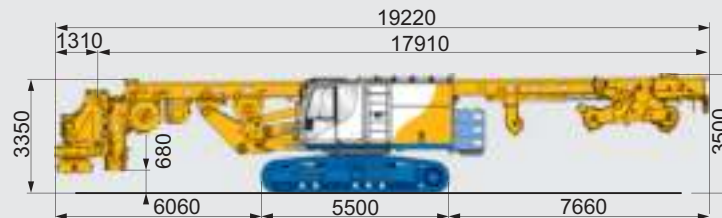
G = 76.3 t with 12.3 t counterweight



Lower mast section with rotary drive and folded mast extension

G = 69.1 t with rotary drive

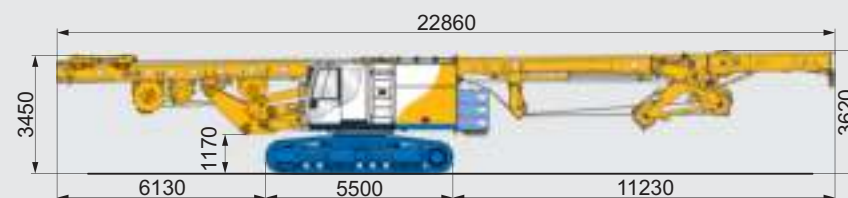
G = 81.4 t incl. rotary drive with 12.3 t counterweight



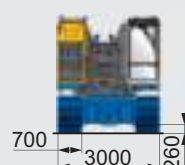
Extension Package Single Pass Extreme (SPEX)

G = 67.0 t

**G = 81.7 t with
14.7 t counter-
weight**



Base carrier with UW 80 (Upgraded version)



Counterweight **

G = 2 x 4.9 t + 1 x 2.5 t

B = 3,000 mm



* more weight with three-sectional mast approx. 500 kg

** depending on equipment



Global Network



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Equipment



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