



# GEOTECHNICAL RIG

## Pro700



The Pro700 is a powerful and versatile geotechnical drilling rig (70 HP -51.7 kW - engine), mounted on self-propelled rubber tracks, dedicated to geotechnical and environmental investigation. All techniques are available: wash boring, augering, percussion, and coring (conventional and wireline), down to 80 to 100 meters.

With a simple and robust design, the rig is easy to maintain and will be operated in the most difficult job conditions. Very handy with its tracks and low skid, it can easily be used on uneven ground. Moving the rig on site is performed with a radio remote controller.

Equipped with a variable displacement rotation head, it offers a torque up to 355 daNm and a rotation speed up to 600 rpm.

Its high-level equipment includes 4 hydraulic stabilization feet, sliding of the head with a jack, a mast advance system with 500mm stroke, a top mounted injection swivel, a lateral rod rack, an hydraulic rod clamp with 180 mm opening, and a water/mud injection pump.

The mast is raised in vertical position using another hydraulic jack, and has a useful stroke of 2.55 meters, allowing to use 2.0 m long rods.

Other optional equipment is available:

- Screw type injection pump
- Double break-out rod clamp
- Top percussion hammer
- Wireline winch
- Longer mast for 3.0 m long rods
- Heavy duty tracks
- Semi or fully automatic SPT hammer
- Radio remote control for displacement

The Pro700 rig is equipped with safety emergency stop buttons on the control panel and on the remote. It can be equipped with a protection cage.



*Double rod clamp with casing extraction jacks*

*Triplex injection pump*







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### Technical specifications

<b>Chassis</b>	Welded steel skid with a self-propelled track 1500mm wide and 1930mm long. 4 hydraulic stabilization feet, side rod rack integrated Displacement with radio remote controller and on the control panel	
<b>Engine</b>	Diesel engine YANMAR 70 HP (51.7 kW) Air cooling system Gasoil tank 68 litres Hydraulic oil tank 110 litres Triple hydraulic pump Hydraulic oil cooler	 <p><i>Winch and mast bracket</i></p>
<b>Rotation head</b>	Torque: 70 to 355 daNm (mkg) Rotation: 120 to 600 rpm Air/water injection swivel Translation by motor and double chain Hydraulic lateral sliding of 200mm	
<b>Mast</b>	Useful stroke 2550 mm (option 3500mm) Total height (mast raised) = 5200mm Raising by hydraulic jack Thrust and pull-out capacity = 2800kg (28 kN) Vertical mast advance 500mm Single rod clamp opening 220mm Manipulation winch with capacity 1000kg	 <p><i>Automatic SPT</i></p>
<b>Safety</b>	Emergency stop on remote controller and on control panel. Protection cage on request	
<b>Options</b>	Double break-out rod clamp opening 220mm Top hydraulic hammer for rotary-percussion Triplex or screw injection pump. Casing extraction system (12 tons) Automatic SPT hammer 2 speeds manipulation and wireline winch	

**Total Mass:** 3500 to 4000 kg (following options)

