



**ICEFIELD TOOLS**  
precision borehole surveying technologies



## **GYRO SHOT®** Gyroscopically-oriented Borehole Survey Tools



- **EASY TO USE**

Gyro Shot® tools are very simple to operate. No special training is required.

- **MEMORY BASED**

The Gyro Shot® is a memory-based tool. This means that unlike some other gyro systems, there is no need to connect the instrument to the surface with a wire. Nevertheless, should you require data in real-time, it is possible to use the Gyro Shot® with a wireline modem.

- **OPERATES LIKE A MULTISHOT**

The Gyro Shot® operates much like a multishot. The tool is run through the hole and is halted at intervals to take static shots.

- **INSTANT RESULTS**

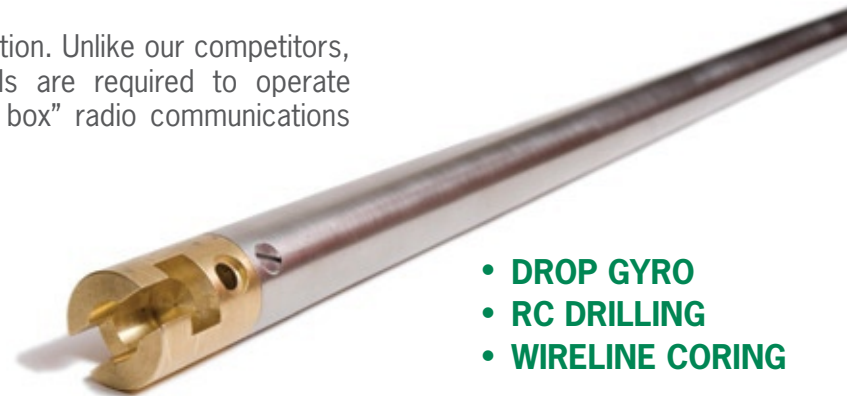
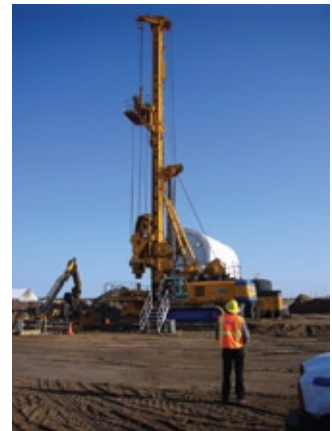
Gyro Shot® tools are completely digital, meaning that survey results are available immediately upon recovery. Digital data also mean no more data entry errors. Menu-driven software provided with Gyro Shot® tools produces data files suitable for loading into spreadsheets and popular data-visualization software.

- **ANY DIRECTION**

Gyro Shot® tools can operate in any orientation. Horizontal or vertical holes present no difficulties.

- **TROUBLE FREE**

Our design philosophy ensures trouble-free operation. Unlike our competitors, batteries are field-replaceable. No special tools are required to operate our equipment and we avoid proprietary “black box” radio communications interfaces that are banned from some work sites.



- **DROP GYRO**
- **RC DRILLING**
- **WIRELINE CORING**

[www.icefieldtools.com](http://www.icefieldtools.com)



## AT LAST – A TRUE SLIMLINE GYROSCOPIC TOOL

Gyro Shot® tools use a tri-axial gyroscope module to monitor the rotation of the instrument through time. Continuous recording and self-calibration permits long-term operation while maintaining accuracy. Gyro Shot® tools also contain a magnetometer that can be used to record the magnetic profile of the hole or, in the absence of external fields, as a second independent measure of the hole azimuth.

## THROUGH-THE-BIT SURVEYS ARE A THING OF THE PAST (unless you want to)

Unless magnetic measurements of the rock are important, the Gyro Shot® is run inside the rods, thereby eliminating the risk of through-the-bit surveys. If you want magnetic data, you must run through-the-bit. The Gyro Shot® is slim enough to do this even in AQ rods!

### SPECIFICATIONS:

Sensor	Type	Range	Accuracy	Shock
Inclination	Triaxial	360° (any orientation)	±0.1°	6000g
Gyroscope	Triaxial	0-195 deg/s	±1° +0.5°/hr	2000g
Magnetometer	Triaxial	100 000 nT	±0.5°	N/A
Temperature	Solid State	-30°C to +85°C	±1°C	N/A

### DIMENSIONS:

	Diameter	Length	Weight	Pressure rating
Bare instrument	25.4mm (1.00")	1.14m (44.8")	1.9 kg (4.2 lbs)	300 m (H <sub>2</sub> O)
In pressure barrel	33.4mm (1.315")	1.88m (73.8")	8.6kg (19 lbs)	3500 m (H <sub>2</sub> O)

RUN TIME: 22 hours (memory limited)

TEMPERATURE RANGE: -30°C to +85°C

POWER: 6 x AA field-replaceable alkaline batteries

UPGRADES: Firmware field-upgradeable; no-charge software updates.



NOTE: Specifications subject to change without prior notice / Spécifications sujettes à changements sans préavis. IrDA® is a registered trademark of the Infrared Data Association®. Bluetooth® is a registered trademark of Bluetooth SIG Inc. Palm® is a registered trademark of Palm Inc. Windows® is a registered trademark of Microsoft Corporation. Meazura™ is a trademark of Aceeca International Limited. GYRO SHOT®, AUTO SHOT® and HIGH SIDE SEEKER® are registered trademarks of Icefield Tools Corporation. Product photos by www.archbould.com