Experience for you!

“100 years of drilling, 4 decades of building machines, and still down to the earth”  Prof. Thomas 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.
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
The BAUER BG Premium Line

The BG Premium Line 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 BG Premium Line 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

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
The Rotary drilling rig
BG 55 PremiumLine (BS 115)

Max. drilling diameter: 3,700 mm
Max. drilling depth: 126.0 m
Max. torque (nominal): 553 kNm
Max. height: 36.3 m
Engine:
   CAT C 18 – Tier 2
   570 kW @ 1,850 rpm
   563 kW @ 1,850 rpm

BG 24 H
BT 75 / BT 85

BG 28 H
BT 85

BG 36 H
BS 95

BG 55
BS 115

BG 72
BT 180

1 Undercarriage
2 Uppercarriage
3 Main winch
4 Auxiliary winch
5 Crowd winch
6 Kinematic system
7 Mast
8 Masthead
9 Upper Kelly guide
10 Kelly bar
11 KDK Rotary drive
12 Drilling tool
Spotlights

Flexible mast concept
- Vario-masthead
  - Masthead for drill axis distance 1,300 mm, expandable to 1,700 / 2,000 mm
  - Increased stroke for Kelly bars when using an upper kelly guide
- Vario-crowd winch system
  - Transport possible with built-in crowd ropes (Kelly method)
  - Reduced Headroom version, min. rig height of 20.6 m (possible with integrated Vario-mast section)
- Max. mast extension 5.6 m can be combined with all drill axes
- Achievable max. drilling diameter of 3,700 mm

Modern, ergonomic operator cab
- FOPS compliant with additional protective roof guard
- Premium operator seat, air-sprung and heatable
- Joystick controls with high functionality
- B-Drive combines adjustable potentiometer values on one display

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 undercarriage, 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

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Safety equipment
- Guardrails on upper level (foldable for transport)
- Walking platform with handrail (foldable for transport)
- Upward folding service doors
- Closed circuit cameras for rear area and main winch surveillance with display on integrated screen in operator’s cab
- Hydraulic locking of support trestle

Main winch (on uppercarriage)
- Wide winch drum
- Single layer winch for minimized rope wear
- Constant line pull (for whole drilling depth)
- Service-friendly winch position

Powerful engine CAT C 18
- Conforming to Exhaust Emission Standards Tier 2 or Tier 4 final
- Low noise emission
- Worldwide CAT-service partners

Variably stackable counterweight elements
- Constant tail radius
- Low weight of individual elements (5.0 t)
- Flexible arrangement for various applications
- Easy assembly and disassembly
Rotary drive KDK 550 S (multi gear)
- Max. torque 553 kNm
- Max. speed 39 rpm

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 unsecured heights

KDK 550 S

Additional torque, casing

Not to scale.

1st gear
2nd gear
Multi-function equipment

Kelly drilling

Cased Kelly drilling
(installation with BTM)

Cased Kelly drilling
(installation with oscillator)

CFA

CCFA
Cased CFA system

FoW

SCM
Single Column Mixing

SMW
Triple mixing paddles

FDP
Standard or Lost Bit

CSM
Cutter Soil Mixing

BC
Trench cutter

VIPAC
Casing system with top vibrator
Dimensions – Basic version

Operating weight 179.5 t (as shown)
<table>
<thead>
<tr>
<th><strong>Rotary drive</strong></th>
<th><strong>KDK 550 S</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Torque (nominal) for casing operation at 350 bar</td>
<td>553 kNm</td>
</tr>
<tr>
<td>Torque (nominal) for drilling operation at 350 bar</td>
<td>460 kNm</td>
</tr>
<tr>
<td>Speed of rotation (max.)</td>
<td>39 U/min</td>
</tr>
</tbody>
</table>

**Crowd winch system** (selectable)

<table>
<thead>
<tr>
<th>Max. stroke of sledge with 5.6 m mast extension</th>
<th>26,3 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crowd force push and pull effective / nominal</td>
<td>460 / 590 kN</td>
</tr>
<tr>
<td>Rope diameter</td>
<td>28 mm</td>
</tr>
<tr>
<td>Speed (down / up)</td>
<td>6,5 / 6,5 m/min</td>
</tr>
<tr>
<td>Fast speed (down / up)</td>
<td>30,5 / 30,5 m/min</td>
</tr>
</tbody>
</table>

**Main winch** (selectable)

<table>
<thead>
<tr>
<th>Winch classification</th>
<th>multi-layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line pull (1st layer) effective / nominal</td>
<td>420 * / 532 kN</td>
</tr>
<tr>
<td>Rope diameter</td>
<td>40 mm</td>
</tr>
<tr>
<td>Line speed (max.)</td>
<td>62 m/min</td>
</tr>
</tbody>
</table>

**Auxiliary winch**

<table>
<thead>
<tr>
<th>Winch classification</th>
<th>M6 / L3 / T5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line pull (1st layer) effective / nominal</td>
<td>140 / 177 kN</td>
</tr>
<tr>
<td>Rope diameter</td>
<td>22 mm</td>
</tr>
<tr>
<td>Line speed (max.)</td>
<td>55 m/min</td>
</tr>
</tbody>
</table>

**Base carrier (EEP)**

<table>
<thead>
<tr>
<th>Engine</th>
<th>CAT C 18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated output ISO 3046-1</td>
<td>570 kW @ 1.850 U/min</td>
</tr>
<tr>
<td>Exhaust Emission Standard acc. to EPA</td>
<td>Tier 2</td>
</tr>
<tr>
<td>Diesel tank capacity</td>
<td>1.200 l</td>
</tr>
<tr>
<td>Sound pressure level in cabin (EN 16228, Annex B)</td>
<td>LP_a 80 dB(A)</td>
</tr>
<tr>
<td>Sound power level (2000/14/EG and EN 16228, Annex B)</td>
<td>LW, 114 dB(A)</td>
</tr>
<tr>
<td>Hydraulic pressure</td>
<td>350 bar</td>
</tr>
<tr>
<td>Flow rates (main circuits + auxiliary circuit)</td>
<td>3 x 420 + 1 x 565 + 1 x 400 + 1 x 320 l/min</td>
</tr>
<tr>
<td>Hydraulic oil tank capacity</td>
<td>1.200 l</td>
</tr>
</tbody>
</table>

**Undercarriage** (selectable)

<table>
<thead>
<tr>
<th>Crawler type</th>
<th>UW 160</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track width (retracted/extended) approx.</td>
<td>2.700 / 4.000 mm</td>
</tr>
<tr>
<td>Double grousers track shoes</td>
<td>1.000 mm</td>
</tr>
<tr>
<td>Overall length of crawler</td>
<td>6.500 mm</td>
</tr>
<tr>
<td>Traction force effective / nominal</td>
<td>1.300 / 1.100 kN</td>
</tr>
</tbody>
</table>

* Line pull 420 kN can also be used in 2nd layer
**Technical equipment**

**Base carrier BS 115**

**Standard**
- Removable counterweight elements
- Remote control multi
- Removable crawler side frames
- Protective roof guard
- Radio with MP3, USB and Bluetooth c/w hands-free kit
- Guardrails upper level (foldable for transport)
- Electric refueling pump
- Energy-Efficient Power (EEP)
- Air conditioning system
- Cameras for rear area and main winch surveillance
- Hydraulic system with quick-release hydraulic couplers (socket bank)
- Central lubrication system
- Premium comfort seat

**Optional**
- Counterweight variably adjustable
- Walking platform with handrail (continuous on both sides at cabin level), optional foldable for transport
- Compressor 1,000 l/min
- Electric generator 13 kVA
- Bio-degradable hydraulic oil
- Arctic kit / Artic kit plus
- Flat-track shoes
- Quick-release hydraulic couplers (UW 195 standard)
- Cab space heater
- LED spotlights
- Additional camera (at customer-specific location)
- Front screen guard, **Fig. A**
- Sun blind small or big
- Climatronic

**BG attachment**

**Standard**
- Sturdy V-type mast kinematic system
- Main winch with hydraulically operated freewheeling
- Swivel for main rope
- Pivoted anchor points for main and auxiliary rope
- Boom with hydraulic cylinders for vertical and horizontal mast alignment
- Hydraulic locking for trestle
- Flexible mast concept (Vario-mast, Vario-masthead)
- Hydraulically operated pin connection on crowd sledge for easy mounting and demounting of rotary drive

**Optional**
- Upper kelly guide
- Extension of drill axis to 1,700 mm or 2,000 mm
- Mast support unit
- Mast extension possible up to 5.6 m (from 4 m extension requires an auxiliary crane)
- Swivel for auxiliary rope
- Attachment of casing oscillator (up to BV 2000), **Fig. B**
  - Powered by on-board hydraulics of base carrier
  - Controlled from operator’s cab
  - Possible up to 2,500 mm drilling diameter on request
- Attachment of automatic casing drive adapter
- Air line attachment
- Concrete line attachment
### Rotary drive KDK 550 S (multi-gear)

**Standard**
- Selectable modes of operation
- Kelly drive adapter for outer Kelly tube 559 mm
- Integrated Kelly damping system
- Exchangeable Kelly drive adapter
- Exchangeable Kelly drive keys
- Cardanic joint
- Quick-release hydraulic couplers
- Transport supports
- Lifting gear

**Optional**
- Kelly drive adapter for outer Kelly tube 470 mm
- Torque multiplier BTM 720 K
  - Torque 700 kNm
  - Increasing of torque for casing installation
  - Easy attachment
  - Separate sledge
  - Connection to rotary drive with cardanic joint
- Torque multiplier BTM 400 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
**BG 55 PremiumLine**

**Communication technology**

**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

**B-Tronic**
The BAUER B-Tronic system allows completion of your 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

**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

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

**B-Drive**
The B-Drive is a central operating and visualization system
- B-Drive combines adjustable potentiometer values on one display
- Ergonomic placement of the display on the right column of the operator cab
One-directional and bi-directional spoil discharge assistant
Automatic emptying of spoil via an alternating or shocking slewing rotation of the rotary drive. Infinitely variable adjustment of the shaking or shocking frequency via B-Drive.

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.

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.

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.

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
BG 55

PremiumLine

Application – Kelly drilling

<table>
<thead>
<tr>
<th></th>
<th>Basic version</th>
<th>Upgraded version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undercarriage</td>
<td>UW 160</td>
<td>UW 195</td>
</tr>
<tr>
<td>Main winch</td>
<td>420 kN</td>
<td>450 kN</td>
</tr>
<tr>
<td>Mast extension</td>
<td>2.5 m</td>
<td>5.6 m</td>
</tr>
<tr>
<td>Upper Kelly guide</td>
<td>without</td>
<td>with</td>
</tr>
<tr>
<td>Drilling axis</td>
<td>1,300 mm</td>
<td>1,700 mm</td>
</tr>
<tr>
<td>Max. drilling diameter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>uncased</td>
<td>2,300 mm</td>
<td>3,100 mm</td>
</tr>
<tr>
<td>cased</td>
<td>2,000 mm</td>
<td>2,800 mm</td>
</tr>
<tr>
<td>Operating weight approx.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>with Kelly BK 500/559/...</td>
<td>179.5 t</td>
<td>221.0 t</td>
</tr>
<tr>
<td>with casing drive adapter</td>
<td>1,650</td>
<td>2,500</td>
</tr>
<tr>
<td>with bucket</td>
<td>KB 1,500</td>
<td>KB 2,320</td>
</tr>
<tr>
<td>with counterweight</td>
<td>30.0 t</td>
<td>40.0 t</td>
</tr>
</tbody>
</table>
Drilling data as shown are based on tool length NL = 1.9 m, minimum horizontal mast reach and using Bauer attachment. Drilling depth is increased by 0.47 m when using maximum horizontal mast reach.

Further drilling depth, diameter and other Kelly types on request.

**Uncased Kelly drilling with Reduced Headroom configuration**

Max. drilling diameter: 3,700 mm
Max. drilling depth (with 5-part Kelly): 40 m

**Cased Kelly drilling with Casing oscillator BV 2000**

Casing length without BV = $H_W - 0.5 \text{ m}$
with BV = $H_W - 2.4 \text{ m}$

* Reduction of torque to 420 kNm for Kelly type BK 420
** Only possible with drill axis 1,300 mm
### Application – CFA-drilling

#### BG 55 PremiumLine

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Undercarriage</strong></td>
<td>UW 160</td>
</tr>
<tr>
<td><strong>Mast extension</strong></td>
<td>2.5 m</td>
</tr>
<tr>
<td><strong>Kelly extension</strong></td>
<td>without</td>
</tr>
<tr>
<td><strong>Max. drilling diameter</strong></td>
<td>1,200 m</td>
</tr>
<tr>
<td><strong>Max. Drilling depth (with auger cleaner)</strong></td>
<td>22.0 m</td>
</tr>
<tr>
<td><strong>Max. extraction force with main- and crowd winch (effective)</strong></td>
<td>1,060 kN</td>
</tr>
<tr>
<td><strong>Counterweight</strong></td>
<td>35.0 t</td>
</tr>
</tbody>
</table>
### CCFA-drilling with BTM 400

<table>
<thead>
<tr>
<th>Specification</th>
<th>UW 195</th>
<th>Without</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undercarriage</td>
<td>PremiumLine</td>
<td></td>
</tr>
<tr>
<td>Mast extension</td>
<td>5.6 m</td>
<td>2.5 m</td>
</tr>
<tr>
<td>Max. drilling diameter</td>
<td>880 mm</td>
<td>1,180 mm</td>
</tr>
<tr>
<td>Max. drilling depth</td>
<td>24.1 m</td>
<td>18.5 m</td>
</tr>
<tr>
<td>Max. extraction force with main-</td>
<td>1,060 kN</td>
<td>1,060 kN</td>
</tr>
<tr>
<td>and crowd winch (effective)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Counterweight</td>
<td>40.0 t</td>
<td>40.0 t</td>
</tr>
<tr>
<td>Max. torque auger (right-hand</td>
<td>200 kNm</td>
<td>150 kNm</td>
</tr>
<tr>
<td>rotation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. torque casing (left-hand</td>
<td>400 kNm</td>
<td>300 kNm</td>
</tr>
<tr>
<td>rotation)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CCFA-drilling with DKS 150 / 300

<table>
<thead>
<tr>
<th>Specification</th>
<th>UW 195</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undercarriage</td>
<td>PremiumLine</td>
<td></td>
</tr>
<tr>
<td>Mast extension</td>
<td>5.6 m</td>
<td>2.5 m</td>
</tr>
<tr>
<td>Max. drilling diameter</td>
<td>1,000 mm</td>
<td>1,180 mm</td>
</tr>
<tr>
<td>Max. drilling depth</td>
<td>24.9 m</td>
<td>21.8 m</td>
</tr>
<tr>
<td>Max. extraction force with main-</td>
<td>1,060 kN</td>
<td>1,060 kN</td>
</tr>
<tr>
<td>and crowd winch (effective)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Counterweight</td>
<td>40.0 t</td>
<td>40.0 t</td>
</tr>
<tr>
<td>Max. torque auger (right-hand</td>
<td>200 kNm</td>
<td>150 kNm</td>
</tr>
<tr>
<td>rotation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. torque casing (left-hand</td>
<td>400 kNm</td>
<td>300 kNm</td>
</tr>
<tr>
<td>rotation)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
For further information please refer to the catalogue “BAUER Trench cutter system” 905.679.2
Mixing of self-hardening slurries with native soils by using a modified trench cutter technique is a new and effective method for constructing cut-off walls, earth retaining walls, soil improvement or for constructing foundation elements.

CSM is used mainly for stabilizing soft or loose soils (non-cohesive and cohesive), however the machinery used, derived from Bauer’s cutter technology, extends the applicability of the method to much harder strata when compared to other methods of soil mixing.

Main advantages of the method are:
- High productivity
- The in-situ soil is used as a construction material
- Very little generation of spoil (important factor in contaminated areas)
- No vibrations induced during construction
Transport – Dimensions and weights

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

Transport with UW 160

G = 79.3 t (with 420 kN main winch)  G = 72.1 t  B = 3,700 mm

Transport with UW 195

G = 77.9 t (with walking platform and guardrails)  G = 77.0 t  B = 4,000 mm

G = 46.7 t (with walking platform and guardrails)  G = 45.8 t  B = 3,650 mm

G = 2 x 16.4 t  B = 1,200 mm

Transport possible with lower mast section (optional)
### Upper mast section with mast head

- **Main winch 420 kN**
  - G = 7.2 t
  - (with 140 m rope)
  - B = 2,500 mm

- **Main winch 450 kN**
  - G = 10.7 t
  - (with 140 m rope)
  - B = 2,600 mm

### Lower mast section with Vario-mast section

- **Main winch 420 kN**
  - G = 8.8 t
  - B = 2,200 mm

- **Main winch 450 kN**
  - G = 10.7 t
  - B = 2,600 mm

### Mast extension 2.5 m

- **Mast extension 5.6 m**
  - G = 3.3 t
  - B = 1,900 mm

- **Mast extension 5.6 m**
  - G = 5.5 t
  - B = 1,630 mm

### Mast extension 5.6 m

- **Mast extension 5.6 m**
  - G = 26.4 t
  - B = 2,650 mm

- **Mast extension 5.6 m**
  - G = 3.4 t
  - B = 1,170 mm

### Mast extension 5.6 m

- **Mast extension 5.6 m**
  - G = 22.9 t
  - B = 2,650 mm

### Rotary drive

- **Rotary drive**
  - G = 11.0 t
  - B = 1,900 mm

### Counterweight

- **Counterweight**
  - G = 6 bis 8* x 5.0 t
  - B = 3,450 mm

### Backstay cylinders

- **Backstay cylinders**
  - G = 2 x 2.0 t
  - B = 400 mm

*depending on application*
Design developments and process improvements may require the specification and materials to be updated and changed without prior notice or liability. Illustrations may include optional equipment and not show all possible configurations. These and the technical data are provided as indicative information only, with any errors and misprints reserved.