



Mining - Geotechnical
Sale - Rental

DeviHead

Head assembly core orientation tool

The **DeviHead** is the new and unique core orientation system by Devico. Consisting of a miniature survey instrument small enough to fit inside a core barrel head assembly, the **DeviHead** offers a revolutionary system fully integrated with the drilling equipment.

With the **DeviHead** no core barrel adjustments are necessary, and core orientation may be started or ended at any time without having to retrieve the drill string and core barrel from the drill hole.

Utilizing the Devico **BBT** technology the **DeviHead** communicates wirelessly with a handheld device without the need for opening any threads.

The kit includes two **DeviHead** units with changeable survey tools and spindle assemblies, and is ready to be used with any standard head assembly on site.



Applications

- Diamond Drilling core orientation
- Down hole orientation
- Geotechnical investigation
- Exploration

Benefits

- Available for purchase or rent
- No core barrel extension needed
- Transferable electronics to other sizes
- Inclination data recorded
- Highly robust and reliable
- High precision system
- Digital results with archived data, no manual results transcription
- QA check
- DeviSoft software easy to manage



DeviHead

The **DeviHead** replaces the inner tube cap and spindle of the core barrel head assembly already on site. It is designed to fit head assemblies from most of the major drilling tool manufacturers, without affecting length, operation or quality.

The operation follows a clear step-by-step procedure, and one probe can be started or downloaded while the other is down in the hole.

DeviHead uses electronic accelerometers for high accuracy survey data. It measures inclination, orientation, gravity vector, temperature and battery status, and offers quality control on the results. For operation it communicates wirelessly with a Handheld device, without the need of opening a single thread.



Technical Specifications

Survey tool	
Weight (N-size)	5.4kg/11.9lbs
Diameter (N-size)	55.6mm/2.19"
Length (N-size)	Adjustable (450-485mm/17.7-19.1")
Magnetic	No
Running gear	Included
Inclination accuracy	+0.1°
Orientation accuracy	+0.5°
Inclination range	-90 to +90°
Temp range	-15° to +70°C (14° to 140°F)
Battery life	Approx. 45 days
Battery type	1xCR123a Lithium
Pressure	300bar/4350psi

PDA	
Type	Smartphone
Software	DeviSoft App
Battery life/type	15 hours/Lithium
IP rating	IP67

Battery

Long life Lithium battery means the **DeviHead** instrument can remain at the drill site without requiring charging. The internal battery can be sourced at most hardware stores and is easily replaced by the user every 1 to 2 months.

Handheld Device

An Android Smartphone is utilised to initialise, activate, display results and store core orientation data from the **DeviHead**.

The Smartphone has a long life rechargeable battery and is IP67 rated.

Processing Software

DeviSoft App is an Android driven software specially adapted to the **DeviHead** product, and is intuitive and simple to navigate.

Data points can be reviewed and verified at the drill site with a quality control function.

Data Transfer

Reports may be transferred from the Handheld device by Wi-Fi, Bluetooth, email or Cloud storage.

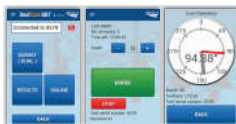
Probe Transfer

Versatile upgrade to any other head assembly sizes without the need of purchasing a new full kit.

Maintenance

The **DeviHead** mechanical parts should be greased and maintained as a normal head assembly.

Very little maintenance is necessary for the electronic unit of the **DeviHead**. Devico recommends a calibration check once every two years.



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