

the R 9400 E 350 t electric excavator. This machine represents not only Liebherr's more than 40 years' experience in the development and manufacture of electric excavators, but also some of the mining product segment's latest innovations. It will be equipped with various new Liebherr Assistance Systems to optimise day-to-day operations, as well as the company's brand-new cable reel solution for increased manoeuvrability.

Liebherr's PR 776 dozer will be a highlight on the booth. The 70 t dozer boasts the lowest hourly fuel burn – and therefore the lowest greenhouse gas emissions – in its class, according to the company. Additionally, Liebherr's Assistance Systems, designed to support operators and increase on site productivity, will be installed on the PR 776.

Liebherr's mobile and crawler crane product segment will present the LRT 1100-2.1 rough-terrain crane at this year's MINExpo. This rough-terrain crane has outrigger monitors as standard that automatically detect the support status of the crane and save it to the crane's controller.

At Liebherr's technology showcase, the OEM will share its range of latest innovations. In the decarbonisation space, the company has developed a variety of alternative drives and will highlight some of its brand-new solutions for its range of haul trucks for the first time. It will also share its new approach and solutions for autonomous haulage and fleet management, as well as its new Machine Guidance System.

During the exhibition, Liebherr will present its latest solutions for automating, operating, and maintaining Liebherr equipment. One such solution is LiReCon (Liebherr Remote Control), the teleoperations system for Liebherr dozers.

The company will also showcase its capabilities as a partner for service excellence with its range of service products for mining.

At the Innovation Lab, visitors will see Liebherr's latest pioneering concepts and technologies for the future of mining. Liebherr's components product segment will feature technologies as the core of every powerful mining machine. "Liebherr's commitment to excellence and sustainability is demonstrated in every component on display – be it a hydrogen engine, a travel or a wheel drive, a CFRP hybrid hydraulic cylinder, an advanced slewing bearing with bearing clearance monitoring, or the remanufacturing program," the company said.

Another highlight in the Innovation Lab is a 55 kW compressor. Jointly developed by the Liebherr components and aerospace and transportation systems product segments, the high-speed compressor is driven by an electrical motor and features an air bearing. Such technology, Liebherr says, is an enabler for the deployment of fuel cell propulsion systems with only



The L440B loader is the only battery-powered LHD in its class, Aramine claims

emissions of water and heat, which aids in the movement for more environmentally friendly transportation.

Epiroc is also inviting its investors to Las Vegas for this *MINExpo* edition, with the OEM hosting a capital markets day (CMD) on September 24, 2024.

"The purpose of the CMD is to give an update on Epiroc's strategy," the company says. "Topics such as innovation – including automation, digitalisation and electrification – aftermarket, sustainability and operational excellence will be covered."

This event will, no doubt, lay the groundwork for presenting several new solutions in the Las Vegas Convention Center.

One of Epiroc's distributors in key regions, **Aramine** will highlight its own electric prowess, garnered from over a decade of experience manufacturing and deploying battery-electric trucks and loaders for small and medium-sized underground mines.

With a long-standing commitment to reducing CO₂ emissions in these applications, the France-based company has, over the years, expanded its range of electric cable machines, then battery-powered machines.

With its first battery-electric model, the L140B loader, Aramine says it proved it was possible to electrify an underground mine without a fixed installation and while maintaining good productivity. Its engineers designed a fully-detachable energy module at the rear of the machine, which houses the batteries and charger. Using this, the batteries can be recharged close to any electrical connection, thanks to a unique mechanism called the QRS.

"As well as considerably reducing CO₂ emissions, opting for an electric machine offers numerous other advantages for operators: less noise, less heat and less vibration, while guaranteeing optimum productivity thanks to its 1.3-t tramming capacity," Aramine says. Visitors will be able to see this machine in the iron.

The event is also an opportunity to present Aramine's new battery-powered machine: the L440B loader, the only battery-powered LHD in its class, Aramine claims. After years of research and development, Aramine engineers have taken advantage of advances in battery technology to

produce a machine with a tramming capacity of 4.6 t, 3.5 times greater than the L140B.

The L440B, currently being manufactured in Aramine's French workshop, offers maximum productivity, while guaranteeing comfort, reliability and safety, Aramine says.

"Aramine's major development priority is to expand its range of battery-powered mining vehicles," it says. "The design office is already thinking about the machines of tomorrow: obviously by developing new battery-powered machines, but also by working more and more on autonomous machines, to guarantee operators' safety. Or by facilitating the integration of artificial intelligence (AI) and data analysis for more connected machines, helping to improve safety by identifying potential risks and taking preventive action."

In the meantime, the company is stepping up its efforts to reduce its customers' carbon footprint, most recently by offering a solar station that can be delivered in kit form. The aim is to provide even the most isolated mines with a renewable energy power supply to recharge the L140B's batteries.

The event will also provide an opportunity to highlight that, in addition to its range of machines, Aramine markets more than 1.5 million multi-brand spare parts through its SmartParts brand.

Hermann Paus Maschinenfabrik is planning to present the 'Swiss Army Knife' for underground mining in Las Vegas in September, the Paus P-MTC 10.

This machine will feature alongside the next generation of utility vehicles, the UNIVERSA 55.

The Paus P-MTC 10 is the evolution of the TSL 853 and was developed to address the requirements of the underground mining market. It is a Multi Tool Carrier that, thanks to a wide range of front and rear attachments, can be used for many different tasks in underground mining, such as material handling, mine maintenance, infrastructure improvement and even production.

"The optimised architecture provides a better working height even for small and large sections thanks to the telescopic boom," Paus explains. "Operator comfort has been improved thanks to the new cab concept. With a payload of 3.5 t, the operator can now work efficiently and safely even