

Technical Data – Rotary Boreholes



Southern Testing operate rotary drilling rigs with a full range of tooling, enabling us to conduct ground investigation drilling insitu testing and sampling, together with installation of instrumentation in most geological conditions. Alongside a conventional rotary head, our Comacchio rigs are mounted with a powerful impact hammer which can advance windowless sample barrels, with casing if required, through unconsolidated and weak cohesive soils. This allows us to obtain a complete soil profile, retained in rigid clear plastic liner tubes.

We can then follow on with a conventional rotary drilling technique to advance the borehole through harder materials such as dense clays & rock.

In harder, more dense or cohesive materials, we carry a full range of solutions. These include methodologies which do not require flush (for environmentally sensitive projects) as well as a full range of air-mist and water flushed systems for hard rock.

We offer Shelby and piston sampling of soils to ensure that high quality undisturbed samples may be taken throughout the drilling process. We also field calibrated Standard Penetration Testing (SPT) hammers with our rigs to allow SPT testing to be conducted during progression of the borehole. Capabilities include:

- Windowless Sampling
- Hollow Stem (with sampling/installation) & Solid stem Auger
- Open Hole Drilling using Down The Hole Hammers (DTHH) from Ø 80mm (3") – 200mm (8")
- Symmetrix Simultaneously cased DTHH System Ø 150mm (6")
- Rotary Coring with air-mist or recirculated water flush. Core from Ø 75mm to 110mm
- Flushed open hole drilling (dragbit, claw, rockroller and PDC cutter types) Ø 80mm to 200mm
- Undisturbed Shelby and Piston Sampling (Class 1 & 2)

Comacchio Geo205

Fuel	Diesel
Gross weight excluding tools (kg)	2600
Travelling dimensions – length (mm)	4500
width (mm)	1200
height (mm)	2100
Operating dimensions – length(mm)	4500
width (mm)	2000
height (mm)	4500

Note: All dimensions are approximate and should be checked prior to mobilisation to site

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