



The Bauer drilling rig stand 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 transport and short rigging time
- High quality standard
- Long lifetime and excellent resale value



**Kelly Drilling** 

CFA

Auger Drilling



SCM Single Column Mixing

## The Drilling Rig BG 23 BT 65

Max. drilling diameter	er: 1,700 mm
Max. drilling depth:	51.4 m
Max. torque:	235 kNm
Max. height:	21.7 m
Engine:	CAT C 7.1 186 / 238 kW



## Spotlights



### Modern, ergonomic operator cab

- FOPS compliant with additional protective roof guard
- Premium operator seat, air-sprung
- Joystick controls with high functionality

## **Powerful CAT engines**

**BG 23** 

- C 7.1 186 kW (UN/ECE R96\*) or C 7.1 238 kW (EU Stage V, EPA/CARB Tier 4 final)
- Diesel particulate filter in exhaust emission standard EU Stage V, EPA/CARB 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 gratings beside the cab
- Guardrails on top of the upper carriage (foldable for transport)
- Rear view cameras



- 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

## Safe and easy transport

- Mobilization kit with hydraulically operated pin connection
- Quick-release hydraulic couplers on upper carriage
- Hydaulic locking of support trestle
- Activated by remote control multi





## Jack-Up-System

- Enables lifting without additional equipment
- Quick and easy disassembly of the crawler
- Safe loading onto the low-loader

## Flexible transport concept

- Easy disassembly of the device using V-kinematics
- Transport possible with or without lower mast section
- Transport without crawlers
- Transport units < 25 t achievable</li>



< 25 t





## BG 23



## Kelly set-up

- Long Kelly guide
- Integrated shock absorbing spring system
- Kelly visualization (see page 9)
- Enhanced drilling performance
- High operation comfort
- Reduction of wear on Kelly bars and drive keys

## **Rotary drive**

- Optional single gear drive or multi gear drive
- Max. torque 235 kNm
- Max. speed 64 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 235 K



#### **KDK 235 S**



## Base carrier BT 65

## Standard

- Retractable gratings beside cab
- Cameras for rear area surveillance
- Integrated service platforms
- Guard rails on the upper level
- Hydraulic couplers on the upper level
- Remote control Multi

## Optional

- Compressor 1,000 l/min
- Electric generator 13 kVA
- Weather protection
- Quick-release hydraulic couplers on the undercarriage
- Jack-Up-System
- Premium operator seat with air-condition
- Grating on side of cab with handrail and grating in front of cab

### **Drilling rig attachment**

### Standard

- Three-sectional mast
- Sturdy V-type mast kinematic system
- Main winch with hydraulic free-wheel control
- Hydraulic locking for support trestle

## Optional

- Mast support unit
- Mobilization kit
- Hydraulic bolt connection on rotary sledge for easy mounting and demounting of rotary drive
- Extension package Super Low Head

## **Rotary drive**

## Standard

- Rotary drive KDK 235 K
- Selectable modes of operation
- Kelly drive adapter for outer Kelly tube 368 mm
- Quick-release hydraulic couplers

## Measuring and control system

#### Standard

- Automatic mast alignment with memory function
- Crowd stroke monitoring
- Kelly visualization
- Electronic mast limit control

## Optional

- Rotary drive KDK 235 S

#### 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
- Stability Plus

## **B-Tronic**

With the Bauer B-Tronic system, you can reliably and precisely accomplish your tasks on the construction site, even under extreme application conditions.

- The high-resolution touchscreen display makes operation extremely user-friendly
- By changing the brightness, color scheme and day/night mode, the display of the operating situation and light exposure can be optimally adjusted
- The main parameters, such as pump pressures, torque and drilling depths are visible at a glance





## **B-Drive**

- The B-Drive is a central operating and visualization system
- B-Drive combines configurable potentiometer values in one display
- Ergonomic placement of the display on the right column of the operator's cab

## Tablet

The tablet is the multifunctional tool for your Bauer machine

- You have online access to the customer portal, manuals, equipment management and lots more
- Default internet connection via the DTR module located in the machine
- The operator screen can be mirrored live onto the tablet in order to follow the ongoing work process





## Equipment networking

- DTR module
- With the DTR module, equipment and product data can be provided to a range of users
- WEB-BGM
- WEB-BGM is a software for accessing equipment data and locations of the equipment fleet even when you are not on site
  Report for production data
- Standardized reports to document drilling progress and as proof 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.



#### 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.

Many other assistance systems are available in our portfolio.

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## **Stability Plus**

- Safe work even in the extended range of outreach (safety sensors monitor swinging speed and rotary drive position)
- The usual agility of the drilling rig during Kelly drilling is fully maintained
- Enhanced performance thanks to extended outreach during drilling (light green area)
- Laborious relocation to reach drilling locations, particularly in corners, is avoided. This enables simplified handling on tight sites
- The strain on the equipment operator is reduced
- Display of permitted equipment parameters on the B-Tronic in real time
- Easy data transfer of stability values to B-Tronic
- All stability values calculated for the equipment are saved in B-Tronic and can be selected and activated quickly and easily





Only for reference to show working principle

## **Crowd Plus**

- Increased retraction force for extracting casing pipes by coupling the main and crowd winch
- Control via a single joystick
- Single-line pulling with the main winch possible
- Function only permitted when using a suitable pulling plate (pulling plate not included)
- Full single-line main winch pulling force can only be activated when using the mast support (reduced pulling force without mast support)
- Function available only for Kelly drilling





Only for reference to show working principle



# **Operating weight 73.3 t** (as shown)

Control     Control <t< th=""><th>Rotary drive (selectable)</th><th>KDK 235 K</th><th>KDK 235 S</th></t<>	Rotary drive (selectable)	KDK 235 K	KDK 235 S
Torque (nominal) for drilling at 350 bar     204 kNm     201 kNm       Max. speed of rotation     38 rpm     64 rpm       Crowd winch     38 rpm     64 rpm       Winch classification     M6 / L3 / T5     Max. sledge stroke     15,075 mm       Crowd force push effective / nominal     260 / 333 kN     Cod force push effective / nominal     260 / 333 kN       Crowd force Crowd Plus effective / nominal     260 / 333 kN     Cod force Crowd Plus effective / nominal     260 / 333 kN       With mast support unit     430 / 550 kN     without mast support unit     360 / 460 kN       Rope diameter     22 mm     Speed (down / up)     10.5 m/min       Fast speed (down / up)     30.5 m/min     Max. Ins speed     86 m/min       Max. line speed     86 m/min     Auxiliary winch     Max. Ins speed     85 m/min       Line pull (1st layer) effective / nominal     55 kN     Rope diameter     15 mm       Max. line speed     55 m/min     Base carrier (EEP)     Empire     CAT C 7.1     CAT C 7.1       Base carrier (EEP)     Engine     CAT C 7.1     CAT C 7.1     S60 rpm     EPA/CARB Tier 4 final       Diese			
Max. speed of rotation     38 rpm     64 rpm       Crowd winch     Mich classification     M6 / L3 / T5       Winch classification     M6 / L3 / T5       Max. sledge stroke     15,075 mm       Crowd force pull effective / nominal     260 / 333 kN       Extraction force Crowd Plus effective / nominal     260 / 333 kN       Extraction force Crowd Plus effective / nominal     300 / 550 kN       with mast support unit     430 / 550 kN       Rope diameter     22 mm       Speed (down / up)     10.5 m/min       Fast speed (down / up)     30.5 m/min       Main winch     Winch classification       Winch classification     M6 / L3 / T5       Line pull (1st layer) effective / nominal     170 kN       Rope diameter     22 mm       Max. line speed     86 m/min       Auxiliary winch     Eule pull (1st layer) effective / nominal       Line pull (1st layer) effective / nominal     55 kN       Rope diameter     15 mm       Max. line speed     55 m/min       Base carrier (EEP)     Eule pull (1st layer) effective / nominal       Engline     CAT C 7.1     CAT C 7.1			
Crowd winch   M6 / L3 / T5     Winch classification   M6 / L3 / T5     Max. sledge stroke   15,075 mm     Crowd force push effective / nominal   260 / 333 kN     Corwd force pull effective / nominal   260 / 333 kN     Extraction force Crowd Plus effective / nominal   430 / 550 kN     with mast support unit   430 / 550 kN     without mast support unit   360 / 460 kN     Rope diameter   22 mm     Speed (down / up)   10.5 m/min     Fast speed (down / up)   30.5 m/min     Main winch   Winch classification     Winch classification   M6 / L3 / T5     Line pull (1st layer) effective / nominal   170 kN     Rope diameter   22 mm     Max. line speed   86 m/min     Auxiliary winch   116 kW     Line pull (1st layer) effective / nominal   55 kN     Rope diameter   15 mm     Max. line speed   55 m/min     Base carrier (EEP)   Engine     Engine   CAT C 7.1   CAT C 7.1     Rated output ISO 3046-1   186 kW   238 kW     @ 1.850 rpm   £1.850 rpm   1.850 rpm <t< td=""><td></td><td></td><td></td></t<>			
Winch classification     M6 / L3 / T5       Max. sledge stroke     15,075 mm       Crowd force push effective / nominal     260 / 333 kN       Crowd force Crowd Plus effective / nominal     260 / 333 kN       Extraction force Crowd Plus effective / nominal     430 / 550 kN       with mast support unit     430 / 550 kN       without mast support unit     360 / 460 kN       Rope diameter     22 mm       Speed (down / up)     10.5 m/min       Fast speed (down / up)     30.5 m/min       Maw inch     Winch classification       Winch classification     M6 / L3 / T5       Line pull (1st layer) effective / nominal     170 kN       Rope diameter     22 mm       Max. line speed     86 m/min       Auxiliary winch     55 kN       Rope diameter     150 mm       Max. line speed     55 m/min       Base carrier (EEP)     Engine       Engine     CAT C 7.1     CAT C 7.1       Rated output ISO 3046-1     186 kW     238 kW       @ 1.850 rpm     @ 1.850 rpm     1850 rpm       Exhaust emission     UN/ECE R96'     EU St			
Max. sledge stroke     16,075 mm       Crowd force push effective / nominal     260 / 333 kN       Crowd force pull effective / nominal     260 / 333 kN       Extraction force Crowd Plus effective / nominal     430 / 550 kN       with mast support unit     430 / 550 kN       With mast support unit     430 / 550 kN       Rope diameter     22 mm       Speed (down / up)     10.5 m/min       Fast speed (down / up)     30.5 m/min       Main winch     170 kN       Winch classification     Me / L3 / T5       Line pull (1st layer) effective / nominal     170 kN       Rope diameter     22 mm       Max. line speed     86 m/min       Auxilary winch     22 mm       Max. line speed     55 kN       Rope diameter     15 mm       Max. line speed     55 m/min       Base carrier (EEP)     156 kW     238 kW       Engine     CAT C 7.1     CAT C 7.1       Rated output ISO 3046-1     186 kW     238 kW       @ 1.850 rpm     @ 1.850 rpm     1.850 rpm       Enal contput ISO 3046-1     564 0/-1     540 /34.51<		M6 /	13/T5
Crowd force push effective / nominal     260 / 333 kN       Crowd force pull effective / nominal     260 / 333 kN       Extraction force Crowd Plus effective / nominal     430 / 550 kN       with mast support unit     430 / 550 kN       with mast support unit     360 / 460 kN       Rope diameter     22 mm       Speed (down / up)     10.5 m/min       Fast speed (down / up)     30.5 m/min       Main winch     Mole / L3 / T5       Uine pull (1st layer) effective / nominal     170 kN       Rope diameter     22 mm       Max. line speed     86 m/min       Auxiliary winch     22 mm       Line pull (1st layer) effective / nominal     55 kN       Rope diameter     15 mm       Max. line speed     55 m/min       Base carrier (EEP)     E       Engine     CAT C 7.1     CAT C 7.1       Rated output ISO 3046-1     186 kW     238 kW       @ 1.850 rpm     @ 1.850 rpm       Exhaust emission     UN/ECE Re6*     EU Stage V       EPA/CARB Tier 4 final     540 / -1     540 / 34.5 I       Sound pressure level in the cabin (EN 16228,			
Crowd force pull effective / nominal   260 / 333 kN     Extraction force Crowd Plus effective / nominal   430 / 550 kN     with mast support unit   360 / 460 kN     Rope diameter   22 mm     Speed (down / up)   10.5 m/min     Fast speed (down / up)   30.5 m/min     Main winch   Winch classification     Winch classification   M6 / L3 / T5     Line pull (1st layer) effective / nominal   170 kN     Rope diameter   22 mm     Max. line speed   86 m/min     Auxillary winch   110 kN     Line pull (1st layer) effective / nominal   55 kN     Rope diameter   15 mm     Max. line speed   55 kN     Rope diameter   15 mm     Max. line speed   55 m/min     Base carrier (EEP)   E     Engine   CAT C 7.1   CAT C 7.1     Rated output ISO 3046-1   186 kW   238 kW     @ 1.850 rpm   @ 1.850 rpm   E     Exhaust emission   UN/ECE R96*   EU Stage V     EPA/CARB Tier 4 final   Diesel tank capacity / AdBlue Tank   540 / -1   540 / 34.5 1     Sound pressure leve			
Extraction force Crowd Plus effective / nominal   430 / 550 kN     with mast support unit   360 / 460 kN     Rope diameter   22 mm     Speed (down / up)   10.5 m/min     Fast speed (down / up)   30.5 m/min     Main winch   Winch classification     Winch classification   M6 / L3 / T5     Line pull (1st layer) effective / nominal   170 kN     Rope diameter   22 mm     Max. line speed   86 m/min     Auxiliary winch   15 mm     Line pull (1st layer) effective / nominal   55 kN     Rope diameter   15 mm     Max. line speed   55 m/min     Base carrier (EEP)   Engine     Engine   CAT C 7.1   CAT C 7.1     Rated output ISO 3046-1   186 kW   238 kW     @ 1.850 rpm   @ 1.850 rpm     Exhaust emission   UN/ECE R96*   EU Stage V     EPA/CARB Tier 4 final   540 / -1   540 / 34.5 1     Sound pressure level in the cabin (EN 16228, Annex B)   LVA 80 dB (A)     Sound pressure level in the cabin (EN 16228, Annex B)   LVA 80 dB (A)     Sound pressure level in the cabin (EN 16228, Annex B)   LVA 108 dB (A) <td></td> <td></td> <td></td>			
with mast support unit     430 / 550 kN       without mast support unit     360 / 460 kN       Rope diameter     22 mm       Speed (down / up)     10.5 m/min       Fast speed (down / up)     30.5 m/min       Main winch     M6 / L3 / T5       Line pull (1st layer) effective / nominal     170 kN       Rope diameter     22 mm       Max. line speed     86 m/min       Auxiliary winch     21 mm       Line pull (1st layer) effective / nominal     55 kN       Rope diameter     55 kN       Bope diameter     55 kN       Rope diameter     55 kN       Rope diameter     15 mm       Max. line speed     55 m/min       Base carrier (EEP)     E       Engine     CAT C 7.1     CAT C 7.1       Rate doutput ISO 3046-1     186 kW     238 kW       @ 1.850 rpm     @ 1.850 rpm     186 rpm       Exhaust emission     UV/ECE R96'     EU Stage V       Diesel tank capacity / AdBlue Tank     540 / -1     540 / 34.51       Sound pressure level in the cabin (EN 16228, Annex B)     LVA, 108 dB (A)  <		2007	
Rope diameter     22 mm       Speed (down / up)     10.5 m/min       Fast speed (down / up)     30.5 m/min       Main winch     30.5 m/min       Winch classification     M6 / L3 / T5       Line pull (1st layer) effective / nominal     170 kN       Rope diameter     22 mm       Max. line speed     86 m/min       Auxiliary winch     15 mm       Line pull (1st layer) effective / nominal     55 kN       Rope diameter     15 mm       Max. line speed     55 m/min       Base carrier (EEP)     Engine       Engine     CAT C 7.1       Rate doutput ISO 3046-1     186 kW       @ 1.850 rpm     @ 1.850 rpm       Exhaust emission     UN/ECE R96*     EU Stage V       EPA/CARB Tier 4 final     540 / -1     540 / 34.5 1       Sound pressure level in the cabin (EN 16228, Annex B)     LP <sub>A</sub> 80 dB (A)       Sound pressure     350 bar       Hydraulic pressure     350 bar       Hydraulic tark capacity     450 I       Flow rates     2 x 220 + 1 x 280 + 1 x 135 l/min       Under carriage     2 x 220 + 1 x		430 /	550 kN
Speed (down / up)10.5 m/minFast speed (down / up)30.5 m/minMain winch30.5 m/minWinch classificationM6 / L3 / T5Line pull (1st layer) effective / nominal170 kNRope diameter22 mmMax. line speed86 m/minAuxiliary winch155 kNLine pull (1st layer) effective / nominal55 kNRope diameter15 mmMax. line speed55 m/minBase carrier (EEP)55 m/minEngineCAT C 7.1CAT C 7.1Rated output ISO 3046-1186 kW238 kW@ 1.850 rpm@ 1.850 rpmExhaust emissionUN/ECE R96*EU Stage VEPA/CARB Tier 4 final540 / -1540 / 34.5 1Sound pressure level in the cabin (EN 16228, Annex B)LPA 80 dB (A)Sound power level (2000 / 14 / EC u. EN 16228, Annex B)LWA 108 dB (A)Hydraulic pressure350 barHydraulic tark capacity450 1Flow rates2 x 220 + 1 x 280 + 1 x 135 l/minUnder carriageCarriageCrawler typeB 60	without mast support unit	360 /	460 kN
Fast speed (down / up)30.5 m/minMain winchWinch classificationM6 / L3 / T5Line pull (1st layer) effective / nominal170 kNRope diameter22 mmMax. line speed86 m/minAuxiliary winchLine pull (1st layer) effective / nominal55 kNRope diameter15 mmMax. line speed55 m/minBase carrier (EEP)EngineCAT C 7.1EngineCAT C 7.1Rated output ISO 3046-1186 kW238 kW@ 1.850 rpm0 1.850 rpmExhaust emissionUN/ECE R96*EUS tage VEPA/CARB Tier 4 finalDiesel tank capacity / AdBlue Tank540 / -1Sound pressure level in the cabin (EN 16228, Annex B)LPA 80 dB (A)Sound power level (2000 / 14 / EC u. EN 16228, Annex B)LWA 108 dB (A)Hydraulic pressure350 barHydraulic tank capacity450 lFlow rates2 x 220 + 1 x 280 + 1 x 135 l/minUnder carriageCarriageCrawler typeB 60	Rope diameter	22	2 mm
Main winch   M6 / L3 / T5     Line pull (1st layer) effective / nominal   170 kN     Rope diameter   22 mm     Max. line speed   86 m/min     Auxiliary winch   55 kN     Line pull (1st layer) effective / nominal   55 kN     Rope diameter   15 mm     Max. line speed   55 m/min     Base carrier (EEP)   Engine     Engine   CAT C 7.1   CAT C 7.1     Rated output ISO 3046-1   186 kW   238 kW     @ 1.850 rpm   @ 1.850 rpm     Exhaust emission   UN/ECE R96*   EU Stage V     EDA/CARB Tier 4 final   Diesel tank capacity / AdBlue Tank   540 / -1   540 / 34.5 1     Sound pressure level in the cabin (EN 16228, Annex B)   LP <sub>A</sub> 80 dB (A)   Sound power level (2000 / 14 / EC u. EN 16228, Annex B)   LW <sub>A</sub> 108 dB (A)     Hydraulic pressure   350 bar   Hydraulic tank capacity   450 I     Flow rates   2 x 220 + 1 x 280 + 1 x 135 l/min   Under carriage     Crawler type   B 60   B 60	Speed (down / up)	10.5	m/min
Winch classificationM6 / L3 / T5Line pull (1st layer) effective / nominal170 kNRope diameter22 mmMax. line speed86 m/minAuxiliary winchImage offective / nominal55 kNRope diameter15 mmMax. line speed55 m/minBase carrier (EEP)55 kNEngineCAT C 7.1CAT C 7.1Rated output ISO 3046-1186 kW238 kW@ 1.850 rpm@ 1.850 rpmExhaust emissionUN/ECE R96*EU Stage VDiesel tank capacity / AdBlue Tank540 / - 1540 / 34.5 1Sound pressure level in the cabin (EN 16228, Annex B)LPA, 80 dB (A)Sound power level (2000 / 14 / EC u. EN 16228, Annex B)LPA, 80 dB (A)Hydraulic pressure350 barHydraulic tank capacity450 1Flow rates2 x 220 + 1 x 280 + 1 x 135 l/minUnder carriageCarriageCrawler typeB 60	Fast speed (down / up)	30.5	m/min
Line pull (1st layer) effective / nominal   170 kN     Rope diameter   22 mm     Max. line speed   86 m/min     Auxiliary winch   55 kN     Rope diameter   15 mm     Max. line speed   55 kN     Rope diameter   15 mm     Max. line speed   55 m/min     Base carrier (EEP)   Engine     Engine   CAT C 7.1   CAT C 7.1     Rated output ISO 3046-1   186 kW   238 kW     @ 1.850 rpm   @ 1.850 rpm   @ 1.850 rpm     Exhaust emission   UN/ECE R96*   EU Stage V     EDA/CARB Tier 4 final   540 / -1   540 / 34.51     Sound pressure level in the cabin (EN 16228, Annex B)   LPA 80 dB (A)     Sound power level (2000 / 14 / EC u. EN 16228, Annex B)   LWA 108 dB (A)     Hydraulic pressure   350 bar     Hydraulic tank capacity   450 I     Flow rates   2 x 220 + 1 x 280 + 1 x 135 l/min     Under carriage   Caxuler type   B 60	Main winch		
Rope diameter22 mmMax. line speed86 m/minAuxiliary winchLine pull (1st layer) effective / nominal55 kNRope diameter15 mmMax. line speed55 m/minBase carrier (EEP)EngineCAT C 7.1Rated output ISO 3046-1186 kW238 kW@ 1.850 rpm@ 1.850 rpmExhaust emissionUN/ECE R96*EU Stage VEPA/CARB Tier 4 finalDiesel tank capacity / AdBlue Tank540 / -1540 / 34.5 1Sound pressure level in the cabin (EN 16228, Annex B)LPA 80 dB (A)Sound power level (2000 / 14 / EC u. EN 16228, Annex B)LWA 108 dB (A)Hydraulic pressure350 barHydraulic tank capacity450 1Flow rates2 x 220 + 1 x 280 + 1 x 135 l/minUnder carriageCrawler typeB 60	Winch classification	M6 /	L3 / T5
Max. line speed   86 m/min     Auxiliary winch   55 kN     Rope diameter   15 mm     Max. line speed   55 m/min     Base carrier (EEP)   Engine     Engine   CAT C 7.1     Rope diameter   186 kW     238 kW   238 kW     @ 1.850 rpm   @ 1.850 rpm     Exhaust emission   UN/ECE R96*   EU Stage V     EPA/CARB Tier 4 final   540 / -1   540 / 34.5 1     Sound pressure level in the cabin (EN 16228, Annex B)   LP <sub>A</sub> 80 dB (A)     Sound power level (2000 / 14 / EC u. EN 16228, Annex B)   LW <sub>A</sub> 108 dB (A)     Hydraulic pressure   350 bar     Hydraulic tank capacity   450 l     Flow rates   2 x 220 + 1 x 280 + 1 x 135 l/min     Under carriage   Crawler type	Line pull (1st layer) effective / nominal	17	'0 kN
Auxiliary winchLine pull (1st layer) effective / nominal55 kNRope diameter15 mmMax. line speed55 m/minBase carrier (EEP)EngineCAT C 7.1Rated output ISO 3046-1186 kW238 kW@ 1.850 rpm@ 1.850 rpm@ 1.850 rpmExhaust emissionUN/ECE R96*EU Stage VEPA/CARB Tier 4 finalDiesel tank capacity / AdBlue Tank540 / -1Sound pressure level in the cabin (EN 16228, Annex B)LP <sub>A</sub> 80 dB (A)Sound power level (2000 / 14 / EC u. EN 16228, Annex B)LW <sub>A</sub> 108 dB (A)Hydraulic pressure350 barHydraulic tank capacity450 IFlow rates2 x 220 + 1 x 280 + 1 x 135 l/minUnder carriageB 60	Rope diameter	22	? mm
Line pull (1st layer) effective / nominal     55 kN       Rope diameter     15 mm       Max. line speed     55 m/min       Base carrier (EEP)     CAT C 7.1     CAT C 7.1       Rated output ISO 3046-1     186 kW     238 kW       @ 1.850 rpm     @ 1.850 rpm     @ 1.850 rpm       Exhaust emission     UN/ECE R96*     EU Stage V       EPA/CARB Tier 4 final     E0 / 34.5 I     Sound pressure level in the cabin (EN 16228, Annex B)     LP <sub>A</sub> 80 dB (A)       Sound power level (2000 / 14 / EC u. EN 16228, Annex B)     LW <sub>A</sub> 108 dB (A)     Sound power level (2000 / 14 / EC u. EN 16228, Annex B)     LW <sub>A</sub> 108 dB (A)       Hydraulic pressure     350 bar     Hydraulic tank capacity     450 I       Flow rates     2 x 220 + 1 x 280 + 1 x 135 l/min     Under carriage       Crawler type     B 60     ED (200 / 1 x 20 + 1 x 135 l/min)	Max. line speed	86 (	m/min
Rope diameter15 mmMax. line speed55 m/minBase carrier (EEP)CAT C 7.1CAT C 7.1EngineCAT C 7.1CAT C 7.1Rated output ISO 3046-1186 kW238 kW@ 1.850 rpm@ 1.850 rpmExhaust emissionUN/ECE R96*EU Stage VEpa/CARB Tier 4 finalEPA/CARB Tier 4 finalDiesel tank capacity / AdBlue Tank540 / -1540 / 34.5 lSound pressure level in the cabin (EN 16228, Annex B)LPA 80 dB (A)Sound power level (2000 / 14 / EC u. EN 16228, Annex B)LWA 108 dB (A)Hydraulic pressure350 barHydraulic tank capacity450 lFlow rates2 x 220 + 1 x 280 + 1 x 135 l/minUnder carriageB 60	Auxiliary winch		
Max. line speed   55 m/min     Base carrier (EEP)     Engine   CAT C 7.1   CAT C 7.1     Rated output ISO 3046-1   186 kW   238 kW     @ 1.850 rpm   @ 1.850 rpm   @ 1.850 rpm     Exhaust emission   UN/ECE R96*   EU Stage V     EPA/CARB Tier 4 final   EPA/CARB Tier 4 final     Diesel tank capacity / AdBlue Tank   540 / -1   540 / 34.5 1     Sound pressure level in the cabin (EN 16228, Annex B)   LP <sub>A</sub> 80 dB (A)     Sound power level (2000 / 14 / EC u. EN 16228, Annex B)   LW <sub>A</sub> 108 dB (A)     Hydraulic pressure   350 bar     Hydraulic tank capacity   450 l     Flow rates   2 x 220 + 1 x 280 + 1 x 135 l/min     Under carriage   E x 220 + 1 x 280 + 1 x 135 l/min	Line pull (1st layer) effective / nominal	55	5 kN
Base carrier (EEP)EngineCAT C 7.1CAT C 7.1Rated output ISO 3046-1186 kW238 kW@ 1.850 rpm@ 1.850 rpm@ 1.850 rpmExhaust emissionUN/ECE R96*EU Stage VEPA/CARB Tier 4 finalEPA/CARB Tier 4 finalDiesel tank capacity / AdBlue Tank540 / -1540 / 34.5 1Sound pressure level in the cabin (EN 16228, Annex B)LPA 80 dB (A)Sound power level (2000 / 14 / EC u. EN 16228, Annex B)LWA 108 dB (A)Hydraulic pressure350 barHydraulic tank capacity450 1Flow rates2 x 220 + 1 x 280 + 1 x 135 l/minUnder carriageB 60	Rope diameter	15	5 mm
Engine     CAT C 7.1     CAT C 7.1       Rated output ISO 3046-1     186 kW     238 kW       @ 1.850 rpm     @ 1.850 rpm       Exhaust emission     UN/ECE R96*     EU Stage V       Exhaust emission     UN/ECE R96*     EU Stage V       Diesel tank capacity / AdBlue Tank     540 / -1     540 / 34.5 I       Sound pressure level in the cabin (EN 16228, Annex B)     LP <sub>A</sub> 80 dB (A)       Sound power level (2000 / 14 / EC u. EN 16228, Annex B)     LW <sub>A</sub> 108 dB (A)       Hydraulic pressure     350 bar       Hydraulic tank capacity     450 I       Flow rates     2 x 220 + 1 x 280 + 1 x 135 l/min       Under carriage     B 60	Max. line speed	55 ו	m/min
Rated output ISO 3046-1186 kW238 kW@ 1.850 rpm@ 1.850 rpm@ 1.850 rpmExhaust emissionUN/ECE R96*EU Stage VEPA/CARB Tier 4 finalEPA/CARB Tier 4 finalDiesel tank capacity / AdBlue Tank540 / -1540 / 34.5 lSound pressure level in the cabin (EN 16228, Annex B)LPA 80 dB (A)Sound power level (2000 / 14 / EC u. EN 16228, Annex B)LWA 108 dB (A)Hydraulic pressure350 barHydraulic tank capacity450 lFlow rates2 x 220 + 1 x 280 + 1 x 135 l/minUnder carriageCrawler typeB 60	Base carrier (EEP)		
@ 1.850 rpm@ 1.850 rpmExhaust emissionUN/ECE R96*EU Stage V EPA/CARB Tier 4 finalDiesel tank capacity / AdBlue Tank540 / -1540 / 34.5 lSound pressure level in the cabin (EN 16228, Annex B)LPA 80 dB (A)Sound power level (2000 / 14 / EC u. EN 16228, Annex B)LWA 108 dB (A)Hydraulic pressure350 barHydraulic tank capacity450 lFlow rates2 x 220 + 1 x 280 + 1 x 135 l/minUnder carriageB 60	Engine	CAT C 7.1	CAT C 7.1
Exhaust emissionUN/ECE R96*EU Stage V EPA/CARB Tier 4 finalDiesel tank capacity / AdBlue Tank540 / -1540 / 34.5 lSound pressure level in the cabin (EN 16228, Annex B)LPA 80 dB (A)Sound power level (2000 / 14 / EC u. EN 16228, Annex B)LWA 108 dB (A)Hydraulic pressure350 barHydraulic tank capacity450 lFlow rates2 x 220 + 1 x 280 + 1 x 135 l/minUnder carriageB 60	Rated output ISO 3046-1	186 kW	238 kW
EPA/CARB Tier 4 finalDiesel tank capacity / AdBlue Tank540 / -1540 / 34.5 lSound pressure level in the cabin (EN 16228, Annex B)LPA 80 dB (A)Sound power level (2000 / 14 / EC u. EN 16228, Annex B)LWA 108 dB (A)Hydraulic pressure350 barHydraulic tank capacity450 lFlow rates2 x 220 + 1 x 280 + 1 x 135 l/minUnder carriageCrawler typeB 60		@ 1.850 rpm	@ 1.850 rpm
Diesel tank capacity / AdBlue Tank   540 / -1   540 / 34.5 l     Sound pressure level in the cabin (EN 16228, Annex B)   LP <sub>A</sub> 80 dB (A)     Sound power level (2000 / 14 / EC u. EN 16228, Annex B)   LW <sub>A</sub> 108 dB (A)     Hydraulic pressure   350 bar     Hydraulic tank capacity   450 l     Flow rates   2 x 220 + 1 x 280 + 1 x 135 l/min     Under carriage   B 60	Exhaust emission	UN/ECE R96*	EU Stage V
Sound pressure level in the cabin (EN 16228, Annex B)LPA 80 dB (A)Sound power level (2000 / 14 / EC u. EN 16228, Annex B)LWA 108 dB (A)Hydraulic pressure350 barHydraulic tank capacity450 lFlow rates2 x 220 + 1 x 280 + 1 x 135 l/minUnder carriageB 60			EPA/CARB Tier 4 final
Sound power level (2000 / 14 / EC u. EN 16228, Annex B)LWA 108 dB (A)Hydraulic pressure350 barHydraulic tank capacity450 lFlow rates2 x 220 + 1 x 280 + 1 x 135 l/minUnder carriageB 60	Diesel tank capacity / AdBlue Tank	540 / – I	540 / 34.5 I
Hydraulic pressure350 barHydraulic tank capacity450 lFlow rates2 x 220 + 1 x 280 + 1 x 135 l/minUnder carriageCrawler typeB 60	Sound pressure level in the cabin (EN 16228, Annex B)	LP <sub>A</sub> 8	0 dB (A)
Hydraulic tank capacity450 lFlow rates2 x 220 + 1 x 280 + 1 x 135 l/minUnder carriageCrawler typeB 60	Sound power level (2000 / 14 / EC u. EN 16228, Annex B)	LW <sub>A</sub> 108 dB (A)	
Flow rates2 x 220 + 1 x 280 + 1 x 135 l/minUnder carriageB 60	Hydraulic pressure	350 bar	
Under carriage Crawler type B 60	Hydraulic tank capacity		
Crawler type B 60	Flow rates	2 x 220 + 1 x 2	80 + 1 x 135 l/min
	Under carriage		
Traction force effective / nominal 450 / 530 kN	Crawler type	E	3 60
	Traction force effective / nominal	450 /	530 kN



Kelly Drilling	
Max. drilling diameter	
uncased	1,700 mm
cased	1,400 mm
Operating weight approx.	73.3 t
with Kelly BK 200 / 368 /	4/21-S
with casing drive adapter	1,300 mm
with bucket	1,180 mm
with counterweight*	7.6 t



.

Drilling depth – uncased Kelly drilling					
3-part Kelly	A (m)	B (m)	G (kg)	HW (m)	T (m)
BK200/368/3/18	8.4	20.4	3,400	8.7	18.7
BK200/368/3/21	9.4	23.4	3,750	7.7	21.7
BK200/368/3/24	10.4	26.4	4,100	6.7	24.7
BK200/368/3/30	12.4	32.4	4,750	4.7	31.0
BK200/368/3/36	14.4	38.4	5,400	2.7	36.7
4-part Kelly					
BK200/368/4/28	9.5	31.1	5,050	7.6	29.4
BK200/368/4/32	10.5	35.1	5,550	6.6	33.4
BK200/368/4/40	12.5	43.1	6,500	4.6	41.4
BK200/368/4/48	14.5	51.1	7,500	2.6	49.4
BK200/368/4/50	15.0	53.1	7,750	2.1	51.4

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 0.28 m when using maximum horizontal mast reach.

Further drilling depths, diameters and other Kelly types on request.





CFA Drilling	
Kelly extension	6 m
Max. drilling diameter	900 mm
Max. drilling depth with auger cleaner	19.5 m
Max. extraction force with main and crowd winch (effective)*	600 kN
With counterweight*	7.6 t



FDP Drilling	
Kelly extension	6 m
Max. drilling diameter	510 mm
Max. drilling depth	20.8 m
Max. extraction force with main and crowd winch (effective)*	600 kN
With counterweight*	7.6 t

**G** = Weight **B** = Width Weights shown are approximate values; optional equipment may change the overall weight and dimensions.

## Transport

## Base carrier with lower mast section

## G = 55.6 t with 7.6 t counterweight



## Base carrier without lower mast section

## G = 41.6 t with 7.6 t counterweight



Base carrier without crawlers, without counterweight

## G = 20.4 t



## Crawlers

G = 2 x 6.8 t B = 2,600 mm





## Lower mast section

- G = 9.9 t with main winch, without deflection block
- G = 12.0 t with main winch, with deflection block
- B = 2,200 mm







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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.