



GEOTECHNICAL RIG *PRO 450PU*



The *PRO 450PU* is a geotechnical drilling rig mounted on a Toyota Land Cruiser 4x4 pick-up. The vehicle is reinforced with stronger suspension, and an aluminum skid that supports the rig itself.

Versatile and powerful, thanks to its YANMAR 45 HP engine, the *PRO 450PU* is dedicated to geotechnical and environmental investigations, as well as shallow mineral exploration. Fully autonomous, it doesn't require any additional transport facility, including in poor access areas.

Geotechnical drilling rig PRO 450PU

The rotation head has two hydraulic motors, offering a wide range of torque and rpm combinations. It can also be equipped with hydraulic percussion hammer, and SPT options. With an hydraulic injection pump, a manipulation winch and a rod brake, it can perform all investigation techniques.

Two hydraulic jacks allow the rig's back stabilization, while the mast is raised using another jack, making the drilling operation set-up easy and fast. The control panel is mounted on a rotative support to bring it closer from the borehole.

Safeties are installed along the mast and on the control panel to stop both rotation and translation in case of need, offering a high security level.



Mobile control panel



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PRO 450PU

Technical specifications

Vehicle	4x4 pick-up Toyota LandCruiser Single cabin with reinforced suspension Aluminum skid dim. 170 x 230 cm Reinforced bumper
Power group	Diesel engine YANMAR 45 HP Gasoil tank 90 litres Hydraulic oil tank 90 litres Fixed flow hydraulic pump Hydraulic control Danfoss PVG 32
Skid	Mechanically welded steel skid 2 hydraulic stabilization jacks Rod rack on the side
Rotation	2 hydraulic motors OMT 160 - Max. torque : 0 to 180 daNm - Max. speed : 0 to 280 rpm Option : V15 rotation head - Max. torque : 0 to 280 daNm - Max. speed : 0 to 480 rpm Air/water injection swivel with 2"3/8 API Reg connection
Rod brake	Option : rod brake, opening 170 mm Auger guide
Mast	Total length : 280 cm (useful 190 cm) Translation with hydraulic motor and chain Pull-up : 2500 kg Thrust : 1500 kg Max. drilling diameter : 160 mm
Options	Water injection pump 80 l/min – 40 Bar Manipulation winch 500 kg capacity Hydraulic percussion hammer



Back stabilization



Control panel