

GROUND TEST

TECHNICAL SPECIFICATIONS SCOUT 3



OVERVIEW

Scout 3 is a Hydrapower Scout rig mounted on a four wheel drive Isuzu FTS750 carrier truck. This manoeuvrable and versatile 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
- Hollow flight augering to 20 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
- Cone penetration (CPT) to 4 t thrust

OTHER FEATURES

- Excellent weight distribution and gradeability
- Steep approach and departure angles due to short front and rear overhangs
- Silenced power pack for quiet operation
- Mast can be split in transport position, allowing access to 3.2 m height with removal of exhaust pipe
- 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
- Spill kit, first aid kit and fire extinguisher

BENEFITS

- The versatility of Scout 3 makes it well suited to geotechnical investigations in difficult terrain
- Minimal front and rear overhangs allow rig to access sites on hilltops via poorly formed tracks and adjacent to dry creeks and rivers via ramps through beds and up banks
- Efficient mobilisation to remote/regional areas



RIG SUMMARY

DIMENSIONS

Width:	2.5 m (excl mirrors)
Length, mast up:	7.0 m
Length, mast down:	9.5 m
Weight:	12.0 t
Height, mast up:	8.9 m
Height, mast split:	N/A
Height, mast down:	3.6 m
Work area length:	13.2 m

RIG SPECIFICATIONS

Engine:	4 cyl Hatz
Rotary drive:	Hydrapower 2 sp 150 rpm + 700 rpm
Winch lines:	1 main @ 4000 kg 3 w/line @ 700 kg
Pull down:	4000 kg
Pull back:	5500 kg
Head stroke:	4.5 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:	Isuzu/FTS750 4x4
Wheels:	Steel, tubed tyres

SUPPORT TRUCK SPECIFICATIONS

Make/Model:	Isuzu/NPS300 4x4
Wheels:	Steel, tubeless tyres

