

UN2

Core drilling rig

FORWARD

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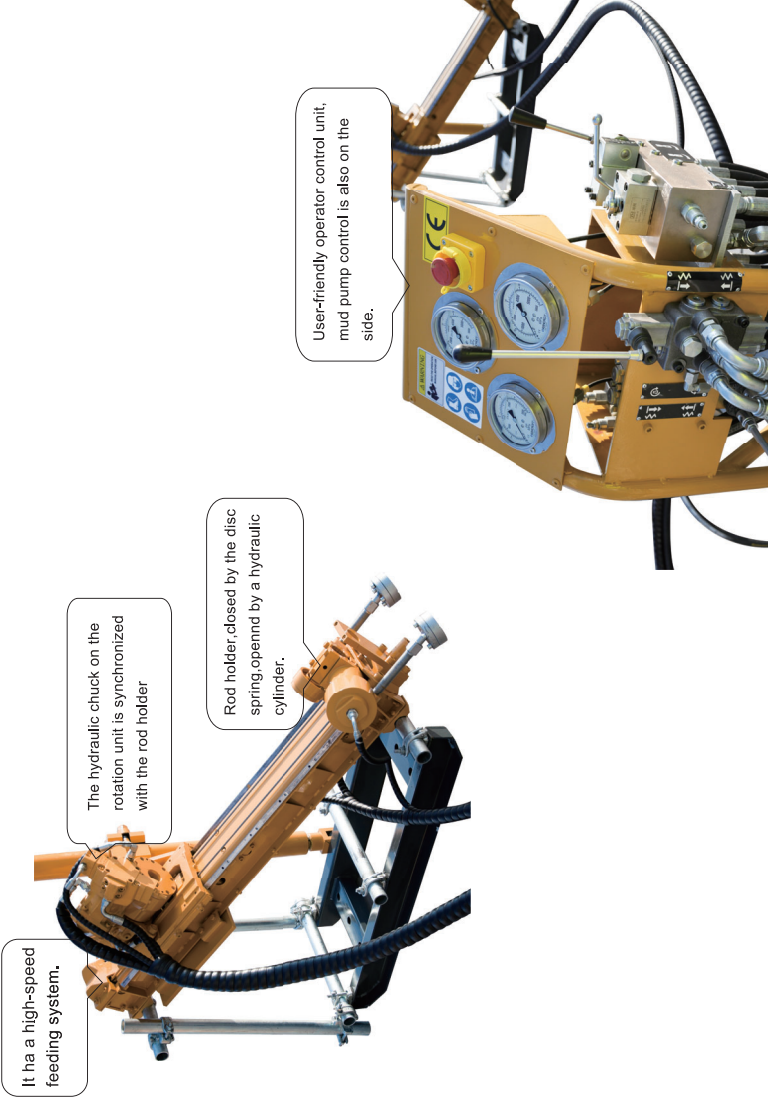
The UN2 drilling rig is specifically designed for operation in confined and limited working spaces.

The robust and compact UN2 core drilling rig features a lightweight design, enabling quick and easy installation. It is ideally suited for shallow drilling in confined areas with limited headroom.

The rig is designed for both exploration and geotechnical applications.

The UN2 is equipped with a mechanized rod handling and braking system. A synchronized chuck and rod holder ensures fast and safe drill rod operations. In addition, the rig features a hinged rod holder and a swivel rotation unit, allowing easy operation under various special conditions, such as casing installation.

The UN2 is electrically powered and fitted with a Direct Hydraulic Control (DHC) system. Two variable-displacement hydraulic pumps ensure efficient operation of all critical functions.



It has a high-speed feeding system.

The hydraulic chuck on the rotation unit is synchronized with the rod holder.

Rod holder, closed by the disc spring, opened by a hydraulic cylinder.

User-friendly operator control unit, mud pump control is also on the side.

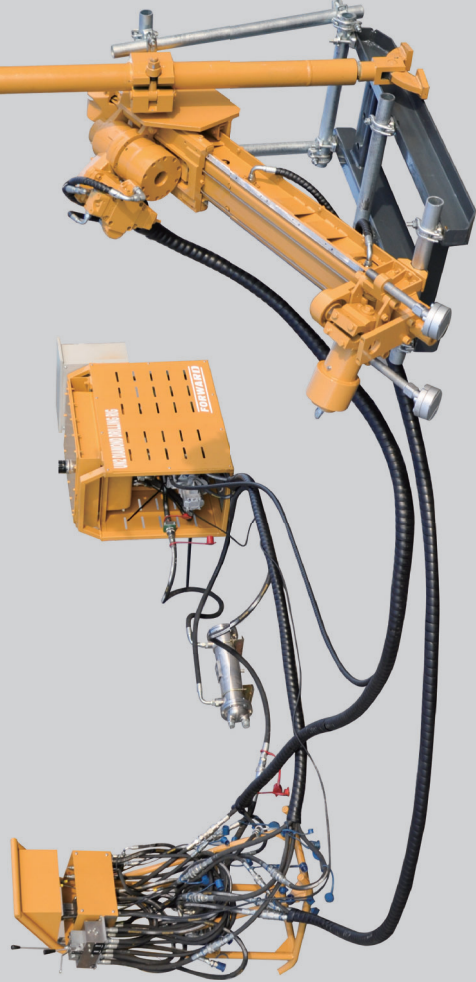
Main benefits:

The UN2 drilling rig features a compact and lightweight design, making it easy to transport.

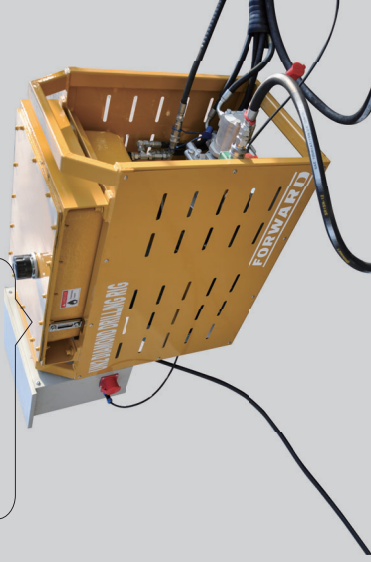
The UN2 is equipped with a drill rod thread compensation system, allowing easier and more efficient rod installation.

The UN2's unique feed system delivers exceptionally high drilling efficiency.

The Direct Hydraulic Control (DHC) system is easy to operate and provides fast, responsive control.



Equipped the 15KW ABB electric motor to drive the two variable flow hydraulic pumps.



Technical Specifications

Basic Data

Max.Depth AQ rod (Down)	220 mts
Max.Depth AQ rod (UP)	180 mts

Feeding System

Rod size	A
The inner diameter of the spindle	50 mm
Max.Speed	550 – 2 200 RPM
Max. Torque	250 Nm

Rod Holder

Max. opening	52 mm
Axial holding force	25 kN

Modules

Flush Pump	CAT 1010 pump (Option) (made in USA)
Capacity	1000 psi 49 LPM

Hydraulic Control System

Control	By hydraulic pilot control
Feeding	By hand

Feeding System

Feeding stroke	850 mm
Feeding force	20 KN
Pull-back force	15 KN
Moving speed	1 m/s
Rod running-out	0.8 m/s
Rod running-in	1 m/s
Feed length	1 510 mm

Power Unit

Power	15 kW ABB electric motor
Main Hydraulic Pump Flow	45 L/min
Main Hydraulic Pump Pressure	300 bar
Assistant Hydraulic Pump Flow	10 L/min
Assistant Hydraulic Pump Pressure	300 bar

Weight

Power Unit	245 Kgs
Drilling Unit with Panel	292 Kgs

Dimension

