

# Drilling Services

## Joy 1 Drilling Rig: Technical Specifications



## Joy 1 350 Rotary Drilling Rig

Joy 1 is a powerful compact rig for rotary drilling with a variety of tools including:

- Single and double core barrel
- Solid/Hollow Stem Augers
- Down the hole hammer
- Open/cased hole drilling with air or fluids



Easy and cost effective solution for multiple Geoenvironmental and Geotechnical applications in accordance with Eurocode and British Standards including:

- Standard Penetration Tests (SPT)
- Undisturbed Shelby sampling
- Borehole Percolation tests
- Groundwater monitoring wells installation
- Ground Source Heat Pumps Installation



Hydra™ Joy 1 Rotary Drilling Rig Technical Specification			
Chassis Dimensions (with guard)		Mast and Stroke	
Length	1820 mm	Effective Stroke	1500 mm
Width	1100 mm	Pull Down / Pull Up	2000 kg
Folded Height (Carriage)	2600 mm	Operational height	3900 mm
Extensible track width	900-1500 mm	Displacement Slide	500 mm
Engine		Clamp Effective Diameter	200 mm OD max
Power Output	35 HP diesel	TR350 Rotary Drilling Head	
Noise level	80db	Drive	2 3/8 API Std Pin Down
Diaphragm Sampling Pump		Maximum Torque	350 daNm
Max Pressure O/P	40 Bar	Maximum Speed	200 rev/min