

PRESS RELEASE

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Werkzeugmaschinenlabor WZL der
RWTH Aachen University

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Tenth meeting of the industrial working group "Precision Manufacturing of Large Components"

Measuring on the machine tool

On September 8, 2016 the Laboratory for Machine Tools and Production Engineering (WZL) of the RWTH Aachen hosted the tenth meeting of the industrial working group "Precision Manufacturing of Large Components".

The tenth meeting of the working group, which was founded in 2012, was held under the theme "Measuring on the machine tool". The organizers of the working group were pleased to welcome not only the members of the working group (see picture) but also representatives of selected guest companies such as HerkulesGroup, Meyer Werft, Ametek and M&H Inprocess to the WZL.

The Industrial Working Group is an association of companies that cooperate on a pre-competitive basis with the Laboratory for Machine Tools and Production Engineering (WZL) at RWTH Aachen University and the Fraunhofer IPT to solve technological problems.

One focus of the current activities is the development of an internal guideline for the qualification of large machine tools to measure components as well as the realization of a corresponding technology and method demonstrator. Furthermore, the working group is working on an intuitively usable software for the operator, which estimates the temperature distribution and deformation of components in the production environment based on ambient and surface temperature data. In the future, manufacturing and measurement errors due to component temperature deformations are to be minimized through compensation or improved time planning.

The research results are treated confidentially and only made available to members of the working group. The annual research program, which is processed by the Laboratory for Machine Tools and Production Engineering (WZL) of RWTH Aachen University and the Fraunhofer Institute for Production Technology (IPT), is the result of the emerging questions and interests of the companies represented in the working group.

Those interested in becoming a member can find out more about the working group and its contacts on www.iak.praezisionsfertigung.de

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.

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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 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.

Fraunhofer Institute for Production Technology IPT

The Fraunhofer IPT develops system solutions for networked, adaptive production. Client and Cooperation partners come from the entire manufacturing industry - from aerospace technology to the automotive industry and its suppliers as well as tool and die making companies and the precision mechanics, optics and machine tool industries in particular, but also from the life sciences and many other fields. The IPT combines knowledge and experience in all fields of production technology. In the areas of process technology, production machines, production quality and measuring technology as well as technology management, it offers project partners and clients individual special solutions and immediately realizable results for the production of sophisticated components and High-tech products.

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