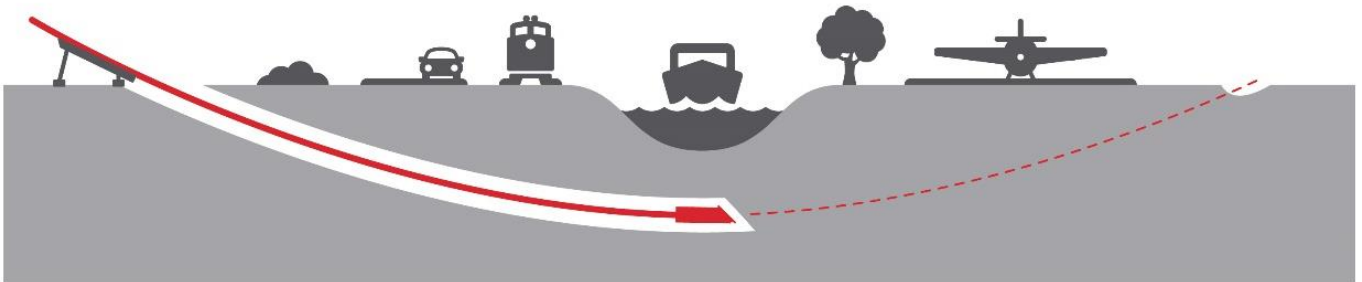




Acrobat™ Gyro Navigation System (GNS) for Horizontal Directional Drilling

Drill and navigate accurately in areas that are adversely affected by magnetism, in real-time



Being able to accurately drill in areas that are badly affected by magnetic interference requires a special instrument. AnTech's patented Acrobat™ solid-state Gyro Navigation System (GNS) has been developed specifically for this purpose.

It is unaffected by magnetism so can operate accurately in close proximity to existing metal pipelines, railways, reinforcement, pilings for example, which can disrupt the earth's magnetic field, and make magnetic steering tools inaccurate.

Originally developed for high vibration oilfield applications, the Acrobat™ Gyro can operate at any inclination, any azimuth and any latitude. It can also be used with or without drilling motors.

Features & Benefits

- Unaffected by magnetic interference
- Any attitude operation
- Field proven –robust and reliable
- Short overall length – tight radius drilling
- Real-time, instant feedback by wireline
- Remote reporting to your phone or tablet

Applications

- High magnetic interference areas
- Urban areas
- Tight bend radius
- High vibration environments

DC- 00668/0418

Specifications	Parameter	Rating	
Mechanical	OD	127mm (5")	
	Flow Thru	Min flow area: 12.31cm ² (1.92sq. in.)	
		Min radial clearance: 5.3mm (0.21")	
	Top Connection	3-1/2" IF Box (Customer specific)	
	Bottom Connection	3-1/2" IF Pin (Customer specific)	
	Temperature	-40°C to 85°C (-40°F to 185°F)	
	Length	1.57m (61.8") make-up length	
	Downhole Cable	Single conductor	
	Pressure	110 Bar (1600 psi)	
	Tensile Load	>45kN (10,000 lbf)	
	Compressive Load	>45kN (10,000 lbf)	
	Torsional Load	>1400Nm (1,000 ft.lbf)	
	Maximum Bend Radius	75m (246')	
	Peak Shock	60g _n	
	Vibration	11g _n	
	Maximum Wireline Depth	650m (710yds)	
	Gross Weight	110kg (243lbs) approx	
Electrical	Voltage	110/220-240V	
	Current	1.5A	
	Frequency	50/60 Hz	
Sensors (Accuracy, Resolution)	Azimuth	+/- 0.33°	0.1°
	Inclination	+/- 0.1°	0.1°
	Toolface	+/- 0.33°	0.1°
	Internal Temperature	+/- 0.2°C between 0°C to 85°C (32°F to 185°F)	0.1°C