

Press Release

Oerlikon Barmag at the ACHEMA in Frankfurt

High-speed pumps for complex applications

Remscheid, May 04, 2018 – increased productivity and lifespan and tailored solutions also for demanding applications in the chemical industry – these are the convincing arguments with which Oerlikon Barmag is presenting its precision metering pumps at this year’s ACHEMA between June 11 and 15, 2018 in Frankfurt (Hall 8, Stand E4).

Pumps for all purposes

Oerlikon Barmag pumps master demanding processes in the chemicals, plastics, paints and lacquers industries as well as in PUR applications. One of the biggest challenges is metering poorly-lubricating media. With the GM and GA ranges and the corresponding components, Oerlikon Barmag supplies the optimum equipment for the relevant applications. The high-speed pump in particular fulfills the expectations of the chemical industry with its sealed product space.

High-speed metering pump with sealed product space

The high-speed metering pump has been especially developed for metering poorly-lubricating media. “The high-speed pump is particularly advantageous in the chemical industry, which conveys aggressive acids”, reports Thorsten Wagener, the salesman responsible for industrial and chemical application pumps at Oerlikon Barmag.

The main advantage of the pump is the sealed product space. The space within the pump that comes into contact with the media is therefore limited to the area around the gears. The external, ball-bearing support points in the high-speed pump are externally lubricated, hence ensuring that the product to be metered does not cause damage as a result of poor lubrication. This extends the lifespan of the pump considerably.

Furthermore, the enlarged speed range (30 - 500 rpm) permits a large application range for which several pumps of varying sizes have had to be used to date. This cuts back on conversion times, while simultaneously reducing spare parts inventories. With its low weight of 1.4 kg, the compact pump (ø65mm) promises both considerable space savings and less wear on the machine.

GM range under the most challenging conditions

The pumps in the GM and GA series provide precision metering with low-pulsation feeding of the conveying medium. The multi-stage GM pump conveys low-viscosity media (i.e. 250 bar, 100 mPas) even under high pressure and in the most challenging conditions. The square design from the proven GM series is the standard pump for many metering tasks. The development of the multi-stage pump expands the applications range for the GM series considerably. The round 2-stage GM pump has been developed especially for use in high-pressure technology. It masters the particular challenge of conveying small throughputs with low viscosities. The pump is perfect for 0.05 through 20 cm³/rev feed sizes and is excellently suited for use in high-pressure machines for PUR molded parts, foam slab stock, refrigeration unit insulations and sandwich panels, for example.

GA series pumps for high-viscosity media

Manufacturing companies are constantly facing the challenge of making their products and processes more efficient. Oerlikon Barmag has supplemented the tried-and-tested GM range with the GA series, developed especially for the challenging conveying of high-viscosity media. The GA series pumps are available for conveying volumes of between 1.25 – 30 cm³/rev (0.6-144 l/h). They have been designed for pressures of up to 200 bar, for viscosities of up to 1,500 Pas as well as for temperatures of up to max. 225°C. With this range of pumps, Oerlikon Barmag offers its customers tailor-made solutions for many technical processes in which high-precision and even metering is of paramount importance.

The drum pump – conveying and metering using a single unit

With the drum pump, the Oerlikon Barmag pump specialists have created a pump designed specifically for conveying and metering high-viscosity materials such as adhesives, silicones and other high-viscosity materials from drums and other large containers and for pressures of up to 250 bar. Its special features not only include the fact that it removes high-viscosity materials from the drum, but that it also meters the medium directly without any additional interim stops.

Gear pump and drum follower plate are aligned to each other so that the plate can effortlessly reach the bottom of the container, hence leaving a very low residue of < 1%. “This has a positive impact on both the material costs and the production process”, sums up Thorsten Wagener. The metering, which to date has been carried out in two steps requiring scoop-piston and metering pumps, can now be merged in into a single unit with the drum pump.

627 words



Caption:

The metering pump series for chemical applications is available with volumetric outputs ranging from 0.05 - 200 cm³/ revolution. This series is characterized by short flow channels.



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About Oerlikon

Oerlikon (SIX: OERL) develops modern materials, systems and surface technologies and provides specialized services aimed at securing high-performance products and systems with long lifespans for customers. Supported by its technological core competencies and its strong financial footing, the corporation continues its medium-term growth plan by implementing three strategic factors: focusing on attractive growth markets, ensuring structural growth and expanding through targeted M&A activities. Oerlikon is a globally-leading technology and engineering corporation, operating its business in three segments (Surface Solutions, Manmade Fibers and Drive Systems) and employing around 15,000 members of staff at 186 sites in 37 countries worldwide. In 2017, Oerlikon generated sales of CHF 2.8 billion and invested CHF 107 million in research & development.

For further information: www.oerlikon.com

About the Oerlikon Manmade Fibers segment

With its Oerlikon Barmag and Oerlikon Neumag brands, Oerlikon Manmade Fibers Segment is the world market leader for manmade fiber filament spinning systems, texturing machines, BCF systems, staple fiber systems, solutions for the production of nonwovens and – as a service provider – offers engineering solutions for the entire textile value added chain.

As a future oriented company, the research and development at this division of the Oerlikon Group is driven by energy-efficiency and sustainable technologies (e-save). With the continuous polycondensation and extrusion line systems and their key components, the company caters to the entire process with automated and digitally networked Industry 4.0 solutions – from the monomer all the way through to the textured yarn.

The primary markets for the product portfolio of Oerlikon Barmag are in Asia, especially in China, India and Turkey, and – for those of Oerlikon Neumag – in the USA, Asia, Turkey and Europe. Worldwide, the segment – with just under 3,000 employees – has a presence in 120 countries of production, sales and distribution and service organizations. At the R&D centers in Remscheid, Neumünster (Germany) and Suzhou (China), highly-qualified engineers, technologists and technicians develop innovative and technologically-leading products for tomorrow's world.

For further information: www.oerlikon.com/manmade-fibers