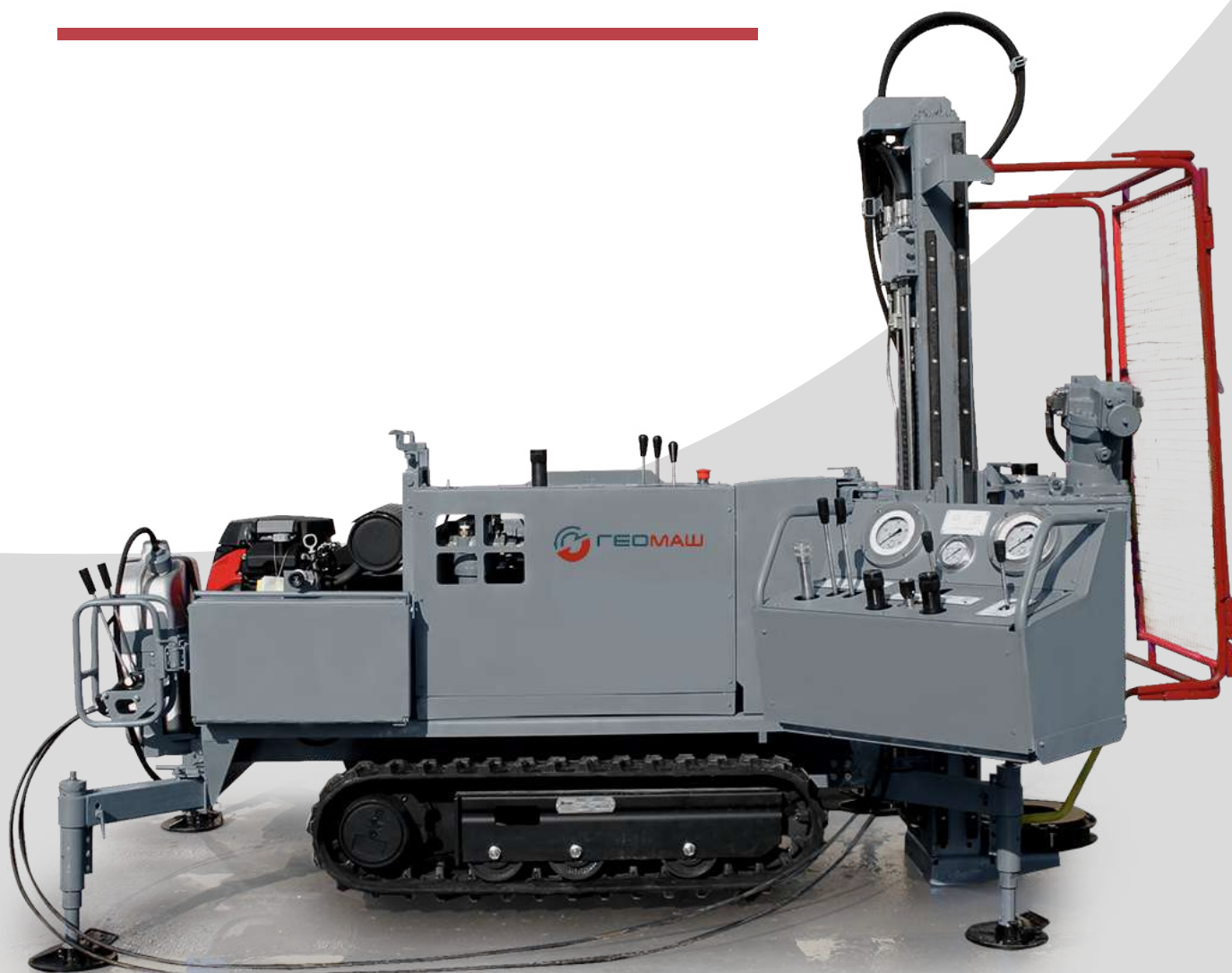




SMALL-SIZED SELF-PROPELLED DRILLING RIG BBU-001 "OPENOK-S"



SMALL-SIZED SELF-PROPELLED DRILLING RIG BBU-001 ●

With hydraulic drive of the mobile rotary head

Technical characteristics

Feed mechanism: chained hydrocylinder

Feed stroke, mm	1 400
Drilling angles	0-90
Feed force down, N (kgF)	15 000 (1 500)
Feed force up, N (kgF)	15 000 (1 500)
Max. length the drill rods applied, 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	0,1/0,4

Mast with the winch

Winch load capacity, kgs	400
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Dimensions

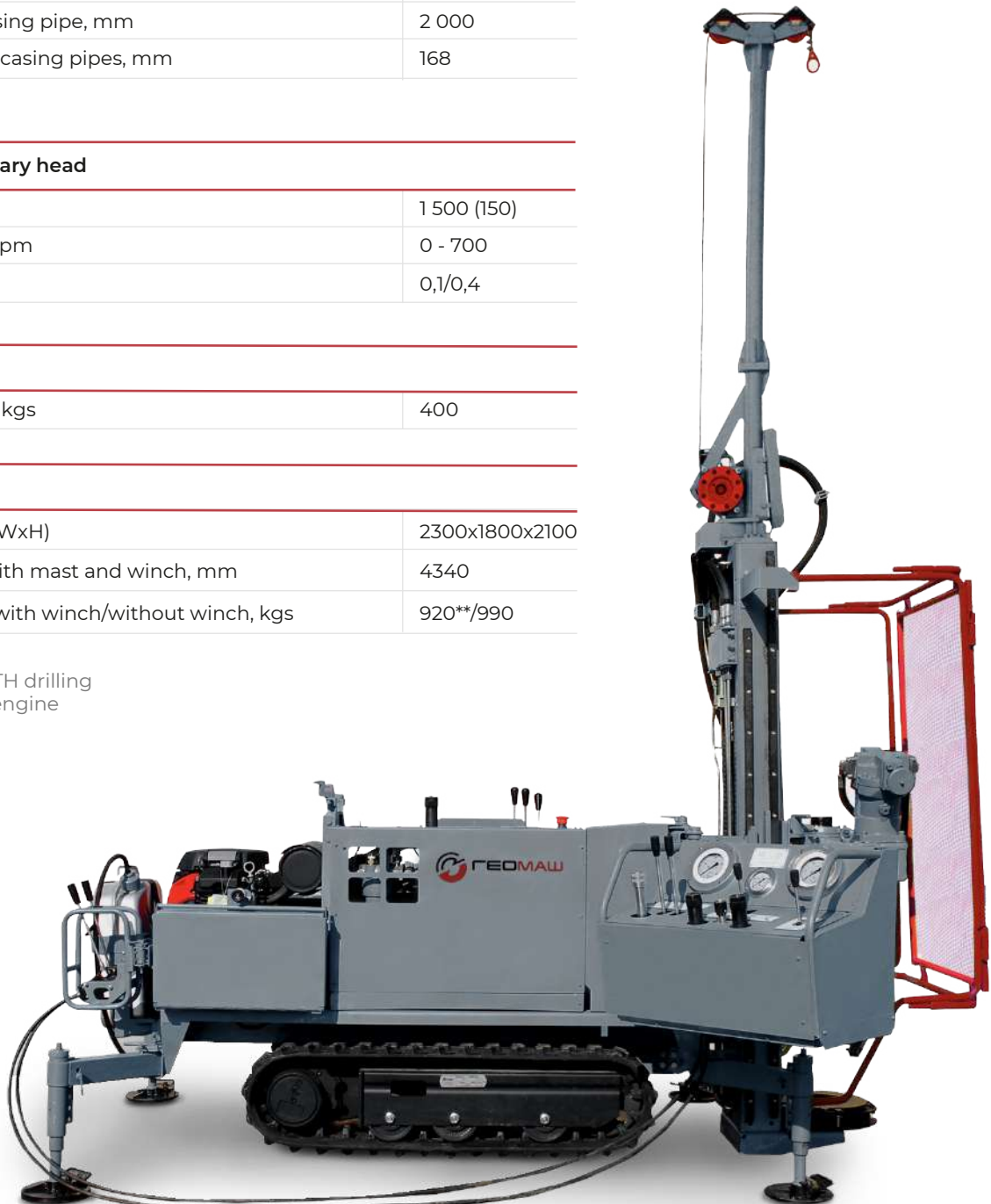
Working position (LxWxH)	2300x1800x2100
Height with winch/with mast and winch, mm	4340
Max. mass of the rig with winch/without winch, kgs	920**/990

*drill rod length at DTH drilling

**depending on the engine

Application:

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



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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. High mobility.** The small size of the drill rig allows for convenient transportation by auto trailer, car body or vehicle carrier
- 2. Under-carriage.** Cushion tracks with remote controls allows to move the rig around the working site without damaging the landscape.
- 3. Efficiency.** Time-proved petrol engine “Honda” provides is highly cost-efficient, saves on fuels and wearing parts.
- 4. Chain feed.** In comparison with reeving system or rope feed, does not stretch and provides much higher durability
- 5. Ergonomic control panel.** To make sure the drill master had enough time to construct the perfect borehole the controls are placed conveniently and are all named.



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Base configuration

- Frame
- Rubber under-carriage
- Turning-support
- Mast
- Rotary head
- Power drive
- Energy block
- Oil-cooler
- Control panel
- Mast set-up hydrocylinder

Additional equipment



Casing centralizer. For drill rods, casing pipes centration at drilling.



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

Elevator-bail with swivel. For efficient DTH drilling.

Applied mud pumps and compressors

Compressor parameters	Movable compressor KV-5/10P
Max. Flow rate, m ³ /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

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Cases

