A-TiC CORPORATION

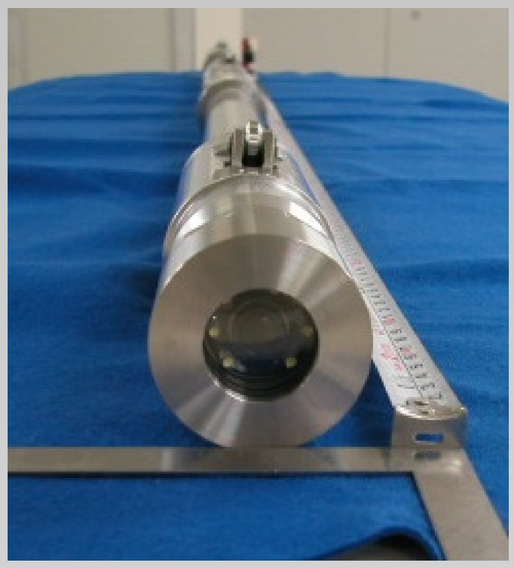
Borehole Bend Measuring System

『孔の助』
Konosuke

Isn't that hole deviation ?

Geological-Survey Boring and various duct propulsion work……
The linear information of various boring is the important factor that governs quality of construction work and construction accuracy .Improvement in accuracy of control boring has been attracting attention more and more for promoting construction safely and precisely in the future

A-TiC has developed "Konosuke", a hole deviation linear measurement system, based on the strong desire "we want to measure unknown underground hole deviation precisely!!"



Horizontal Type

Vertical Type

Geological-survey boring

- Rapid improvement in position accuracy.
- Improvement in reliability of geological analysis data.
- Reduction of influence on existing structures and proximal facilities.

Various supporting methods

Accuracy test and behavior measurement for tip receiving work in pipe roof work in tunnel excavation.

Existing pipework survey

- Highly precise localization of the existing embedded pipe.
- Safety improvement of the urban area construction.

Small diameter duct propulsion work

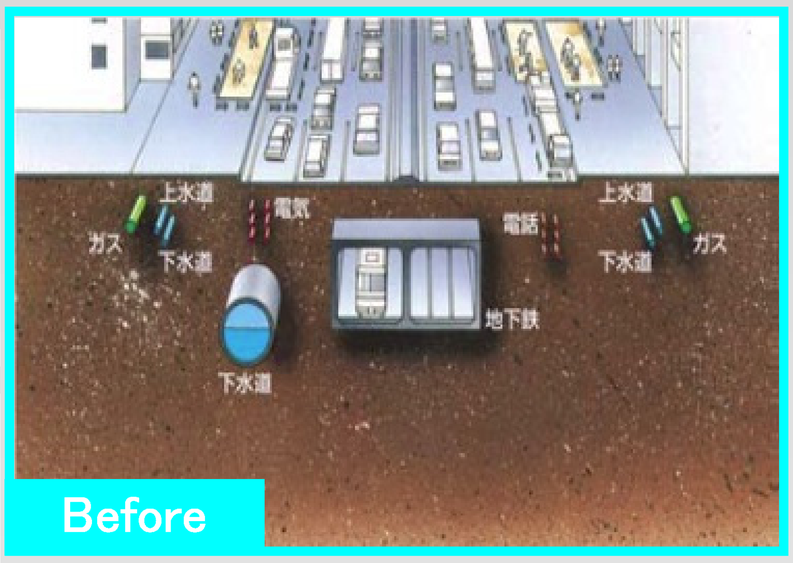
- Improvement in accuracy of curve construction in urban area construction.
- Reduction of shaft.
- Reduction of construction cost and construction period.

Weep drain and catchment boring

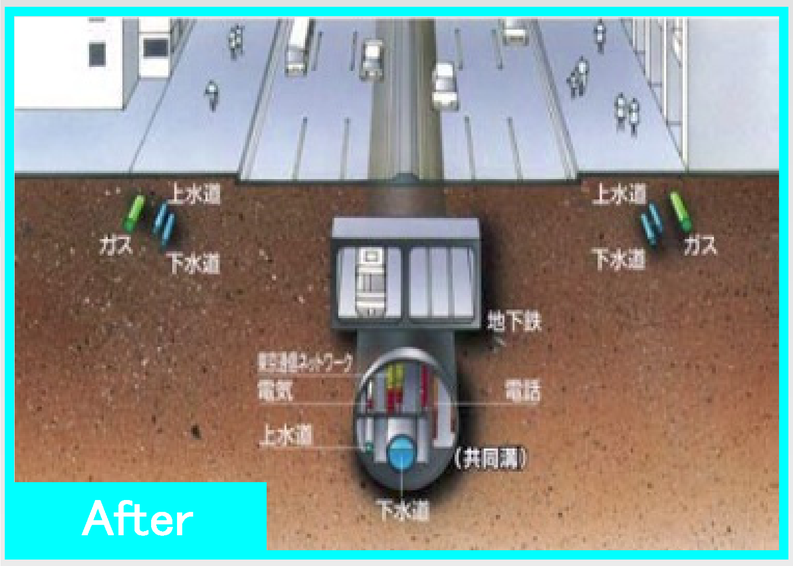
- Reliable pinpoint construction at the target point.
- Improvement in construction accuracy improvement of flowing water slope.

Pipework for Soil Improving

- Liquefaction countermeasure operation for weak ground.
- Pinpoint countermeasure construction.



Before



After

In addition to the above, A-TiC is capable of customizing for various linear measurements.

Specifications

Measuring Range	Horizontal : ±40°
	Vertical : 90° ±30°
Resolution	Inclination 0.005°
	horizontal±0.04°
Bore Diameter	Vertical : 79mm～120mm
	Horizontal : 79mm～200mm

For diameters other than the above, customization is required depending on the need from the client.

Acuracy	Vertical : 0.5～2/1000
	Horizontal : 3～5/1000
Linearity	±2%FS
Temperature	-10℃～+60℃
Water Pressure Resistance	0.3MPa
Input(V)	100V 50～60Hz