

Concentric AB electric coolant pump selected for high power density engine with leading global OEM for off-highway vehicles

Concentric AB has been awarded a contract to supply electric coolant pumps to a leading global OEM launching their new heavy-duty industrial engine for use in off-highway applications. This new engine will be an additional option to the OEM's current range offering enhanced performance by increasing power density. Production will start in 2021 and sales revenues from this new contract are estimated to be worth MSEK 10 over the next five years.

The electric water pump has the following key benefits:

- 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 >40,000 hours,
- Integrated diagnostics and utilising sensors for temperature and pressure, and
- Compact and low noise characteristics.

To achieve the required power density for off-highway applications the new engine has twin-turbo chargers which require additional engine cooling to optimise performance and engine reliability.

Concentric AB has designed and developed using advanced analysis techniques a bespoke electric coolant pump which provides an additional secondary cooling circuit to temperature control the turbo charged exhaust air to optimise fuel combustion, engine cooling aiding overall engine reliability. This new e-pump is also designed to withstand the arduous and demanding environment of off-highway applications.

David Woolley, CEO and President of Concentric AB, commented, "This is an exciting application for Concentric AB. It demonstrates that the combination of class leading coolant pumps and intelligent electric motors and controllers can provide durable and efficient solutions across the full spectrum of power train solutions ranging from ICE, BEV through to fuel cells as the environment demands more sustainable solutions".

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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, China and Argentina. 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. The Group has a turnover of circa MSEK 1,500 and circa 700 employees.

