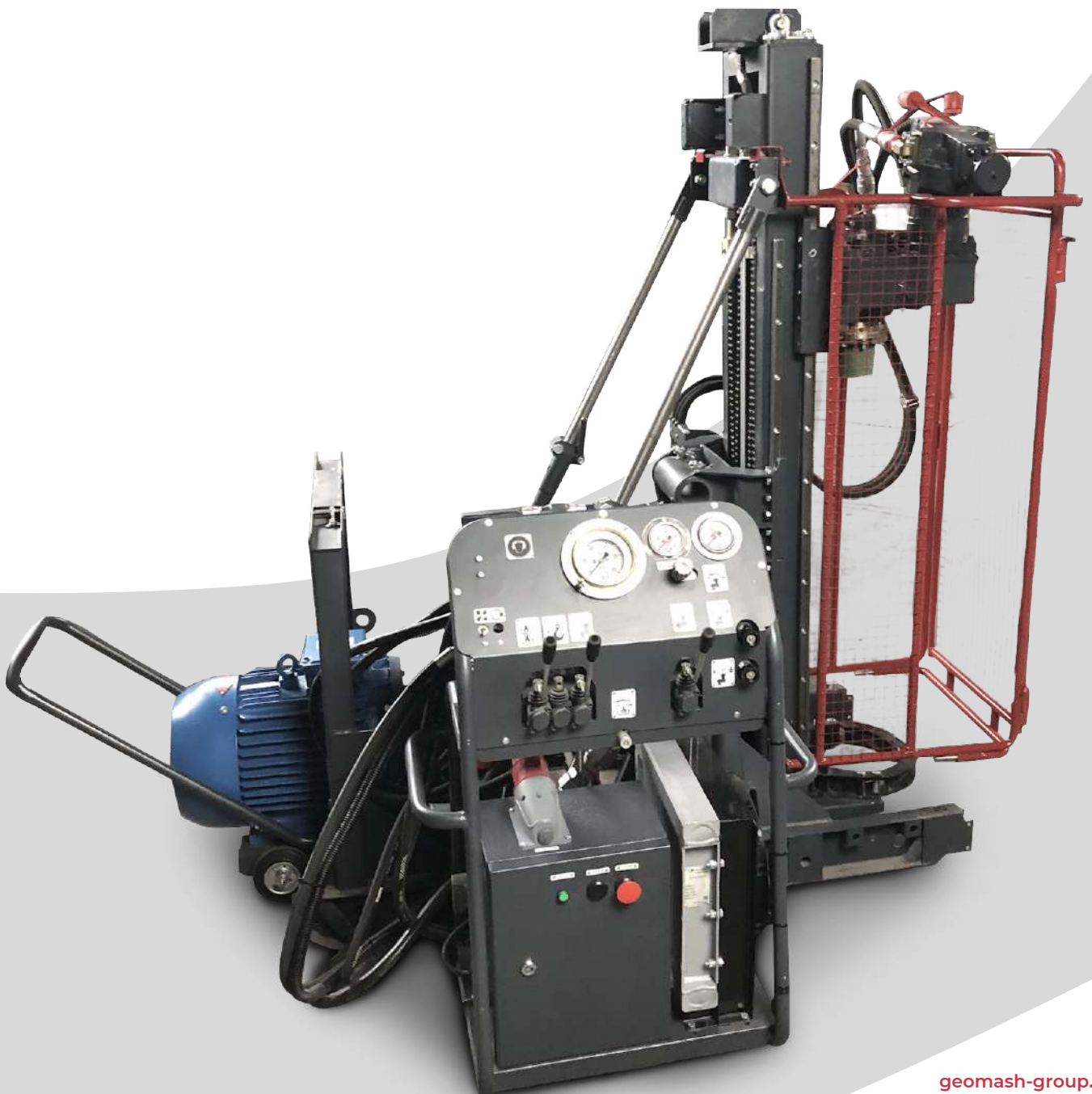




## BLOCKED DRILLING RIG BBU-000 "OPENOK"

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## BLOCKED DRILLING RIG BBU-000 “OPENOK” ●

With hydraulic drive of the mobile rotary head

### Technical characteristics

#### Feed mechanism: chained hydrocylinder

Feed stroke, mm	1 400
Drilling angles*	0-45, 90*
Feed force down, N (kgF)	15 000 (1 500)
Feed force up, N (kgF)	15 000 (1 500)
Max. length the drill rods, mm	1 000/ 750*
Max length of the casing pipe, mm	2 000
Max. diameter of the casing pipes, mm	168

#### Hydraulic mobile rotary head

Torque, N*m (kgF*m)	1 500 (150)
Rotation frequency, rpm	0 - 700
Speed of feed, mps	0,4

#### Mast with the winch

Winch load capacity, kgs	400
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#### Dimensions

Working position (LxWxH)	1800 – 2590***/1550/2000
Height with winch/with mast and winch, mm	2635/4175
Max. mass of the bloke, kgs	120
Drilling rig mass (excluding mast and winch), kgs	625-695

#### BBU-000 “OPENOK” two possible models:

- Blocked option (BBU-000 line 10)
- Sealed-unit option (BUU-000 line 20)

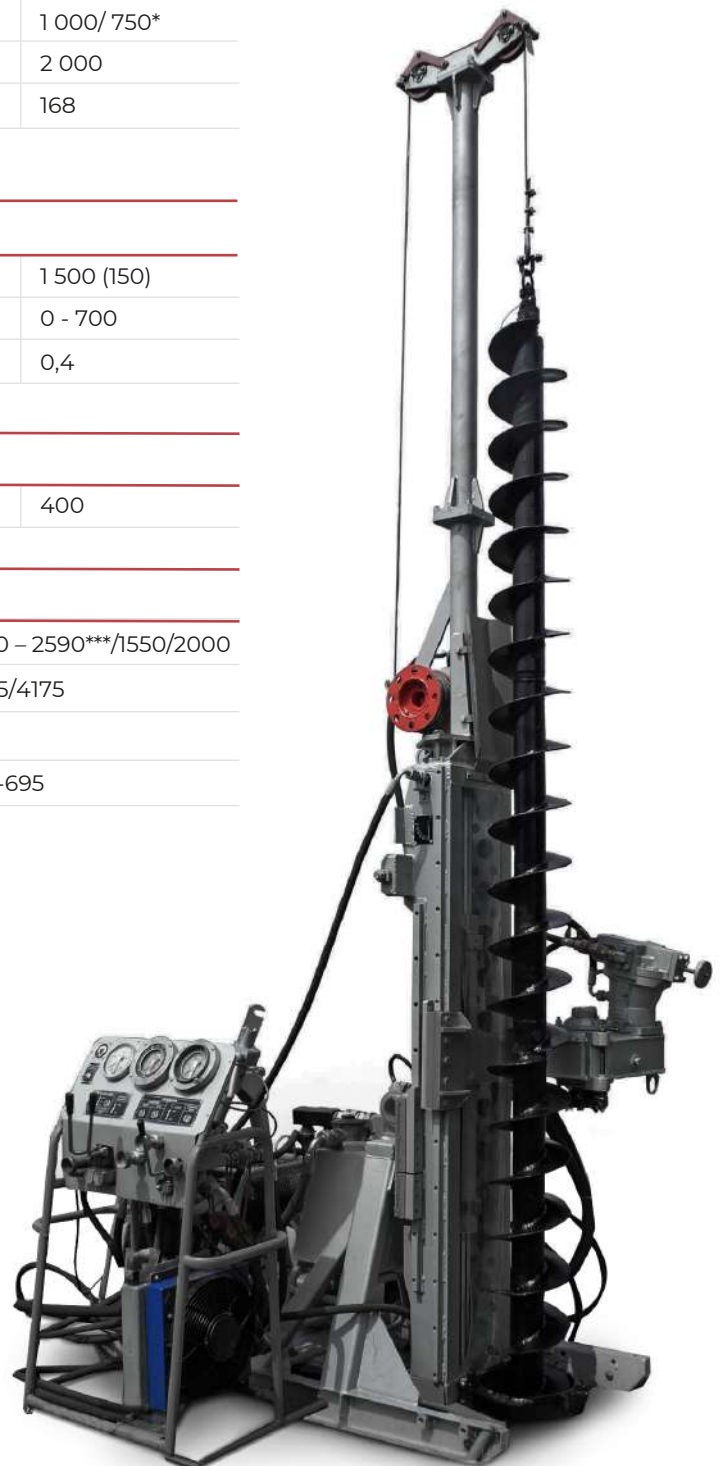
\*apart from BBU-000 line 20

\*\*length of the drill rod at DTH drilling

\*\*\*depending on the engine used

#### Application:

- Geotechnical investigation;
- Water drilling;
- Exploration;
- Technical well at construction



## BLOCKED DRILLING RIG BBU-000 “OPENOK” ●

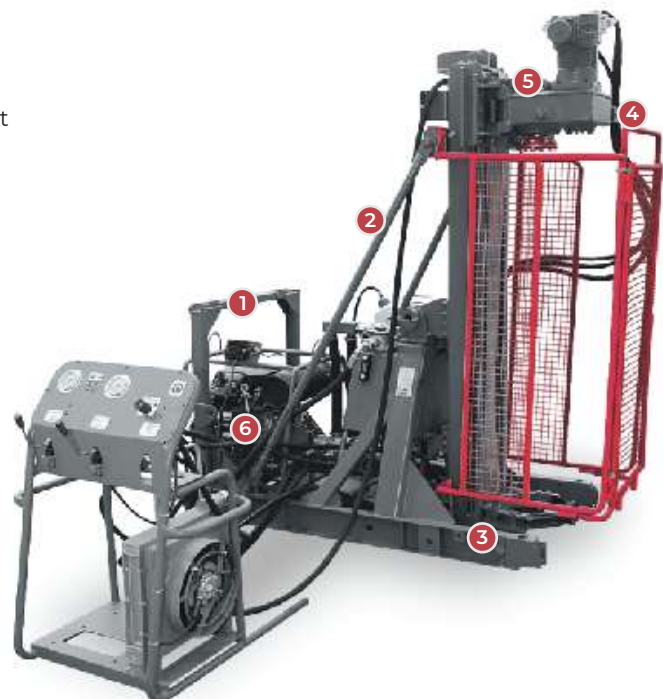
With hydraulic drive of the mobile rotary head

### Drilling technologies applied

Drilling technologies	Conditional drilling depth, m
Rotary drilling with washing/airflush	50
Core drilling dry/with washing/with airflush	30/100/50
DTH drilling	50
Auger drilling	25

### The drilling rig has following advantages

- 1. Convenient delivery of the drilling rig to work site.** The blocked and sealed options. BBU-000 could be transported by hands (max. weight of the sealed block is no more than 120 kgs) or could be mounted on the LCV with load capacity up 1 000 kgs.
- 2. Compact solution.** Small dimensions and weight. Possibility to work in constrained conditions with sealing height of 2 meters.
- 3. Damping.** To drill angled and horizontal wells for additional support (apart from sealed-unit model)
- 4. Variable speed drive motor powers the rotary head and pass-through spindle.** Provides high frequency rotation for diamond drilling and auger drilling without the need of the mechanical switching of the range of speeds.
- 5. Rotary head carriage.** Provides the side-movement of the rotary head for works with the winch.
- 6. Power drive wide variety.** Provides the user to choose the exact power drive for the work project. Options are Electrical drive (15 kW), Petrol (15 kW, 22 kW), Diesel (17 kW)



## BLOCKED DRILLING RIG BBU-000 “OPENOK” ●

With hydraulic drive of the mobile rotary head

### Base configuration

- Base
- Mast with feed mechanism
- Rotary head
- Engine with oil-pump (electrical, petrol, diesel)
- Oil container
- Control panel with heat-exchanger
- Battery and petrol tank (for petrol and diesel engines only)

### Additional equipment



**Mast with hydraulic winch** for additional operations with drill rods and casing pipes. Load capacity 400 kgs.



**Lowering trolley.** For moving the drilling around a working site.



**Hydrohammer** is intended for lowering sampling rods with diameter 121 mm to collect undisturbed samples at geotechnical investigations.

### Applied mud pumps and compressors

Compressor parameters	Movable compressor KV-5/10P
Max. Flow rate, m <sup>3</sup> /min	5
Max. Pressure, MPa	1
Power, kW	35,4
Drive	Diesel
Mass, kgs	810

Mud pump parameters	NB1-25/16
Feed, lpm	25
Max. pressure, MPa	1,6
Power, kW	3
Drive	ICE petrol
Mass, kg	45



## **BLOCKED DRILLING RIG BBU-000 "OPENOK" ●**

With hydraulic drive of the mobile rotary head

### Cases

