

## CHAMP NAVIGATOR

Align your rig. Survey the hole.



The world's first, truly multifunctional  
North Seeking solid state Gyro...

The Champ Navigator™ is a multifunctional North Seeking solid state gyro system allowing users to both align a drill rig and survey the drill hole – with one tool.

The Navigator's unique combination of innovative features provides greater value to your drilling program than any other tool on the market.

Accurately align your drill rig in minutes and survey any drill-hole cost effectively and with precision.

As with all Axis' solid state technology the Champ Navigator™ is tough, reliable and with North Seeking capability it can establish its own starting azimuth.

- ❑ Memory North Seeking & Continuous
- ❑ Align a Drill Rig in 5 minutes
- ❑ Survey in all Applications
- ❑ Measure at any Inclination
- ❑ Singleshot, Multishot & Orientation
- ❑ Tough Rugged & Reliable
- ❑ Wireless Communication
- ❑ Establishes own North Azimuth

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# Upgrade your existing technology today.

Powering up the Champ Navigator™ takes less than 60 seconds, after which the user can elect to align the drill rig or survey the hole.

## TO ALIGN YOUR DRILL RIG

Simply snap the Champ Navigator™ into the alignment clamp, select rig alignment mode and start the alignment process. The alignment of the drill is wirelessly communicated to the handheld tablet whilst the rig is moved onto the planned heading.

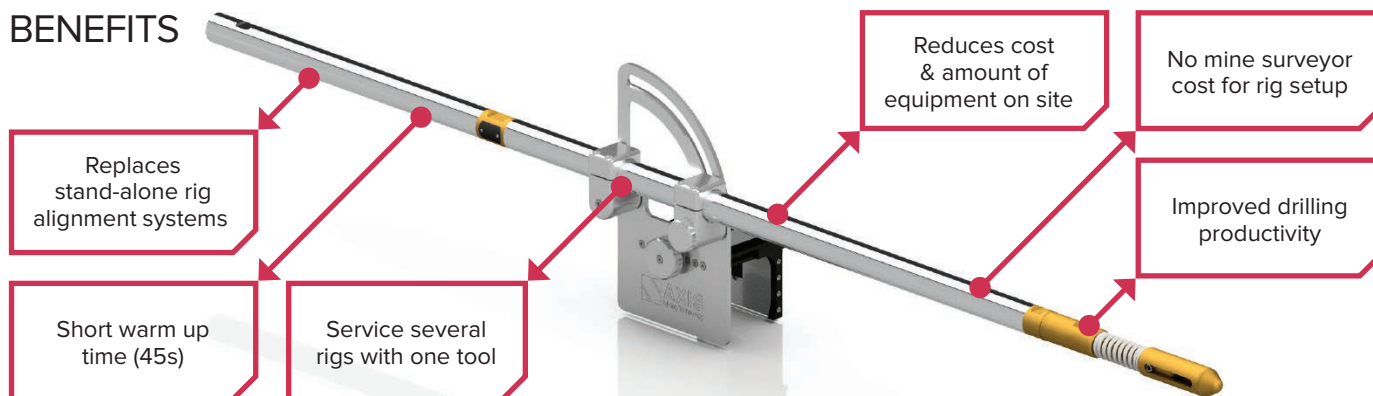
- ❑ Reduce rig setup time by aligning rig to correct inclination and azimuth in real time.
- ❑ No requirement for mine surveyor, geologist or GPS for rig setup.
- ❑ Save time, no lengthy pre-alignment calibration routine.
- ❑ Champ Navigator is ready to align the rig in 5 minutes.

## TO SURVEY THE HOLE

The Champ Navigator™ offers a combination of modes such as North Seeking singleshot, multishot or orientation as well as a continuous mode of operation.

- ❑ Survey every time you pull core with the Champ OSA™, saving valuable rig downtime by eliminating the need for a separate survey run.
- ❑ Pump in or drop the Navigator™ to perform a rod pull survey at bit change or at the end of hole, avoiding rig standby time associated with a conventional survey.
- ❑ Connect to drill rods to take an in-run and/or out-run survey as the rods are run into or out of hole.
- ❑ Survey at high speed in continuous memory mode on wireline pausing briefly only to enter the survey depth.
- ❑ Survey blast holes efficiently and accurately.

## BENEFITS



## SPECIFICATIONS

### Accuracy

Azimuth : +/- 0.75°\*  
Inclination : +/- 0.15°  
Gravity High Side : +/- 0.2°  
Gyro Toolface : +/- 0.75°

### Range

Operating : -90° to +90°\*\*

### Surface Setup

Warm up Time : 45 sec

### Downhole Travel (continuous mode)

Max Angular Rate : 15° per second rotation  
Velocity : 1m / sec

### Battery

Re-chargeable Li-ion, 5000mAh or standard c-cell  
15 hours continuous operation  
Two battery modules supplied

### Temperature, Shock & Pressure Rating

Temperature : -10°C to +70°C  
Shock : 1000g Axial, ½ sine, 1ms  
Pressure Rating : 4000 psi

### Dimensions & Weight

Downhole Probe in Running Gear  
Outside Diameter : 36 mm  
Length : 1640 mm  
Weight : 7 kg

### Measurements & Communication

North Seeking singleshot, multishot & orientation  
Continuous data acquisition at 1m/sec  
2.5 min gyrocompass shot time

Technical specifications are subject to change without notification.

\*Gyrocompass azimuth accuracy is latitude dependent and quoted at 1 sigma at inclinations between -30° to -90° & +30° to +90°.

\*\*Continuous operation range at inclinations -85° to +85°.