

First ever rotary lobe compressor can be applied to pneumatic conveying

Germany's Aerzener Maschinenfabrik has been manufacturing rotary lobe blowers since 1868 and screw compressors since 1943. After more than three years of field trials performed under arduous conditions the company has now launched its ground-breaking Delta Hybrid series: rotary lobe compressors which represent a synergy of blower and compressor technology. By combining the technical advantages of both concepts, it offers completely new possibilities for generating positive pressure or vacuum in air and neutral gas applications.

A total of seven patents, some still awaiting authorisation, make the Delta Hybrid one of the most innovative products in compression technology. While low-pressure applications call for the Roots-principle of isochoric compression, the screw compressor – with its internal compression – becomes the preferred choice for its energy efficiency in higher pressure ranges. The Delta Hybrid delivers energy savings of up to 15% compared to conventional compressors. Thanks to its use of a purely reactive discharge silencer, it is suitable for use in pneumatic conveying systems employed in the food industry, reducing potentially costly cleaning and interruption of production. www.aerzen.com



The Delta Hybrid from Aerzener Maschinenfabrik offers specially developed 3+4 rotor profile with internal compression for low pressure applications, or (right) 3+3 rotor profile with twisted lobes and patented pulse charging as well as low squeeze losses