

MRZB Micro Drilling Rig



The **MRZB Micro Drilling Rig** is a fully hydraulic, dynamic micro geo-environmental drilling rig with all terrain caterpillar tracks.

Ideal and extremely flexible for use in difficult terrain and confined spaces

The basic machine is made of a support frame with an hydraulically adjustable folding mast, chassis and control unit. Aside from the standard features, common to most small geo-environmental drilling rigs the MRZB has some unique attributes:

- Propane Gas option so that it can be used inside buildings.
- Interchangeable Drop Weights or Percussion Hammer so the most appropriate insertion solution is available to match soil conditions :- liner sampling with or without casing, window sampling and soil penetration testing.
- Hydraulic lifting device allows for 21 ton lift. In real terms this means that in some soil conditions deeper drilling is possible where otherwise retrieval might not be possible with mast extraction only capability.
- Small dimensions, light weight and adjustable track width make it very easy to transport on a small trailer or a transit-sized van and allows it to be used in confined spaces.

Options

- Width adjustable hydraulic caterpillar tracks, from 750 to 1050 mm, meaning a nice broad working platform yet flexible for difficult to access areas.
- Choice of two hydraulic percussion hammers. Energy 111 or 86 Joule.
- Choice of hydraulic extractors with lifting capacity of 14 or 21 tons.
- Automatic switch for hydraulic extractor.
- Exceptionally quiet exhaust for Honda GX390.
- Vise: clamping range 10- 114mm.
- Hydraulic drill rod clamp.
- A propane/petrol switch-over valve can be fitted as an option on the Honda Petrol Engine.
- Two cylinder, water cooled Perkins 14HP diesel engine.
- Choice of 2 masts with either 50kg or 63.5 kg weights for dynamic probing or casing/liner insertion. The shorter mast has a drop distance of 500cm and the longer mast 750mm.

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Specifications

- Dimensions (in transport position):
 - Height: 1400 mm
 - Width: 800 mm
 - Length: 2100 mm
- Maximum speed: 3.5 km/h.
- Minimum track width: 78cm.
- Maximum working pressure: 180 bar-42 l/min.
- Oil tank: approximately 20 L with thermostatically-regulated oil cooler.
- Additional oil cooler for hot climates.
- Two extra hydraulic outlets for hydraulic rod extractor and hydraulic hammer.
- Emergency stop button.
- 12v outlet.
- Weight: approximately 900kg complete with small mast, oil and 50 kg weights for dynamic probing. Approximately 1100 kg with Perkins diesel option.
- Basic Colour: slate grey (RAL 7015), other colours available on request.

