

PRESS RELEASE

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Werkzeugmaschinenlabor WZL der
RWTH Aachen University

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New research project launched

The digital control desk (PrioTisch)

The companies involved in individual and small batch production are exposed to the challenges of "batch size 1". Low repetition rates in products and processes lead to the fact that classical mechanics of planning systems do not function according to requirements. In addition, there are frequent dynamic changes in the framework conditions as a result of short-term rush and repair orders, as well as later customer requests that must be taken into account in planning and control.

Goals and procedure

The dynamics and complexity in the planning and control of individual and small series production often cannot be sufficiently taken into account. The aim of the new BMBF research project "PrioTisch" is the development and piloting of a digital control table, which supports the employees of individual and small series production in planning and control on the shop floor. Through a direct connection of the control table to the planning system as well as the integration of the machine operator using digital terminal devices, planning and control should be much more updated. With this concept, machine operators and planners can use their specific knowledge to optimize planning and control and systematically integrate it into planning and control.

Innovations and perspectives

The digital control table enables digitally networked and real-time planning and control on the shop floor with the involvement of employees, thus improving productivity, throughput time and the attractiveness of the workplace.

The new research project will be carried out in cooperation with WBA Tooling Academy Aachen GmbH, Heinz Schwarz GmbH & Co. KG and i2solutions GmbH.

Laboratory for Machine Tools and Production Engineering (WZL)

The Laboratory for Machine Tools and Production Engineering (WZL) of RWTH Aachen University has stood worldwide for more than 100 years for future-oriented research and successful innovations in the field of production technology.

Under the leadership of four professors Christian Brecher, Fritz Klocke, Robert Schmitt und Günther Schuh, the WZL is conducting research in six areas – production technology, machine tools, production

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systems, transmission technology, production metrology and quality management - on the future-oriented design of production in high-wage countries. Together with industry partners from various sectors, the WZL develops solutions for a wide variety of production scenarios in both publicly funded and bilateral projects. These activities are being consolidated on the RWTH Aachen Campus in the Cluster Production Engineering.

WBA Tooling Academy Aachen GmbH

The WBA Tooling Academy Aachen is the leading partner of the tool and die industry in the business areas of industry consulting, further education and research. The WBA can reproduce the entire process chain of tool making with its own demonstration tool shop and is developing innovative solutions together with over 80 member companies for the industry sector. As a platform for the tool and die industry, the WBA builds a connection between science and industry.

Attachment



The digital control desk (PrioTisch) © WBA

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