

Press Release

PU TECH India 2017

Oerlikon Barmag pumps – metering with superlative precision

Remscheid, February 13, 2017 – at this year’s PU TECH, the international trade fair for the polyurethane industry which will be taking place in New Delhi, India between March 08 and 10, Oerlikon Barmag will be presenting components used in technologically demanding processes, such as PUR applications or in the dye and paints industry, (hall B, booth number G17). Polyurethanes are versatile plastics that – as a result of their properties – cover a broad range of applications within the automobile industry and the wind power sector, for example.

High-tech components for high-performance compound materials

Today, extremely strong and resilient components are playing an ever-greater role in an increasingly large number of applications. Here, the quality of these components depends decisively on the precisely-defined mixing ratio between the various constituents during the manufacturing process. Oerlikon Barmag metering pumps are responsible for the precise metering of the various liquid materials in the numerous chemical processes carried out during the production of these components. In addition to the high quality of the end products, they ensure that production is highly-efficient – something that is reflected in shorter product conversion times and lower waste rates.

The GA range of pumps has been especially designed for conveying media with higher viscosities of up to 1,500 Pas as well as for temperatures of up to a maximum of 225 °C. Furthermore, it is characterized by its short flow channels and the utilization of highly wear-resistant tool steels. With the new range of pumps, Oerlikon Barmag offers tailor-made solutions for applications requiring accurately-defined, even metering.

Drum pumps – conveying and metering in a single unit

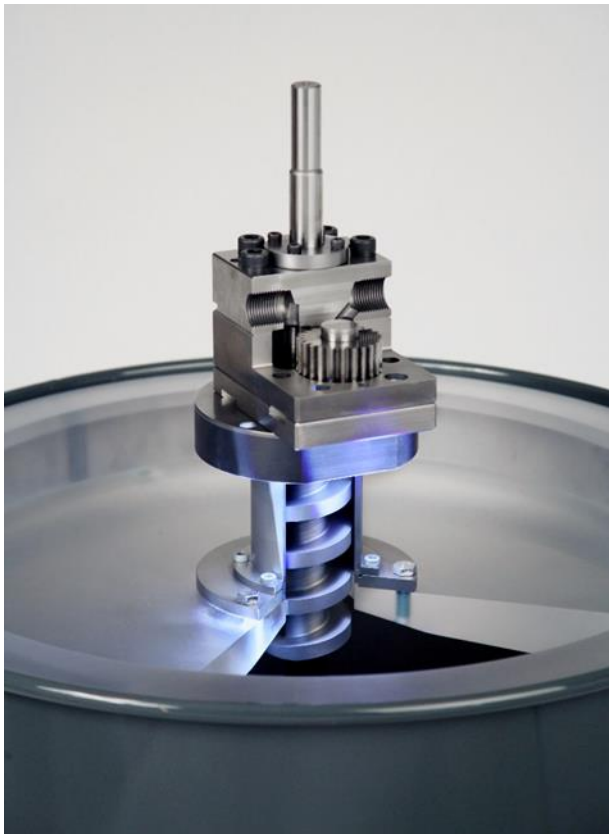
Oerlikon Barmag’s drum pump has been designed for conveying and metering high-viscosity materials, such as adhesives, silicones, etc., from drums. Karl-Peter Warda, responsible for industrial and chemical application pumps at Oerlikon Barmag: “The drum pump not only removes high-viscosity materials from the drum, it also meters the medium to the mixer head without any additional interim stops and with the customarily-high volumetric degree of efficiency. The advantage here lies in the fact that the scoop-piston pumps used to date can be dispensed with.”

Specialists for chemical applications in the pressure range up to 80 bar ...

Tailored to customer-specific processes, the company supplies magnetically-coupled metering pumps for high-precision metering of, for example, toxic materials in hermetically-sealed environments. Shaft seals with stuffing box, shaft sealing ring or slide ring seals are possible for standard applications as well. In addition to the design in rust- and acid-resistant, hardened steel, a wear-protection layer (DLC) for abrasive or poorly-lubricating media protects the pump and can therefore increase its lifespan.

... and for high-pressure

The GM series with the round plate package has been expanded to include an option for the pressure build-up capacity especially for use in high-pressure technology with small throughputs and low viscosities. It is available in 0.05 through 20 cm²/rev feed sizes and guarantees the build-up of the required high operating pressures even at low viscosities. The improved pressure build-up capacity at low viscosities (e.g. 250 bar, 100 mPas) permits higher volumetric degrees of efficiency or a greater useable speed range. For manufacturers of PUR molded parts, foam slab stock, refrigeration unit insulations and sandwich panels, this means constant process stability at lower investment costs.

545 words

Specialist for conveying and metering of high-viscosity materials: Oerlikon Barmag's drum pump.

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About Oerlikon

Oerlikon (SIX: OERL) is a leading global technology Group, with a clear strategy of becoming a global powerhouse in surface solutions, advanced materials and materials processing. The Group is committed to investing in value-bringing technologies that provide customers with lighter, more durable materials that are able to increase performance, improve efficiency and reduce the use of scarce resources. A Swiss company with over 100 years of tradition, Oerlikon has a global footprint of over 13 500 employees at more than 170 locations in 37 countries and sales of CHF 2.7 billion in 2015. The company invested CHF 103 million in R&D in 2015 and has over 1 350 specialists developing innovative and customer-oriented products and services.

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, nonwovens and artificial turf systems 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. With the expansion of the product range to include polycondensation systems and their key components, the company now caters to the entire process – from the monomer all the way through to the textured yarn. The primary Oerlikon Barmag markets are in Asia, and – for Oerlikon Neumag – in the USA, Turkey and China. Correspondingly, Oerlikon Barmag and Oerlikon Neumag – with just under 2,500 employees – has a worldwide presence in 120 countries as part of the Oerlikon Manmade Fibers network of production, sales and distribution and service organizations. At the R&D centers in Remscheid, Neumünster and Chemnitz, highly-qualified engineers and technicians develop innovative and technologically-leading products for tomorrow's world.

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