

# CHAMP GYRO SRO

Another industry first from Axis...

Reliability, Simplicity & Performance. Surface readout and memory capability on a unique solid state North Seeking platform.

The Champ Gyro SRO™ offers high speed high continuous survey capability at speeds of up to 50m per minute as well as singleshot, multishot or orientation operation.

All operations can be run in surface readout or memory mode providing unprecedented flexibility to survey the widest range of applications.

A robust intelligent design, low maintenance and cost of repair ensures the SRO's cost of ownership is the lowest in the industry.

As with all Axis' technology its remarkably simple to operate.

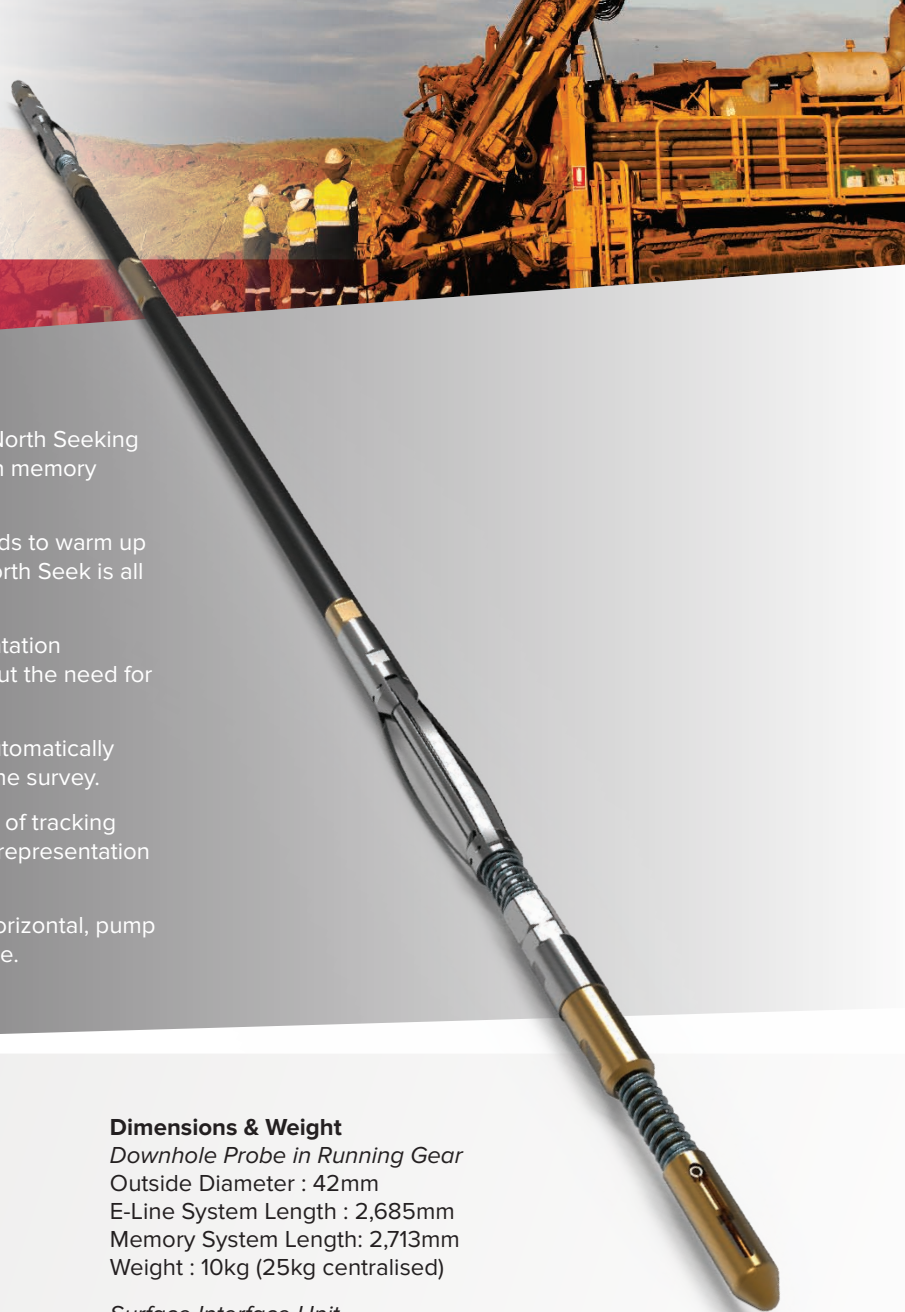
- ❑ North Seeking Solid State
- ❑ High Speed Precision Surveying
- ❑ Singleshot, Multishot & Orientation
- ❑ Measure at Any Inclination
- ❑ Short Alignment Time (5min)
- ❑ Surface Readout or Memory
- ❑ Regional Calibration

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# Upgrade your existing technology today.



Run on E-line, the Champ Gyro SRO™ provides real time North Seeking gyro data to any surface PC or download data acquired in memory mode via high speed wireless communication.

Once powered up the probe requires less than 60 seconds to warm up before its ready to be run downhole. A 5 minute collar North Seek is all that's required prior to running high speed operation.

Alternatively, North Seeking singleshot, multishot or orientation measurements can be taken as and when required without the need for collar alignment.

Running on cable, encoder depth (e-line or memory) is automatically integrated with azimuth and inclination data throughout the survey.

The SRO's North Seeking solid state sensors are capable of tracking slight changes in hole deviation thus providing a precise representation of the hole trajectory.

SRO can be used confidently to run drop gyro, on-rods horizontal, pump in surveys, orientation of motor or wedges and much more.

## ▣ SPECIFICATIONS

### Accuracy

Azimuth Gyrocompass : +/- 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)

Angular Rate : 15° per second rotation  
Velocity : 1m / sec  
Cable length : 5000m (max)  
Cable resistance : 300 Ohm

### Battery

Re-chargeable Li-ion 5000mAh  
12 hours continuous operation

### 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 : 42mm  
E-Line System Length : 2,685mm  
Memory System Length: 2,713mm  
Weight : 10kg (25kg centralised)

### Surface Interface Unit

L : 300mm, W : 200mm, H : 150mm  
Weight : 2kg

### Power

Input Voltage : 90VAC to 240VDC  
Output Current : 125mA  
Probe Power Consumption : 2W

### Measurements & Communication

Continuous data acquisition at 1m/sec  
8 hours memory  
2.5 min shot time - Gyrocompass  
5min collar alignment - Gyrocompass

### Surface Computer Requirements

Windows 8/10/XP, USB port

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°.

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