**VE-MOG RRV Drilling System**

### Weight
- 13,800kg

### Dimensions
- 6.2m long x 2.45m Wide x 3.8m High (Road Transport Mode).
- 6.2m long x 2.45m Wide x 3.2m High (Rail In-Gauge Transport Mode).

### Drilling Capabilities
- Dynamic Sampling up to 250mm Diameter.
- Rotary Coring including Geobore S Wireline.
- Rotary Open Holing (Air, Air/Mist and Water Flush).

### Drill Depth
- To 60m.

### Insitu Testing
- SPT, UT100 and Piston.

### Installation
- Ground Water/Gas Monitoring Wells, Piezometers.
- Extensometers, Earthing Rods and Specialist Instruments.

### Site Conditions
- Road, Rail, Airports and Off-Road Applications.

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The VE-MOG Road Rail Vehicle (RRV) and associated RRV trailer is a self contained drilling system which can mobilise to site on road, manoeuvre onto the rail at the Road Rail Access Point (RRAP) and travel along the rail to the drilling position. Once at the drill site, the mast can articulate to enable drilling off the rear (into the 4 foot) or off either side of the vehicle (into the cess or the 6 foot) with a reach of up to 1.2m off the sleeper end.

The drilling rig has a dual head system capable of both dynamic sampling and rotary drilling. Either rotary open holing or coring is possible to depths in excess of 60m below ground level. The on-board winch enables the boreholes to be cased through superficial deposits to keep the borehole open and to undertake Standard Penetration Tests (SPT) or to recover undisturbed samples (UT100). With the associated RRV trailer the VE-MOG can mobilise either a compressor for air or air/mist flush or a water pump for water flush drilling together with rods, tooling and associated equipment.

The major benefits of the VE-MOG RRV drilling system are:

- Reduced mobilisation costs to site and between RRAP’s.
- Self-contained and not reliant on other RRV and plant resources.
- Can be setup swiftly and so maximising limited possession times.
- Enables information to be obtained to a greater depth more efficiently and economically.
- The ability to drill beyond anticipated pile founding depths reduces the risk related to pile design and pile installation difficulties.
- Removes the requirement of lifting plant and equipment on and off trailers.

The unique design enables the VE-MOG rig to be used both in the rail environment and also in the on and off-road environments owing to its 4x4 capabilities. This allows greater utilisation of the resource with the potential of working on rail during possessions and then off rail during normal working hours.