

20 years of alliance for the benefit of our mutual customers



PRESS RELEASE
June 2023

FOSECO, the foundry division of Vesuvius and a world leading supplier of casting consumables, and MAGMA, a world leader in casting process simulation and virtual optimization, celebrate the 20th anniversary of their strategic alliance with the release of a new version of the FOSECO Pro module.

In 2003, the two companies agreed to join forces to support their mutual customers with their complementary product portfolios. At that time, FOSECO committed to implement MAGMASOFT®, MAGMA's simulation program, in its application teams worldwide. To complement this initiative, MAGMA developed the first version of the FOSECO Pro module, a product database available exclusively to our joint customers. The FOSECO Pro module was the first database in the world to cover the main FOSECO feeding & filtration products, in terms of their 3D geometries and the modelling of their performance during the casting process. This allows the user to quantitatively consider the FOSECO product range in their simulation analyses.

The FOSECO Pro module, successfully used by a large number of foundries worldwide, has now been upgraded to meet growing

demands in terms of usability and support for new FOSECO products.

The new version of the Pro module provides MAGMASOFT® users with a state-of-the-art database that is fully integrated into the new MAGMASOFT® 6.0 user interface. The database allows the user to review and select from the available FOSECO product range, loading 3D assemblies of the respective geometries and product properties. The module continues to be fully compatible with MAGMA's unique Autonomous Engineering capabilities, enabling users to select the best possible products for the given quality requirements.

New capabilities have been added to select not only suitable filters, but also the geometry of the recommended filter core-prints. For steel foundries, the Pro module will now offer the selection of innovative FOSECO products such as the HOLLLOTEX shroud pouring system, with the complete assembly of diverters or filter boxes conveniently available. This will assist steel foundries in the design of gating systems and the optimisation of their casting processes using simulation.

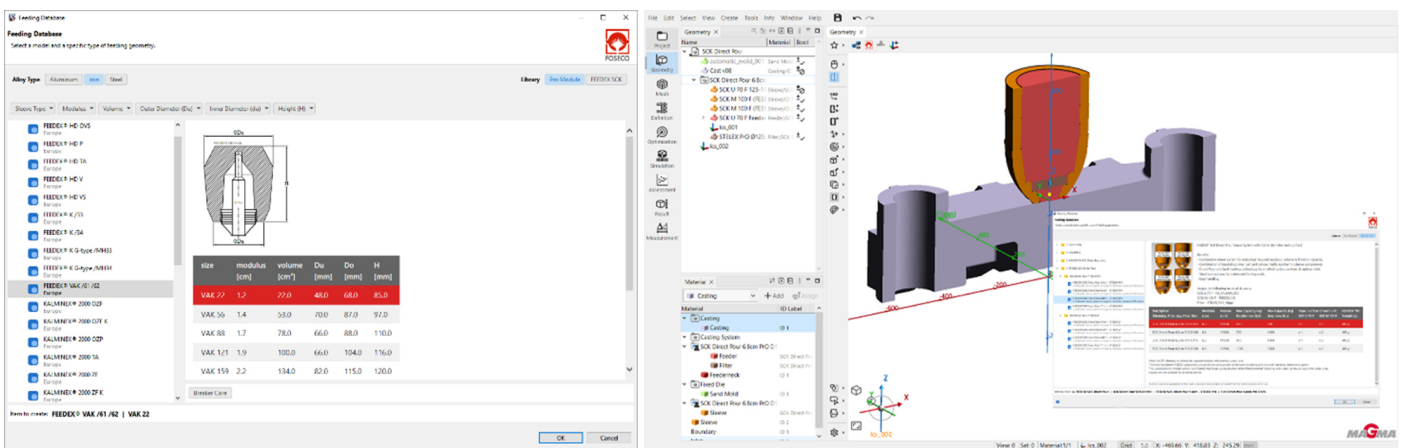


Figure 1: New user experience of the FOSECO Pro module

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FOSECO and MAGMA are committed to continuing their alliance, developing better tools and services for the benefit of their mutual customers.

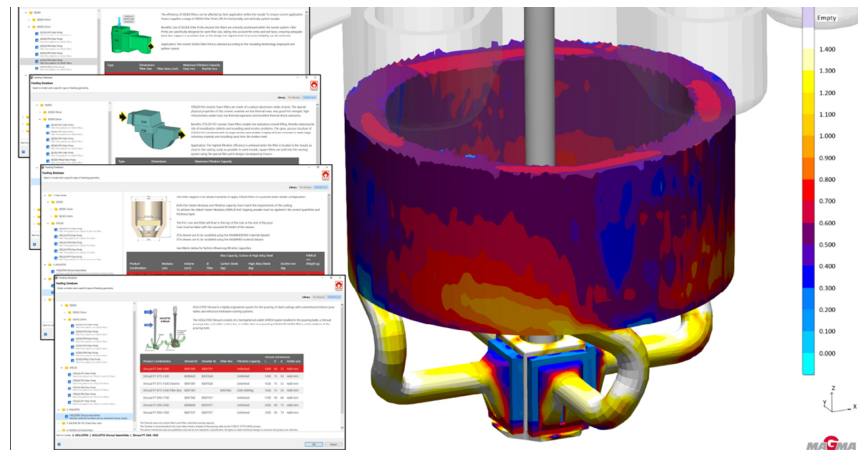


Figure 2: Integrated modeling of new filtration and gating related geometries

About FOSECO

FOSECO, the Foundry Division of VESUVIUS plc, is a global leader in products and solutions for improving foundry performance. Our aim is to enable improved foundry performance by working alongside our customers to develop and apply products and services that produce better casting quality and higher productivity at lower costs in a safe and healthy working environment.

About VESUVIUS

VESUVIUS PLC is a global leader in metal flow engineering, providing a full range of engineering services and solutions to its customers worldwide, principally serving the steel and foundry industries. VESUVIUS PLC is a signatory to the United Nations Global Compact, making a formal public commitment to support its principles on human rights, labour, environment, and anti-corruption, and to engage in activities, which advance the development of the UN's Sustainable Development Goals. Our environmental objectives revolve around fighting climate change by reducing our own CO₂ emissions and helping our customers reduce their own CO₂ footprints. We have set ourselves the goal of reaching a net zero carbon footprint at the latest by 2050. VESUVIUS: creating a Better Tomorrow for Our Planet, Our Communities, Our People and Our Customers.

About MAGMA

MAGMA is a worldwide leader in developing and providing software for casting process simulation and virtual optimization. MAGMA stands for robust, innovative cast solutions and for reliable partnerships with the metal casting industry, including casting designers and buyers. MAGMA's products unite the complexity of the casting process with user-friendliness to create economical solutions for its customers. MAGMA partners with its customers in the integration and effective use of the software, helping them to realize clear cost advantages. MAGMA's range of products and services includes the simulation software MAGMASOFT® autonomous engineering, for virtual

designs of experiments and autonomous optimization of casting processes, as well as comprehensive engineering services for casting design and process optimization. Today, MAGMA's software is used by more than 2000 companies all over the world for cost-effective casting production, reduced quality costs and for establishing robust processes for all applications, particularly in the automotive industry and mechanical engineering. With the MAGMAacademy, MAGMA provides extensive implementation and educational offerings for all topics associated with casting process simulation. MAGMASOFT® users, together with their colleagues and managers, learn in trainings, workshops and seminars how they can use simulation and virtual optimization for optimizing casting design processes, lowering production costs and increasing resource efficiency. MAGMA Giessereitechnologie GmbH was founded in 1988 and is headquartered in Aachen, Germany. A global presence and support are guaranteed by offices and subsidiaries in the USA, Singapore, Brazil, Korea, Turkey, India, China and the Czech Republic. Additionally, more than 30 qualified partners represent MAGMA around the world.

www.magmasoft.de/en

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