

Oerlikon Barmag pumps at the Bondexpo 2014 in Stuttgart

## Highest precision for high-viscosity media

Remscheid, September 08, 2014 – whether for bonding, for casting or for insulating, for sealing or for foaming – at this year's Bondexpo, the international trade fair for bonding technology, Oerlikon Barmag will be showcasing its gear metering pump program specifically designed for the joining/binding work steps. Between October 06 and 09, the company will be presenting – among other things – components for silicone processing and hot-melt adhesive applications, but also for processing resins and polyurethanes and other higher-viscosity liquids.

### **Efficiency in mastering viscous media – the GA series**

When applying hot-melt adhesives, the focus lies above all on the evenness of the application. However, precise metering not only presupposes the fast and reproducible setting of an operating point, but also low-pulsation feeding of the conveying medium. Supplementing the proven GM series, Oerlikon Barmag has now developed the GA range for conveying higher-viscosity media. The GA series is available for conveying volumes of between 1.25 and 30 cm<sup>3</sup>/rev (0.6-144 l/h). It has 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 a maximum of 225 °C. With this new program of pumps, Oerlikon Barmag offers tailor-made solutions for all applications for which precisely-defined, even metering is absolutely essential.

### **Conveying and metering using a single unit – the drum pump**

The drum pump is designed especially for conveying and metering high-viscosity materials such as adhesives, silicones, etc., from drums and other large containers and for pressures of up to 250 bar. Thorsten Wagener, the sales employee responsible for pumps used in industrial and chemical applications comments: "The drum pump not only conveys high-viscosity materials from the drum, it also meters the medium to the mixing head without any additional interim stops and with the customary volumetric efficiency." In close agreement with the customer, the gear pump and drum follow-up plate are harmonized in such a way as to ensure that the plate can effortlessly reach the bottom of the container, hence guaranteeing a very small amount of residue totaling <1%. This has a positive impact on both the materials costs and the production process.

Page 2

**Working under high pressure**

In high-pressure technology, conveying small volumes with low viscosities is a particular challenge. Specifically for this application, Oerlikon Barmag has expanded the GM series with round plate package to include an option for the pressure build-up capacity. This multi-stage pump is available for conveying volumes of between 0.05 and 20 cm<sup>3</sup>/rev and guarantees the generation of operating pressures even at low viscosities (for example, 250 bar, 100 mPas). To this end, higher volumetric efficiencies or a larger useable speed range can be achieved. The robust gear metering pump ensures continual low-pulsation operation. Hence, high-pressure applications conveying minimum flow-through rates (for example, 0.5g – 1.5g/sec.) can also be covered for the very first time. For the manufacturers of PUR molded parts, block foams, refrigeration unit insulation and sandwich panels, this means consistent process stability and low investment costs.

**One for all – high-speed metering made easy**

The new high-speed metering pumps have been developed especially for lightly-lubricating and abrasive media. With their enlarged speed range (30 - 500 rpm), they cover a large application area for which several pumps of varying sizes have had to be used to date. For the manufacturer, this means less work when switching production and smaller spare parts inventories. The compact construction of the pump (ø65 mm) reduces the space required in the machine and the low weight (1.4 kg) keeps the load as low as possible, which in turn has a positive impact on the construction of the machine. The external lifetime-lubricated ball-bearings ensure that the pump is not only very durable, they also do not come into contact with the respective product.

635 words

For further information:

Ute Watermann  
Corporate Communications  
Tel. +49 2191 67-1634  
Fax +49 2191 67-70 1634  
[ute.watermann@oerlikon.com](mailto:ute.watermann@oerlikon.com)

André Wissenberg  
Marketing & Corporate Communications  
Tel. +49 2191 67-2331  
Fax +49 2191 67-1294  
[andré.wissenberg@oerlikon.com](mailto:andré.wissenberg@oerlikon.com)

Page 3

**About Oerlikon**

Oerlikon is a leading high-tech industrial group specializing in machine and plant engineering. The company is a provider of innovative industrial solutions and cutting-edge technologies for manmade fibers manufacturing, drive systems, vacuum, surface solutions and advanced nanotechnology. A Swiss company with a tradition going back over 100 years, Oerlikon is a global player with around 15 500 employees at over 170 locations in 35 countries and sales of CHF 2.9 billion in 2013. In 2013, the company invested CHF 122 million in R&D, with over 1 000 specialists working on future products and services. In most areas, the operative businesses rank either first or second in their respective global markets.

**About Oerlikon Barmag**

Oerlikon Barmag is the global leader in the construction of spinning facilities for such synthetic fibers as nylon, polyester and polypropylene as well as texturing machines. Core competencies in this area include plant design, facility design and construction, and the production of related components like winding heads, pumps and godets. Located at the business unit's headquarters in Remscheid, Germany, the Oerlikon Barmag R & D center is the largest of its kind in the world. Here, over 100 engineers and technicians develop technologically-leading products for the future.

For further information: [www.oerlikon.com/manmade-fibers](http://www.oerlikon.com/manmade-fibers).