HENNECKE
PUR SOLUTIONS

# Innovative Machine Technology Strengthens Research and Education

**Sankt Augustin, April 2026.** As part of the FSK Seminar Polyurethane Technology (April 13–16, 2026) at the Institut für Kunststofftechnik (IKT) at the University of Stuttgart, Hennecke PUR Solutions officially handed over a HIGHLINE MK2 to the institute. The machine will remain at the IKT as a long-term loan and will be permanently available for research projects, development work, and student projects. The handover marks the beginning of a long-term partnership between Hennecke PUR Solutions, IKT Stuttgart, and the Fachverband Schaumkunststoffe und Polyurethane e.V. (FSK), organizer of the seminar.

> *„ The new system enables IKT to address complex research and industrial questions quickly and in great detail. At the same time, it creates ideal conditions for further expanding our training, research, and continuing education offerings at the University of Stuttgart.“*
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> PROF. DR.-ING. CHRISTIAN BONTEN
> HEAD OF THE INSTITUTS FÜR KUNSTSTOFFTECHNIK, UNIVERSITY OF STUTTGART

## A No-Compromise All-Rounder in the High-Pressure Class

For more than 80 years, Hennecke PUR Solutions has been a global technology leader in machinery, systems, and turnkey solutions for polyurethane and reactive plastics processing, standing for technological innovation as well as efficient and sustainable production solutions.
The HIGHLINE MK2 represents the latest generation of Hennecke high-pressure metering machines. As a compact all-rounder, it processes virtually all raw material systems, impresses with maximum mixing quality and metering accuracy, and is fully designed to meet the requirements of digitalized production environments.

**Kick-off for a new partnership:** The HIGHLINE MK2 is officially handed over to the Institut für Kunststofftechnik at the University of Stuttgart during the FSK Seminar. From left to right: Klaus Junginger (Managing Director, FSK e.V.), Prof. Dr.-Ing. Christian Bonten (Head of the IKT, University of Stuttgart), Jens Winiarz (Senior Director Sales Metering & Composites, Hennecke PUR Solutions), Prof. Dr. rer. nat. Marc Kreutzbruck (Head of IKT, University of Stuttgart), Christian Loretz (Member of the Board, FSK e.V.).

## Advanced Sensor Technology as a Testbed for the Future

The system installed at IKT goes beyond the standard configuration. Additional sensor technology captures process-critical parameters as well as extensive environmental data. Further sensors in the pump and hydraulic system provide a level of data depth not previously available. Fully equipped with IoT functionalities, the machine at IKT serves as a dedicated test environment for the further development of future features related to predictive maintenance and the use of artificial intelligence under real production conditions. Jens Winiarz, Senior Director Sales Metering & Composites at Hennecke PUR Solutions, emphasizes the strategic value of the cooperation: “The close collaboration with the renowned research and educational institution IKT allows us to test new features and functions under optimal conditions. These insights flow directly into our development work, ensuring that all customers will benefit in the future.”

## Hands-On Experience at the Core: Machine Training as a Key Element

The new system was already extensively used during the seminar. Through numerous practical demonstrations and multi-day machine training sessions, participants gained in-depth insights into the design and operation of the high-pressure metering machine, metering and mixing technology, as well as process monitoring and data acquisition. Feedback was consistently positive, with participants particularly impressed by the machine's performance, precision, and flexibility.

## A New Home for an Established Industry Seminar

The fact that IKT Stuttgart was secured as the new venue for the FSK seminar is also the result of a targeted search process. Klaus Junginger, Managing Director of FSK e.V., sees the new constellation as more than just a replacement location. With IKT Stuttgart, the association has not only found a new venue, but a partner that elevates the seminar both in terms of content and infrastructure. "All participants benefit from a modern technical center, state-of-the-art machinery, and a university environment with strong industrial ties that uniquely combines theory and practice," says Junginger.

## A Partnership Creating Added Value for All Parties

All three partners benefit from a clear win-win situation. IKT gains access to a highly advanced system for research, teaching, and student projects. FSK secures a new, long-term home for its central continuing education format. And Hennecke PUR Solutions benefits from a real-world test environment embedded in a strong industrial ecosystem, with findings flowing directly into product development.

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