

Press Release

Oerlikon Barmag pumps – the material is what makes the difference

Robust pumps for sophisticated special fibers

Remscheid, November 12, 2020 – at first glance, rowing boats, the Airbus 380, safety equipment and stadium roofing have very little in common. They receive their specific properties as a result of the use of special fibers, among other things: aramid fibers and carbon fibers are processed into special yarns that are frequently deployed as compound materials. These fibers are growing in demand as the world seeks to reduce its reliance on fossil fuels; new solutions are required to reduce weight and replace heavy metallic parts.

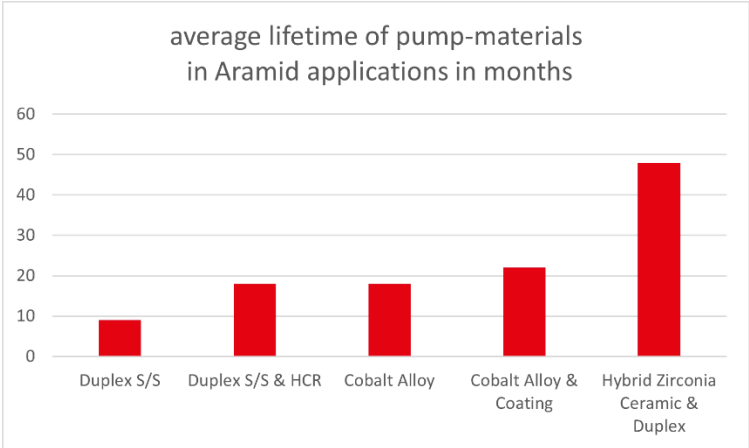
Aramid fibers are produced in a highly-chemical process that is extremely aggressive; the acrylic precursor used to manufacture carbon fibers is a different process, but again no less difficult. In these sophisticated processes, the gear metering pumps are not only responsible for the high-precision control of the melt transport; durability, resistance within aggressive environments and cost efficiency also play decisive roles.

Special materials for special tasks

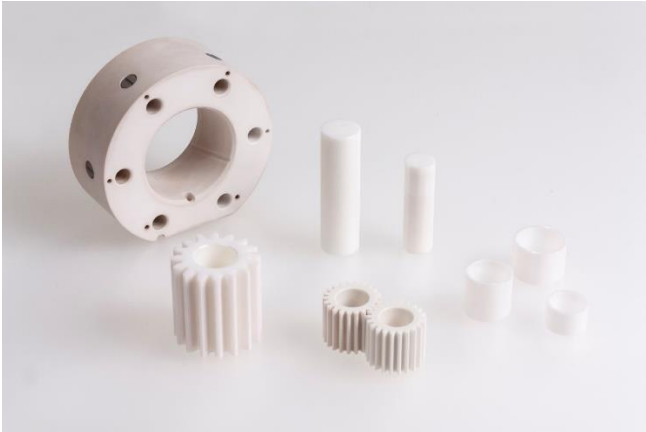
The process, the expected pump lifespan and the maintenance frequency are the decisive factors for choosing the materials from which the pumps and their components are manufactured. For optimum results, Oerlikon Barmag offers solutions that intelligently combine the various materials and the latest technologies. Whether in the case of surfaces with ceramic coatings, gears and shafts featuring DLC coatings, pumps made from cobalt alloys (Stellite™) or robust and durable Oerlikon Barmag hybrid constructions comprising zirconium oxide ceramic and duplex stainless steel – the high-precision ZP- and GM-series pumps are design-optimized depending on the intended use. Various seal systems and customized drive concepts round off the pump program.

With this, Oerlikon Barmag customers have technologically-leading, reliable solutions for the high-precision metering of disparate media in complex processes for all applications at their disposal.

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Caption: Average lifespan of gear metering pump components in aramid applications



Caption: Pump components made from zirconium oxide ceramic are characterized by their particular lifespan.



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About Oerlikon

Oerlikon (SIX: OERL) engineers materials, equipment and surfaces and provides expert services to enable customers to have high-performance products and systems with extended lifespans. Drawing on its key technological competencies and strong financial foundation, the Group is sustaining mid-term growth by addressing attractive growth markets, securing structural growth and expanding through targeted mergers and acquisitions. A leading global technology and engineering Group, Oerlikon operates its business in two Divisions – Surface Solutions and Manmade Fibers – and has a global footprint of around 11 000 employees at 182 locations in 37 countries. In 2019, Oerlikon generated CHF 2.6 billion in sales and invested more than CHF 120 million in R&D.

For further information: www.oerlikon.com

About the Oerlikon Manmade Fibers division

With its Oerlikon Barmag, Oerlikon Neumag and Oerlikon Nonwoven brands, the Oerlikon Manmade Fibers division is one of the leading providers of manmade fiber filament spinning systems, texturing machines, BCF systems, staple fiber systems and 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 its range of polycondensation and extrusion systems and their key components, the company caters to the entire manufacturing process – from the monomer all the way through to the textured yarn. The product portfolio is rounded off with automation and Industrie 4.0 solutions.

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 and Oerlikon Nonwoven – in the USA, Asia, Turkey and Europe. Worldwide, the division – with more than 3,000 employees – has a presence in 120 countries with 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-fiber