

Press release

Oerlikon Barmag at K'2016

New baler yarn winder permits profitability increases of up to 50 percent

Chemnitz, Remscheid, July 05, 2016 – between October 19 and 26, Oerlikon Barmag will be informing visitors to this year's international plastics trade fair in Düsseldorf about new developments in the fields of extrusion equipment (Hall 16, Stand F18) and pump engineering (Hall 10, Stand B60).

Tape yarns for many different applications

In Hall 16 the main focus will be on solutions for tape production. The new developments from the Chemnitz-based think tank focus mainly on the EvoTape machine combined with the automatic tape yarn winder WinTape and – a trade fair premiere – an automatic baler yarn winder. Presented for the first time at the K three years ago, the combination of tape system and winder yields significant profitability increases of as much as 50% – not only for carpet backing and geotextiles processes, but now also for baler yarn processes – compared to standard machines available on the market. EvoTape 800 and WinTape mini also offer an economical solution for sack and big bag fabric. WinTape mini was developed specifically for the production of tape yarns which are round-woven during further processing. With a winding speed of 800 m/min and a denier range of 400 to 2500 dtex the winder is an impressive performer.

Upturn in artificial turf market has positive impact on monofilament production

Substantial growth in the artificial turf market over the past year has boosted demands for solutions in monofilament production. Once again the extrusion equipment specialist Oerlikon Barmag is able to come up with customized solutions: from the spinning shop to texturing and spiral wrapping, Oerlikon Barmag services the entire process.

High-speed extrusion pump for greater throughput rates

In Hall 10 Oerlikon Barmag's pump specialists will be presenting the new high-speed extrusion pump, which achieves greater throughput rates with a lower investment volume. With the increased speeds it is possible to achieve a much greater throughput setting range reducing pulsation at the same time. Furthermore the reduced friction surfaces make for a smaller temperature increase in the melt and therefore for more efficient and energy-saving production.

The improved process characteristics with higher throughput rates come on top of the already familiar benefits offered by the Oerlikon Barmag extruder pumps. These include a marked volumetric efficiency, a special compressive strength, high leak tightness and long service life. The combination of these advantages enable to end user to achieve double the throughput rates with the same pump size, but a substantially smaller melt temperature increase.

Concentrated flexibility – The GM ‘E’ gear metering pump

The pumps of the GM series have been developed specifically for use under difficult conditions. They provide high-precision metering even in the most demanding situations, e.g. when pumping low-viscosity media under high pressure. The latest member of this sturdy pump family is the GM ‘E’ type pump.

With a greater setting range in the ratio of 1:40 and the resulting throughputs of 0.5 ml/min. to 40 l/min. the ‘E’-type pump covers a substantially wider production window. For the manufacturers of various components of polyurethane systems - such as foam blocks to make mattresses - this means that the number of pumps needed can be cut by as much as 50%. According to the individual pump type, the flexibility in production is also increased. In addition a system requires fewer pump variants because of the expanded production window, which in turn has a positive effect in terms of spares stocking and servicing effort.

The compact design and low weight of the pump keep the load on the machine as low as possible, which has a positive impact on service life. Assembly and disassembly are simpler thanks to the use of centering dowels and this significantly cuts the manpower needed for servicing.

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The GM ‘E’-type pump with an active bearings lubrication and an optimized inlet geometry to improve pump filling.



Combined with the automatic WinTape tape yarn winder the EvoTap extruder offers an increase in profitability of as much as 50%.

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About Oerlikon

Oerlikon (SIX: OERL) is a leading, globally-active technology group with a clear strategy to develop into a leading provider of surface solutions, state-of-the-art materials and materials processing. The group invests in value-generating technologies, with which customers can be supplied with lighter and more durable materials that increase performance, improve efficiency and reduce the use of scarce resources. As a Swiss company with a history stretching back more than 100 years, Oerlikon and its in excess of 13,500 employees are present at more than 170 sites in 37 different countries. In 2015, sales totaled CHF 2.7 billion. The company, which invested CHF 103 million in research and development in 2015, employees more than 1,350 specialists for 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 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