

The best way to **minimize the risk of damage** to your underground asset is **knowing where it is located**



The ABM-90 and DR-4 are designed with maximum versatility in mind.

Fitted with a range of exchangeable invert or centralizing wheel sets, they provide a solution for most common utility pipes.



Take no risk, get it **mapped!**

## The **solution of choice** for sub-surface utility owners, operators, surveyors and contractors

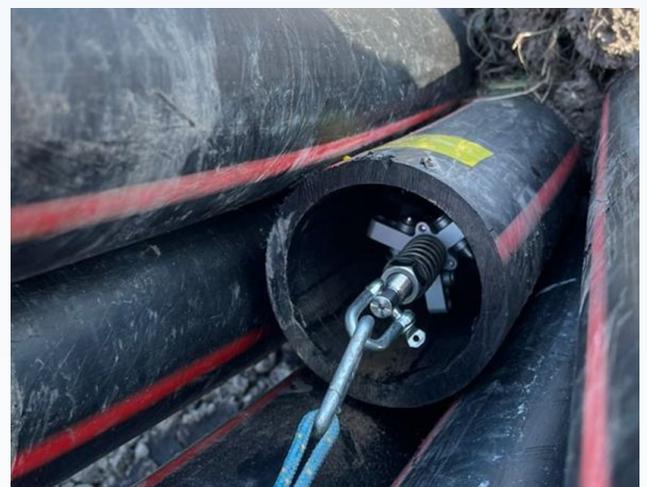
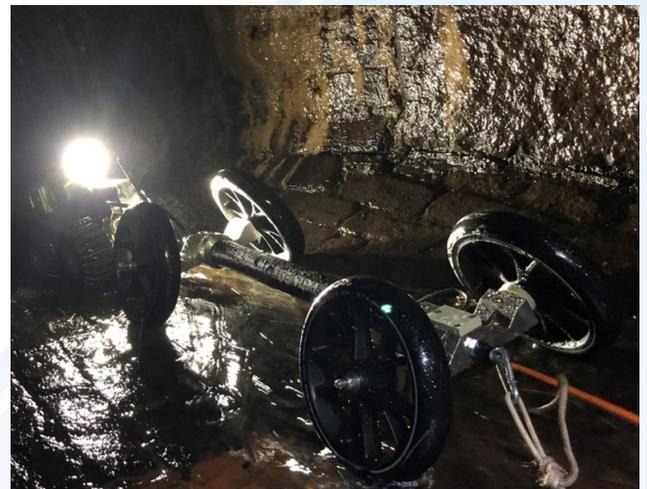
The ABM-90 and DR-4 mapping systems are the most versatile probes in the range. Exchangeable wheel sets enable the probe to map pipes and conduits starting from an ID range of 90mm / 3.5" regardless of the pipe material or utility.

-  Highly accurate
-  Easy to operate
-  Robust design
-  Waterproof
-  No electromagnetic interference
-  No tracing required
-  High frequency data logging
-  Open platform output

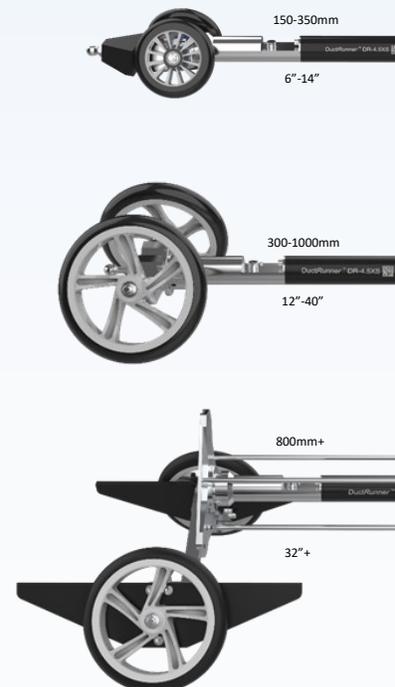
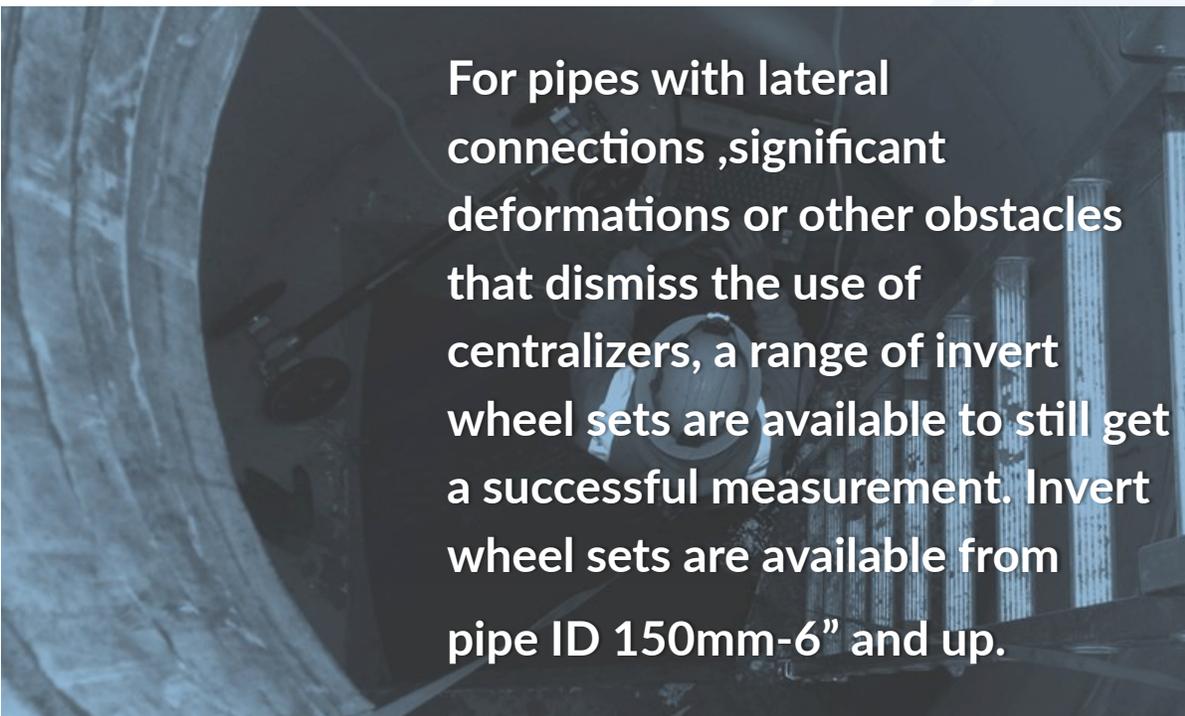
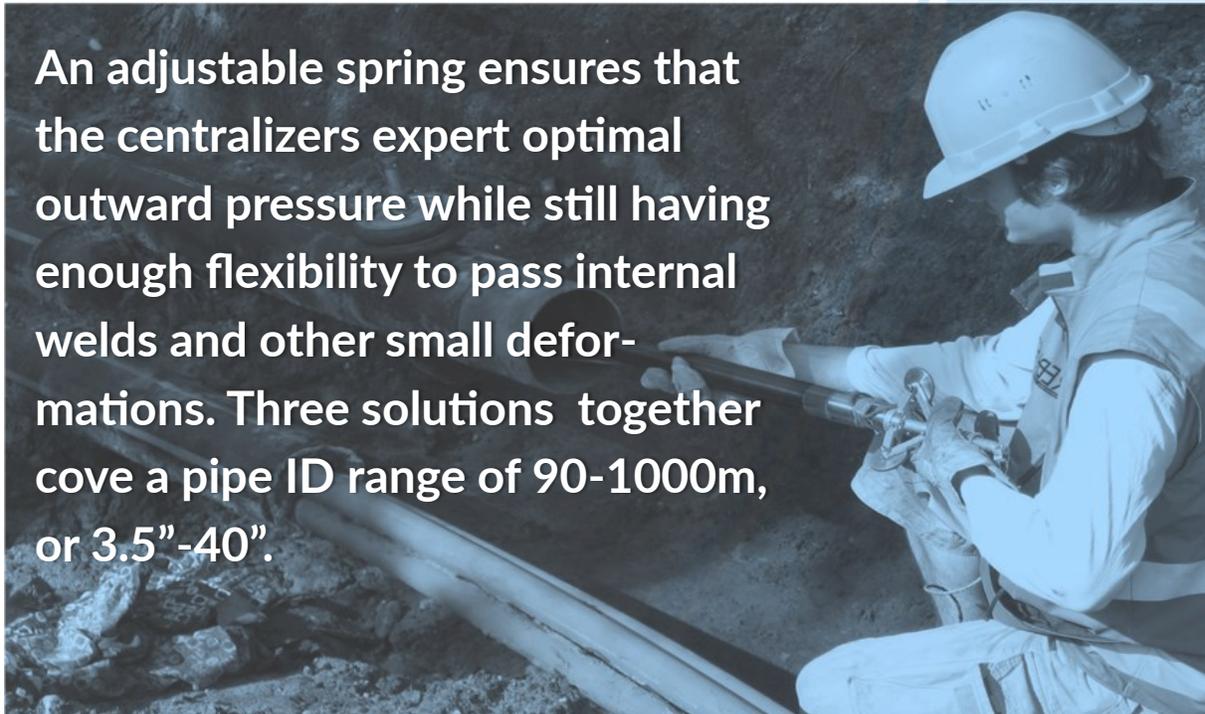
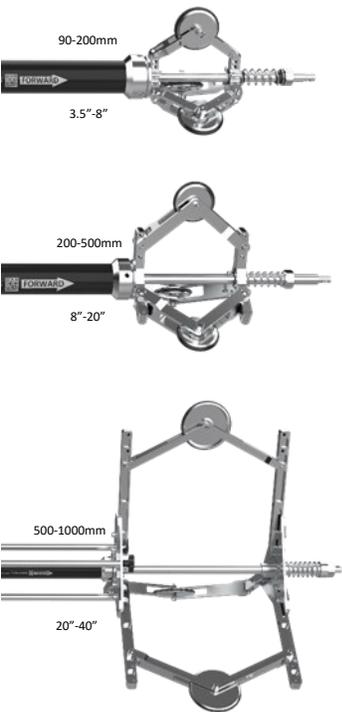
**ABM-90** MEMS-based technology for mapping segments up to 300m/1000' between waypoints.



**DR-4** FOG-based technology for mapping unlimited segment lengths (1500m/5000' waypoints spacing recommended).



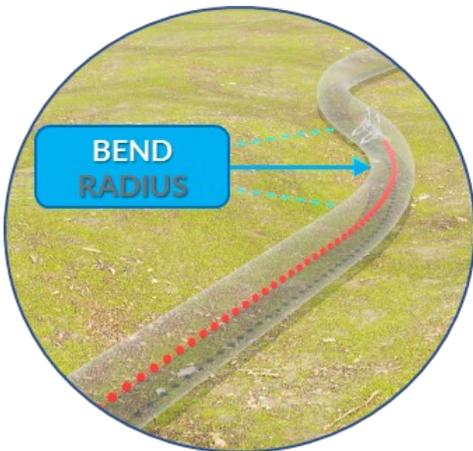
Exchangeable **centralizing** and **invert wheel sets** enable mapping a wide diameter range of utilities



## Standard **data output** serves a wide range of purposes adding specific value to each type of utility



-  Accurate as-built data
-  High-frequency points
-  User defined sampling distance
-  Objective data for contractor handover
-  Open platform output formats



-  Verifying new-built specifications
-  User defined sampling distance and calculation interval
-  Essential for pipe stress calculation
-  Essential for estimating cable pull tension



-  High-frequency grade samples
-  Accurate undulation assessment
-  Check results cable manufacturer's installation specifications

## Technical and Operational Specifications



Probe type	ABM-90	DR-4
Core technology	MEMS	Fiber Optic Gyro
Maximum segment length	300m / 1000'	1,500m / 5,000'
Data logging rate	100 Hz	
Operating temperature	0°C to 50°C / 32°F to 120°F	
Inclination range	+45° to -45°	
Probe length (ex. wheels)	490mm / 19.3"	
Probe outer diameter	42mm / 1.7"	
Probe weight	2.0kg / 4.4 lb.	
Mean travelling speed	1 m/s - 3 ft/s	
Max. pulling force	150kg / 330 lb.	
Maximum acceleration	5g	
Battery type/Autonomy	Rechargeable Li-ion / >5 hours	

Standard output compatibility (selection)



## Recommended winches for optimal mapping accuracy



**DRW-200**  
Manual winch  
Capacity 200m/660'



**DRW-312M**  
Manual winch  
Capacity 300m/1000'



**DRW-560S**  
Electric winch  
Capacity 1750m/5750'

## Reduct Academy

Get access to our virtual academy and learn how to assemble and operate the various systems, and how to process the logged data before you hit the field.

Advanced courses such as single entry method and bend radius calculation become available once you have completed the basic system courses.



## Reduct Cloud services

The Reduct Cloud Services platform offers advanced tools that facilitate management of your equipment pool and monitoring key quality and performance variables such as spread, length scaling statistics of measurement performance by operator, system, pipe type and customer.

## Central management of mapping equipment

As Administrator of the Reduct Cloud Services you can track the performance of your pool of mapping tools. The clearly structured dashboard enables you to filter data by device, operator, project and much more.

## System performance statistics

Individual mapping device statistics enable you to plan maintenance effectively and ensures the provision of highest quality service, while ensuring the longevity of your equipment.

## Field crew performance statistics

As Administrator you can review all User activities, while individual Users can review their own activities as well. In the Performance Reports section you have full oversight of User historical performance statistics. User statistics help in identifying the need for refresher and advanced training courses, most of which are offered in the Reduct Academy.

## Secure storage of encrypted data

The Reduct Cloud Services platform runs on highly secure third-party servers. Our regional server architecture is hosted by ISO27001 and ISO9001 certified partners to ensure your critical data does not leave your chosen region.

Only encrypted data required for quality assessment purposes is stored in the cloud. XYZ coordinate files are only saved to your local laptop, unless the User consents to upload it to the cloud for easier sharing and reporting.

## Contact

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