

GROUND TEST

TECHNICAL SPECIFICATIONS

COMACCHIO GEO205



OVERVIEW

The rubber-track crawler mounted Comacchio GEO205 is a super-compact, yet relatively high capacity rig. It is capable of carrying out a wide range of testing and sampling in moderately deep geotechnical investigations. The rig is a tight access specialist, offering a low mast option and narrow footprint.

CAPABILITIES

Drilling

- Solid flight augering to 15 m
- Hollow flight augering to 15 m
- 100 mm Ø wash boring to 60 m
- ODEX (HW size) to 15 m
- NMLC coring to 70 m
- NQ wireline coring to 200 m
- HQ wireline coring to 120 m

Sampling

- Undisturbed (U_{50} , U_{63} , U_{75})
- Piston
- Well installation

In-situ testing

- Standard penetration (SPT)
- Packer (Lugeon)
- Shear vane
- Pressuremeter
- Cone penetration (CPT) to 2.5 t thrust

OTHER FEATURES

- Dump mast for angle drilling up to 45°
- Integral slinging points for craneage purposes
- Radial diaphragm pump
- Hydraulic “make and break” clamps
- Casing extraction cylinders

SAFETY

- Full remote control operation
- Safety cage with rotation isolation
- Dual pole battery isolation

- Rig engine “watchdog” auto-shutdown
- Control panel and side mounted emergency stops
- Guarded automatic SPT
- Spill kit, first aid kit and fire extinguishers

BENEFITS

- High capacity and very compact rig, suitable for moderately deep geotechnical investigations in tight 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:	1.2m (minimum)
Length, mast up:	4.4m
Length, mast down:	4.1 m
Weight:	3.0t / 3.3t
Height, full mast:	4.3 m (w/-winch)
Height, short mast:	3.1 m (w/ winch)
Height, short mast:	2.45 m (w/o winch)
Height, mast down:	2.22 m (w/ cage)
Work area length:	9.8 m long

RIG SPECIFICATIONS

Engine:	4 cyl Kubota
Rotary drive:	Comacchio 4 sp 50 to 700 rpm
Winch lines:	1 main @ 1000 kg, 1 w/line @ 800 kg
Pull down:	2500 kg
Pull back:	2500 kg
Casing extraction:	6800 kg
Head stroke:	1.05 m / 2.45 m
Mast dump stroke:	0.6 m
Casing clamp:	Double make and break
Breakout spanner:	Double make and break
Jack legs:	Four (0.6 m stroke)

CARRIER TRUCK SPECIFICATIONS

Make/Model:	Hino FE1426 4x2
GVM:	14.0 t

SUPPORT TRUCK SPECIFICATIONS

Make/Model:	Hino 817 4x4
GVM:	7.5 t

