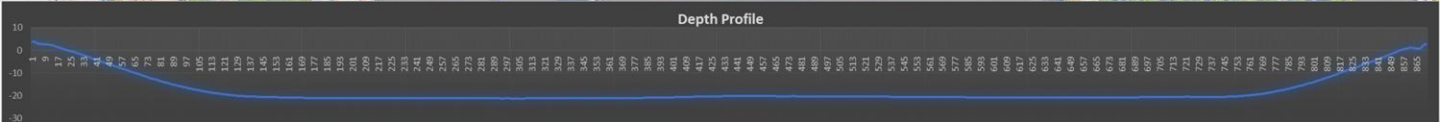
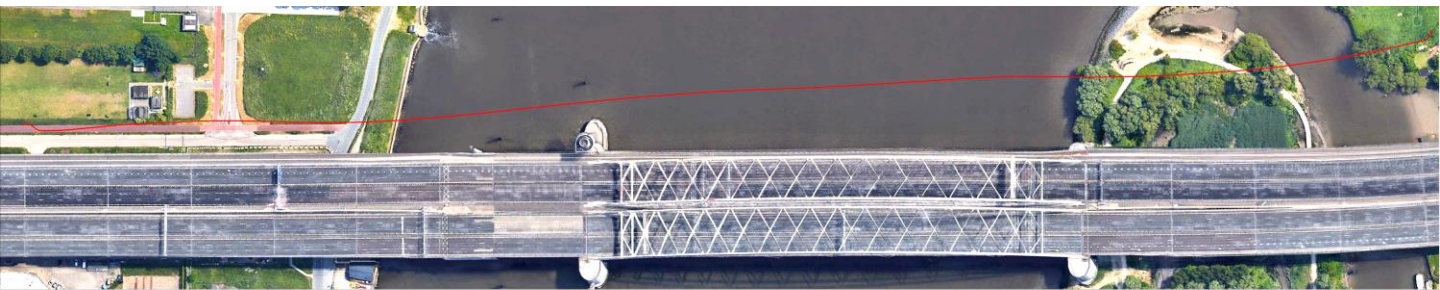


# Mapping Trenchless Installations

## Our Standard Solutions

Gyro-mapping of trenchless installations is the most efficient and reliable way to acquire accurate 3D as-built data of subsurface pipe and duct infrastructure. Our proprietary technology records changes XYZ every cm enabling accurate calculation of highly detailed bend radius and inclination data.










### 3D As-built map

Accurate as-built data is critical input for your Network Management process. Furthermore, an independently obtained as-built map is an essential part during the hand-over between utility owner and new-built contractor or dark duct seller.

### Detailed bend radius information

Gyro-mapping also provides highly detailed bend radius data, which is essential for verifying the minimum bend radius specification of newly installed pipes, as well as to estimate pulling tension on power and high fiber-count data cables.

### Common specifications across all systems

Mean travelling speed	1 m/s - 3 ft/s	Inclination range	+45° to -45°
Data logging rate	100 Hz	Maximum acceleration	5g
Operating temperature	0°C to 50°C / 32°F to 120°F	Standard Software	X-Traction and X-View
Output Compatibility	      		

### ABM-30 specifications

Probe length	±430mm/17"	Gyroscope type	MEMS
Probe outer diameter	27mm / 1.1"	Max. segment length	300m / 1000'
Probe weight	0.6kg / 1.4 lb.	Pipe ID range	29-34 mm / 1.2"- 1.4"
Max. pulling force	40kg / 90 lb.	Battery type/Autonomy	Li-ion / 4 hours



### DR-2 specifications

Probe length	±800mm/31.5"	Gyroscope type	FOG
Probe outer diameter	36mm / 1.4"	Max. segment length	Recomm.1,500m/5,000'
Probe weight	2.0kg / 4.4 lb.	Pipe ID range	40-75 mm / 1.6"- 3.0"
Max. pulling force	75kg / 165 lb.	Battery type/Autonomy	Li-ion / 5 hours



### DR-4/WUS-0320 Combo specifications

Probe length (ex. wheels)	490mm / 19.3"	Gyroscope type	FOG
Probe outer diameter	42mm / 1.7"	Max. segment length	Recomm.1,500m/5,000'
Probe weight	2.0kg / 4.4 lb.	Pipe ID range	90-500mm / 3.5"- 20.0"
Max. pulling force	150kg / 330 lb.	Battery type/Autonomy	Li-ion / 5 hours



### WU-2040 Centralizer Extension Set

Max. pulling force	150kg / 330 lb	Pipe ID range	500-1000 mm / 20"- 40"
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