

Jama introducing the world's first battery-powered and fossil-free scaling machine for the mining industry

The machine manufacturer Jama, which designs and produce machinery for the mining industry, is now launching the battery powered SBU 8000E for scaling underground rocks. The machine is the world's first battery-powered scaling machine that is fully electric and has been equipped with a battery solution that has been developed in collaboration with Epiroc.

Jama has many years of experience in manufacturing mining machines. The mechanical scaling SBU 8000 is a recognized and popular machine that has been the market leader over large parts of the world for decades. Jama has now taken the next step in the development of the model.

- The future is here and the SBU 8000E is our first contribution and an important step on the road to fossil-free mining. It feels enormously inspiring from a technical, environmental, and industrial perspective, says Rickard Lindgren, CEO of Jama.

During production work it is common for mining machines to be powered by electricity via a cable, but progress has always been made with diesel engines. The new SBU 8000E goes all the way. - We have completely rebuilt the driveline. The diesel engine with associated components has been replaced by a powerful 160 kW electric motor with control units and is powered by a modular battery solution that is automatically charged with 100 kW charged power during scrapping, explains Rickard Lindgren.

The new SBU 8000E eliminate emissions and reduces the noise level, and at the same time it contributes to a better working environment in the mine and reduced costs for mine ventilation. In addition, it is developed for smoother service and maintenance.

In collaboration with Epiroc with batteries from Northvolt

The battery that drives the SBU 8000E is state-of-the-art and manufactured by Northvolt, which is building one of the world's largest battery factories in Skellefteå, only a few kilometres from Jama's own production facility.

The battery and driveline solution has been developed in collaboration with Epiroc and provides the same power as in the diesel-powered scaler. The solution is module-based and has been designed to provide a maximum utilization rate. Each individual part of the battery is monitored and checked separately.

The battery is also the world's first certified battery system specially developed for the mining industry's extreme demands on safety and robustness. The system is certified for global markets (including CE, UL and CSA), which opens up opportunities for export. The CE certification which complies with the Low Voltage Directive, the Electromagnetic Compatibility Directive (EMC) and the Radio Equipment Directive.

We want our customers to concentrate on the work and be confident that they always have highly efficient batteries in the machine, says Rickard Lindgren.



Unique battery subscription provides the best capacity

For SBU 8000E, Jama and Epiroc have also created a service solution for the vehicle's batteries, where Epiroc offers a unique battery subscription that includes everything from certification to maintenance. The "Batteries as a Service" service means that customers subscribe to energy storage capacity, when the batteries are worn out, they are replaced with newer versions with upgraded technology. The service also includes used batteries being collected and recycled at Northvolt, where the raw material is taken care of and turned into new batteries.

- Battery electrification is a paradigm shift, which creates challenges for the organizations that will implement this new technology. Like the shift from horse and carriage to cars, it requires new knowledge, new infrastructure, and new business models. Through "Batteries as a Service", customers can focus on their core business and we take care of the battery. says Erik Svedlund, Marketing Manager Electrification at Epiroc.

More news on the machine

It is not just the battery operation that is new with the scaler SBU 8000E. New hydraulic valves make the SBU 8000E even more reliable together with the energy-efficient electric drive system. In addition, a new mobile control system developed for tough mining environments is presented, which is IP-classified, protected against temperature and vibrations. The control system has an intuitive user interface.

Leading in ergonomics

The SBU 8000E has a cab that is built with the goal of exceeding all existing work environment standards. The floating cab provides minimal low-frequency vibrations and has documented low noise values. All ventilation air to the cab is filtered through a filter system and the machine is equipped with a heating system with A / C. The cab can be tilted backwards up to 13 degrees for a better overview and comfort during scrapping. The operator's seat is air-suspended, has a three-point belt, double lumbar support and can be raised and lowered. A large 15.6-inch colour touch screen provides the best overview of controls and settings for the driver.

Sales start

The launch of the new battery powered SBU 8000E will take place in September and sales will start in 2021.

For further information, please contact:

Rickard Lindgren, CEO Jama: rickard.lindgren@jama.se, +46 (0)910-713651

Erik Svedlund, Marketing Manager, Electrification Epiroc, erik.svedlund@epiroc.com, +46 (0)19 – 6765637

About Jama

Our origins can be traced 70 years back in time. An almost as long and intimate collaboration with the north of Sweden's mining industry has today made us a world-leading manufacturer of vehicles and special products for the international mining industry. We are passionate about innovations and are quality certified according to ISO 9001: 2008. Our factory facility is located in Skellefteå, in the north of Sweden. For more information; www.jama.se