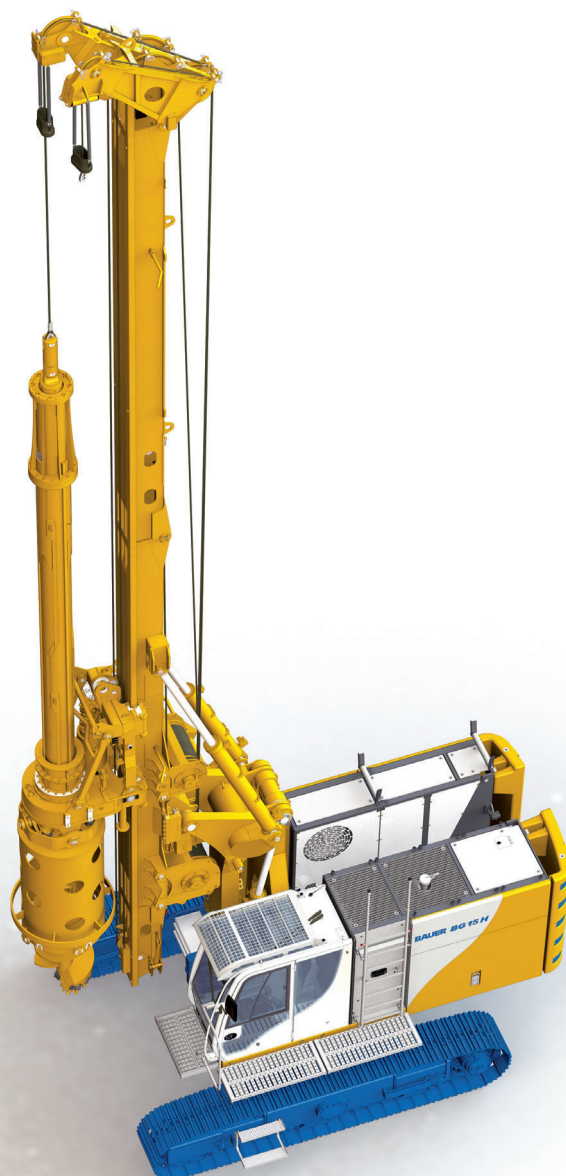


# BAUER BG 15 H

## Rotary Drilling Rig

Base Carrier BT 50



## The BG Systems

BAUER Drilling rigs are state-of-the-art Kelly drilling rigs as well as multi-functional rigs for various construction methods in special deep foundation engineering. The best choice for challenging project and transport situations.



**Kelly Drilling**



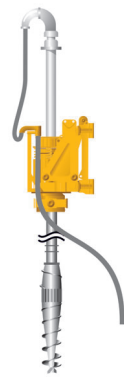
**Cased Kelly Drilling**



**Cased Kelly Drilling  
Installation with Oscillator**



**CFA Continuous  
Flight Auger Drilling**



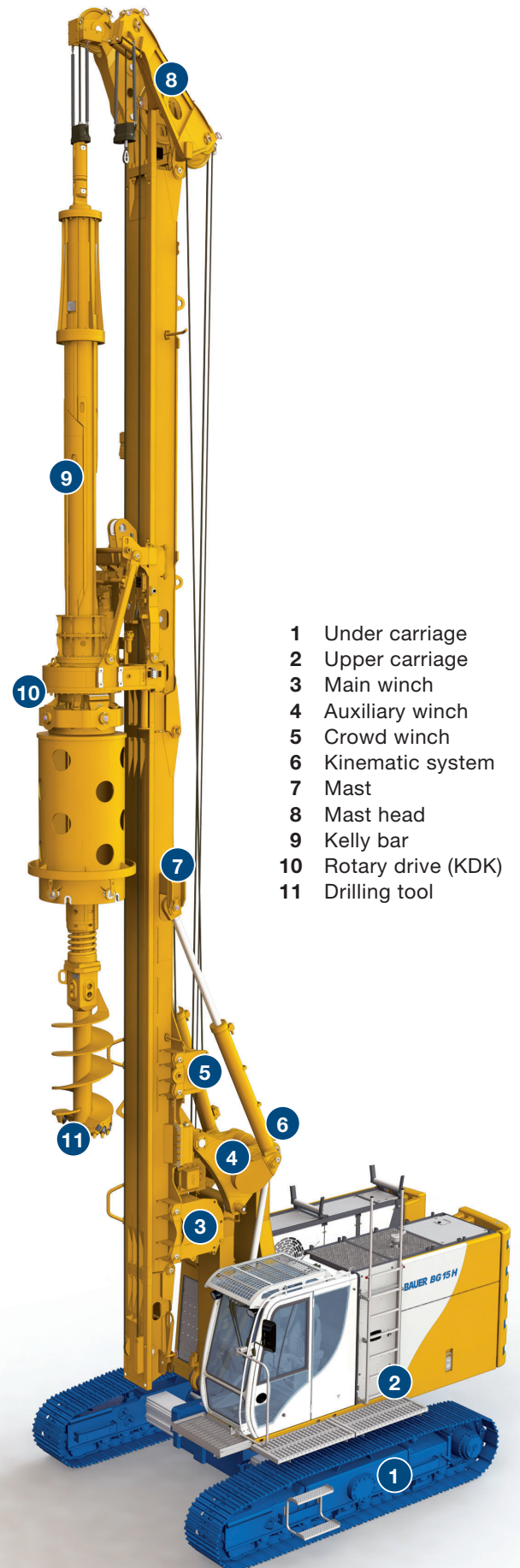
**FDP Full Displacement Piling  
(Standard or Lost Bit)**

BAUER Drilling rigs are characterized by the following special features:

- Highest safety standards
- Environmental compatibility, efficiency and productivity
- Optimized transport and fast assembly
- Highest quality standards
- Long operating life and excellent resale value

## The Rotary Drilling Rig BG 15 H BT 50

Max. drilling diameter:	1,500 mm
Max. drilling depth:	44.0 m
Max. torque:	150 kNm
Max. height:	18.2 m
Max. engine power:	CAT C7.1: 186 kW





#### Efficiency

- CAT engine
- Installable casing length: 6 m
- High-performance hydraulic system
- Single-layer winch operation
- B-Tronic M



#### Mobility

- Transportation width 2.5 m
- Transportation height 3.3 m
- Transportation length 13 m
- Transportation weight 45 t
- Fast mobilisation
- Remote control basic



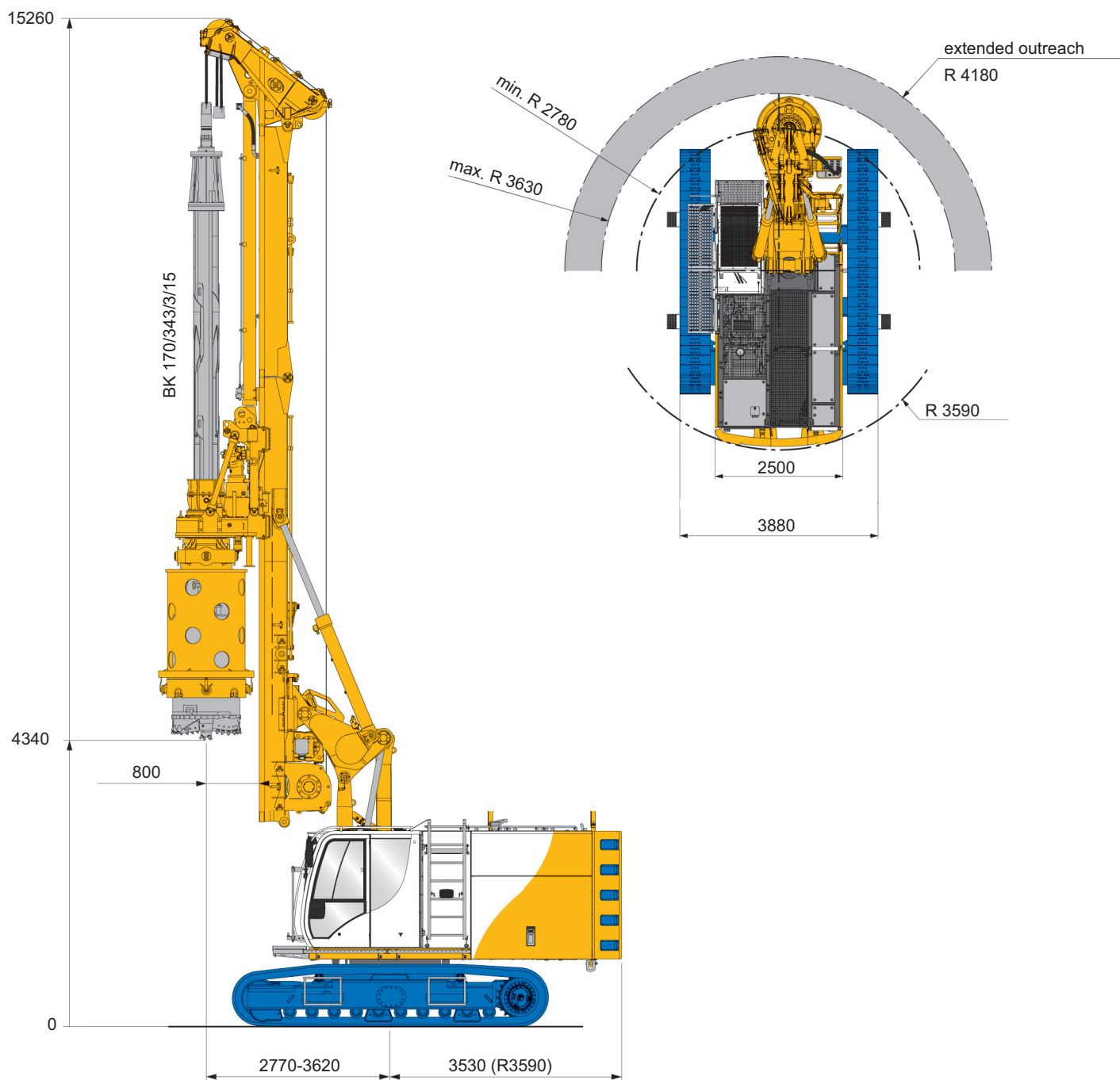
#### **Flexibility**

- CFA option
- Giant Drill
- Variety of configurations
- Low Head



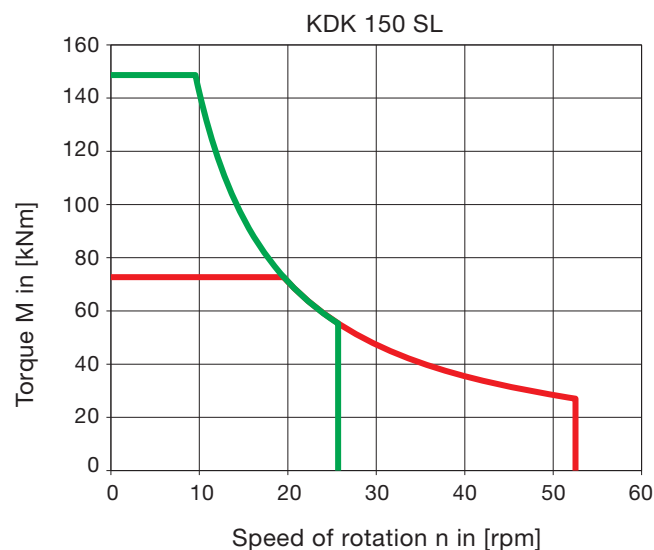
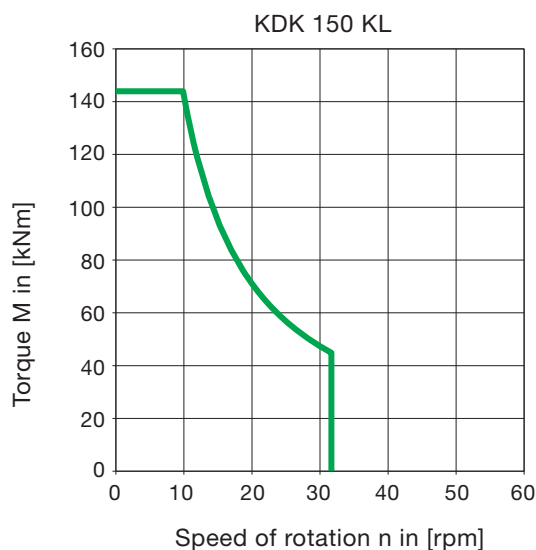
#### **Comfort**

- Comfortable cabin
- Air-suspended driver's seat
- Simplified operating concept
- B-Control screen
- Integrated service platform
- No working @ height
- Easy access to service points



**Operating weight approx. 45.0 t**  
(as shown)

Rotary drive	KDK 150 KL	KDK 150 SL
Torque (nominal)	145 kNm	150 kNm
Speed of rotation (max.)	32 rpm	52 rpm



Crowd	Cylinder	Winch
Crowd force push/pull (effective / nominal)	250 / 275 kN	200 / 256 kN
Speed (down / up)	5 / 5 m/min	10 / 6 m/min
Fast speed (down / up)	15 / 20 m/min	35 / 30 m/min
Main winch		
Winch classification		M6 / L3 / T5
Line pull (1st layer) effective / nominal		140 / 175 kN
Rope diameter		22 mm
Line speed (max.)		80 m/min
Auxiliary winch		
Winch classification		M5 / L2 / T5
Line pull (1st layer) effective / nominal		43 / 54 kN
Rope diameter		16 mm
Line speed (max.)		28 m/min
Base carrier		
		BT 50
Engine	CAT C 7.1	CAT C 7.1
Rated output ISO 3046-1	186 kW	186 kW
	1,800 rpm	1,800 rpm
Engine conforms to EU 2016/1628 EPA/CARB GB20891-2014	ORA * China Stage III	Stage V Tier 4 final
Diesel tank capacity/AdBlue		540 l / 32 l
Sound pressure level inside cabine (EN 16228, Annex B)		LPA 80 dB (A)
Sound power level (2000/14/EC u. EN 16228, Annex B)		LWA 105 dB (A)
Hydraulic pressure		350 bar
Undercarriage		
		UW 50
Crawler type		B 60
Traction force effective / nominal		340 / 400 kN

\* Exhaust emission equivalent Tier 3 / Stage III A emission standards

## Base Carrier

## Standard

- Removable counterweight 5.0 t
- Engine diagnostic system
- Gratings on side and in front of operator's cab
- Camera system for rear area surveillance
- Multi-grade hydraulic oil
- Bauer comfort operator's cab with streamline concept, **Fig. B**
  - On-board lighting system LED
  - Air-conditioning system
  - Radio
  - Air-cushioned operator's seat with seat heating
  - Protective roof guard
- Integrated service platform, **Fig. A**

## Optional

- Comfort handling kit
  - Camera system for winch surveillance
  - Central lubrication system
  - Electric refueling pump
  - Swivel for auxiliary rope
  - Test ports in upper carriage
  - Tool tray in front of operator's cab
  - Service tool kit
- Air compressor 1,000 l/min
- Park heating with timer
- Electric generator
- Foldable guardrails
- Weather protection



## BG Attachment

## Standard

- H-type kinematic system, **Fig. C**
- Mast head foldable for transportation
- Crowd cylinder
- Main winch with hydraulic freewheeling control, **Fig. D**
- Swivel for main rope

## Optional

- CFA kit
- Mast support
- Crowd winch
- Low head kit
- Upper Kelly guide



## KDK Rotary Drive

### Standard

- Rotary drive 150 KL (single gear drive), **Fig. E and F**
- Selectable modes of operation
- Kelly drive adapter for outer casings 343 mm
- Exchangeable Kelly drive keys
- Quick release couplers on hydraulic hoses



### Optional

- Rotary Drive KDK 150 SL (multi gear drive)
- Cardanic joint
- Trigger plate



## Measuring and Control Equipment

### Standard, Fig. G and H

- B-Control monitor with integrated diagnostic function
- Display of fault messages as plain text
- Digital display of loads and torque
- Mast inclination measurement on x/y axes (digital/ analogous display)
- Automatic vertical alignment of mast
- Electric load sensing on main and auxiliary rope
- Speed sensing device on KDK
- Electronic limitation of horizontal displacement
- Defined torque setting for KDK
- Crowd stroke measurement
- Kelly drilling assistant
- Automatic crowd control
- One-directional spoil discharge assistant
- Bi-directional spoil discharge assistant
- Casing extraction assistant
- Slewing angle display for upper carriage



### Optional

- Remote transmission of machine data (DTR-module)
- Additional camera with monitor for rear area surveillance
- Active mast support
- B-Tronic M



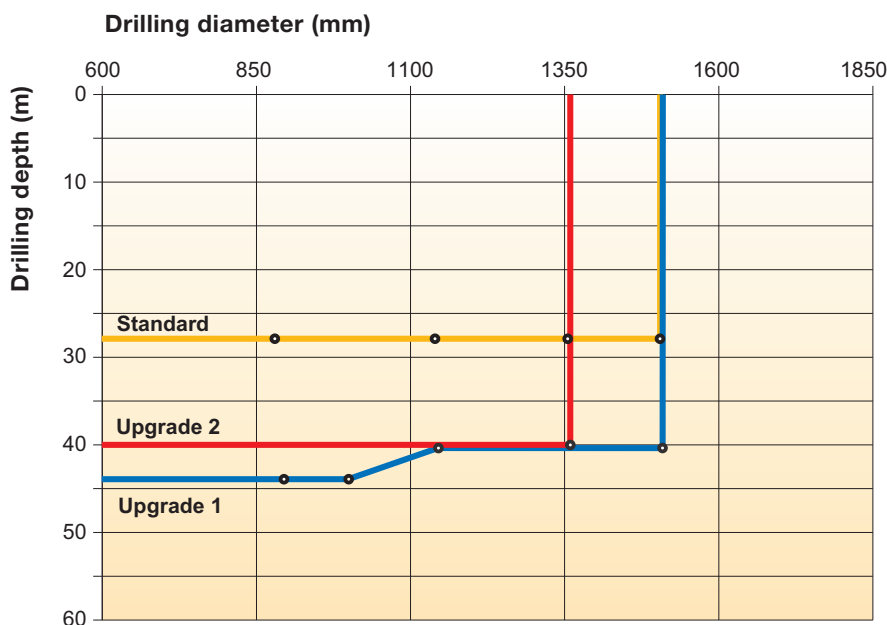
### B-Tronic M

The BAUER B-Tronic M is your entrance to the BAUER device networking. Keep track of all your machines and projects with the help of the B-Tronic M systems. Reduce downtime by rapid evaluation of messages (including email messages) and utilize our state-of-the-art tools.

- 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



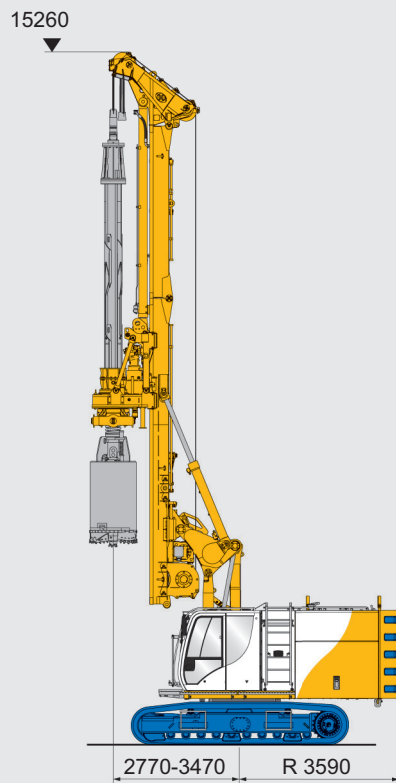
### Overview



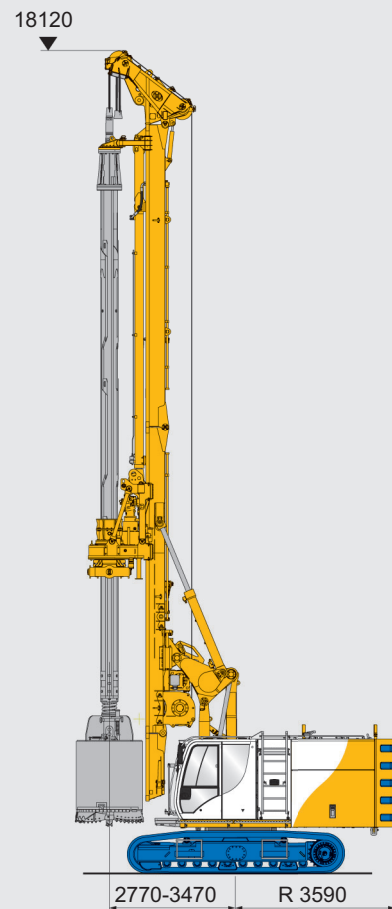
### Rig Configurations

	Standard	Upgrade 1	Upgrade 2
Drilling axis	800 mm	800 mm	800 mm
Crowd system	Cylinder	Cylinder	Winch
Counterweight	5 t	5 t	5 t
Lower mast extension	No	Yes	Long
Giant drill	Yes	No	No
Kelly – casing combination	3/15 with 4 m casing string	3/21 with 4 m casing string	3/15 with 6 m casing string

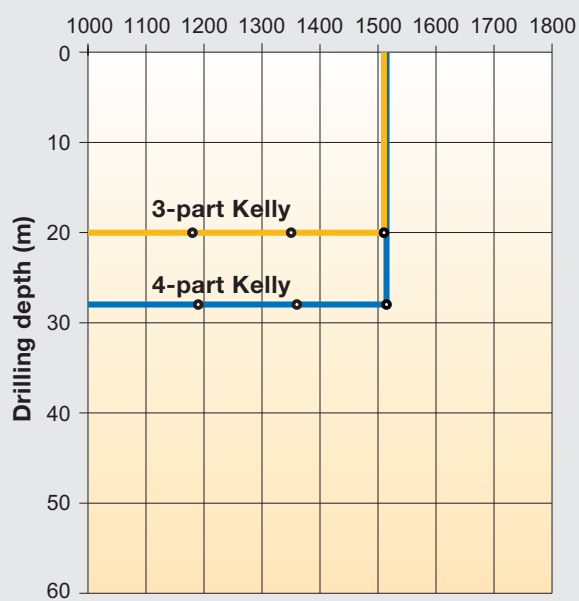
Standard



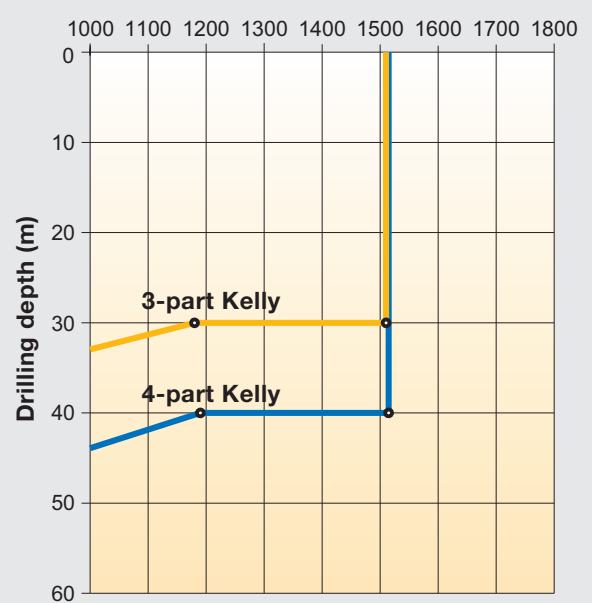
Upgrade 1



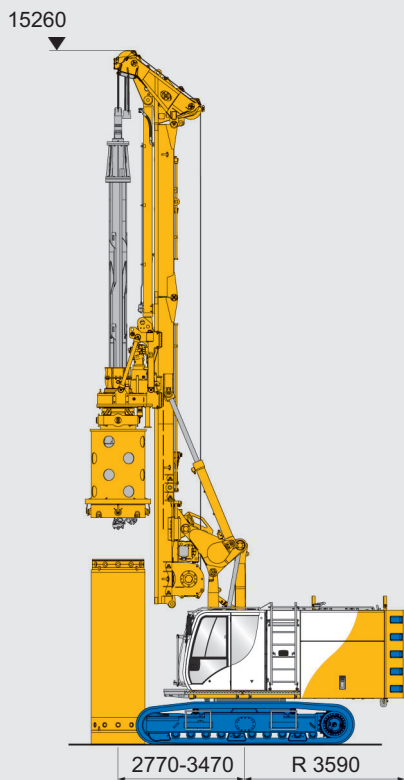
Drilling diameter (mm)



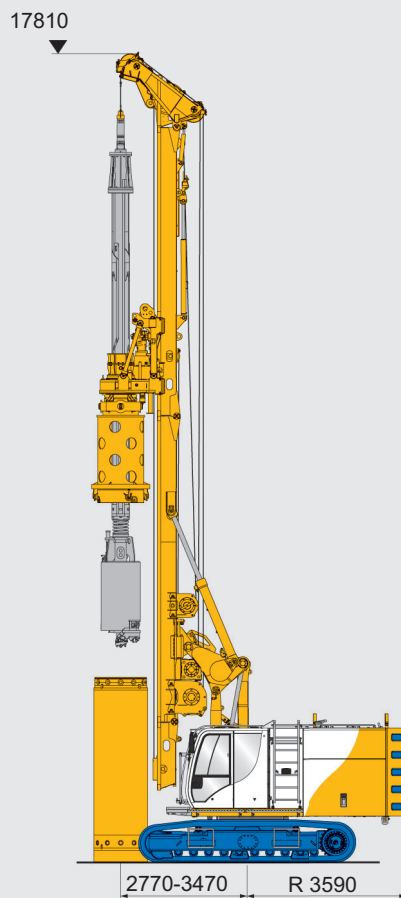
Drilling diameter (mm)



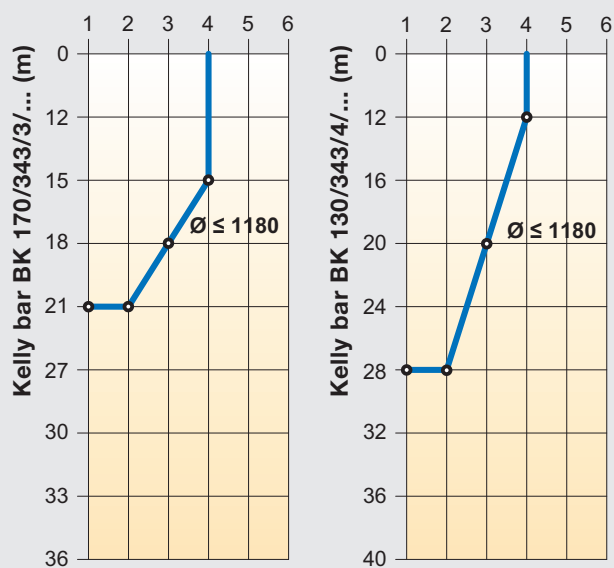
Standard



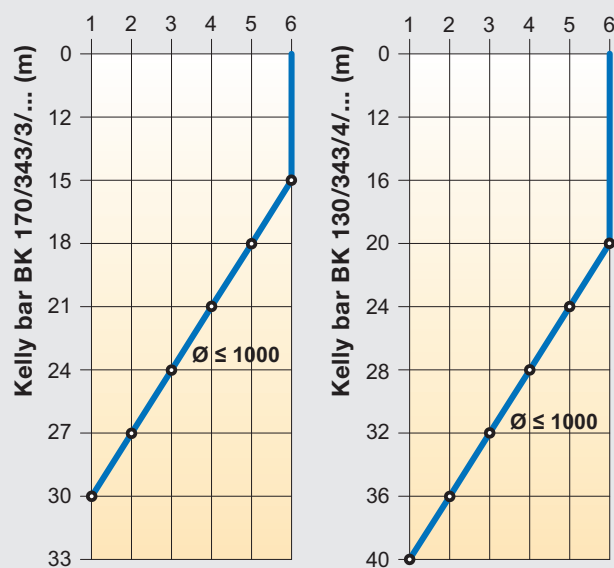
Upgrade 2



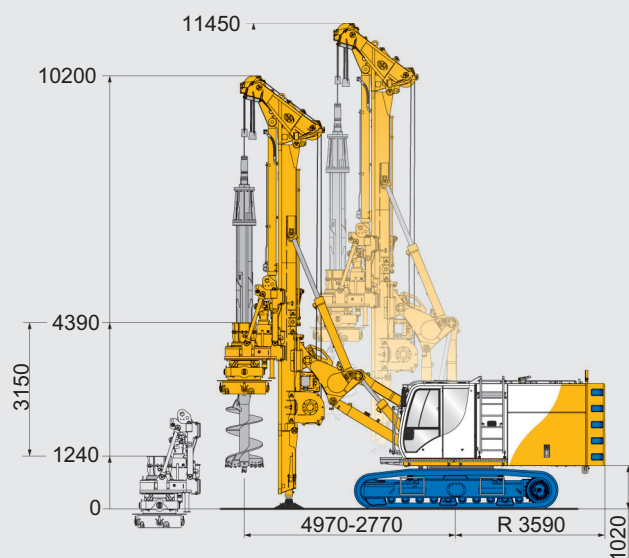
Length of casing (m)



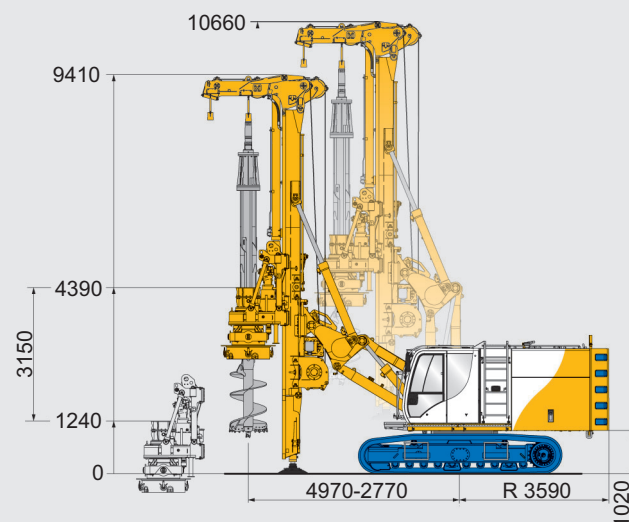
Length of casing (m)



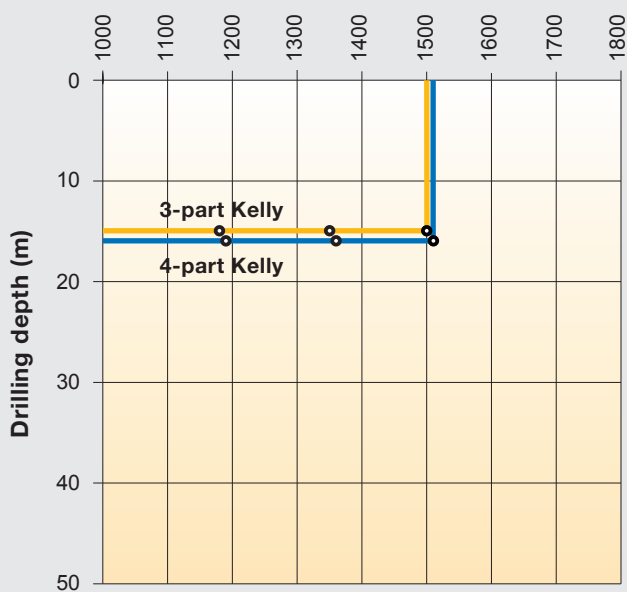
## Low Headroom with Standard Mast Head



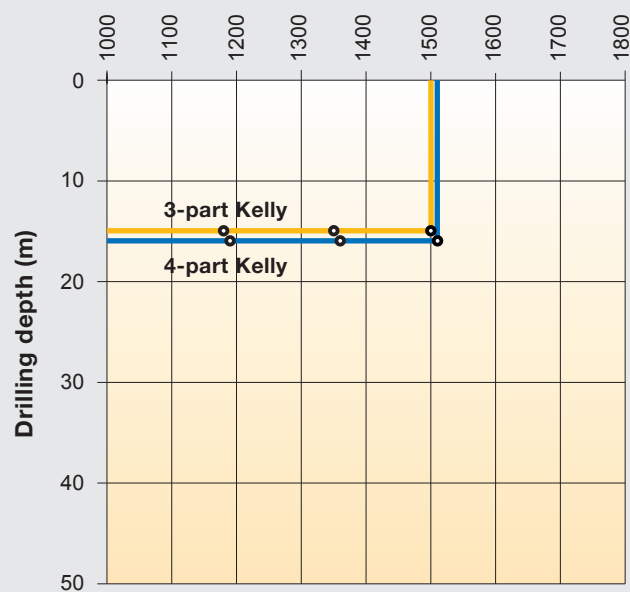
## Low Headroom with Special Mast Head



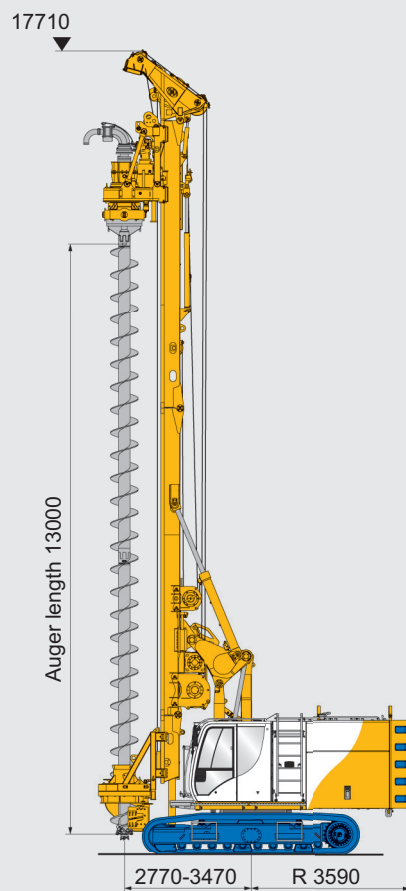
## Drilling diameter (mm)



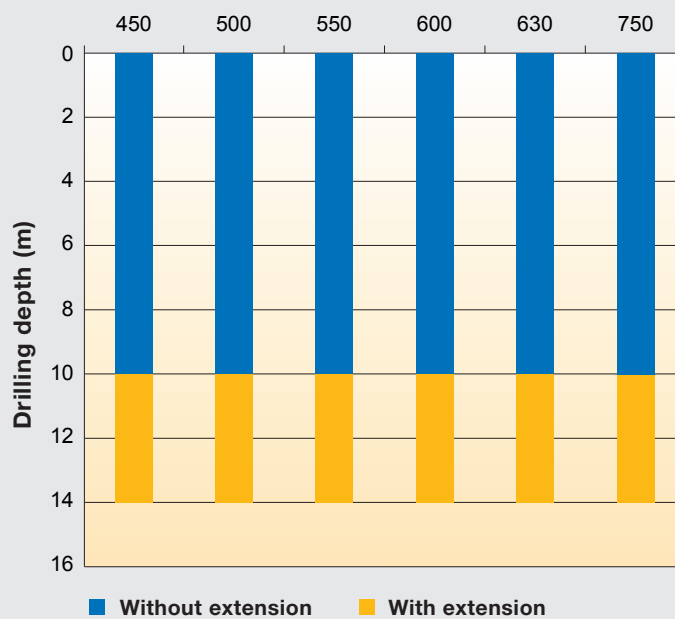
## Drilling diameter (mm)



Upgrade 2 with CFA Equipment



Drilling diameter (mm)

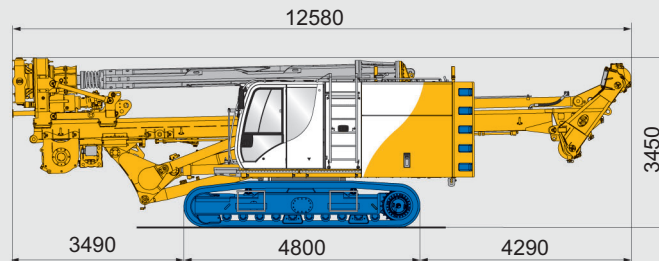


**G** = Weight  
**B** = Width

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

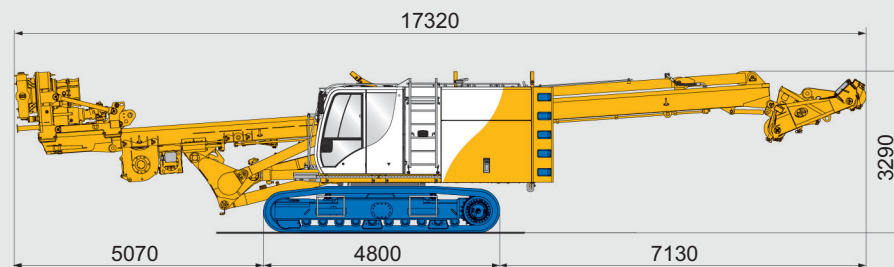
### Standard with upper Kelly guide

**G = 43.0 t (+ Weight of Kelly bar)**  
**B = 2,500 mm**



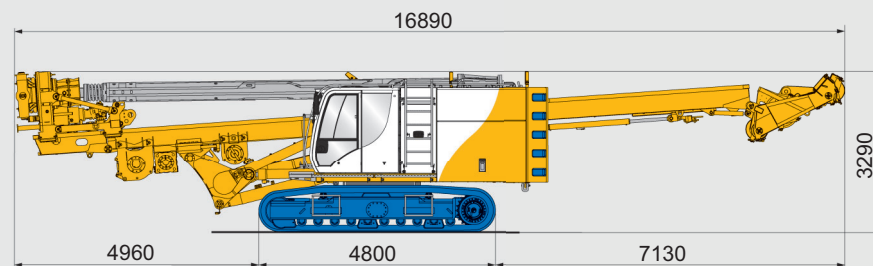
### Upgrade 1

**G = 45.5 t (optionally + Weight of Kelly bar)**  
**B = 2,500 mm**

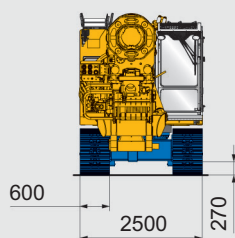


### Upgrade 2

**G = 45.0 t (+ Weight of Kelly bar)**  
**B = 2,500 mm**

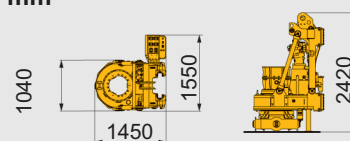


### Base carrier with UW 50



### Rotary drive

**G = 3.5 t**  
**B = 1,550 mm**





Global Network



Service



Equipment



Training

## International Service Hotline

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**+49 8252 97-2888**

**BMA-Service@bauer.de**

**24/7**



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**bma@bauer.de**  
**www.bauer.de**

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