



Your source for advanced
mining technology



North Seeking Continuous Gyro

CHAMP NAVIGATOR™

Next Level Accuracy,
Performance & Flexibility.



- ✓ High speed continuous survey capability from vertical* to horizontal
- ✓ High accuracy azimuth $\pm 0.75^\circ$ at the shortest North Seek time 120s
- ✓ Higher latitude North Seek operation with low-noise high-performance sensors
- ✓ Smallest & lightest North Seek gyro at 36mm (1.42")
- ✓ Survey on the overshoot with the fast descent Champ OSA™
- ✓ Vertical core orientation capability
- ✓ Intuitive, user-friendly & auditable rig alignment & collar azimuth check
- ✓ Axis onSite™ data transfer with onSite™ Client Portal access or API enterprise integration

Visit us at www.axisminetech.com

Upgrade your existing technology today.

NEXT LEVEL APPLICATION FLEXIBILITY

Innovation in design and technology drives the Champ Navigators unique application flexibility & performance. Improved North Seek azimuth accuracy, continuous survey and rig alignment capability deliver value to any drill-hole.

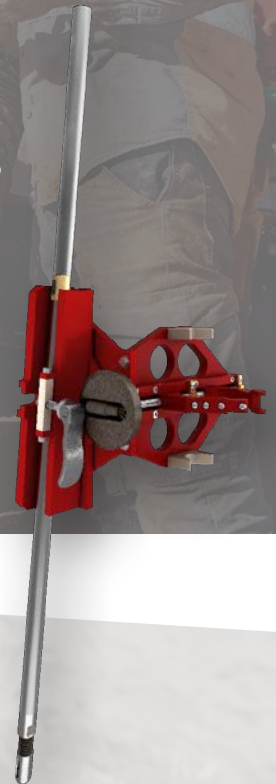
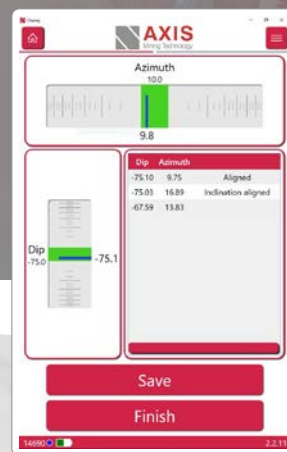
High-speed continuous survey capability is flexible to all drilling environments vertical to horizontal, underground or surface. Confidence begins at the collar with a measured North Seek azimuth and extends to the intuitive driller-friendly operating interface that supports effective survey execution.

Axis onSite™ wirelessly transmits surveys from the Champ Navigators handheld device via Wi-Fi or cellular data at the rig or project office, providing users with real-time access to critical drill-hole survey information. Data is accessible from the onSite™ Client Portal or from any geosciences or drilling workspace, delivered by Axis' seamless and automated enterprise software API integration.

North Seek survey on the overshoot as you pull core in B to P size rods with the Champ Navigator™ run in the Champ OSA™ fast descent 45.0mm (1.77") or 42.0mm (1.65") slimline assemblies at surface or underground.

With a standard outside diameter of 36mm (1.42") and a 35mm (1.37") option available, the Champ Navigator is the only North-Seek Gyro which can confidently survey inside smaller rod sizes in the underground environment or inside small diameter RC innertubes.

Align your drill rig, with the Navigator probe on surface or underground and use North Seek mode to substantiate collar azimuth for continuous survey referencing, or post collaring ahead of committing to the drill-hole.



SPECIFICATIONS

Accuracy

Azimuth : +/- 0.75°** (North Seek at 120s)

Dip : +/- 0.15°

Precision : 0.1% or 1/1000 (continuous mode)

Gravity Toolface : +/- 0.15°

Gyro Toolface* : +/- 0.75°

Range

North Seek : +/-20° to +/-90° dip

Continuous : -90° to +90° dip*

Downhole Travel (continuous mode)

Max Angular Rate : 2000° per second rotation

Velocity (continuous survey) : up to 100m/min (328ft/min)

Depth Assignment

Manual user input (via operating software)

Wireless, integrated & automated assignment (available with electronic counter)

Battery

Re-chargeable Li-ion, 5000mAh

30 hours continuous operation

Two battery modules supplied

Temperature, Shock & Pressure Rating

Temperature : -10°C to +70°C (14°F to 158°F)

Shock : 1000g Axial, ½ sine, 1ms

Vibration : 10g rms 10-500Hz

Pressure Rating : 4000psi

Dimensions & Weight

Downhole Probe

OD : 36mm (1.41") / 35mm (1.36"), L : 1640mm (64.56"), Wt : 7kg (15.43lbs)

Shipping

L : 1117mm (45.9'), W : 410mm (16.1") H : 180mm (7.1"), Wt : 25.0kg (55.12")

Measurements & Communication

North Seeking single-shot, multi-shot & orientation operation

North Seek shot time at stated accuracy 120s

Precision North Seek mode options >120s

Continuous data acquisition every 1m at 60m/min (3.2ft at 197ft/min)

*Only available in next generation Champ Gyro systems.

**North Seek azimuth accuracy is latitude and dip dependant (1 sigma).

Technical specifications are subject to change without notification.