

PRESS RELEASE

IKV research into optical components

New ENGEL injection moulding machine in IKV's injection moulding pilot plant

Aachen, May 2016 – The Institute of Plastics Processing (IKV) in Industry and the Skilled Crafts at RWTH Aachen University now has a new all-electric injection moulding machine of Type ENGEL e-motion 440/160 from ENGEL AUSTRIA. Rolf Saß, Managing Director of Engel Deutschland GmbH, handed over the machine to IKV during the Polymer Optics Days 2016.

The new all-electric toggle clamp injection moulding machine is specifically geared to the production of optical components. It offers the possibility of examining high-precision injection moulding and injection-compression moulding techniques. The machine has a clamping force of 1600 kN and is equipped with a 35 mm screw specially coated for transparent plastics.

IKV's research program includes a number of innovative approaches for the process control to the multi-layer building of thick-walled optics with the aim of enhancing the precision of optical components and shortening the cycle time. The general objective of the research work at IKV is to examine the process-related and mould-related challenges in the production of complex, high-precision optical components.

The head of the Institute, Professor Christian Hopmann, thanked Engel for providing IKV with the state-of-the-art injection moulding machine: "We are delighted that we are now in a position with this machine to further expand our activities in the injection moulding of optical components. ENGEL has been supporting this work for some time now and, with the new injection moulding machine, will enable research to be carried out with the latest technology. In matters of efficiency and precision, this is an important step forward for our work," he said.

www.ikv-aachen.de

www.engelglobal.com

About IKV

IKV, the Institute of Plastics Processing at RWTH Aachen University, is Europe-wide the leading research and education institute engaged in the field of plastics processing enjoying outstanding reputation. More than 300 staff are employed in finding solutions to problems connected with processing, materials technology and part design in the plastics and rubber industries. IKV's close contacts with industry and science, together with its outstanding facilities, enable cutting-edge research in plastics technology and ensure that students benefit from a comprehensive, practically oriented course of study. Plastics engineering graduates from IKV are thus sought-after experts in industry. In organisational terms, IKV is divided up into the four specialist departments of Injection Moulding, Extrusion and Rubber Technology, Part Design and Materials Technology, and Composites and Polyurethane Technology. The institute also takes in the Centre for Analysis and Testing of Plastics, and the Training and Further Education department. IKV is run by an Association of Sponsors, which currently has a membership of more than 230 plastics companies from all over the world. Univ.-Prof. Dr.-Ing. Christian Hopmann is Head of the Institute and Managing Director of the Association of Sponsors. He also holds the Chair of Plastics Processing at the Faculty of Mechanical Engineering at RWTH Aachen University.



Photo in high resolution to find on our website www.ikv-aachen.de/pressebilder.

Contact to the topic:

Institut für Kunststoffverarbeitung (IKV)
at RWTH Aachen University
Malte Röbig M.Sc.
Injection moulding/Optical components
Seffenter Weg 201
52074 Aachen, Germany
Phone: +49 241 80-96621
Fax: +49 241 80-92262
E-mail: malte.roebig@ikv.rwth-aachen.de

Press contact:

Institut für Kunststoffverarbeitung (IKV)
at RWTH Aachen University
Ulla Köhne
Head of public relations
Seffenter Weg 201
52074 Aachen, Germany
Phone: +49 241 80-96631
Fax: +49 241 80-92660
E-mail: ulla.koehne@ikv.rwth-aachen.de



Rolf Saß (left), Managing Director of Engel Deutschland GmbH, hands over the all-electric injection moulding machine ENGEL e-motion 440 to Prof. Dr.-Ing. Christian Hopmann (photo: IKV/Fröls)

