



# URB-2D3 with 2D1 rotator

DRILLING RIG

## Functionality

**URB-2D3 drilling rig with rotator was made for drilling geophysical and stratigraphic test wells for oil and gas; mineral exploration; exploration of building materials and groundwater; engineering and geological research; drilling water wells and blast holes.**

## Chassis



URAL, KAMAZ, ZIL, Multi-purpose tracked chassis, TT-4, TL-5ALM, floating hull

## Equipment

Mast	Transfer case
Platform	Pressure relief system
Rotator	Electronic unit
Spare parts	

## Optional equipment

Drilling pumps - NB4, NB-32, NB-50  
Compressors - 4VU1-5/9, PK-5,25, AK-9/10, KV-10/10C, KV-12/10C, KV-12/12C  
Pipe holder - TD-250.ZBT  
Auxiliary winch LG-16  
CPT device USZ-10.ZBT  
Drilling tool

## Advantages



Improved control ergonomics

Electronic control unit provides of drilling process safety

Serviced hydraulic system with temperature and pollution control

## Specifications

### Conditional drilling depth, m:

Roller-bit drilling with fluid circulation and air flushing $\varnothing$ 93 mm	350
Dry core drilling $\varnothing$ 151 mm	70
Auger drilling $\varnothing$ 135 mm	50
Pneumopercussion drilling with longwal $\varnothing$ 130 mm	150
Pneumopercussion drilling with circular face $\varnothing$ 151 mm	70
Shock-contact method $\varnothing$ 140 mm	none
Cone penetration test	optional
Dynamic penetration test	none
Pipe holder 250 mm	optional
Mast and carriage type	reinforced

### Load allowed on the elevator, kN (kgs)

63 (6300)

### Drill lifting speed, m/s

0...1,25

### Spindle rotation speed

140/230/320

### Rotator stroke, mm

5200

### Torque, Nm

4000/2500/1730

### Overall dimensions in transport position, mm

8330x2500x3980

### Overall dimensions in working position, mm

8530x2500x8380

### Platform weight, kg

3200

The ability to install any additional equipment easily

Economical maintenance



### Functionality

**URB-2D3 drilling rig with rotator was made for drilling geophysical and stratigraphic test wells for oil and gas; mineral exploration; exploration of building materials and groundwater; engineering and geological research; drilling water wells and blast holes.**

### Specifications

<b>Conditional drilling depth, m:</b>	
<i>Roller-bit drilling with fluid circulation and air flushing Ø 93 mm</i>	350
<i>Dry core drilling Ø 151 mm</i>	70
<i>Auger drilling Ø 135 mm</i>	50
<i>Pneumopercussion drilling with longwall Ø 130 mm</i>	150
<i>Pneumopercussion drilling with circular face Ø 151 mm</i>	70
<i>Shock-contact method Ø 140 mm</i>	40
<i>Cone penetration test</i>	optional
<i>Dynamic penetration test</i>	optional
<i>Pipe holder 250 mm</i>	optional
<i>Mast and carriage type</i>	reinforced
<b>Load allowed on the elevator, kN (kgs)</b>	63 (6300)
<b>Drill lifting speed, m/s</b>	0...1,25
<b>Spindle rotation speed</b>	140/230/320
<b>Rotator stroke, mm</b>	5200
<b>Torque, Nm</b>	4000/2500/1730
<b>Overall dimensions in transport position, mm</b>	8330x2500x3980
<b>Overall dimensions in working position, mm</b>	8530x2500x8380
<b>Platform weight, kg</b>	3200

### Advantages



Improved control ergonomics

Electronic control unit provides of drilling process safety

Serviced hydraulic system with temperature and pollution control

The ability to install any additional equipment easily

Economical maintenance

## URB-2D3 with 2D1 rotator shift

DRILLING RIG

### Chassis



URAL, KAMAZ, ZIL, Multi-purpose tracked chassis, TT-4, TL-5ALM, pontoons

### Equipment

Mast	Transfer case
Platform	Pressure relief system
Rotator	Electronic unit
Spare parts	

### Optional equipment

Drilling pumps - NB4, NB-32, NB-50, Dynaset HDF 90/150-85

Compressors - 4VU1-5/9, PK-5,25, AK-9/10, KV-10/10C, KV-12/10C, KV-12/12C, Dynaset HKL 2600/8-65-OPE

Pipe holder - TD-250.ZBT

DPT device UDZ-60.ZBT

CPT device USZ-10.ZBT

Casing device UPOK-168.ZBT

Winch - LBS-250

Drilling tool



# URB-2D3 with 2D3 rotator

DRILLING RIG

## Chassis



URAL, KAMAZ, ZIL, Multi-purpose tracked chassis, TT-4, TL-5ALM, floating hull

## Equipment

Mast	Transfer case
Platform	Pressure relief system
Spare parts	Rotator

## Optional equipment

Drilling pumps - NB4, NB-32, NB-50, Dynaset HDF 90/150-85

Compressors - 4VU1-5/9, PK-5,25, AK-9/10, KV-10/10C, KV-12/10C, KV-12/12C, Dynaset HKL 2600/8-65-OPE

Pipe holder - TD-250.ZBT

DPT device UDZ-60.ZBT

CPT device USZ-10.ZBT

Casing device UPOK-168.ZBT

Winch - LBS-250

Drilling tool

## Functionality

URB-2D3 drilling rig with 2D3 planetary 4-speed rotator was made for rotary drilling with fluid circulating and air flushing; cable-rotary down the hole drilling and auger drilling for various purposes wells, including water wells.

## Specifications

<b>Conditional drilling depth, m:</b>	
Roller-bit drilling with fluid circulation and air flushing $\varnothing$ 93 mm	350
Dry core drilling $\varnothing$ 151 mm	70
Auger drilling $\varnothing$ 135 mm	50
Pneumopercussion drilling with longwall $\varnothing$ 130 mm	150
Pneumopercussion drilling with circular face $\varnothing$ 151 mm	70
Shock-contact method $\varnothing$ 140 mm	optional
Cone penetration test	optional
Dynamic penetration test	optional
Pipe holder 250 mm	optional
Mast and carriage type	reinforced
<b>Load allowed on the elevator, kN (kgs)</b>	63 (6300)
<b>Drill lifting speed, m/s</b>	0...1,25
<b>Spindle rotation speed</b>	33/66/92/184
<b>Rotator stroke, mm</b>	5200
<b>Torque, Nm</b>	4000/1440/4000/1400
<b>Overall dimensions in transport position, mm</b>	8330x2500x3980
<b>Overall dimensions in working position, mm</b>	8530x2500x8380
<b>Platform weight, kg</b>	3200

## Advantages



Improved control ergonomics

Electronic control unit provides of drilling process safety

Original 2D3 rotator has a reduced speed range, which is preferable for geological exploration drilling

The ability to install any additional equipment easily

Economical maintenance

Serviced hydraulic system with temperature and pollution control

Learn more about the terms of purchase and maintenance of drilling rigs by calling 8-800-250-19-40 and 8-800-775-46-79 or by visiting our websites: [www.zavodbt.ru](http://www.zavodbt.ru) and [www.zivv.ru](http://www.zivv.ru)