



Mining - Geotechnical  
Sale - Rental

# DeviFlex Auto-Rotate

Non-Magnetic instrument

**DeviFlex Auto-Rotate** is the latest innovation adding significant value to the highly successful **DeviFlex** survey instrument.

**DeviFlex Auto-Rotate** now rotates at a constant rate as it descends and ascends the drill pipe in 3 or 4m survey increments.

Survey accuracy is increased by eliminating bias errors and survey time is reduced by more than 50%.

This non-magnetic strain gauge survey tool is not affected by magnetics making it ideal for in-rod surveying, eliminating the guess-work associated with magnetic single/multishot survey instruments.



## Applications

- Underground Diamond Drilling Wireline, Pump down or conventional
- Surface Diamond Drilling - Wireline
- Pilot holes
- Exploration
- Grade Control
- Resource Definition
- Geotechnical Investigation
- Suits BWL, LTK60, NWL, HWL, PWL rods
- Dip Range (+85° to -85°)

## Benefits

- Improved driller safety
- No rod rotation required
- Inrod surveying – not affected by magnetics
- Pause mid survey for up to 12 hours
- No time limit between stations
- 3 monthly battery recharge (400 hrs use)
- More cost effective and robust than gyro instruments
- Highly robust and reliable
- Simple and intuitive software
- Improved accuracy
- Zero drift over time
- Backed by the unbeatable Devico Repair Guarantee: [www.devico.com/warranty](http://www.devico.com/warranty)

[devico.com](http://devico.com)

# DeviFlex Auto-Rotate

The **DeviFlex Auto-Rotate** is a non-magnetic, memory, reference, survey instrument consisting of two 2m (6.5') long components that can be assembled at the drill rig (the clamp is DHS equipment). The lower section is hollow and is positioned over the centrally located strain gauges.

Three specially designed centralizers are fitted at 0m, 2m (6.5') and 4m (13') along the length of the tool, each centralizer fits comfortably inside the drill rod, held in position by two strong springs. The centralizers are designed to rotate the **DeviFlex Auto-Rotate** creating a helical path. In and Out runs may be performed for improved accuracy and the tool is robust enough to be pumped in, seated and retrieved via a rod pull survey or wireline.

## Extra Long Life Battery

The 400 hour battery life means the **DeviFlex Auto-Rotate** can be paused mid survey for a shift change or blast evacuation and continued up to 12 hours later with no loss of data.

## PDA

A Nomad PDA is used to initialise, activate and display results, and store survey data from the **DeviFlex Auto-Rotate**. A USB to Lemo connector communicates between the PDA and **DeviFlex Auto-Rotate**, eliminating the problems often associated with wireless or Bluetooth communications. The Nomad PDA has a long life rechargeable battery and is IP67 rated.

## Processing Software

**DeviSoft Mobile** is a PDA driven software consistent across all Devico products, and is intuitive and simple to navigate. Data points can be reviewed and verified at the drill site with a plot showing position.

## Data Transfer

Export csv data files via USB stick.

## DeviSight Collar Reference

The **DeviSight** is recommended for surface collar reference direction.

## Depth Measurement

Wireline surveys require a downhole depth counter, to accurately measure the wireline depth. Devico can supply some options.

## Warranty

On all Devico survey instruments purchased from Devico or its licensed resellers, Devico includes one (1) year manufacturer warranty and a two (2) years repair guarantee from date of purchase. The Repair Guarantee covers circumstances where the Product Warranty is not valid, or has expired.

The Repair Guarantee limits any repair costs of the survey instrument, see terms and conditions at [www.devico.com/warranty](http://www.devico.com/warranty)

## Maintenance

Unlike other non-magnetic instruments, DeviFlex requires very little maintenance and repair. The centralizers do require routine cleaning as they are a critical component of the **DeviFlex Auto-Rotate**.

## Limitations

**DeviFlex Auto-Rotate** is not designed for vertical holes as there is no reference azimuth in the vertical plane. For azimuth data in vertical holes a special survey procedure must be followed.

## Technical Specifications

### Survey tool

Weight	20kg/44lbs
Diameter	40mm/1.57"
Length	4000mm/13.1ft
Magnetic	No
Running gear	Integrated
Auto-Rotate	~90°/4m
Inclination accuracy	±0.2°
Direction accuracy	±0.01° per station
Tool face accuracy	±0.2°
Inclination range	+90 to -90°
Temp range	-15° to 75°C (5° to 167°F)
Battery life	400hrs
Pressure	300bar/4350psi
Survey Accuracy	0.3%

### PDA

Type	Nomad
Software	DeviSoft
Battery life/type	15 hours/Lithium
IP rating	IP67



*DeviSight in option for surface collar reference*