



The world's  
first North  
Seeking solid  
state GYRO...

## CHAMP GYRO™

Designed for driller operation

The Champ Gyro is an innovative North Seeking solid state gyro system that allows users to take high accuracy singleshot, multishot or orientation measurements at the push of a button.

It's tough, reliable, requires no starting azimuth and is ready to survey within minutes.

The Champ Gyro offers the ultimate in simplicity, performance and productivity.

- ✔ Memory North Seeking
- ✔ Singleshot, Multishot & Orientation
- ✔ Survey with Champ OSA™
- ✔ Power Up & Run
- ✔ Tough, Rugged & Reliable

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Upgrade your existing technology today.



At surface the user initialises the Champ Gyro via tablet. Downhole, singleshot or multishot measurements are taken at desired depths. On return to surface, data is downloaded via highspeed wireless communication and is immediately accessible without any need for post processing or interpretation.

Run the Champ Gyro on wireline or in the Champ OSA™ (Overshot Assembly) which allows a survey to be taken each time you pull core, thus greatly reducing rig downtime associated with conventional surveys.

The Champ Gyro has a robust design capable of performing surveys for both diamond and RC holes in both surface and underground environments.

Housed in 36mm (1.41") running gear the Champ Gyro measures 1.64 meters (5.38ft) long and weighs less than 7kg (15.43 lbs).

Battery modules have a 15 hour life and with two supplied as standard you will never run short on power.



## SPECIFICATIONS

### **Accuracy**

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

### **Range**

Operating : -20° to -90° & +20° to +90°

### **Surface Setup**

Warm up Time : 45 sec

### **Depth Assignment**

Manual depth input  
Wireless depth integration (AMT Electronic Depth Counter)

### **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 (14°F to 158°F)  
Shock : 1000g Axial, ½ sine, 1ms  
Pressure Rating : 4000psi

### **Dimensions & Weight**

*Downhole Probe in Running Gear*  
Outside Diameter : 36mm (1.41")  
Length : 1640mm (64.56")  
Weight : 7kg (15.43lbs)

### **Measurements & Communication**

North Seeking singleshot, multishot & orientation  
2 min gyrocompass shot time (higher accuracy modes available)  
Wireless data communication between tablet and probe  
Wireless depth transfer via AMT's Electronic Depth Counter

Technical specifications are subject to change without notification.

\*Gyrocompass azimuth accuracy is latitude dependent and quoted at 1 sigma.

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