

Press Release

Title: MAGMA at GIFA SEA 2025

MAGMA Singapore highlighted its leadership in casting process optimization at GIFA Southeast Asia 2025, held on 17–19 October 2025 at BITEC Bangkok, presenting real customer case studies, onsite casting defects discussions, and daily live demonstrations.

The company's booth featured casting parts from customers, each paired with a simulation case study. Visitors experienced how MAGMASOFT® enables foundries to reduce scrap, improve yield and solve production challenges by linking virtual simulations with real production results.

A major attraction was the Casting Defects Clinic, where visitors brought their own parts and photos for on-the-spot analysis. MAGMA engineers reviewed issues such as porosity, shrinkage, hot tears, and cold cracks, demonstrating how simulation identifies root causes and supports corrective measures.

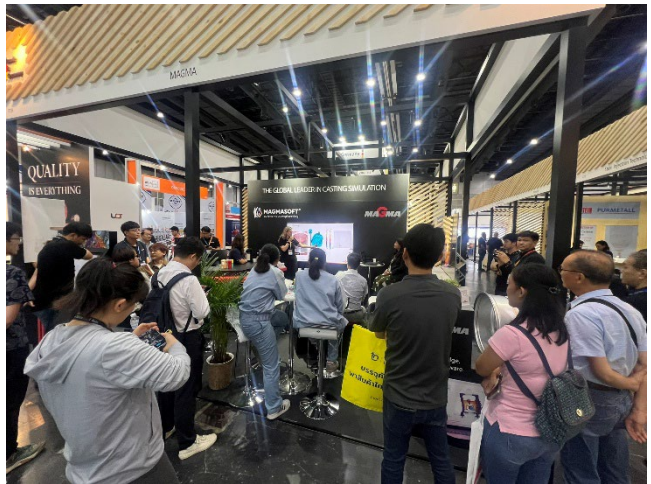
"The combination of real casting case studies, and live problem-solving gave visitors a holistic view of what simulation can deliver, showing that solutions can be effective, practical, and economically feasible," said Luciana Stuewe, Chief Operating Officer at MAGMA Singapore.

Daily live demonstrations of Low Pressure Die Casting, Cast Iron, and High Pressure Die Casting showed how design and process adjustments can positively affect filling, solidification, and reduce defect risks.

"From attending the live demo presentation, I realized that starting a new project or introducing a new model is no longer a difficult task. The simulation program serves as a powerful tool that supports design, trial and error, and performance evaluation—whether it's related to defects, air entrapment, which are common in HPDC, or cooling system design. The program can highlight hot spots on the part, enabling us to design more easily and efficiently. I am glad I had the opportunity to join the session." commented Mr. Jeerasan Kamthornsawat, Supervisor Engineer, Mitsubishi Electric Automation (Thailand) Co., Ltd.

In addition, MAGMA application engineer Auttachai Utsajai delivered a presentation titled "A New MAGMASOFT® Perspective on Cost & CO₂ Footprint Calculations,". The session introduced MAGMA ECONOMICS, which integrates cost estimation and environmental impact into simulation for smarter, more sustainable decision-making.

Through interactive exhibits and innovative tools, MAGMA Singapore reaffirmed its commitment to enabling foundries worldwide to achieve cost-efficient, high-quality, and sustainable casting processes.



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, 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, Mexico and the Czech Republic. Additionally, more than 30 qualified partners represent MAGMA around the world.

MAGMA's operation in Asia started with the foundation of MAGMA Engineering Asia-Pacific Pte Ltd in Singapore in the year 1996. It acts as headquarter of MAGMA in Asia and is located at the German Centre in the International Business Park at Jurong in Singapore.

MAGMA Asia delivers not only our products MAGMASOFT® and SIGMASOFT® but well-established localized training courses, customer support, project engineering services, and continues to strive to offer the best and most comprehensive services and casting process knowledge as a solution provider to support our customers for casting design and optimization.

For more information about MAGMA Engineering Asia-Pacific, please visit www.magmasoft.com.sg

For press release inquiries, please contact:

MAGMA Engineering Asia-Pacific Pte Ltd

Email: press@magmasoft.com.sg
