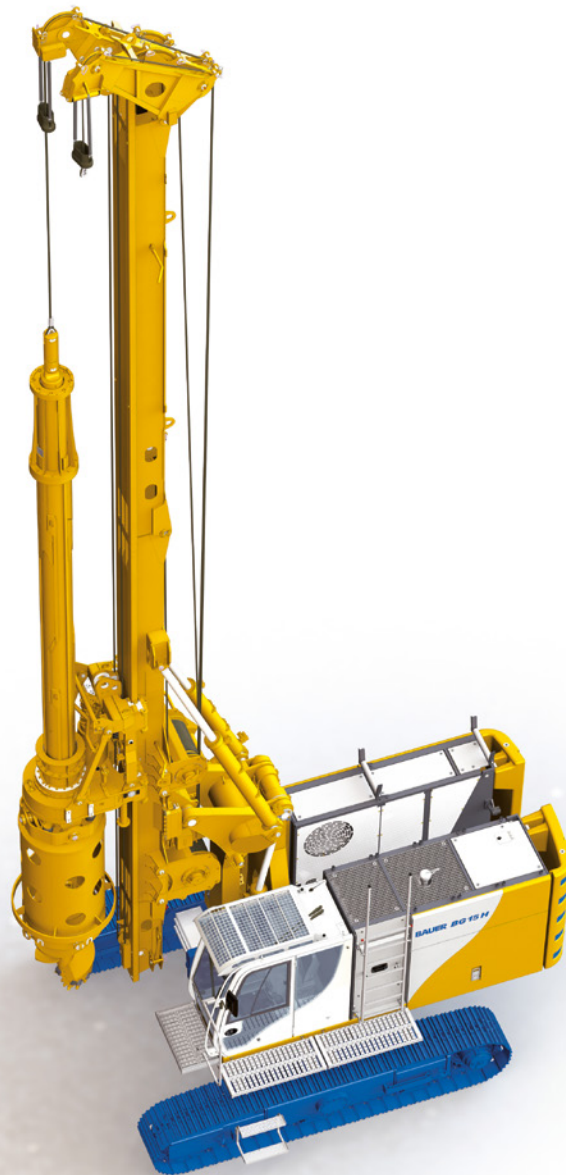


BAUER BG 15 H

Rotary Drilling Rig

Base Carrier BT 50



The BG ValueLine

*Perfection is achieved
when there is nothing left to take away.*

Drilling uncased deep boreholes stabilized by drilling fluid, or drilling cased boreholes with installing casings by the rotary drive or by a hydraulic casing oscillator. If Kelly drilling is your task, then the BG ValueLine is our solution. The machines of the ValueLine are specifically adapted to no other purpose than Kelly drilling – and that perfectly.

You can expect superior Bauer performance and customary Bauer durability at affordable costs for acquisition and operation. How we do it? By applying cutting-edge technology, reduced to nothing less than the essentials.



BG 15 H
BT 50

BG 20 H
BT 50

BG 26
BT 70

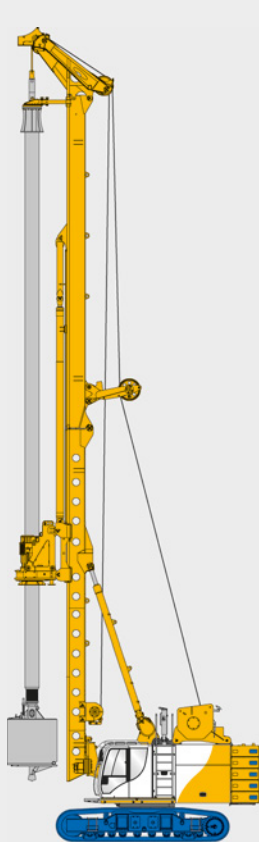
BG 28
BT 70

- The whole system is optimized for economic Kelly drilling
- Increased efficiency leads to higher productivity and lower fuel consumption at the same time
- The integrated service platform for easy and safe maintenance is a key factor with regard to safety and service
- With the streamline concept, our modern and ergonomic operator cab is tailored to the rig operators
- Our assistance systems support the efficient and comfortable work - every day
- The easy, safe and fast assembling process enables lower unproductive times of the machine

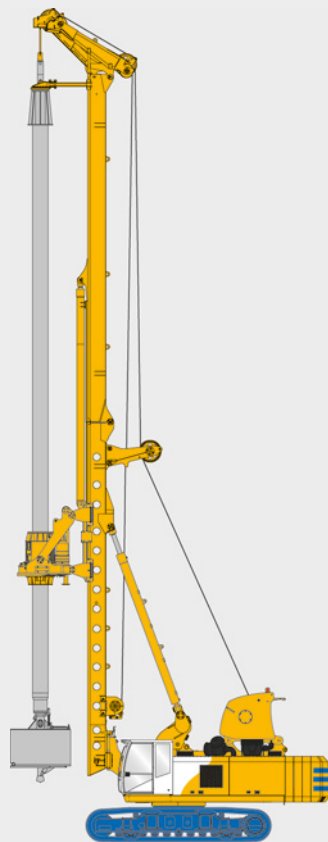
The Rotary Drilling Rig BG 15 H BT 50

Maximum rig configuration

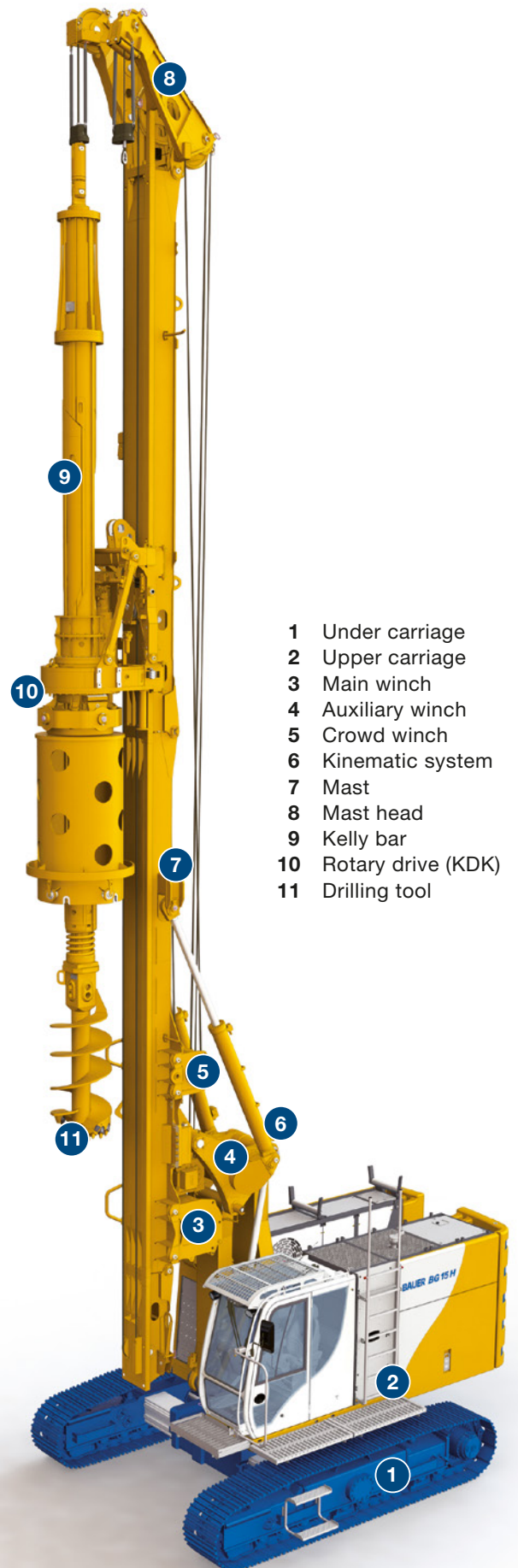
Drilling diameter: 1,500 mm | **59.05 in**
 Drilling depth: 44.0 m | **144.36 ft**
 Torque: 150 kNm | **110,634 lbf ft**
 Engine: CAT C7.1: 186 kW | **250 HP**
 Height: 18.2 m | **59.7 ft**



BG 30
BT 80



BG 38
BS 80



- 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



Efficiency

- CAT-engine
- 6 m | **19.7 ft** casing string
- High-performance hydraulic system
- Single-layer winch operation
- B-Tronic M



Mobility

- Transportation width 2.5 m | **8.2 ft**
- Transportation height 3.3 m | **10.8 ft**
- Transportation length 13 m | **42.65 ft**
- Transportation weight 45 t | **99,208 lb**
- Fast mobilisation
- Remote control basic



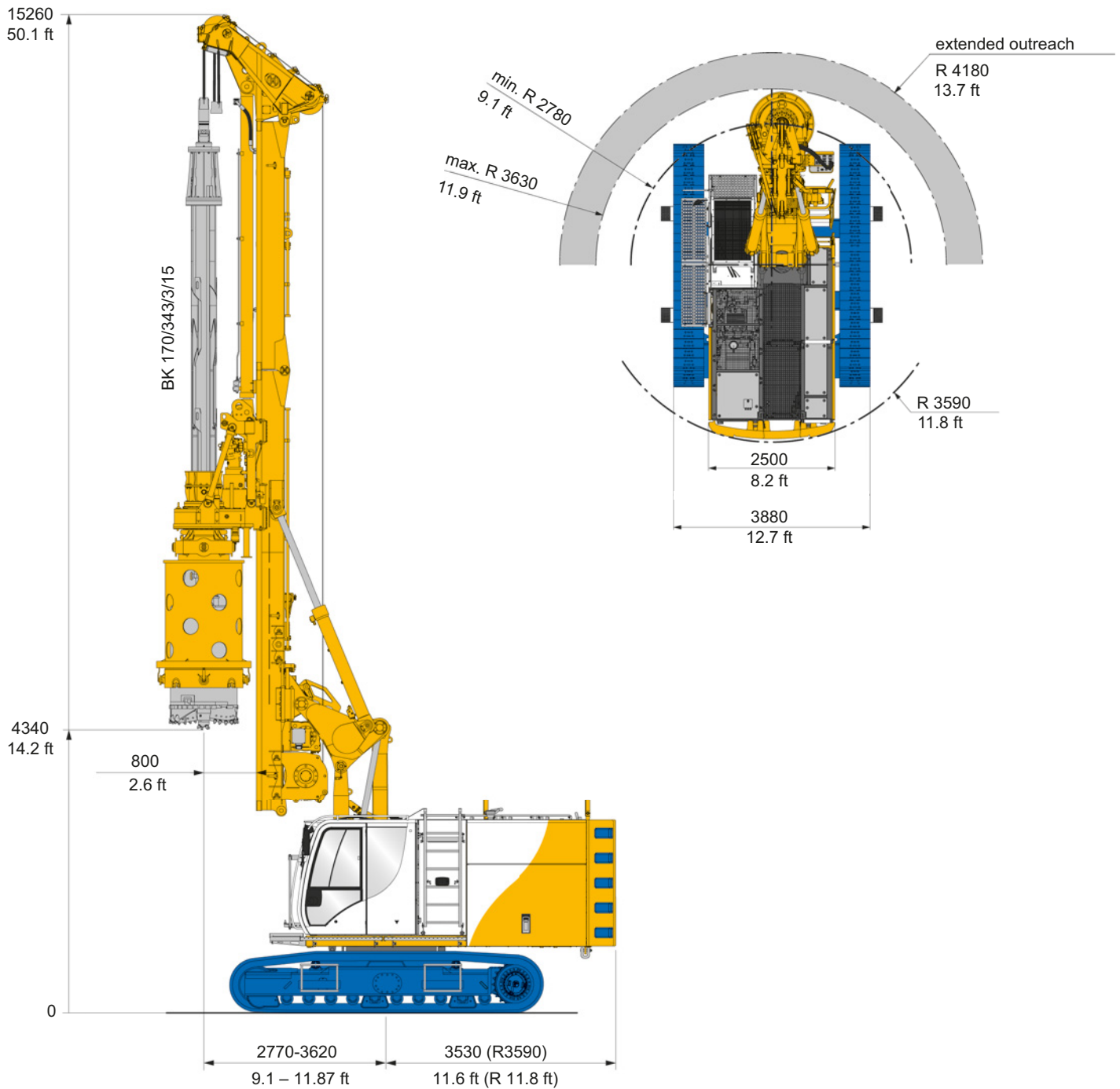
Flexibility

- Drilling power data
- CFA option
- Giant Drill
- Variety of configurations
- Low Head



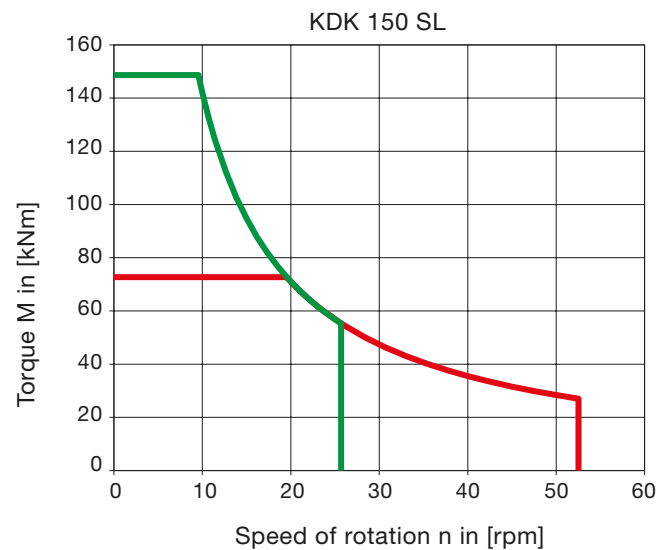
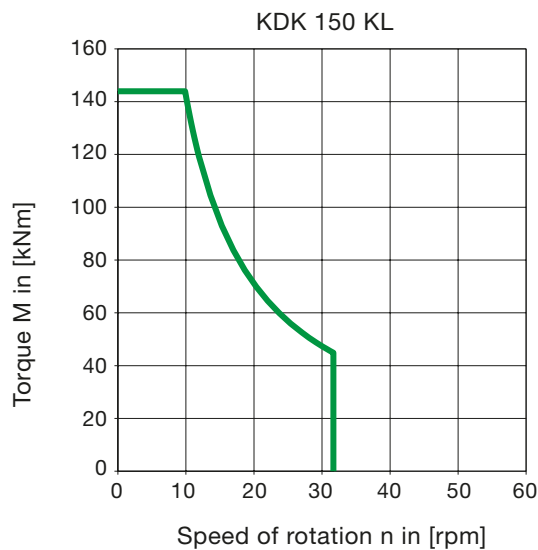
Comfort

- 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 | 99,210 lb
(as shown)

Rotary drive	KDK 150 KL	KDK 150 SL
Torque (nominal)	145 kNm <i>106,950 lbf ft</i>	150 kNm <i>110,634 lbf ft</i>
Speed of rotation (max.)	32 rpm	52 rpm



Crowd	Cylinder	Winch
Crowd force push/pull (effective / nominal)	250 / 275 kN <i>56,200 lbf / 61,820 lbf</i>	200 / 256 kN <i>44,961 / 57,551 lbf</i>
Speed (down / up)	5 / 5 m/min <i>16.5 / 16.5 ft/min</i>	10 / 6 m/min <i>33 / 19.7 ft/min</i>
Fast speed (down / up)	15 / 20 m/min <i>49.2 / 65.6 ft/min</i>	35 / 30 m/min <i>114.8 / 98.4 ft/min</i>
Main winch		
Winch classification	M6 / L3 / T5	
Line pull (1st layer) effective / nominal	136 / 175 kN <i>30,575 / 39,340 lbf</i>	
Rope diameter	22 mm <i>0.87 in</i>	
Line speed (max.)	80 m/min <i>260 ft/min</i>	
Auxiliary winch		
Winch classification	M5 / L2 / T5	
Line pull (1st layer) effective / nominal	43 / 54 kN <i>9,670 / 12,140 lbf</i>	
Rope diameter	16 mm <i>0.63 in</i>	
Line speed (max.)	28 m/min <i>92 ft/min</i>	
Base carrier		
Engine	CAT C 7.1	CAT C 7.1
Rated output ISO 3046-1	186 kW <i>250 HP</i>	186 kW <i>250 HP</i>
	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 <i>145 Gal / 8.5 Gal</i>	
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 <i>35 MPa</i>	
Undercarriage		
Crawler type	B 60	
Traction force effective / nominal	340 / 400 kN <i>76,450 / 90,000 lbf</i>	

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

Base Carrier

Standard

- Removable counterweight 5.0 t | *11,023 lb*
- 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 | *220 gal/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 | 13.5 in
- 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



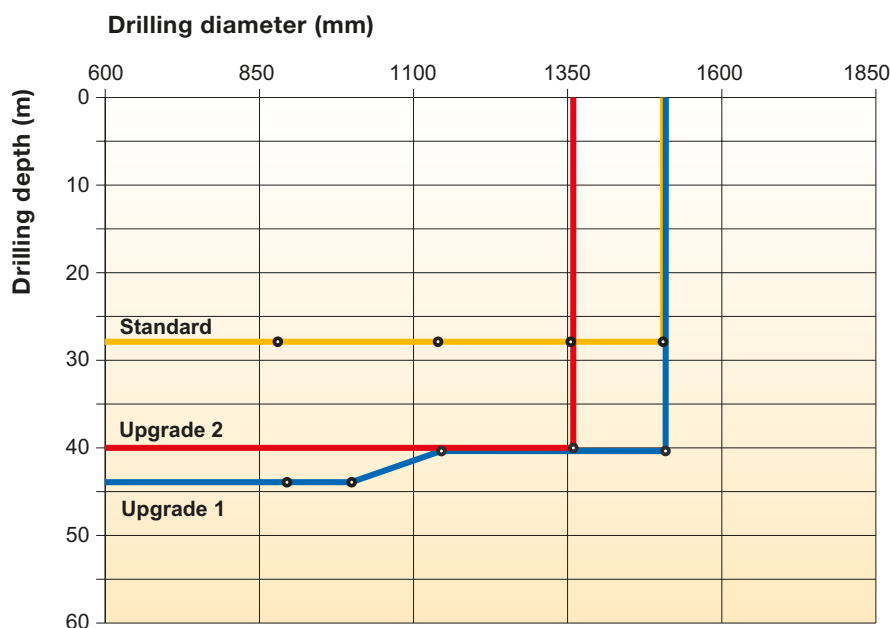
B-Tronic M

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

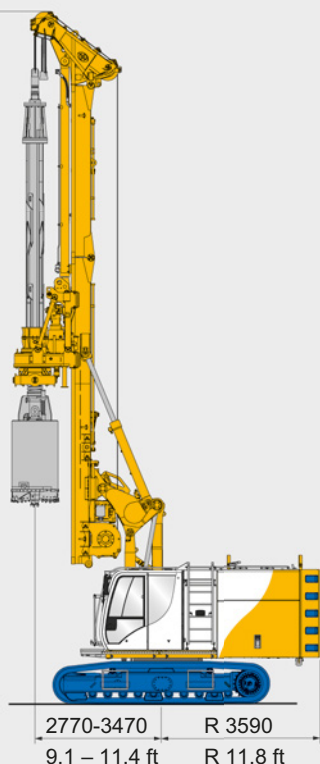


Rig Configurations

	Standard	Upgrade 1	Upgrade 2
Drilling axis	800 mm 31.5 in	800 mm 31.5 in	800 mm 31.5 in
Crowd system	Cylinder	Cylinder	Winch
Counterweight	5 t 11,025 lb	5 t 11,025 lb	5 t 11,025 lb
Lower mast extension	No	Yes	Long
Giant drill	Yes	No	No
Kelly – casing combination	3/15 with 4 m (13.1 ft) casing string	3/21 with 4 m (13.1 ft) casing string	3/15 with 6 m (19.7 ft) casing string

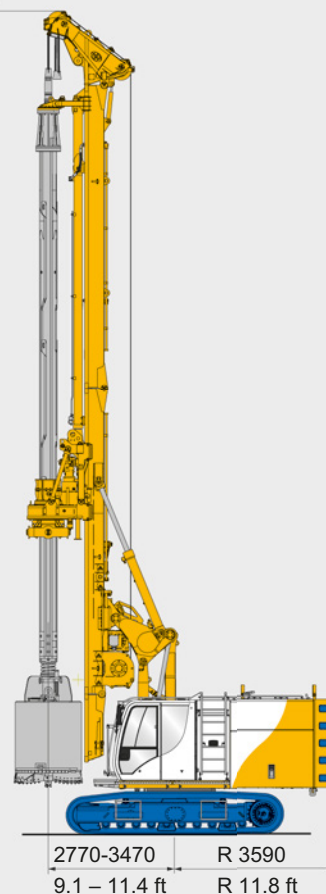
Standard

15260 | 50.1 ft

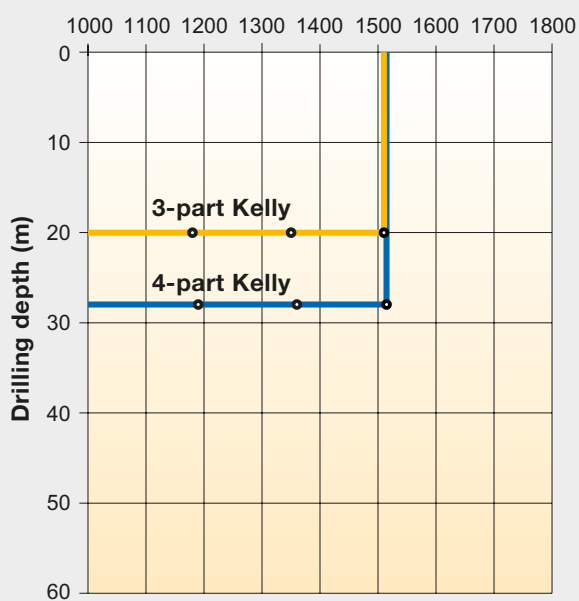


Upgrade 1

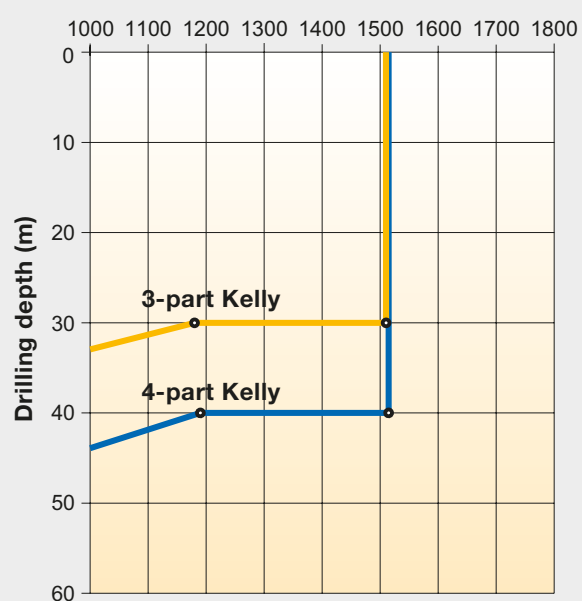
18120 | 59.4 ft



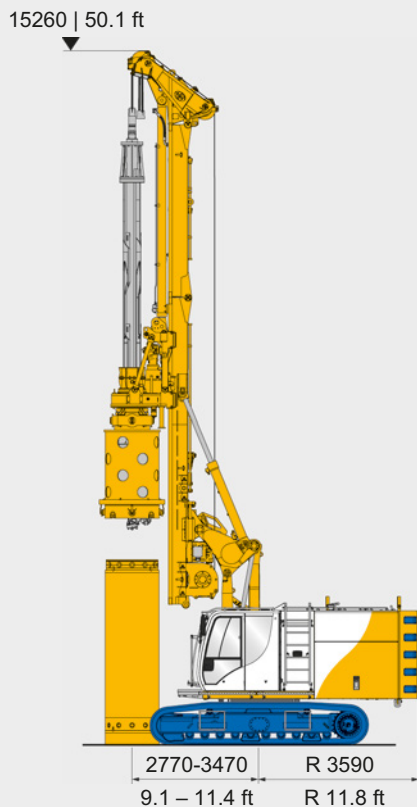
Drilling diameter (mm)



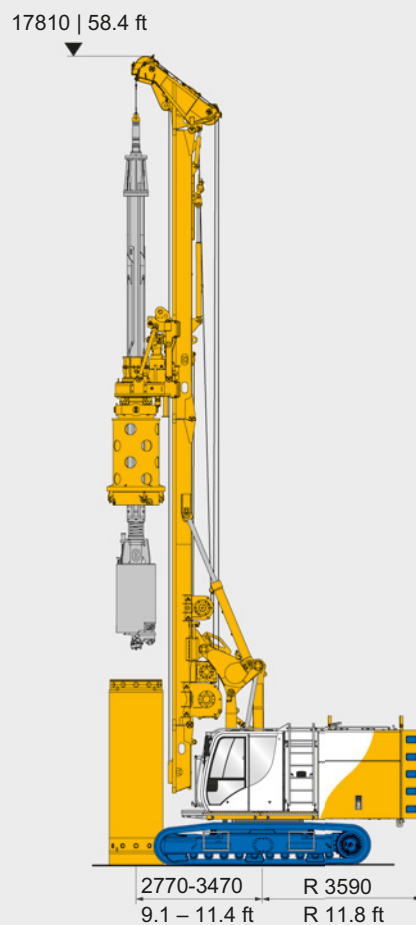
Drilling diameter (mm)



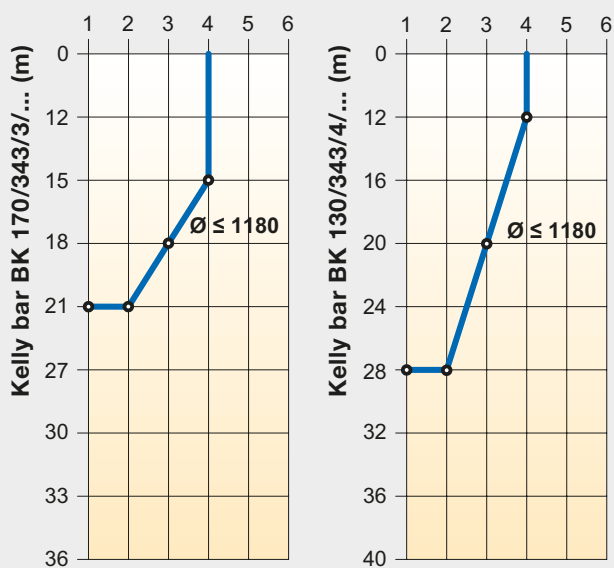
Standard



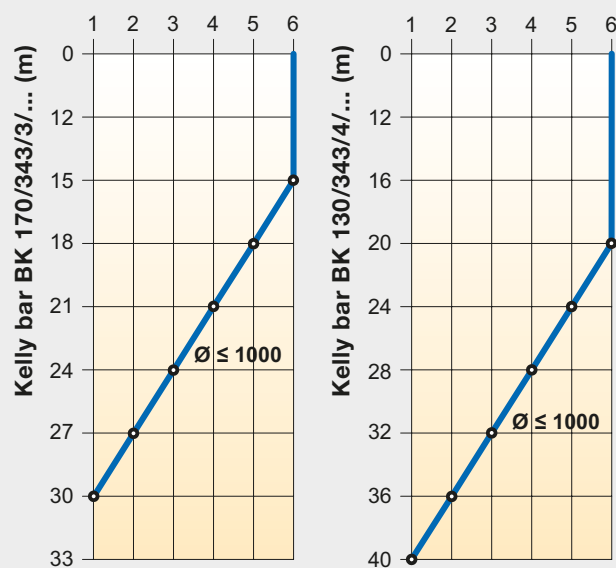
Upgrade 2



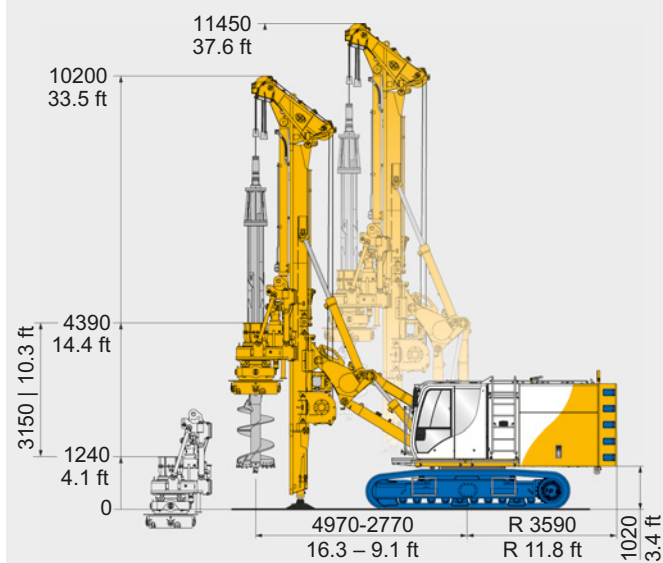
Length of casing (m)



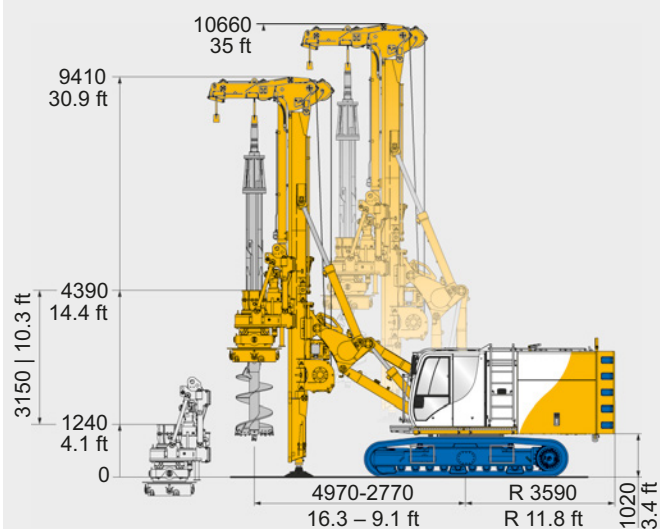
Length of casing (m)



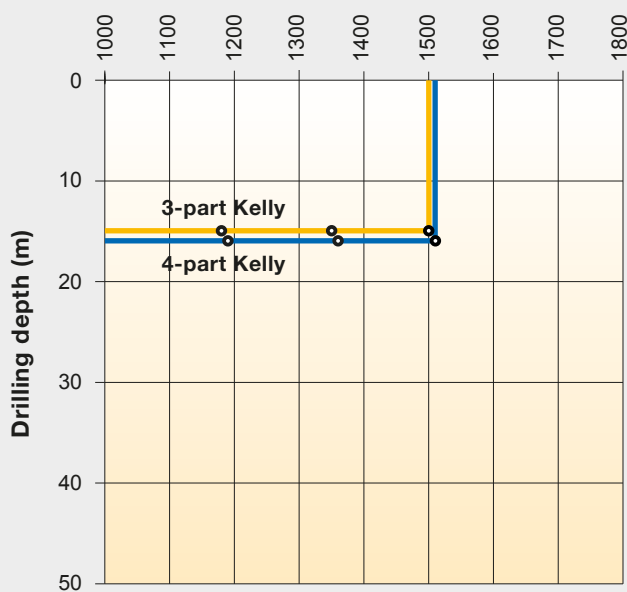
Low Headroom with Standard Mast Head



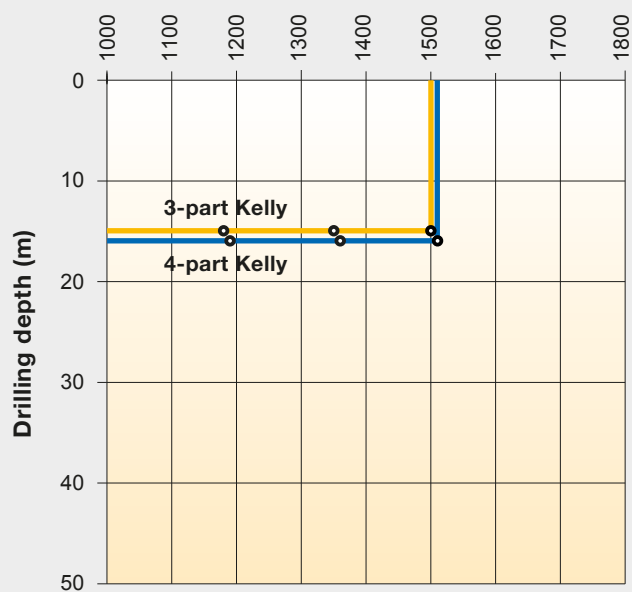
Low Headroom with Special Mast Head



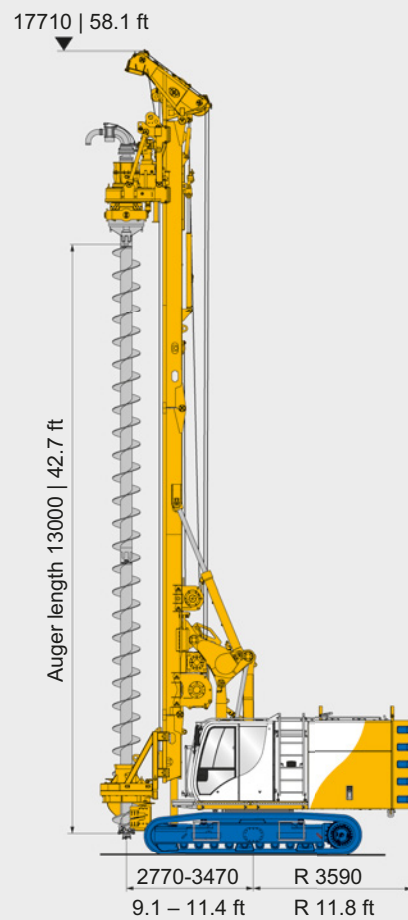
Drilling diameter (mm)



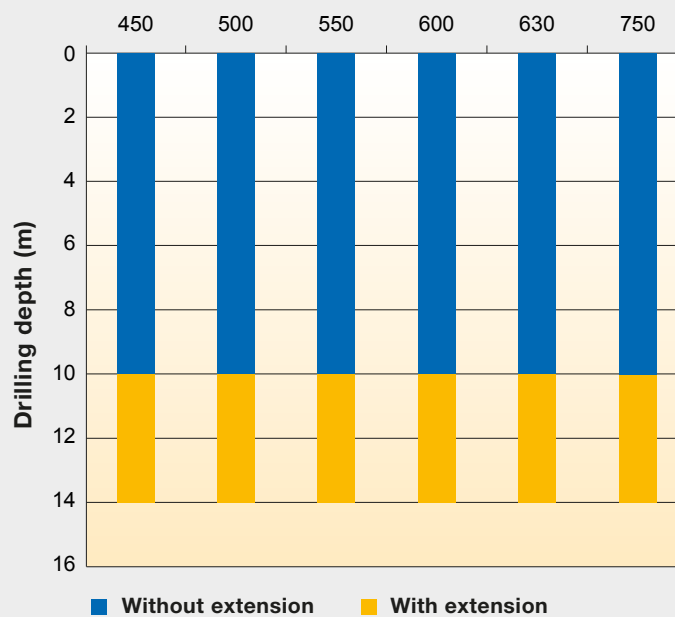
Drilling diameter (mm)



Upgrade 2 with CFA Equipment



Drilling diameter (mm)

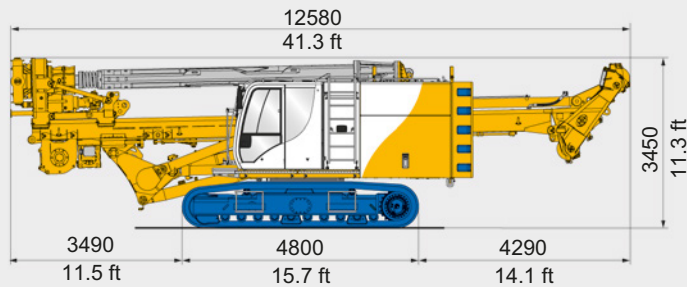


G = Weight
B = Width

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

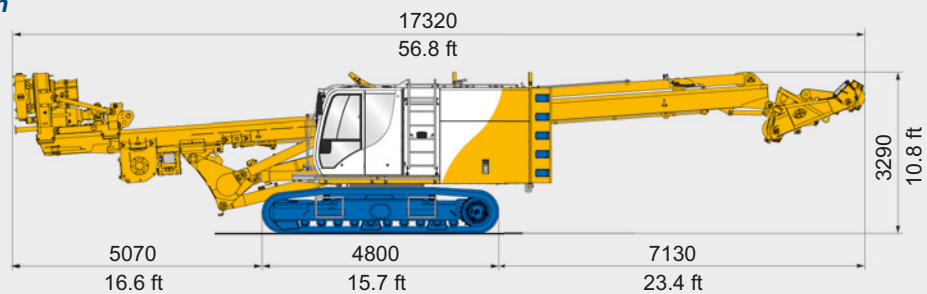
Standard with upper Kelly guide

G = 43.0 t | **94,800 lb** (+ Weight of Kelly bar)
B = 2,500 mm | **98.4 in**



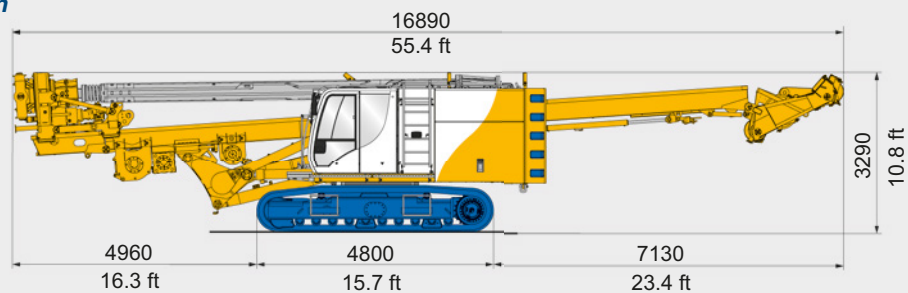
Upgrade 1

G = 45.5 t | **100,310 lb** (optionally + Weight of Kelly bar)
B = 2,500 mm | **98.4 in**

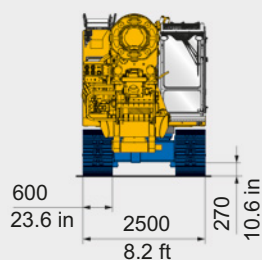


Upgrade 2

G = 45.0 t | **99,210 lb** (+ Weight of Kelly bar)
B = 2,500 mm | **98.4 in**

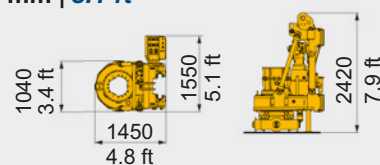


Base carrier with UW 50



Rotary drive

G = 3.5 t | **7,716 lb**
B = 1,550 mm | **5.1 ft**





BAUER Service



Global Network



Service



Equipment



Training

International Service Hotline

+800 1000 1200* (freecall)

+49 8252 97-2888

BMA-Service@bauer.de

24/7



BAUER Maschinen GmbH
BAUER-Strasse 1
86529 Schrobenhausen
Germany
Tel.: +49 8252 97-0
bma@bauer.de
www.bauer.de

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