

SPT North Seeking Gyroscope



ABIM Solutions provides high quality, client-focused, drillhole surveying services to the West Australian mining industry. Applying some of the most sophisticated technology currently available worldwide, our focus is on providing timely and accurate directional survey measurements tailored to our client's needs.

Utilising Stockholm Precision Tools latest generation SPT 007 42 North Seeking Gyroscope and a customised logging vehicle, ABIM Solutions can conduct down-hole directional surveys in both underground and surface mining and exploration operations to depths of 2000m.

The SPT 007 42 North Seeking Gyroscope utilizes the latest Oil and Gas industry technology to establish True North, **eliminating the requirement for sighter pegs or reference bearings**. It is the fastest, most accurate North Seeking Gyroscope currently in use in the Mining industry.

The tool is ideal for directional surveying in magnetically affected ground where conventional multi-shot surveys are unreliable.

The key advantages of using the SPT 007 42 north Seeking Gyroscope:

- **No setup delays** - the gyro initialises in less than 3 minutes
- **Azimuth accuracy $\pm 1.0^\circ$**
- **Dip accuracy $\pm 0.1^\circ$**
- **Reduced drill rig down time**
- **Survey results available at the drill rig**

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SPT North Seeking Gyroscope



The instrument is small and rugged and incorporates the latest north seeking gyro technology as well as Quartz Technology. This combined with advanced electronics provides high accuracy and reliability

They have two main advantages over conventional magnetic survey tools

- They find *True North*,
- They are not affected by metals in drilling rods

For a successful North Seeking Gyroscopic survey, the following hole requirements must be met:

- Cased borehole - Ideally, the tool is run inside the drill string
- Minimum diameter 50mm
- Maximum hole depth 2000m
- Maximum hole pressure 80MPa
- Maximum hole temperature 100°C

SPT 007 42 North Seeking Gyroscope Tool Specifications

- Length: 2.9m
- Diameter: 42mm
- Weight: 11kg
- Azimuth accuracy : $\pm 1.0^\circ$
- Dip accuracy : $\pm 0.1^\circ$

ABIM Solutions carries out strict QA/QC checks regularly on all our directional surveying instruments to ensure their precision and accuracy. Results of these checks are available to Clients upon request.

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