



Concentric's patented dual cone clutch (DCC) selected for use in truck brake air compressors

Concentric AB has been awarded a contract to supply its new Dual Cone Clutch (DCC) to a Tier 1 brake air compressor manufacturer for use in on-highway applications with one of the world's leading OEM's of trucks, buses, construction equipment and industrial engines. Production will start in 2022/23, with total revenues through to the end of 2026 estimated to SEK 60 million.

Significant benefits have been identified for long haul truck applications, where the DCC enables the brake air compressor to be switched off for more than 80% of the running time, reducing fuel consumption and more importantly, reducing CO₂ emissions. The clutch is integrated within the brake air compressor housing to minimise packaging space, reducing weight and also noise emissions.

Particular focus was placed on design & analysis techniques during the development of this new dual cone clutch to optimise the system's performance and reliability, as well meeting demanding packaging requirements. In this application, the dual cone clutch is pneumatically actuated, operates with extremely low wear levels and is also a fail-safe system.

David Woolley, CEO of Concentric AB, commented, "This project represents a completely new patented product and end application for Concentric with further opportunities for growth. The dual cone clutch technology demonstrates our ongoing commitment to innovation, efficiency and absolute product reliability. The end user payback is rapid based on reduced fuel consumption and lower CO₂ emissions".

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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 2,000 and circa 800 employees.