

GROUND TEST

TECHNICAL SPECIFICATIONS

DT250 BOBCAT



OVERVIEW

The Bobcat rig is a Drill Technics DT250MPS rig mounted on a two tonne skid steer loader chassis. This compact, yet powerful rig is capable of carrying out a range of testing and sampling in relatively deep geotechnical investigations with very difficult access conditions. It is more compact than the DT100, but has drilling depth capacity similar to the two smaller Scout rigs.

CAPABILITIES

Drilling

- Solid flight augering to 12 m
- 100mm Ø wash boring to 60 m
- NMLC coring to 60 m
- Hardcore coring to 40 m

Sampling

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

In-situ testing

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

OTHER FEATURES

- Remote control for transport
- Remote control for drilling
- Compact and low height
- Steep approach and departure angles
- Dump mast for angle drilling up to 45°
- All-wheel drive
- Single radial diaphragm pump
- Hydraulic casing clamp/breakout spanner

SAFETY

- Safety cage with rotation isolation
- Dual pole battery isolation
- Control panel mounted and front right jack leg mounted emergency stop

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

BENEFITS

- All-wheel drive allows the DT250 to travel up/down slopes of 1V:3H, and hand winches can be used to allow safe access on steeper slopes
- The compact carrier allows access to low headroom and narrow areas (such as inside warehouses, loading docks and basements)
- The four-wheel drive carrier truck with hydraulic beaver-tail ramps provides access close to drill sites.



RIG SUMMARY

DIMENSIONS

Width:	1.82 m (1.65 w/o SPT)
Length, mast up:	3.65 m
Length, mast down:	4.65 m
Weight:	3.0 t
Height, mast setup:	4.65 m
Height, working:	4.65 m (full mast)
	4.0 m (short mast)
	3.7 m (w/o winch)
Height, mast down:	2.1 m
Work area length:	10.65 m

RIG SPECIFICATIONS

Engine:	3 cyl Kubota
Rotary drive:	Drill Technics 2sp 450 rpm + 900 rpm
Winch lines:	1 main @ 3000 kg
Pull down:	2000 kg
Pull back:	3000 kg
Head stroke:	2.0 m
Mast dump stroke:	1.0 m
Casing clamp:	Fixed, hydraulic
Breakout spanner:	Hydraulic Stilson
Jack legs:	Four (0.5 m stroke)

CARRIER TRUCK SPECIFICATIONS

Make/Model:	Isuzu/FSS400 4x4
Wheels:	Steel, tubeless tyres

SUPPORT TRUCK SPECIFICATIONS

Make/Model:	Isuzu/NPR250 4x2
Wheels:	Steel, tubeless tyres

