

# GROUND TEST

## TECHNICAL SPECIFICATIONS DT100



### OVERVIEW

The DT100 is a Drill Technics DT100TMP rig mounted on a four wheel drive Isuzu NPS300 carrier truck. This highly manoeuvrable and compact rig is capable of carrying out a range of testing and sampling in geotechnical investigations with difficult access conditions. It is a light rig which is fast to mobilise between sites and setup once on sites.

### CAPABILITIES

#### Drilling

- Solid flight augering to 9 m
- 100mm Ø wash boring to 30 m
- NMLC coring to 30 m
- HQ coring to 20 m

#### Sampling

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

#### In-situ testing

- Standard penetration (SPT)
- Packer (Lugeon)
- Shear vane

### OTHER FEATURES

- Compact
- Low height
- Steep approach and departure angles due to short front and rear overhangs
- Dump mast for angle drilling up to 45o
- Limited slip rear differential
- Single radial diaphragm pump
- Hydraulic casing clamp
- Hydraulic breakout spanner

### SAFETY

- Safety cage with rotation isolation
- Dual pole battery isolation

- Control panel mounted and front right jack leg mounted emergency stops
- Spill kit, first aid kit and fire extinguisher

### BENEFITS

- Compact rig well suited to small geotechnical investigations on highly developed or restricted access sites (such as narrow driveways, overhanging trees or structures etc.)
- Excellent weight distribution and minimal front and rear overhangs allows rig to access difficult sites
- Modern and compact 4x4 carrier truck provides quick mobilisation in metropolitan and regional areas



## RIG SUMMARY

### DIMENSIONS

Width:	2.5 m (excl mirrors)
Length, mast up:	6.0 m
Length, mast down:	6.2 m
Weight:	6.0 t
Height, mast setup:	5.4 m
Height, working:	4.5 m
Height, mast down:	2.6 m
Work area length:	12.0 m

### RIG SPECIFICATIONS

Engine:	4 cyl Isuzu (truck)
Rotary drive:	Drill Technics 2 sp 325 rpm + 650 rpm
Winch lines:	1 main @ 1000 kg,
Pull down:	1500 kg
Pull back:	2700 kg
Head stroke:	2.1 m
Mast dump stroke:	1.2 m
Casing clamp:	Fixed, hydraulic
Breakout spanner:	Hydraulic Stilson
Jack legs:	Four (0.9 m stroke)

### CARRIER TRUCK SPECIFICATIONS

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

### SUPPORT TRUCK SPECIFICATIONS

Make/Model:	Isuzu/NPR200 4x2
Wheels:	Steel, tubeless tyres

