



Bauer BG36H

Kelly drilling rig no. 47178



Structures

Secant pile walls

The drilling rig is well suited for execution of deep construction pits by means of secant pile walls (see separate data sheet), especially in urban areas, as noise and vibrations are reduced to a minimum. In addition, it is possible to drill through hard layers, such as limestone and flint, in which it is not possible to drive or vibrate sheet piles for construction pits.

Foundation piles

The drilling rig makes it possible to install drilled foundation piles in almost all soil types in depths of up to 33 metres and of a diameter of up to 2 metres.

Predrilling

In some types of soil, it is necessary to carry out predrilling in the upper layers in order to install driven sheet piles or tubular steel piles. Predrilling can be carried out with this drilling rig, possibly combined with a drilling fluid.

Aarsleff's Piling division is one of Europe's leading piling contractors, and we undertake a wide variety of piling, drilling and foundation projects in Denmark and abroad. We have offices in Poland, Sweden, Germany and the UK.

Our extensive fleet ranges from mini piling rigs to large specialised machines and covers fully hydraulic piling and drilling rigs as well as cranes and vibrators.

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The Bauer BG36H drilling rig can drill piles of a diameter of 0.88 to 2.3 metres.

The mast is H-mounted which makes it very flexible and stable at the same time. The rig has a length of only 24.5 m and a width of 3.4 m which makes it easy to transport and which ensures a quick set-up.

The rig is built for drilling with a kelly system, but it can be rebuilt for other systems.

Kelly drilling

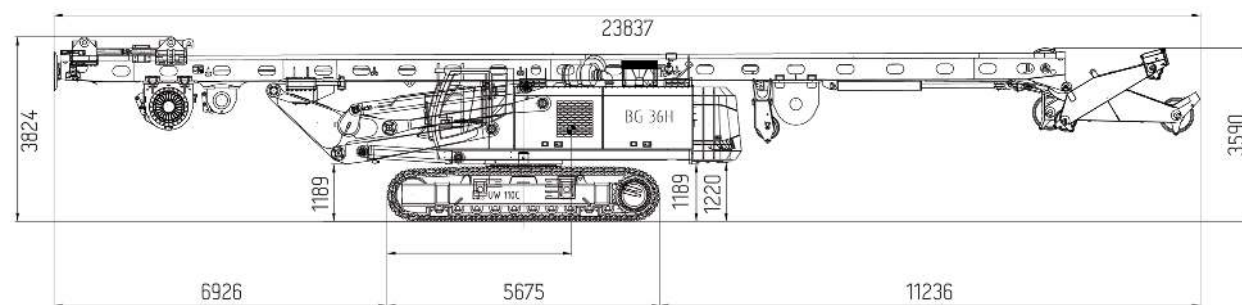
The principle of kelly drilling is that a casing pipe is drilled down to the requested toe level while the soil is drilled up by means of different drilling tools. The tools used are typically a 2-metre-long auger or a drilling bucket which is rotated down into the soil by means of a kelly bar. The tools have replaceable chisels and teeth for drilling in very hard soil conditions, such as limestone (up to H5), flint and concrete. This drilling method is the preferred choice for the rather problematic

Copenhagen limestone. When using a DTH hammer with a kelly bar or a Full Face Cutter, drilling through hard granite is possible.

If drilling is carried out below the groundwater level, the piles are cast by means of a tremie pipe. In this way, the water is displaced and flows out at the top of the pile, and the water is not mixed with the concrete.

The casing pipe is pulled up after placing of the reinforcement and in pace with the casting to ensure a sufficient covering layer of concrete. This method ensures very straight and precise drillings without major deviation and deformation.

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Specifications

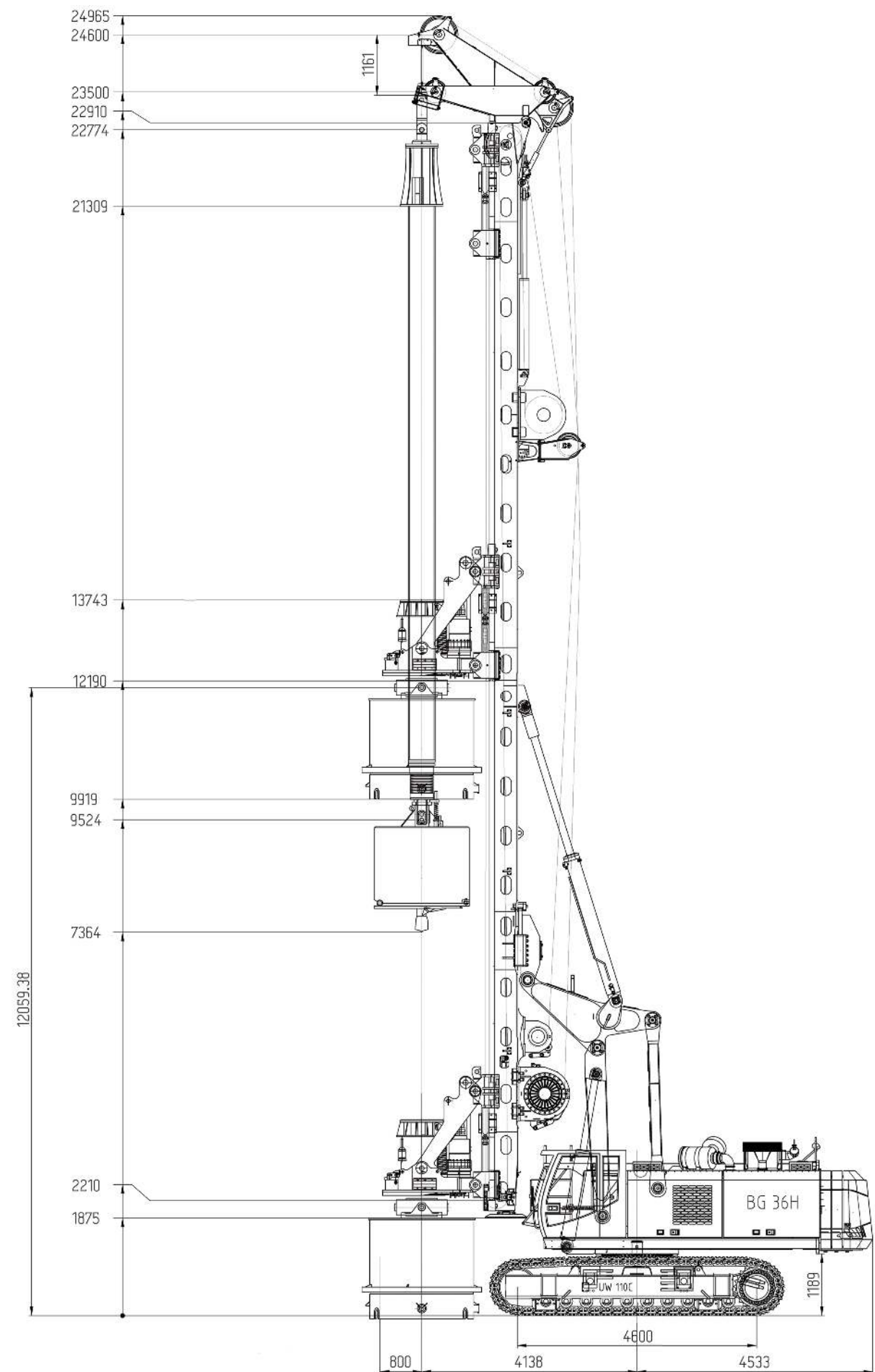
Model	Bauer BG 36 H
Mast	Fixed, please see drawings for length etc.
Mast inclination forward	5°
Mast inclination backward	15°
Mast inclination lateral	5°
Max. drilling depth	31/64.7 m (standard/max)
Max. drilling diameter	DN2300 mm
Engine	CAT C15, 354 kW. Step 3, cf. CE standard
Rotary head	KDK 367 S, 367 kNm (hydraulic)
Rotary head winch	40 tons
Kelly winch/auxiliary winch	25 tons/10 tons
Transport weight with ballast	93 tons
Transport weight without ballast	73 tons
Weight in working condition	112 tons
Surface pressure (with max operating weight)	1.6 kg/cm²

Standard equipment

Casing, tools and drilling equipment according to the work (880 mm-2000 mm)
 20" equipment container
 15 tons wheel loader
 Pile gripper for offshore work

Auxiliary equipment

Oscillator
 Torque amplifier.



All measurements are in mm