

Project Management

International

Onshore sample recovery drilling and probing campaigns with a Dando 2002 Drill Rig

Client: For Info
Location: West Africa
Period: Dry season

Type and general description

PMI operates with an ultra modern Dando Terrier Sampling and Geotechnical Rig. The rig has been designed specifically for sampling and testing for geotechnical and environmental analysis. Crawler mounted, for easy site access in the most arduous conditions, makes it extremely reliable and competitively priced.

The rig can be used for three different kinds of investigations:

- Soil Sampling & SPT's
- Dynamic probing
- Rock and Concrete coring

Soil Sampling, Probing and Standard Penetration Test (SPT)

PMI carries out soil sampling, probing and SPT to serve various disciplines in the agricultural, mining, exploration and geotechnical engineering field.

A 2-piece drop hammer runs on two guide bars. The weight is fully guarded and can quickly be changed for either SPT or Dynamic Probing standards.

Trip Hammer Speed:	0-50 blows/ min.
Trip Hammer Drop:	500mm-750mm
Trip Hammer Weight:	50kg or 63.5 kg
Pull down capacity:	1000 kg
Pull back capacity:	7000 kg

Hydraulic tilting of the undercarriage allows operation on inclined slopes



up to 30 degrees from horizontal.

A range of windowless sample tubes with plastic liners ensuring high quality samples, good presentation and ease of handling and transportation are being recovered.

Rock, Tar and Concrete Coring

The Dando Terrier can easily be converted on site into a compact multi-purpose rotary drill by replacing the Drop Weight Mast Assembly with a Rotary Mast Assembly.

It is driven by a hydraulic motor fitted with a 7:1 ratio gearbox with manual gear change providing full controlled power and rotational speeds in forward or reverse.

The machine operates in two ranges:

- High-speed, low-torque (1059Nm)
- Low-speed, high-torque (170Nm)

Core drilling is commonly used for concrete, tar or rock analysis, holes for routing cables, placing anchoring bolts, installing load carrying devices or dowel bars or if an area has to be sampled which is overlain by concrete or tarmac.

