

DeviGyro RG30 HELIX

IMDEX™



**Downhole navigation solution for
small diameter in-rod surveying**

DeviGyro RG30 HELIX



Description

The DeviGyro RG30 Helix features an extendable 30mm body and adaptable helix centralisers, making it the ideal solution for small diameter, in-rod, wireline surveying.

The miniature rate DeviGyro fits inside the RG30 running gear, utilising proprietary navigational algorithms and recording 10 data points per second to provide geologists with accurate, transparent, and repeatable data they can trust.

RG30 Helix centralisers automatically adapt to the drill string dimension in use and fit diameters ranging from approximately 30 to 50mm. In addition, the one solution provides dual functionality through the option of Devico's proprietary helix (rotating) surveying method or the standard non-rotating surveying method.

Advantages

- Up to 100 m/min continuous survey speed and quick setup time
- Slim diameter capability with automatically adapting centralisers
- Dual survey method functionality (rotating and non-rotating)
- Precise repeatability at all angles
- Intuitive operating software
- True wireless - connects when fully assembled
- Scandinavian made - robust and reliable
- Immediate, comprehensive QA check
- Commercially available battery
- Not affected by magnetics

Integration

From the drill rig to the office, DeviGyro data integrates with IMDEXHUB-IQ™ to securely optimise data transition and management whilst minimising manual entry error.

Devico's DeviAligner provides the DeviGyro with the most accurate starting direction and enables directional surveying at any angle.

Applications

- In-rod surveying
- Slim-rod reverse circulation (RC) and air core drilling
- Small diameter civil drilling applications
- Diamond core drilling: A and b-size only
- Wireline, pump down or conventional
- Pilot holes
- Surface & underground



ASIA PACIFIC

Perth, Australia (Head Office)
+61 8 9445 4000
amc@imdexlimited.com

Indonesia
+61 (0) 21 759 11244

AFRICA

South Africa
+27 (11) 908 5595

EUROPE

Norway
+47 72 87 01 01
Germany
+49 4402 9650-0
United Kingdom
+44 (0) 1273 483 700

SOUTH AMERICA

Argentina
+54 9 261 211 3676
Brazil
+55 (47) 3404 5920
Chile
+56 (2) 2589 9300
Peru / Ecuador
+51 (1) 322 8850

NORTH AMERICA

USA / Canada
+801-364-0233
Mexico
+52 (871) 680 7146

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Running gear 1400 mm/55.1 in
DeviGyro sensor 140 mm/5.5 in



Running gear 30 mm/1.2 in
DeviGyro sensor 25mm/1 in

Running gear 5.9 kg/13 lbs
DeviGyro sensor 0.2 kg/0.4 lbs

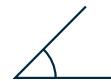
Weight and length without sinker bars



Azimuth accuracy:
 $\pm 0.1^\circ/100m$



Typical positional accuracy:
0.2%



Inclination accuracy:
 $\pm 0.1^\circ$



Toolface accuracy:
 $\pm 0.2^\circ*$

*Calibrated for temperature range -10°C to +60°C

Specifications

Pressure (bar/psi)	300bar/4350psi
Temperature range	-20° to +60°C/-4° to 140°F
Compatible sizes	AWL, BWL
Centralizer range	30-50 mm/1.2-2 in ID
Azimuth accuracy	$\pm 0.1^\circ/100m$
Typical positional accuracy	0.2%
Inclination accuracy	$\pm 0.1^\circ$
Tool face accuracy	$\pm 0.2^\circ$
Azimuth range	0°-360°
Inclination range	-90°- +90°
Temperature	Recorded
Survey mode	Continuous or multishot
Survey speed	Up to 100m/min
Affected by magnetics	No
Memory	6h 40min
Data communication	Wireless

Battery

Battery type	1x CR 123a
Battery capacity, continuous use	24 hours

Handheld Device

Type	Android Smartphone
Software	DeviGyro App
Battery capacity, continuous use	15 hours
Battery type	Lithium
IP rating	IP68

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