



DRILLING RIG UGB SERIES 587



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with hydraulic drive of the rotary head

Feed: hydraulic cylinder with reeving system

Feed stroke, mm	5 200 / 7 000
Angle of drilling, degrees*	50-90
Feed force down, daN (lbf)	5 000 (11 023)
Feed force up, daN (lbf)	10 000 (22 046)
Sideways movement of the rotary head, mm	390
Length of drill rods, mm*	4 700 / 6 000
Length of casing pipes, mm	6 000 / 8 000
Diameter of casing pipes, mm	526

Rotary head

Torque, Nm (kgFm)	6 000 (600) / 7 000 (700)
Rotation frequency, rpm	1 200 / 10 - 350
Up/down speed of the rotary head, m/s	1,6

Winch non free-fall / free-fall

Weight capacity of the winch, kgs	2 000 / 3 000
Speed, m/s	1,2

Hydraulic jacks

Quantity	2 / 4*
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* by the wish of the customer

Applications:

- Geotechnical investigation
- Hydrogeology and water drilling;
- Exploration;
- Drilling of technical wells.



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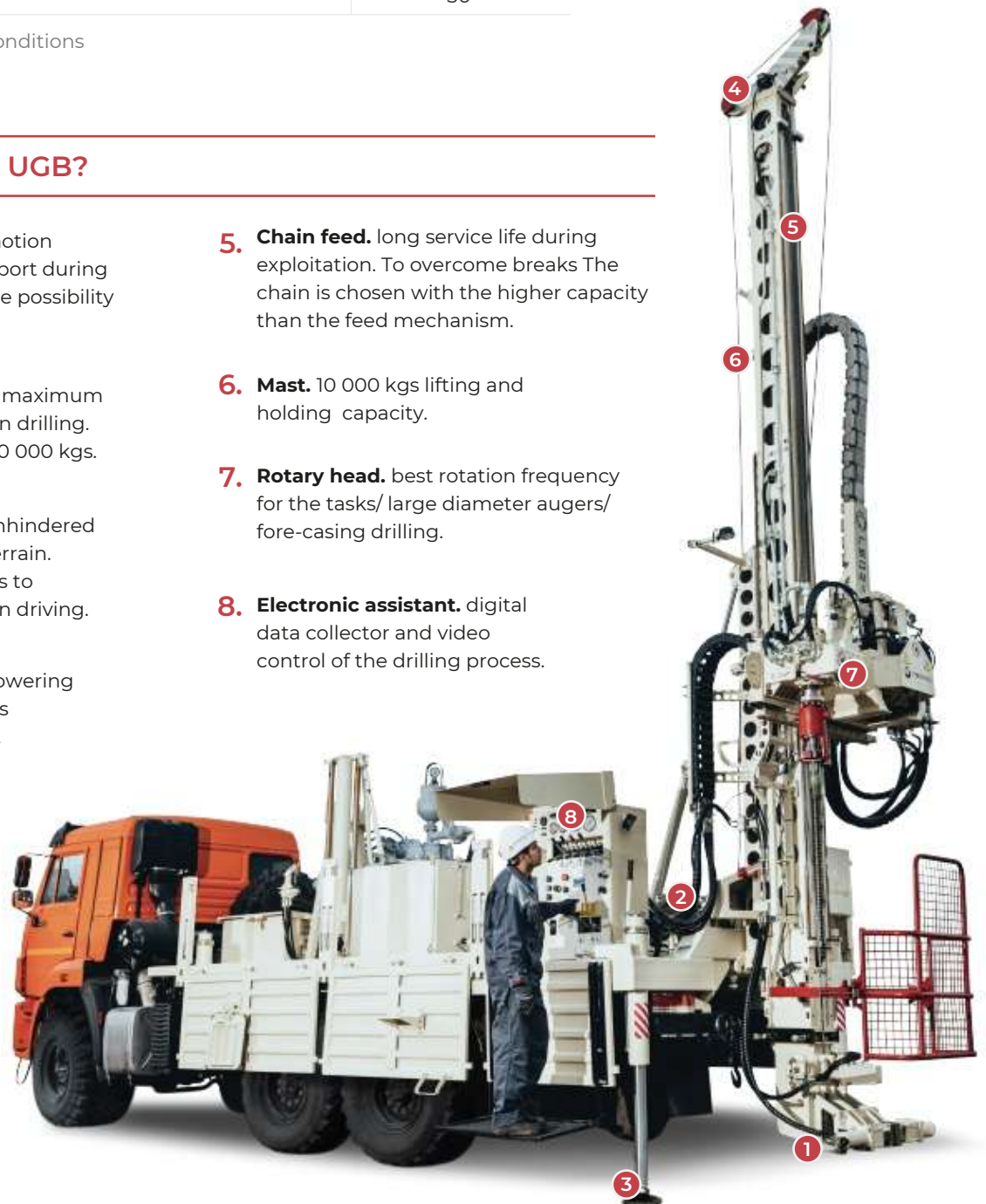
Drilling technologies applied

Technology of drilling	Conditional drilling depth, m
Rotation drilling with washing/with airflush	400
Coring	300
Wireline coring	1000
DTH drilling	300
Auger	50
Cabel-percussion	50
Sonic drilling	30

*depending on the drilling conditions

Why do you choose UGB?

- 1. Damping.** longitudinal motion mechanism for extra support during drilling and in addition the possibility of inclined drilling.
- 2. Winch.** free-fall provides maximum speed at cabel-percussion drilling. Option weight capacity 10 000 kgs.
- 3. Swinged jacks.** allows unhindered movement over rough terrain. Provide maximum angles to overcome obstacles when driving.
- 4. Crown-block.** provides lowering and lifting of casing pipes weighing up to 6,000 kg.
- 5. Chain feed.** long service life during exploitation. To overcome breaks The chain is chosen with the higher capacity than the feed mechanism.
- 6. Mast.** 10 000 kgs lifting and holding capacity.
- 7. Rotary head.** best rotation frequency for the tasks/ large diameter augers/ fore-casing drilling.
- 8. Electronic assistant.** digital data collector and video control of the drilling process.



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Options



Hydraulic clam

To hold drill rods, coring pipes and casing pipes.

Pass-through diameter 500 mm

Weight capacity 1 900 kgs.



Double hydraulic clam

To hold drill rods, coring pipes and casing pipes.

Breaking out of tool joints

Pass through diameter 345 mm

Weight capacity — 1 900 kgs.



Hydraulic wrench

Breaking of tool joints.

Diameter of drill rods 63,5 mm — 127 mm.



Static sounding module SZGU-000 (penetration force up to 10 000 kgs)

SZGU-00 is intended for static sounding by CPT method with use of "TEST" and "Pika" software. The CPT can be carried out without additional anchoring and setting up of the mast due to the weight of the drill rig. The centrator is included in the set of the drilling rig in order to prevent bending and breakage of the tools.

SZGU module is located in the center of gravity of the drilling rig. The house-type cabin could be optional installed in order to help the crew overcome rough weather conditions. The module has its' own control panel.

Diameter/length CPT rod, mm	36 / 1000
Penetrating force, kgsF	10 000
Penetration speed, m/min	0,9 - 1,5

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UDZ is indented for dynamic sounding SPT

UDZ module is indented for specify soil's dynamic resistance in sand and loam (excluding soils with macrofragmental pieces more than 40%).

The module is optionally completed with the additional weight of 3,5 kgs and fall height of 700 mm.

Options for mounting mud pumps and compressors

Parameters compressor	4VU	AK-9/10	KV-10/10; KV-12/12P	AIRMAN
Feed, m3/min	5	9	10; 12	11
Pressure, MPa	0,88	1	1,0; 1,2	0,7
Power, kWt	33	75	90; 132	80,9
Drive	Engine chassis	Engine chassis	Own engine	Own engine
Mass, kgs	780	400	1600; 2300	1710

Parametrs mud pump	NB-160/6,3	NB-50	Dynaset
Feed, lpm	18-160	700	150
Pressure, MPa	6,3	6,3	9
Power, kWt	11	50	23
Drive	Engine chassis	Engine chassis	Engine chassis
Mass, kgs	420	1100	30

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Cases

