GROUND TEST

TECHNICAL SPECIFICATIONS
SCOUT 1

OVERVIEW

Scout 1 is a Hydrapower Scout rig mounted on a two wheel drive Hino FC carrier truck. This manoeuvrable and compact rig is capable of carrying out a wide range of testing and sampling in moderately deep geotechnical investigations.

CAPABILITIES

Drilling
- Solid flight augering to 15 m
- 100mm Ø wash boring to 70 m
- ODEX (HW size) to 15 m
- NMLC coring to 60 m
- NQ wireline coring to 150 m
- HQ wireline coring to 100 m

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

In-situ testing
- Standard penetration (SPT)
- Packer (Lugeon)
- Shear vane
- Pressuremeter

OTHER FEATURES
- Very compact truck mounted rig
- Silenced power pack for quiet operation
- Mast can be split in transport position, allowing access to 2.8 m height with removal of exhaust pipe
- Mast can remain split for drilling, allowing rig to work at 5.9 m height
- Locking rear differential
- Hydraulic casing clamp/breakout spanner

SAFETY
- Safety cage with rotation isolation
- Dual pole battery isolation for rig and carrier truck
- Control panel mounted emergency stop
- Reverse alarm + reverse camera
- Spill kit, first aid kit and fire extinguisher

BENEFITS
- The compact size of Scout 1 makes it well suited to geotechnical investigations on tight sites
- Efficient mobilisation in metropolitan areas

RIG SUMMARY

DIMENSIONS	
Width:	2.4 m (excl mirrors)
Length, mast up:	6.7 m
Length, mast down:	8.3 m
Weight:	7.5 t
Height, mast up:	8.9 m
Height, mast split:	5.9 m
Height, mast down:	3.1 m (2.8 m split)
Work area length:	15 m

RIG SPECIFICATIONS	
Engine:	4 cyl Hatz
Rotary drive:	Hydrapower 2 sp 150 rpm + 750 rpm
Winch lines:	1 main @ 4000 kg 2 w/line @ 700 kg
Pull down:	3500 kg
Pull back:	5500 kg
Head stroke:	3.5 m
Mast dump stroke:	N/A
Casing clamp:	Fixed, hydraulic
Breakout spanner:	Hydraulic Stilson
Jack legs:	Four (0.9 m stroke)

CARRIER TRUCK SPECIFICATIONS	
Make/Model:	Hino/FB 4x2
Wheels:	Steel, tubed tyres

SUPPORT TRUCK SPECIFICATIONS	
Make/Model:	Isuzu/NPR200 4x
Wheels:	Steel, tubeless tyres