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CC
CC Ground Investigations Ltd

- Home
- Fieldwork Services
  - Fraste Multidrill ML Drilling Rig
  - Comacchio MC300 Drilling Rig
  - Terrier Drilling Rig
  - Window Sampling
  - Concrete Coring
  - Cable Percussive Drilling
- Technical Services
- Rail
- Contact Us

Comacchio MC300 Drilling Rig

- Overview
- Dynamic Sampling (Soils)
- Rotary Coring
- Augering - Hollow Stem/Solid Stem
- Open Hole Drilling
- Concrete Coring
- Technical Specifications

Overview

The Comacchio MC300 is a multi purpose track mounted drilling rig used for geotechnical and geo-environmental investigations. The capability and versatility of the MC300 means the rig can cope with all ground conditions. The ability to switch between drilling techniques such as dynamic soil sampling, augering, rotary coring and open hole drilling means that all soils, hard strata and made ground can be penetrated.

The 2.85 ton rig is designed to be able to drill through all soil and rock types using a range of drilling techniques. The MC300 is capable of drilling to depths in the order of 50m. In-situ standard penetration testing (SPT) and undisturbed sampling (70mm U70) can be undertaken whilst drilling. On completion a wide range of monitoring instrumentation can be installed in the boreholes.

The MC300 is transported to site on a trailer towed by a Land Rover. Ancillary equipment and materials are transported in a dedicated support vehicle.

The rig is mounted on rubber tracks and is easily manoeuvred around site, coping with a variety of terrain. The rig is easily set up at borehole positions and can be operational within minutes.
▲ back to top

Dynamic Sampling (Soils)

For drilling in soils the MC300 employs a dynamic sampling technique. Fully lined sample barrels are driven into the ground with a high frequency hydraulic hammer. This process is suitable in all soil types and produces high quality fully lined samples. Temporary casing can be used as drilling proceeds to support unstable ground.
▲ back to top

Rotary Coring

The MC300 has a top drive rotary head that is geared to allow high rotation speed for coring rock and hard strata. Thin wall double tube core barrels incorporating a plastic liner are used to retrieve cores up to 123mm diameter. The MC300 can use water, air or polymer flush as required. The ability of the MC300 to soil sample