

Fluid-o-Tech strengthen its leadership in Shape Memory driven miniature valves investing in Memetis GmbH.

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Fluid-o-Tech invests into the Deep-Tech German Start-Up Memetis GmbH which produces the world's most compact and lightest commercially available valves driven by shape memory actuators.

"This strategic investment represents for Fluid-o-Tech the unique opportunity to strengthen our leadership in shape memory valves and our presence in the life science and health tech market. This is a key enabling block to support our transition to smart, high value added solution" states Diego Andreis, Managing Director of the family-owned company.

Memetis will be joining forces with Dolphin Fluidics, founded by Fluid-o-Tech to enter the digital proportional valves based on shape memory actuators spaces with the aim to overcome the limits of solenoid based electromechanical valves, with accurate, low energy, silent, digital enabled solutions. The extremely compact valves of Memetis complement the portfolio in an ideal way. Francesco Butera, Managing Director of Dolphin Fluidics emphasizes that "with 30 years of experience and an extensive and strong patent portfolio we are the world leader group for digital valves based on Shape Memory technology from micro to macro."

Memetis GmbH started as a Spin-Off from the Karlsruhe Institute of Technology (KIT), where co-founders Hinnerk Oßmer, Christof Megnin, and Marcel Gültig spent several years researching different applications and properties of shape memory alloys with Prof. Manfred Kohl. "The material is the machine" states Dr. Hinnerk Oßmer when asked about the advantages of shape memory alloys. Thanks to the excellent miniaturization capabilities of this material, memetis is able to design the smallest and most powerful actuators based on SMA foil and thick film technology to develop PCR-Test devices, Peptide-Array-Synthesis and DNA-Analyzer.

"Similar to the way miniaturization has revolutionized the electronics industry, smaller and lighter actuation components as well as systems undergo an increasing demand in the life science sector." tells Dr. Christof Megnin, head of valve production at Memetis. "To address this increasing demand, Memetis decided to join forces with a strategic partner, thereby leveraging synergies and enabling new solutions for the next generation of compact microfluidic systems" Christoph Wessendorf, one of the four Memetis founders says.

"With Fluid-o-Tech, we found the perfect partner for our ambitious goals; developing products for the life science sector as well as the medical industry is a challenge, that is not easy to overcome as a small Start-Up." Dr. Marcel Gültig comments on the decision.

About Fluid-o-Tech

Fluid-o-Tech is a family-owned Italian leading company which design and manufacture pumps and fluidic modules to move, dose and sense fluids at the highest quality standards, combining mechatronics, fluidics and digital for the food service, automotive, medical, and other industrial sectors. With over seventy years of experience and the passion that the founding family is still conveying, Fluid-o-Tech has managed to build a strong reputation in fluid handling, thanks to its ability to anticipate market needs, the development of innovative solutions and ongoing investments in research and innovation, becoming a recognized global reality. The management adopts an open approach to innovation, developing cutting-edge solutions through strategic partnerships with customers, suppliers, research institutes, engineering companies and universities.

Dolphin Fluidics, part of Fluid-o-Tech Group, designs, and produce digital smart valves to mix, dose and sense fluids, combining embedded electronics, connectivity and smart actuators based on shape memory alloys, enabling new user's experience and customer value through data. "We digitalize the fluidics" is the company's mission and open innovation is the principle that inspires its talented and experienced team. Patented valves produced by Dolphin Fluidics can control flows from single drop up to hundreds of liters and find ideal use in many products and markets, from medical equipment to smart faucets and beverage dispensing equipment's.

Contact

Fluid-o-Tech

Via Leonardo Da Vinci, 40 - 20094 Corsico

T: +39 02 999 501

f.spinicci@fluidotech.it

www.fluidotech.it



About Memetis

Memetis develops miniature shape memory alloy (SMA) actuators and fluid-handling components and has built up strong expertise in their design and fabrication. These actuators are distinguished by their special two-dimensional geometries, offering a number of advantages over SMA wire-based actuators and allowing memetis to quickly adapt to market and customer requirements. Due to the broad range of applications, memetis SMA miniature actuators are used in a variety of innovative industries. memetis' strategic focus particularly lies on commercializing miniature valves for active fluidic control systems, for instance in the diagnostic, analytical and medical sector.

Contact

memetis GmbH

Gablonzer Strasse 27 - 76185 Karlsruhe

T: +49 721 47000240

info@memetis.com

www.memetis.com

