

Case Study

DeviGyro OX Mini improves workflow efficiencies with reduced cost and safety benefits

The Challenge

The drilling contractor used a single survey tool across five drilling rigs to minimise costs for underground surveys. This resulted in frequent transportation of the tool between drill rigs, causing operational and cost inefficiencies.

Increased manual handling also posed potential safety risks, especially in an underground environment.

IMDEX Solution

IMDEX introduced 5x DeviGyro OX MINI reference gyro systems - one for each rig.

Key advantages included:

Seamless integration

OX MINI systems are permanently fixed on the drill's overshot, eliminating the need for transporting survey tools between rigs.

Improved workflow

Accurate, continuous surveys (10 data points/sec) can be conducted at the end of each drill run, and data is synced frequently for near real-time borehole monitoring.

Compact design and enhanced safety

OX MINI is 3.2x lighter than the original surveying tool, reducing space constraints and manual handling risks.

Bluetooth connectivity and magnetic activation removes the need for cables and manual tool joint breaks, lowering the risk of injuries.

Project Details

Location: Limpopo, South Africa

Resource Company: Leading platinum producer

Drilling Contractor: Hall Core Drilling

Resource: Platinum

Project: Underground drilling campaign for resource expansion

The DeviGyro OX Mini is an ultra compact survey solution that combines the miniature reference DeviGyro sensor with OverShot Xpress running gear suitable for BQ and NQ surveying.

Completely wireless and safe to be handled by one operator, the OX Mini is pre-assembled in one case, making it the ultimate solution for underground diamond drilling.



1.2m



140mm

Value to customer



Operational efficiency

Each rig's survey is performed without delays, leading to significant reduction in standby time and a consequent increase in drilling productivity.



Cost savings

The smaller system and improved workflow resulted in reduced downtime and lower operational costs.



Increased safety

The lighter, fixed systems, combined with Bluetooth connectivity, minimised the risk of injury to personnel.



Near real-time decision-making

Frequent data syncs provided better visibility and control over the drilling process, allowing for faster decision-making.

New Feature

DeviGyro and DeviAligner are now connected to IMDEXHUB-IQ, transferring your verified data seamlessly to geology teams for approval.

This workflow has been further enhanced by enabling the ability to directly export drill rig alignment shots to the DeviGyro app (even underground), without the need for WIFI or interaction with DeviCloud or HUB-IQ systems.

Your verified data, **HUB-IQ™**
in the one place. Connected