



SITE INVESTIGATION



Specifications:

Slope compensation
 Pitch 0 - 53°
 Roll + - 0 -15°

Track System:

125mm heavy duty track chain with 250-500mm single grouser
 track plates with 7 lower rollers, 2 top rollers, hardened sprocket and spring loaded front idler.

Overall track length 2500mm approx
 Track pad width 250 - 500mm
 Track centres 1250mm
 Ground clearance 250mm

Track motors:

Two speed track motors with integral braking

Max speed in low displacement 3.4kph
 Max speed in high displacement 1.7kph

Engine:

Isuzu 3LCD1 water cooled 3 cylinder diesel.
 Power 24kw (32.7hp)
 Displacement..... 1.5 litre

Hydraulics:

Open loop hydraulic system (biodegradable oil option) with sealed reservoir, 10 micron return filter, suction strainers, level gauge and pressurised filler breather.

Pumps:

Transmission - Piston pump with constant horsepower control.
 Capacity 2x17cc/rev @ 240bar

Auxiliary gear pump ..14cc/rev @ 200bar for drilling functions.

Transmission/platform/winch control valve
 Type: Sauer Danfoss PVG32 control valve

Radio Control:

Radio System c/w: transmitter, receiver, battery charger, two NiCad re-chargeable batteries.

Functions

Two proportional paddles for L/H and R/H tracks
 Two digital paddles for pitch/roll and winch in/out
 Emergency Stop and Auto Level buttons.

Winch:

7400kg Superwinch EP16.5 c/w 30m of 14mm Dyneema rope and radio control operation.

Dimensions:

Tracking width (250mm grousers)..... 1.5m
 Operational length 2.6m
 Operational height 2.9m
 Weight 2600kg

Drill Mast:

The GT53 can be fitted with a range of masts and tooling.

Tool Options:

Dando Terrier Drill Mast

Feed stroke 1.6m
 Feed force 1,000kg
 Pull back force 7,000kg

Dando Drop hammer

Two-piece Drop Hammer runs on two guide bars. The weight is fully guarded and can be quickly changed for either SPT or dynamic probing standards.

Trip Hammer Speed 0-50 blows per minute
 Trip Hammer Drop 500mm - 750mm
 Trip Hammer Weight 50kg or 63.5kg

Options:

Full working lamps 4 x 55w Halogen
 The superstructure and undercarriage hot dipped galvanised for extended life and corrosion resistance.

Hydraulic PTO 30l/min@180bar
 Rotary Concrete Boring Head

The **Geotrak GT100** soil-sampling rig is a tracked based mobile platform designed for undertaking windowless sampling and SPTs on extreme slopes such as dams or motorway and railway embankments. The working platform and drilling mast are automatically levelled in both planes to allow safe working on side slopes and steep inclines. The steel tracks, fitted with single grouser pads, achieve good ground penetration to give maximum grip on steep slopes up to 45 degrees. A 7,400kg radio controlled winch is fitted for added security on critical sites.

The **GT100** has radio control for travelling, winch operation and platform levelling override. Once in position the fold down walkways and drilling mast are deployed to give a secure level working area. All working areas are fitted with heavy-duty, GRP floor grating and guarded with removable handrails, kickboards and stanchions.

Safe operation and speed of deployment are major features of this rig. The GT100 can be transported to site on a trailer behind a suitable 4WD and with a 3.4kph travel speed it can be quickly positioned on site.

Applications :

- Standard Penetration Test (SPT)
- Dynamic probing
- Borehole formation to 15m
- Casing facility up to 8m
- Continuous dynamic sampling up to 114mm
- Installation of 19 & 50mm standpipes for gas/water monitoring
- Installation of 68mm biaxial inclinometer tubing

GT 100 SLOPE DRILLING

