



## **Concentric receives a development contract from a global OEM for a high voltage electric coolant pump in a battery electric mining machine**

Concentric AB has received a new development contract to supply high voltage electric coolant pumps for a battery electric mining machine. The customer, a global construction OEM, will use our e-pumps for cooling the batteries and power electronics on a large fully electric mining machine.

Battery electric powertrains will be one of the key technology enablers for zero emissions from off-highway machines. Mining machines are one of the early adopters of this technology as construction OEM's expect their customers will enjoy a reduction in the total cost of ownership as well as enabling zero emissions.

The electric coolant pump has the following key benefits:

- Enables the use of high voltage supply, eliminating the need for a low voltage DC converter;
- Robust design which includes a wet rotor eliminating the possibility of a dynamic seal failure;
- Long service life aided by liquid cooled electronics and DC brushless design giving service life >50,000 hours;
- Integrated diagnostics and utilising sensors for temperature and pressure; and
- Compact and low noise characteristics.

Martin Kunz, President and CEO of Concentric AB commented: "This new agreement is another innovation milestone in the development of Concentric's e-pumps. We already supply e-pumps to many global OEMs for their hybrid and battery electric vehicles, this important contract will enable the development of a high voltage pump in the expected growth area of battery electric off-highway machines."

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*Concentric AB is an innovator in flow control and fluid power, supplying proprietary systems and components to the world's truck, agricultural machinery, construction equipment and industrial applications end-markets. The company has a global manufacturing presence including in the UK, USA, Germany, Sweden, India and China. Concentric's focus is to develop world class technology with innovative solutions that meet the sustainability needs of our customers. Concentric offers engine products including lubricant, coolant and fuel pumps, hydraulic products encompassing gear pumps and power packs, and finally several key technologies for the fast growing market for electrical and hybrid powertrains. In 2021, The Group had a turnover of MSEK 2,115 and circa 1,100 employees. At the end of October 2021, The Group acquired Engineered Machined Products, Inc. ("EMP"), a leading US producer of electric and mechanical water and oil pumps, electric fans, thermal management systems and precision machined components. In 2021, EMP had over 400 employees and a turnover of SEK 1,011 million. Including EMP for the whole year 2021, Concentric would have had a combined turnover of SEK 2,958 million.*