

**State-of-the-Art, Overcome Conventional Problems**  
**NSWS Auto Sounding Machine**  
**=NETIS KK-070026=**

OKITA-KO.Co.LTD

Awarded Ground Technical Prize in April, 2009, NSWS have overcome problems which conventional boring machine and sounding machine have. NSWS can collect data and apply to more various landscapes than the conventional machines. Faster data collecting ability, more precise, more accurately collect physical properties of the ground. The conventional boring machines can collect data at the resolution of one meter; the resolution of NSWS is 10.8mm. The boring machine has a trouble accurately locating a site for collecting a thin-walled sampler; on the other hand NSWS can. This is the major reason behind Ground Technical Prize award. NSWS is the auto sounding machine, which arose from an unprecedented concept. The more details can be found from Geotechnical Engineering Magazine, September 2008 edition.

**Inclination/Perpendicular**



**【Main Features】**

- Finer resolution of data collection 10.8mm
- Calibration ability to measure Settlement speed time
- Adoption of air and oil pressure control system
- Zero Loading up to 1000N by Negative pressure loading
- Max of 2500N when drilling small gravels
- NSWS can be inclined by air or oil pressure control system
- Mechanical safety system which can handle rapid settlement
- Diagonal penetration test at the sloping land

**【Main Use, Field of Application】**

- Maintenance and management of the river embankments
- Investigation for maintenance and management of pond embankments
- Investigation for land slide, slope failure of pond and embankment
- Analysis of differential settlement area such as land for housing
- Investigation for liquefaction at the site of earthquake
- Investigation at embankment at Road, railway sites
- Investigation of waterway, hollow in the ground
- Investigation of crack in the ground at



● The Use of NSWS, Auto Sounding Machine

NSWS L500×W700×H2500 Weight about 120kg

Attachments	Details	Comments
BSP & main body	BSPφ22 L500×W700×H1700	Possible to use screw points with NSWS, it cannot break through gravels. BSP can.
Air Pressure Control Console Box	L300×W200×H150	
Measurement Control Console Box	L350×W350×H350	
A set of Cables		
A set of tools		

User' Preparation ; generator 100V ; air compressor

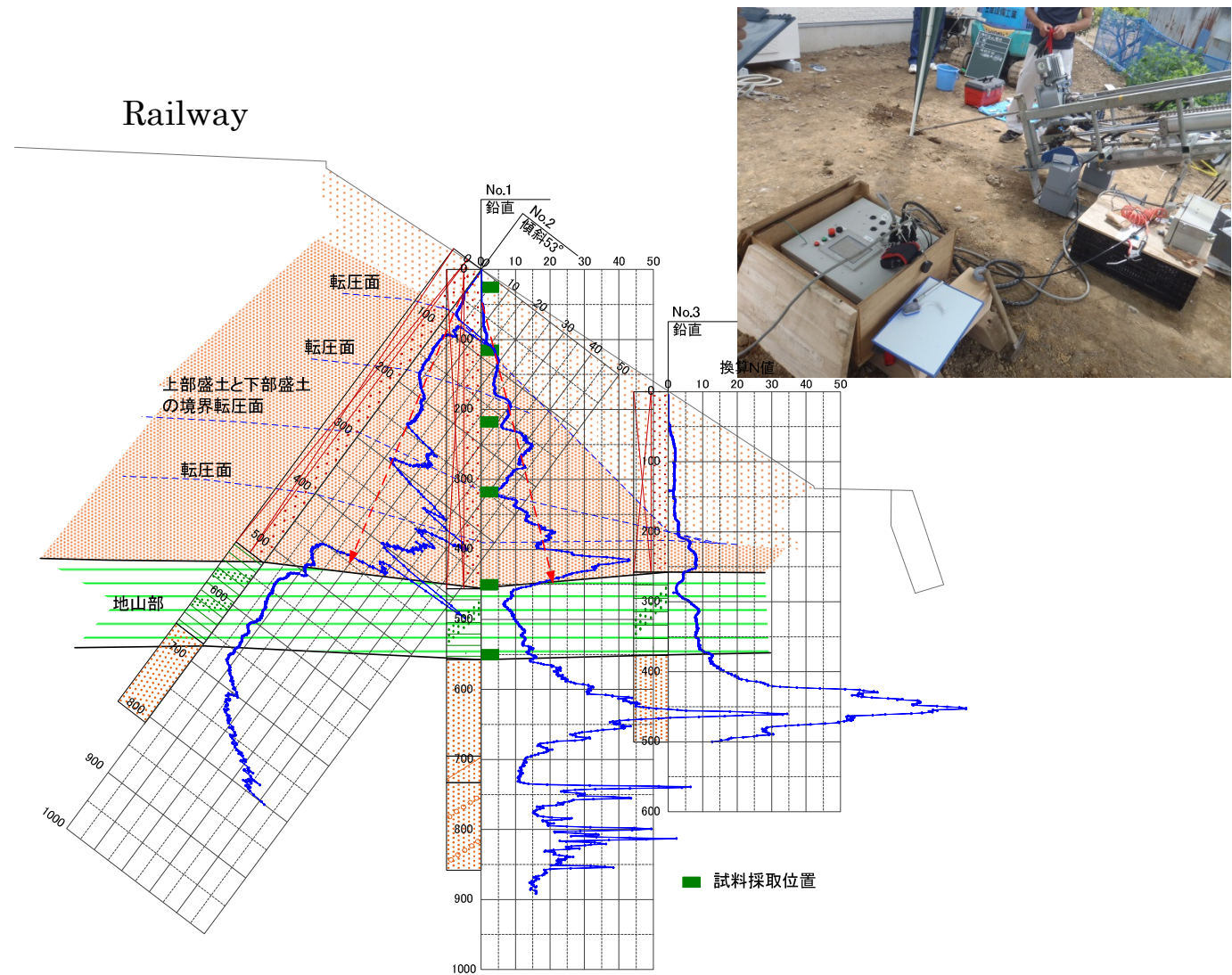


図.5 盛土A NSWS 試験機によるサウンディング試験結果横断面図

—Machine Developing Company—

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