

# Looking back at 2020



# Reutech Digital Compass (RDC)

Reutech Mining values client relationships and we develop our products based on the requirements mandated to us from the industry. A need for a compass that will enhance the rapid measurement of geological features, such as dip and dip direction, or dip and strike lead us to the development of the Reutech Digital Compass (RDC).

The RDC, a hand held battery powered digital tilt corrected compass, allows for single measurements at any orientation of the dip and dip direction, or dip and strike of a fault, joint, bedding plane, or other geological discontinuity.

The product was designed with the user experience at the forefront of the process, primarily by bringing comfort and convenience and ease of use. The design is intuitive and simple, only having a single red push-button for operation.

The RDC simply needs to be placed onto the surface one wishes to measure, then a short press on the red push-button, and the unit will take the measurement.

The RDC takes two measurements with each button press: an azimuth compass bearing, and an inclination reading of the angle of the feature. All the measurements are stored internally on the RDC in non-volatile memory, which can be transferred to a PC at a later stage.

We were excited to launch the digital compass concept during the International Symposium on Slope Stability in Open Pit Mining and Civil Engineering, which took place online in May 2020 in Perth, organised by the Australian Centre for Geomechanics (ACG). The final product was released in September 2020.



# Slope Stability 2020

The International Symposium on Slope Stability in Open Pit Mining and Civil Engineering is a prestigious symposium that takes place every two years, at selected countries around the world. The event is hosted by educational institutions within the industry. Slope Stability 2020 was planned to be held in Perth in May. Due to Covid-19 pandemic, the format was changed to an online event. The conference ran live 24/7, over a period of three days, with on demand access to papers available until August. Attendees were able to view paper presentations that were pre-recorded by the authors and also engage with each other in the virtual lounge area.

The International Slope Stability Symposium remains one of the core conferences Reutech Mining attends, and we were

proud to be able to have supported the Australian Centre for Geomechanics (ACG) during the first of its kind online event

We commend the ACG on their detailed planning and for coming up with a great solution in such a short period. There were over 250 online attendees and 112 papers published. This is a reflection of the importance and success of this conference for sharing technically outstanding material for the industry.

We look forward to participating in the 2022 Slope Stability in Open Pit Mining and Civil Engineering Symposium in 2022 which will be held in Tucson, Arizona and managed by the University of Arizona's Geotechnical Centre of Excellence.



2020 International Symposium on Slope  
Stability in Open Pit Mining and Civil  
Engineering Online Event





## Reutech Mining signs Open House Management Solutions as a training partner

Reutech Mining signed on Open House Management Solutions (OHMS) as the official training and data analysis partner for the Sub Surface Profiler (SSP).

The SSP is a ground penetrating radar (GPR) that identifies anomalies within the rock mass and is used to capture, view and analyse data to be able to make safety related decisions underground.

OHMS has worked closely with Reutech Mining with regards to

perfecting the process of scanning, interpreting and visualising data.

This partnership is in line with Reutech Mining's strategy, to be able to provide clients with state-of-the-art technology that contributes towards the safety of underground openings. "It is important for us to empower our clients to use our systems to their maximum capabilities and to get the greatest output from our systems" says Jan de Beer, Executive Manager of Reutech Mining.

## Reutech Mining has a fresh new look

Over the last decade Reutech Mining has grown and evolved and has established itself as the pioneer of technological innovation within the mining industry, with the specific focus of contributing to the identification of risk and making the working environment a safer place through informed monitoring solutions.

The brand, what it stands for, as well as, the current and future growth plan has been evaluated extensively. As a result, the decision was taken to change the look and feel of the brand to better represent the company's evolving strategy. As of May 2020, Reutech Mining updated its brand identity by introducing the colour green. This emphasises Reutech Mining's continuous improvement plan to be more mindful of the natural environment and "go green" in certain aspects of its operation.

"We are building towards a brand that breathes excellence at its core. We will have a uniform brand globally that is known for the peace of mind we provide our clients through the exceptional technology and services we deliver. We are excited about embarking on this new journey and the endless possibilities it holds," says Jan de Beer, Reutech Mining Executive Manager.

While there is a prominent visual change in the brand and our core focus still remains the same. Reutech Mining will continue to strive for excellence, provide clients with innovative geotechnical solutions and world class products.





## Reutech Mining now offers remote support

With all the challenges faced due to the COVID-19 pandemic in 2020, particularly the international travel restrictions, Reutech Mining has adapted its overall operational model to ensure that the excellent service that Reutech Mining's clients are accustomed to is maintained.

As part of this adaptation, Reutech Mining now offers remote support to our clients. This service enables rapid turnaround times for the resolution of queries in the fast paced mining

environment. In addition, this new support provides a platform for Reutech Mining's technicians to execute remote system services, which eliminates the need to mobilise a technician to site to perform this function.

This service saves time, money and ultimately results in increased mining productivity, by means of limited interruption for the operational availability of our systems.

# Reutech Mining joins hands with Rocscience

Rocscience is a company which has developed reliable software for the civil, mining and geotechnical industry for over 20 years. Their software is based on the latest geotechnical research and Rocscience consistently developing and refining their software based solutions. In October 2020, Reutech Mining joined hands with Rocscience. These two organisations share similar views in providing and improving real-time mine safety, making the partnership ideal for deformation and slope monitoring that is linked to design calibration.

Our MSR series produce a high-resolution 3D point cloud using real aperture radar interferometric technology that can be imported and analysed using the various Rocscience software packages. The imported

data can be superimposed onto models to analyse the Factor of Safety (FoS) and Probability of Failure (PoF) using the latest features and updates. The users of our MSR range of radars are already making detailed use of this cutting-edge technology by optimising slope design, mitigating slope instability and increasing mine production.

This collaboration with Rocscience enables the convergence of numerical modelling with radar data and is testimony towards the common goal of achieving “intelligent slope design”. Reutech Mining produces reliable products which are on every continent and have outstanding support structures in place. Our mission is to understand the mining environment and to provide the industry with world-class products.



# Message from Jan de Beer

2020 turned out to be both an interesting and challenging year in all aspects. Globally we had to face the Covid-19 pandemic. Although a pandemic of this nature is not something that we have experienced in our lifetimes, I am exceptionally proud to have been surrounded by a team that came together, acted fast and thought in an innovative manner to be able to assist our clients during this period, and who continue to do so despite these difficult times we find ourselves in.

We look forward to 2021, with new products and projects on the horizon. We also look forward to meeting again with our clients, business partners and friends in industry as we are able to travel and connect again.

For those that celebrate Christmas I wish you a blessed festive season. I trust that all will enjoy a bit of time with your loved ones, happy holidays to all and I look forward to a wonderful new year to come. Stay safe.





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