

**DRILLING EQUIPMENT PLANT**

# BST

*Product catalog*

**MADE OF  
RUSSIAN STEEL**



[www.drill-rig.com](http://www.drill-rig.com)

## Company Overview

BurSpetsTekhnika LLC is a supplier of drilling solutions having a ten-year experience in manufacturing of special equipment. We have been producing exploration drilling rigs since 2005.

Our compact-size hydraulic and electric drilling rigs, mobile drilling machines, auger trucks, screw pile drivers and construction drilling equipment are designed for water drilling, construction, repair and maintenance of power transmission and communications lines, construction of pile foundations and associated works. Applications: power industry, gas and oil industry, road industry and public utilities, industrial and civil construction, construction of bridges and other structures in Extreme North, Far East and ever frost environment at extremely low temperatures.

BST qualified specialists are able to handle any technical challenges and offer unique engineering solutions tailored to ever-increasing needs of the customers.

Reliability and high quality of machines have been proved by long-term operation experience in electric power systems of both Russia and foreign countries, at construction, oil and gas, road and public utilities facilities.

Innovations. Since 2008, high performance mobile drilling rigs intended for different pile foundation works have been added to our product range. We offer state-of-the-art engineering solutions that allow our clients to optimize their operating expenses and increase their competitive ability.

Trust of partners. Today, over 300 Russian and foreign companies are doing business with BST.

## Delivery

BST supplies the drilling machines to clients throughout the world, including Africa, Asia, South and North America. Over the years, we have established strong and trust-based relationships both with freight companies and private carriers.

For shipment cost details, please contact our specialists by requesting a call or leaving an application at [www.drill-rig.com](http://www.drill-rig.com).

You can calculate shipment costs using calculators of the following companies:

**DHL**

**INSTAR LOGISTICS**

**DPD**

If you have any shipment preferences, please let us know. We will do our best to offer you the most convenient delivery method.

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## EXPLORATION DRILLING RIGS



### Exploration Drilling Rig URB-2A2

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

**Drilling rig is mounted on Ural, KamAZ, IVECO, MAN, Mercedes-Benz.**

This drilling machine is intended for rotary drilling of boreholes. Air drilling (compressor is installed), wet drilling (drill pump is installed), auger and combined drilling are also possible. Due to fast changeover between drilling modes, it is possible to operate in a combined mode (auger drilling followed by wet or air drilling).

#### Specifications:

<b>Rig type</b>	Drilling rig is mounted on Ural, KamAZ, IVECO, MAN, Mercedes-Benz and is driven by the truck engine
<b>Torque</b>	2010 N·m
<b>Drilling depth</b>	Wet drilling – 300 m Air drilling – 200 m Auger drilling – 30 m
<b>Weight</b>	Up to 10,100 kg
<b>Warranty</b>	1 year



### Exploration Drilling Rig URB-2D3

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

**Drilling rig is mounted on Ural, KamAZ, IVECO, MAN, Mercedes-Benz.**

This drilling machine is intended for rotary drilling of boreholes. Air drilling (compressor is installed), wet drilling (drill pump is installed), auger and combined drilling are also possible. Due to fast changeover between drilling modes, it is possible to operate in a combined mode (auger drilling followed by wet or air drilling).

#### Specifications:

<b>Rig type</b>	Drilling rig is mounted on Ural, KamAZ, IVECO, MAN, Mercedes-Benz and is driven by the truck engine
<b>Torque</b>	4000 N·m
<b>Drilling depth</b>	Wet drilling – 300 m Air drilling – 200 m Auger drilling – 45 m
<b>Weight</b>	Up to 10,500 kg
<b>Warranty</b>	1 year

## EXPLORATION DRILLING RIGS



### Exploration Drilling Rig URB-MTV

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

**Drilling rig is mounted on multipurpose towing vehicle chassis (MTV) and is driven by the MTV engine.**

This drilling machine is intended for rotary drilling of boreholes. Air drilling (compressor is installed), wet drilling (drill pump is installed), auger and combined drilling are also possible. Due to fast changeover between drilling modes, it is possible to operate in a combined mode (auger drilling followed by wet or air drilling).

#### Specifications:

<b>Rig type</b>	Drilling rig is mounted on multipurpose towing vehicle (MTV) and is driven by the MTV engine
<b>Torque</b>	2010 N·m
<b>Drilling depth</b>	Wet drilling — 300 m Air drilling — 200 m Auger drilling — 30 m
<b>Weight</b>	Up to 8,100 kg
<b>Warranty</b>	1 year



### Exploration Drilling Rig URB-MSN

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

**Drilling rig is mounted on track skidder MSN-10 and is driven by the MSN-10 engine.**

This drilling machine is intended for rotary drilling of boreholes. Air drilling (compressor is installed), wet drilling (drill pump is installed), auger and combined drilling are also possible. Due to fast changeover between drilling modes, it is possible to operate in a combined mode (auger drilling followed by wet or air drilling).

#### Specifications:

<b>Rig type</b>	Drilling rig is mounted on track skidder MSN-10 and is driven by the MSN-10 engine
<b>Torque</b>	2010 N·m
<b>Drilling depth</b>	Wet drilling — 300 m Air drilling — 200 m Auger drilling — 30 m
<b>Weight</b>	Up to 8,100 kg
<b>Warranty</b>	1 year

## EXPLORATION DRILLING RIGS



### Exploration Drilling Rig PBU

Drilling rig PBU with the motor-driven sliding rotator is intended for cable-tool drilling with use of drive cups and core samplers, core and dry / fluid-circulation / air full-hole noncore drilling, percussion rotary drilling, auger drilling; also this drilling rig is used for cone penetration testing (CPT) and standard penetration testing (SPT).

**Drilling rig is mounted on wheel bases - Ural, KamAZ, IVECO, MAN, Mercedes-Benz; tracked chassis - MTV, MSN-10; as well as on skid. The drive options - from the deck engine or from the transportation base.**

#### Specifications:

<b>Rig type</b>	Drilling rig is mounted on wheel bases - Ural, KamAZ, IVECO, MAN, Mercedes-Benz; tracked chassis - MTV, MSN-10; as well as on skid. The drive options - from the deck engine or from the transportation base.
<b>Starting drilling diameter, max</b>	400 mm
<b>Torque</b>	5000 N·m
<b>Drilling depth</b>	Wet drilling — 120 m Air drilling — 100 m Auger drilling — 60 m Cable-tool drilling — 60 m
<b>Weight</b>	Up to 11,100 kg
<b>Warranty</b>	1 year



### Continuous Flight Auger Drilling Rig CFA-800

CFA Drilling rig is used for drilling of boreholes with 800 mm diameter in formations with I-IV categories, for power transmission lines supports, pile foundations. The feed mechanism is the chain drive. It ensures feed and hoisting of the tool.

Special protective socket prevents the borehole mouth against backfilling during drilling. Also it is required to clean the hole from the soil after completion of work during transition of the mast to the transport position.

**Drilling rig is mounted on Ural, KamAZ IVECO, MAN, Mercedes-Benz and is driven by the truck engine.**

#### Specifications:

<b>Rig type</b>	Drilling rig is mounted on Ural, KamAZ, IVECO, MAN, Mercedes-Benz and is driven by the truck engine.
<b>Torque</b>	16 000 N·m
<b>Starting drilling diameter, max</b>	800 mm
<b>Drilling depth</b>	Maximum drilling depth with continuous feed of the drill tool (telescoping auger) - 7.5 (14) m
<b>Weight</b>	Up to 10,600 kg
<b>Warranty</b>	1 year



### Accessories:

1. GT-1 Hydraulic Pipe Grab (option)
2. GA-2 Hydraulic Outrigger (option)
3. GR-1 Hydraulic Reduction Gear with one Hydraulic Motor (option)
4. GR-2 Hydraulic Reduction Gear with two Hydraulic Motors (option)
5. MO-1 Lube Oil Cooler (option)
6. BN-1 Drill Pump (option)



### Accessories:

1. GT-1 Hydraulic Pipe Grab (option)
2. GA-2 Hydraulic Outrigger (option)
3. GR-1 Hydraulic Reduction Gear with one Hydraulic Motor (option)
4. GR-2 Hydraulic Reduction Gear with two Hydraulic Motors (option)
5. MO-1 Lube Oil Cooler (option)
6. TsPK-1 Carriage Chain Drive (option)
7. BN-1 Drill Pump (option)



## SELF-PROPELLED DRILLING RIGS

### Self-propelled Drilling Rig SBU URB MINI

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

Drilling rig is mounted on tracked chassis with engine D-144.

#### Specifications:

<b>Rig type</b>	Compact-size track mounted
<b>Torque</b>	1450 N·m
<b>Engine type</b>	Diesel
<b>Rig power</b>	60 h.p., 120 h.p.
<b>IC engine</b>	D-144, D-245
<b>Carriage drive type</b>	Double-strand chain
<b>Drilling depth</b>	Wet drilling — 200 m Air drilling — 150 m Auger drilling — 30 m
<b>Weight</b>	Up to 2000 kg
<b>Warranty</b>	1 year

### Self-propelled Drilling Rig SBU-60LS

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

Drilling rig is mounted on tracked chassis with engine D-144.

#### Specifications:

<b>Rig type</b>	Compact-size track mounted
<b>Torque</b>	1450 N·m
<b>Engine type</b>	Diesel
<b>Rig power</b>	60 h.p.
<b>IC engine</b>	D-144
<b>Carriage feed drive type</b>	Cylinder, Chain
<b>Drilling depth</b>	Wet drilling — 150 m Air drilling — 100 m Auger drilling — 25 m
<b>Weight</b>	Up to 1200 kg
<b>Warranty</b>	1 year

## SELF-PROPELLED DRILLING RIGS



### Accessories:

1. GT-1 Hydraulic Pipe Grab (option)
2. GA-2 Hydraulic Outrigger (option)
3. GR-1 Hydraulic Reduction Gear with one Hydraulic Motor (option)
4. GR-2 Hydraulic Reduction Gear with two Hydraulic Motors (option)
5. MO-1 Lube Oil Cooler (option)
6. TsPK-1 Carriage Chain Drive (option)
7. BN-1 Drill Pump (option)



### Accessories:

1. GT-1 Hydraulic Pipe Grab (option)
2. GA-2 Hydraulic Outrigger (option)
3. GR-1 Hydraulic Reduction Gear with one Hydraulic Motor (option)
4. GR-2 Hydraulic Reduction Gear with two Hydraulic Motors (option)
5. MO-1 Lube Oil Cooler (option)
6. TsPK-1 Carriage Chain Drive (option)
7. BN-1 Drill Pump (option)



### Self-propelled Drilling Rig SBU-80LS

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

Drilling rig is mounted on tracked chassis with VAZ-2106 engine.

#### Specifications:

<b>Rig type</b>	Compact-size track mounted
<b>Torque</b>	960 N·m
<b>Engine type</b>	Gasoline
<b>Rig power</b>	80 h.p.
<b>IC engine</b>	VAZ-2106
<b>Carriage drive type</b>	Cylinder, Chain
<b>Drilling depth</b>	Wet drilling — 150 m Air drilling — 70 m Auger drilling — 25 m (in stages)
<b>Weight</b>	Up to 900 kg
<b>Warranty</b>	1 year

### Self-propelled Drilling Rig SBU-24LS

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

Drilling rig is mounted on tracked chassis with Lifan 22 h.p. gasoline engine VAZ-2106

#### Specifications:

<b>Rig type</b>	Compact-size track mounted
<b>Torque</b>	900 N·m
<b>Engine type</b>	Gasoline
<b>Rig power</b>	24 h.p.
<b>IC engine</b>	24 h.p. Lifan, Honda, Subaru
<b>Carriage feed drive type</b>	Cylinder, Chain
<b>Drilling depth</b>	Wet drilling — 100 m Air drilling — 30 m Auger drilling — 25 m (in stages)
<b>Weight</b>	Up to 800 kg
<b>Warranty</b>	1 year

## TRAILER MOUNTED DRILLING RIGS



### Trailer Mounted Drilling Rig GBU-60L

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

#### Specifications:

<b>Rig type</b>	Compact-size, trailer-mounted
<b>Torque</b>	1450 N·m
<b>Engine type</b>	Diesel
<b>Rig power</b>	60 h.p.
<b>IC engine</b>	D-144
<b>Carriage drive type</b>	Cylinder, Chain
<b>Drilling depth</b>	Wet drilling — 200 m Air drilling — 100 m Auger drilling — 25 m (in stages)
<b>Weight</b>	Up to 800 kg
<b>Warranty</b>	1 year

#### Accessories:

1. GT-1 Hydraulic Pipe Grab (option)
2. GA-2 Hydraulic Outrigger (option)
3. GR-1 Hydraulic Reduction Gear with one Hydraulic Motor (option)
4. GR-2 Hydraulic Reduction Gear with two Hydraulic Motors (option)
5. MO-1 Lube Oil Cooler (option)
6. TsPK-1 Carriage Chain Drive (option)
7. BN-1 Drill Pump (option)

## TRAILER MOUNTED DRILLING RIGS



### Trailer Mounted Drilling Rig GBU-24L

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

#### Specifications:

<b>Rig type</b>	Compact-size, trailer-mounted
<b>Torque</b>	900 N·m
<b>Engine type</b>	Gasoline
<b>Rig power</b>	24 h.p.
<b>IC engine</b>	24 h.p. Lifan, Honda, Subaru
<b>Carriage drive type</b>	Cylinder, Chain
<b>Drilling depth</b>	Wet drilling — 100 m Air drilling — 30 m Auger drilling — 25 m (in stages)
<b>Weight</b>	Up to 750 kg
<b>Warranty</b>	1 year

#### Accessories:

1. GT-1 Hydraulic Pipe Grab (option)
2. GA-2 Hydraulic Outrigger (option)
3. GR-1 Hydraulic Reduction Gear with one Hydraulic Motor (option)
4. GR-2 Hydraulic Reduction Gear with two Hydraulic Motors (option)
5. MO-1 Lube Oil Cooler (option)
6. TsPK-1 Carriage Chain Drive (option)
7. BN-1 Drill Pump (option)

### Trailer Mounted Drilling Rig GBU-80L

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

#### Specifications:

<b>Rig type</b>	Compact-size, trailer-mounted
<b>Torque</b>	960 N·m
<b>Engine type</b>	Gasoline
<b>Rig power</b>	80 h.p.
<b>IC engine</b>	VAZ-2106
<b>Carriage drive type</b>	Cylinder, Chain
<b>Drilling depth</b>	Wet drilling — 150 m Air drilling — 70 m Auger drilling — 25 m (in stages)
<b>Weight</b>	Up to 750 kg
<b>Warranty</b>	1 year

#### Accessories:

1. GT-1 Hydraulic Pipe Grab (option)
2. GA-2 Hydraulic Outrigger (option)
3. GR-1 Hydraulic Reduction Gear with one Hydraulic Motor (option)
4. GR-2 Hydraulic Reduction Gear with two Hydraulic Motors (option)
5. MO-1 Lube Oil Cooler (option)
6. TsPK-1 Carriage Chain Drive (option)
7. BN-1 Drill Pump (option)

### Trailer Mounted Drilling Rig GBU-15L

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

#### Specifications:

<b>Rig type</b>	Compact-size, trailer-mounted
<b>Torque</b>	850 N·m
<b>Engine type</b>	Gasoline
<b>Rig power</b>	15 h.p.
<b>IC engine</b>	15 h.p. Lifan, Honda, Subaru
<b>Carriage drive type</b>	Cylinder, Chain
<b>Drilling depth</b>	Wet drilling — 100 m Air drilling — 30 m Auger drilling — 25 m (in stages)
<b>Weight</b>	Up to 750 kg
<b>Warranty</b>	1 year

#### Accessories:

1. GT-1 Hydraulic Pipe Grab (option)
2. GA-2 Hydraulic Outrigger (option)
3. GR-1 Hydraulic Reduction Gear with one Hydraulic Motor (option)
4. GR-2 Hydraulic Reduction Gear with two Hydraulic Motors (option)
5. MO-1 Lube Oil Cooler (option)
6. TsPK-1 Carriage Chain Drive (option)
7. BN-1 Drill Pump (option)



## PORTABLE DRILLING RIGS

### Portable Drilling Rig GBU-24LP

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

#### Specifications:

<b>Rig type</b>	Compact-size, portable
<b>Torque</b>	900 N·m
<b>Engine type</b>	Gasoline
<b>Rig power</b>	24 h.p.
<b>IC engine</b>	24 h.p. Lifan, Honda, Subaru
<b>Carriage drive type</b>	Cylinder, Chain
<b>Drilling depth</b>	Wet drilling — 90 m Air drilling — 30 m Auger drilling — 25 m (in stages)
<b>Weight</b>	Up to 250 kg
<b>Warranty</b>	1 year

#### Accessories:

1. GT-1 Hydraulic Pipe Grab (option)
2. GA-2 Hydraulic Outrigger (option)
3. GR-1 Hydraulic Reduction Gear with one Hydraulic Motor (option)
4. GR-2 Hydraulic Reduction Gear with two Hydraulic Motors (option)
5. MO-1 Lube Oil Cooler (option)
6. TsPK-1 Carriage Chain Drive (option)
7. BN-1 Drill Pump (option)

### Portable Drilling Rig GBU-15LP

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

#### Specifications:

<b>Rig type</b>	Compact-size, portable
<b>Torque</b>	850 N·m
<b>Engine type</b>	Gasoline
<b>Rig power</b>	15 h.p.
<b>IC engine</b>	15 h.p. Lifan, Honda, Subaru
<b>Carriage drive type</b>	Cylinder, Chain
<b>Drilling depth</b>	Wet drilling — 90 m Air drilling — 30 m Auger drilling — 25 m (in stages)
<b>Weight</b>	Up to 250 kg
<b>Warranty</b>	1 year

#### Accessories:

1. GT-1 Hydraulic Pipe Grab (option)
2. GA-2 Hydraulic Outrigger (option)
3. GR-1 Hydraulic Reduction Gear with one Hydraulic Motor (option)
4. GR-2 Hydraulic Reduction Gear with two Hydraulic Motors (option)
5. MO-1 Lube Oil Cooler (option)
6. TsPK-1 Carriage Chain Drive (option)
7. BN-1 Drill Pump (option)

## PORTABLE DRILLING RIGS



### Electric Drilling Rig Electro-M1

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling.

#### Specifications:

<b>Rig type</b>	Compact-size, portable
<b>Rig power</b>	2.2 (kW); 4 (h.p.)
<b>Rock strength grade</b>	Up to 7
<b>Drilling depth</b>	Wet drilling — up to 70 m Air drilling — 30 m Auger drilling (Ø100 — 250) — up to 20 m (in stages)
<b>Average drilling speed</b>	Sand — 25.0 m/h Clay — 10.0 m/h Clay with layers of solid rock — 4 m/h Solid and hard rocks — up to 1 m/h
<b>Pull up/pull down force</b>	1000/1000 kg
<b>Speed</b>	0 — 56 rpm
<b>Max torque</b>	no less than 580 N·m
<b>Lifting speed</b>	0.2 m/s
<b>Rotator carriage travel</b>	1900 mm
<b>Weight</b>	250 kg
<b>Warranty</b>	1 year

#### Standard version:

1. Rig Casing
2. Electric Motor, 2.2 kW / 1,500 rpm
3. Reduction Gear
4. Swivel
5. Saver Sub
6. Lifting Gear
7. Pulley Block

### Hydraulic Drilling Rig YAMOBUR-M2

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

#### Specifications:

<b>Rig type</b>	Compact-size, portable
<b>Intended use</b>	For soft and medium rocks
<b>Torque</b>	850 N·m
<b>Up/down force</b>	1500 / 1500 kg
<b>Rotation speed</b>	0 — 140 rpm
<b>Auger drilling depth</b>	25 m (in stages)
<b>Auger drilling diameter</b>	40 — 250 mm
<b>Full power</b>	15 h.p., 17 h.p., 24 h.p.
<b>Engine type</b>	Hydraulic
<b>Weight</b>	150 kg
<b>Warranty</b>	1 year

#### Standard version:

1. Movable Mast of Rig
2. Oil Station
3. Movable carriage of rotator
4. Gasoline Engine, 15 h.p.
5. High Pressure Hoses



### Mobile Drilling Rig SVAIKRUT-80LS

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

Drilling rig is mounted on tracked chassis with VAZ-2106 engine.

#### This screw piling rig is intended to:

- Install screw piles of different diameter (57, 76, 89, 108, 133) and length (2.5; 3; 3.5 meters) depending on the mast length;
- Install piles in soils of up to 5 hardness grade;

- Perform auger drilling with a maximum diameter of 300 mm;
- Install cast-in-place piles.

#### Specifications:

<b>Rig type</b>	Compact-size track mounted
<b>Torque</b>	4000 N·m
<b>Engine type</b>	Gasoline
<b>Rig power</b>	80 h.p.
<b>IC engine</b>	VAZ-2106
<b>Carriage drive type</b>	Chain
<b>Drilling depth</b>	Auger drilling — 25 m (in stages)
<b>Weight</b>	Up to 900 kg
<b>Warranty</b>	1 year

#### Accessories:

1. GT-1 Hydraulic Pipe Grab (option)
2. GA-2 Hydraulic Outrigger (option)
3. GR-1 Hydraulic Reduction Gear with one Hydraulic Motor (option)
4. GR-2 Hydraulic Reduction Gear with two Hydraulic Motors (option)
5. MO-1 Lube Oil Cooler (option)
6. TsPK-1 Carriage Chain Drive (option)
7. BN-1 Drill Pump (option)



### Hydraulic Drilling Rig SVAIKRUT-24L

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

Drilling rig is mounted on trailer with Lifan 24 h.p. engine.

#### This screw piling rig is intended to:

- Install screw piles of different diameter (57, 76, 89, 108, 133) and length (2.5; 3; 3.5 meters) depending on the mast length;
- Install piles in soils of up to 5 hardness grade;

- Perform auger drilling with a maximum diameter of 300 mm;
- Install cast-in-place piles.

#### Specifications:

<b>Rig type</b>	Compact-size, trailer-mounted
<b>Torque</b>	4000 N·m
<b>Engine type</b>	Gasoline
<b>Rig power</b>	24 h.p.
<b>IC engine</b>	Lifan, Honda, Subaru
<b>Carriage drive type</b>	Chain
<b>Weight</b>	Up to 1000 kg
<b>Warranty</b>	1 year

#### Accessories:

1. GT-1 Hydraulic Pipe Grab (option)
2. GA-2 Hydraulic Outrigger (option)
3. GR-1 Hydraulic Reduction Gear with one Hydraulic Motor (option)
4. GR-2 Hydraulic Reduction Gear with two Hydraulic Motors (option)
5. MO-1 Lube Oil Cooler (option)
6. TsPK-1 Carriage Chain Drive (option)
7. BN-1 Drill Pump (option)



### Hydraulic Drilling Rig SVAIKRUT-4M

Designed for rotary drilling of vertical and inclined wells, drilling using auger and core drilling tools, wet and air drilling, screw pile installation, heat pump installation.

#### This screw piling rig is intended to:

- Install screw piles of different diameter (57, 76, 89, 108, 133) and length (2.5; 3; 3.5 meters) depending on the mast length;
- Install piles in soils of up to 5 hardness grade;
- Perform auger drilling with a maximum diameter of 300 mm;
- Install cast-in-place piles.

#### Standard version:

1. Gear motor with the torque of 1200 N·m, 2.2 kW electric motor and speed of 22 rpm;
2. Stabilization system (designed to fix the rig);
3. Pile adapter (designed to fix the piles against the shaft of the gear motor);
4. Pile centering device (mounted at the bottom of the rig, it is designed to fix the piles and prevent their horizontal displacement during installation);
5. Screw jacks (designed to level the rig).



### CPT Device

The most effective method of soil testing in situ is static penetration test.

The CPT device is intended to perform penetration testing with the force up to 7 tons on the principle of driving of a tool string; also it is capable to perform auger drilling with the auger diameter up to 300 mm.

#### Standard version:

1. Oil station with IC engine 24 h.p.;
2. High pressure hoses with quick connection;
3. Mast with carriage - fully detachable from the base;
4. Device for anchoring of the rig - hydraulic rotation mechanism;
5. Two hydraulic cylinders for penetration testing;
6. Hydraulic motor MT-315 on removable connection.



### PIT-TYPE PUNCTURE MACHINE PPM-100

The machine is intended for subsurface utility engineering (pipe conduits of various applications) by hydraulic puncture with further compaction of soil (category I-III) with opportunity to perform guided puncture of soil over a distance of 100 meters.

#### Characteristics of machine:

- compact size – the 1.2 m entry pit is required to start operation;
- design modularity – allows to install the machine in the pit without use of articulating crane;

- transportability – it is possible to transport the machine in a station wagon;
- one person is required to perform work;
- no need of consumable materials, such as water, bentonite.

#### DISTINGUISHING FEATURES:



1. Puncture of soil over a distance of 100 meters;
2. Powerful tractive force given the compact size;
3. Guided puncture to 100 m length with positioning system;
4. Design modularity;
5. Installation on site without use of articulating crane by efforts of 2 persons.

#### SPECIFICATIONS:

Opening diameter, max	350 mm
Guided puncture length	100 m
Forward/reverse tractive force	20 t / 20 t
Gasoline engine (Honda GX-200)	13 h.p.
Carriage travel speed	1 m/min
Rod diameter	45 mm
Overall dimensions, l/w/h	1050/550/610 mm

### WELL-TYPE PUNCTURE MACHINE WITH HYDRAULIC ROTATOR WPM-100

The machine is intended for subsurface utility engineering (pipe conduits of various applications) by hydraulic puncture with further compaction of soil (category I-III) from the well with 1 m diameter.



#### Characteristics of machine:

- the hydraulic rotator actuates the controlled pilot, which allows to perform fully functional guided puncture;
- possibility to perform guided puncture to 100 m length with use of positioning system;
- compact size;
- a starting well with 1 m diameter is required;

- transportability – it is possible to transport the machine in any car;
- capacity is 500 kg;
- 1 person is required to perform work;
- no need of consumable materials, such as water, bentonite.

#### DISTINGUISHING FEATURES:



1. Guided puncture of soil over a distance of 100 meters;
2. Powerful tractive force given the compact size;
3. Compact size and transportability by any vehicle;
4. Maximum set-up time on site - 30 min.

#### SPECIFICATIONS:

Opening diameter, max	350 mm
Guided puncture length	100 m
Forward/reverse tractive force	20 t / 20 t
Gasoline engine (Honda GX-390)	13 h.p.
Carriage travel speed	1 m/min
Rod diameter	45 mm
Overall dimensions, l/w/h	935/425/600 mm



### HORIZONTAL DIRECTIONAL DRILLING RIG HDD-100

It is intended for drilling of both horizontal and vertical boreholes in confined spaces. It allows to perform trenchless laying of water/gas/cable conduits with various applications. It has shown strong performance during drilling of inclined boreholes.

#### Characteristics of machine:

- small size and design modularity allow to perform work in hard-to-reach places;

- hydraulic drive of the rig does not require big physical effort;
- quick preparation for work and simple control.

#### SPECIFICATIONS:

Opening diameter, max	280 mm
Horizontal borehole drilling length	100 m
Vertical borehole drilling length	100 m
Forward/reverse tractive force	2.2 t / 3.1 t
Tool rotation speed	0 – 115 rpm
Tool torque	590 N.m
Gasoline engine (Honda GX-390)	13 h.p.
Overall dimensions, l/w/h	2600/1000/500 mm
Weight with tool	750 kg

#### DISTINGUISHING FEATURES:



1. Performance of horizontal and vertical drilling up to 100 meters;
2. Forward/reverse tractive force – 2.2 / 3.1 tons;
3. Opening diameter – up to 280 mm (depending on soil);
4. Automatic screwing and unscrewing of drilling rods;
5. Carrying out of cuttings by water or mud fluid allows to drill in different types of formations.

### SELF-PROPELLED HORIZONTAL DIRECTIONAL DRILLING RIG HDD-300

The rig allows to perform horizontal directional guided drilling with further opening up to 650 mm over a distance up to 300 meters.

#### Characteristics of machine:

- steel tracks with rubber patches allow to move along the road surface without its damage;
- the anchoring system allows to securely position the drilling rig (4 anchors);
- automatic feed of rods, replacement tool drum for 36 rods;

- fixed cabin with air conditioner and heating;
- drilling process is controlled using electronic joysticks;
- remote panel allows to control machine movement and anchoring remotely;
- control of drilling head position using the positioning system DigiTrak F2/F5, SNS 200 Pron.

#### SPECIFICATIONS:

Pilot borehole diameter	90 mm
Opening diameter, max	650 mm
Drilling length, max	300 m
Tool rotation speed	0 – 120 rpm
Torque, max	5378 N.m
Forward/reverse tractive force	20.5 t / 20.5 t
Working length of drilling rod	3 m
Drilling rod diameter	63.5 mm
Q-ty of drilling rods in the drum	36 pc
Engine MTZ D-245	89 kW/124 h.p.
Rig weight (with full drum)	9.5 t

#### DISTINGUISHING FEATURES:



The HDD-300 does not require the working pit, the rig is self-propelled (crawler mounted). Rods feed and drilling processes performance are automated. The hydraulic part is assembled on the basis of Sauer-Danfoss components.

The drilling rig is equipped with the adjustable-type hydraulic pumps. The controls are operated by microprocessor-controlled manipulators. Movement along the working site, ramp from the trailer are made via the remote panel connected to the rig by a 10 m cable.

**WARRANTY**

**Standard warranty period for our products is 1 year.**

**Moreover, BST provides free training for you and your personnel at our testing facility.**



**ADDITIONAL DRILLING EQUIPMENT & TOOLS**



Drill Pump



Mud Pump



Compressor



Gasoline Generator



Drill Rods



Roller Cone Bit



PDC Bit



Three-Blade Bit



PVC Core Pipe



Core Crown Bit



Auger



Down-The-Hole Hammer



Clamp



Lock



Fork



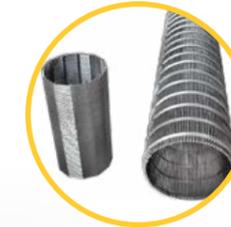
Swivel



Casing Pipe



Metal Casing Pipe



Casing Pipe Filter



Drilling Powder



Hydraulic Grab



Winch For Auxiliary Operations

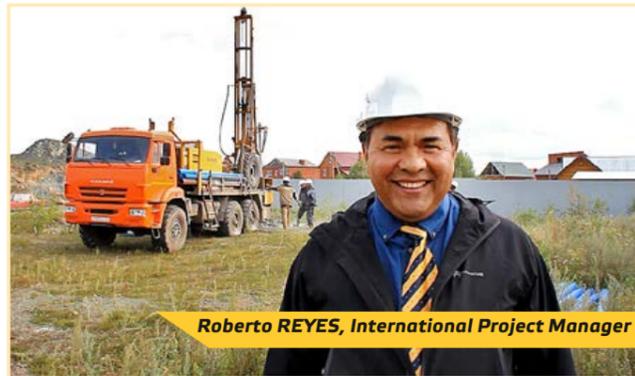


Self-Propelled Base



Rotator

**Real-life drilling with URB-2A2 for Ghana customers**



**Client Faralina Resource SARL**

**Republic of Guinea**

<b>Date</b>	September, 2016
<b>Objective</b>	150 m air drilling for water well 50 m core drilling for exploration
<b>Solution</b>	In the Republic of Guinea BST made installation of the drilling rig at the chassis provided by the Client. Comprehensive supply of drilling tool and casing pipe set



**Client Andreev Petyo**

**Bulgaria, Byala Slatina**

<b>Date</b>	October, 2017
<b>Objective</b>	Start-up of water well drilling business Depth: 50 m
<b>Solution</b>	Self-propelled drilling rig SBU-60M was supplied to the Client. Comprehensive supply of drilling tool for 50 m; water circulation drilling



**Client Jacob Valerian**

**Moldova, Straseni**

<b>Date</b>	October, 2016
<b>Objective</b>	Start-up of water well drilling business Depth: 150 m
<b>Solution</b>	Trailer mounted drilling rig GBU-80L was supplied to the Client Comprehensive supply of drilling tool for 150 m; water circulation drilling The Client amended the supplied drilling rig according to his needs: he removed the trailer and mounted the drilling rig on UAZ vehicle. Also he replaced the gasoline engine to the diesel engine. Now he successfully performs drilling of water wells with this upgraded machine in Moldova



**Client from Colombia**

**Latin America, Colombia**

<b>Date</b>	November, 2016
<b>Objective</b>	Water well drilling Depth: 150 m
<b>Solution</b>	Trailer mounted drilling rig GBU-80L was supplied to the Client Comprehensive supply of drilling tool for 150 m; water circulation drilling The Client performs step drilling, starting from Ø 150 mm and finishing with Ø 350 mm Comprehensive supply of drilling tool for 150 m



**Client Aqua Fontana Nova Ltd & Geosmart Ltd**

**Bulgaria**

<b>Objective</b>	Water well drilling Depth: 60 m Geological exploration: 10 m
<b>Solution</b>	Two drilling rigs were supplied to customers in one container: GBU-27L and GBU-27M (without a trailer).  Comprehensive supply of drilling tool for 60 m of water drilling and for 10 m of auger drilling.



**Office and Production Site in Russia**

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 Dennis Romanov Sales Engineer  
 +7 922 239 01 55      
 E-mail: bst.romanov@gmail.com

**Client Catwalk Cosmetic Laboratories Ltd**

**South Africa**

<b>Objective</b>	Start-up of water well drilling business Depth: 50 m
<b>Solution</b>	Trailer mounted drilling rig GBU-24L and Portable drilling rig GBU-24LP were supplied to the customer.  Comprehensive supply of drilling tool for 50 m of water drilling.



**DRILLING EQUIPMENT PLANT**

**BST**

**MADE OF  
RUSSIAN STEEL**



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