

OVERVIEW

The rubber-track crawler mounted Comacchio GEO405 is a compact, yet relatively high capacity rig. It is capable of carrying out a wide range of testing and sampling in deep geotechnical investigations. The rig is well suited to poor access conditions, including restricted width and softer subgrades.

CAPABILITIES

Drilling

- Solid flight augering to 15 m
- Hollow flight augering to 20 m
- 100mm Ø wash boring to 100 m
- ODEX (HW size) to 15 m
- NMLC coring to 70 m
- NQ wireline coring to 350 m.
- HQ wireline coring to 250 m

Sampling

- Undisturbed (U₅₀, U₆₃, U₇₅)
- Piston
- Well installation

In-situ testing

- Standard penetration (SPT)
- Packer (Lugeon)
- Shear vane
- Pressuremeter
- Cone Penetration (CPT) to 4.5 t thrust

OTHER FEATURES

- Relatively narrow width
- Low height
- 300 m wireline winch
- Dump mast for angle drilling up to 45°
- Integral slinging points for craneage purposes
- Triplex pump (120L/min @30 bar) and progressive cavity pump (200L/ min @12 bar)
- Double hydraulic "make and break" clamps

SAFETY

- · Remote control tramming
- Safety cage with rotation isolation
- Dual pole battery isolation
- Rig engine "watchdog" autoshutdown
- Control panel and side mounted emergency stops
- Guarded automatic SPT
- Spill kit, first aid kit and fire extinguishers

BENEFITS

- High capacity and versatile rig, suitable for deep geotechnical investigations in poor access conditions.
- Rubber tracks allow use on pavements or weak subgrades.
- Modern and powerful beaver-tail truck allows for efficient mobilisation to regional areas.
- 4x4 support truck allows equipment to be transported close to rig.



RIG SUMMARY

DIMENSIONS

Width: 1.5 m to 1.7 m

Length, mast down: 6.2 m length, mast up: 4.5 m

Weight: 7 t

Height, full mast, (w/foot): (6 m pull)

Height, standard 6.5 m

mast, (w/foot): (3 m pull)

Height, mast down:

Work area length: 12 m (minimum)

RIG SPECIFICATIONS

2.9 m

Engine: 4 cyl Kubota

Rotary drive: Comacchio 8 sp

40 to 980 rpm

Winch lines: 1 main @ 2000 kg

2 w/line @ 500 kg

Pull down: 4500 kg
Pull back: 6500 kg
Head stroke: 3.5 m
Mast dump stroke: 0.7 m

Casing clamp: Double make and

Breakout spanner: break

Jack legs: Four (0.6 m stroke)

CARRIER TRUCK SPECIFICATIONS

Make/Model: Isuzu FVY 1400 6x4
Wheels: Steel, tubeless tyres

SUPPORT TRUCK SPECIFICATIONS

Make/Model: Isuzu/NPS75 4x4
Wheels: Steel, tubeless tyres

