

PU TECH India 2014

Oerlikon Barmag pumps – metering with superlative precision

Remscheid, February 20, 2014 – 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 12 and 14, Oerlikon Barmag will be presenting components used in technologically demanding processes, such as PUR applications or in the dye and paints industry, for instance (hall B, booth number G04). 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, such extremely strong and resilient components are playing an ever-greater role in an increasingly large number of applications. Here, the quality of these high-end 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. They guarantee precise material flows wherever highly-accurate metering of liquids and chemical fluids is absolutely essential to the process stability. To this end, the deviation in metering accuracy for a pump lies at $\pm 0.15\%$. 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.

Parallel to the proven GM series from Oerlikon Barmag, 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 now offers tailor-made solutions for applications requiring accurately-defined, even metering.

Especially 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

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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.

Drum pumps – conveying and metering in a single unit

Oerlikon Barmag's drum pump has been designed specifically for conveying and metering high-viscosity materials, such as adhesives, silicones, etc., from drums. Thorsten Wagener, the salesman 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."

High-pressure gear metering pump for chemical applications

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. Hence – in addition to a cost-intensive reciprocating pump – there is now also an inexpensive and robust gear metering pump available. For manufacturers of PUR molded parts, foam slab stock, refrigeration unit insulations and sandwich panels, this means constant process stability at lower investment costs.

493 words

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About Oerlikon

Oerlikon (SIX: OERL) is one of the world's leading high-tech industrial group specializing in machine and plant engineering. The company is a provider of innovative industrial solutions and cutting-edge technologies

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for manmade fiber machines, drives, vacuum systems, thin-film coating and advanced nanotechnology. A Swiss company with a tradition going back more than 100 years, Oerlikon is a global player with more than 13,000 employees at more than 160 locations in 34 countries and sales of CHF 2.9 billion in 2012. In 2012, the company invested CHF 106 million in R&D, with over 1,000 specialists working on future products and services. In most areas, the company ranks either first or second in the respective global markets.

About Oerlikon Barmag

Oerlikon Barmag is the world market leader for spinning systems and equipment for manmade fibers such as polyester, nylon and polypropylene and for texturing machines. As a service provider, Oerlikon Barmag offers engineering solutions along the entire textile value-added chain. As a future-oriented company, Oerlikon Barmag attaches great importance to energy efficiency and sustainable technologies in all its developments. The company's core competencies include the manufacture of the corresponding components for the production of manmade fibers such as extruders, winders, pumps and godets. Oerlikon Barmag has also established itself as a successful niche-market supplier: winders for special yarns and tape and monofilament systems are developed and manufactured at the Chemnitz site.

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