

arrangement and a variety of options available along with the machine unveil the new PMKM 8030 as a more durable, more efficient and easier to maintain machine for, first and foremost, economic use in underground mining,” Paus concluded.

Resemin's first BEV step

Peru-based narrow-vein underground drilling equipment major, **Resemin**, is in the process of electrifying its diesel fleet.

The company, in May, confirmed its drilling jumbo, the Troidon 55-EV, will be the first rig to get the battery-electric treatment.

This battery-electric powered rig is designed for face drilling applications of up to 39 sq.m. It is equipped with a single 75 kW electric motor for traction and drilling, and three FZSONICK battery packs. The batteries will only be used for tramming, with the equipment plugged into the mine 380/440/550/1,000 V AC power grid during drilling.

Resemin said it plans to offer all its fleet with a battery-powered option during 2022.

In Colombia, however, it is diesel-powered machines set to make a difference.

The company recently added Muki FF drilling rigs, SFL35 LHDs and Troidon XP drilling jumbos to Antioquia Gold's new production fleet at the Cisneros gold mine.

The SFL35, in particular, is significant as it is the first locally-made design of the Schopf mining LHD product line after the Peruvian company took over the German company's activities outside of Europe from owner Goldhofer in 2017.

The loader comes with a tramming capacity of 3,5 t and a width of 1.4 m.

'Surgical' mining progress

This year is turning out to be a significant one for **Novamera** and its Sustainable Mining by Drilling (SMD) surgical mining technology.


In January, the company announced Hochschild Mining had joined its Preferred Partner Program, entitling the precious metal miner to certain privileges, monetary discounts and advance insight into SMD. And, in the September quarter of the year, the company is set to start a proof of concept trial at Anaconda Mining's Romeo and Juliet deposit in Newfoundland, Canada, using the most advanced prototype of the technology to date.

Novamera says it is developing “keyhole surgery” for mining, an innovative clean technology and process that will be able to mine the numerous small-scale narrow vein mineral deposits found worldwide more safely, economically and sustainably using pilot hole diamond drilling and downhole directional sensors with machine-learning algorithms to identify vein/host rock interfaces. It intends to then use industry-proven drilling technology – a variant of conventional Pile Top RCD drills used successfully by the construction industry – followed by a form of reverse circulation drilling to extract the ore.

As a first step with Hochschild, Novamera performed a conceptual evaluation to determine if the use of SMD as a mining method was economically viable for certain narrow-vein deposits at the company's Inmaculada gold-silver mine in Peru.

Dustin Angelo, President & CEO of Novamera, told **IM** that the desktop study had been completed for Hochschild, and the company intended to present it to “a broader audience within the organisation” in the upcoming months.

Meanwhile, field trials of the guidance system to follow veins – an integral part of the SMD technology – was recently carried out in Newfoundland.

Angelo added on technology and corporate progress: “We've made progress in terms of market awareness and are discussing with potential customers the opportunity to work together in some capacity.” 



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