

Press Release

CETA Testsysteme GmbH



Hilden, November 2022

Production of leak testers by using variant generators

CETA Testsysteme GmbH Finalist of the ife-Award 2021 "Innovationspreis Losgröße 1+"
(Innovation Award Lot Size 1+)

The ife network for single manufacturer companies has named CETA Testsysteme GmbH as one of the finalists of the ife-Award 2021 "Innovationspreis Losgröße 1+" (innovation price for lot size 1+) in the category of manufacturing companies. The variant generator set up and in use by CETA for the process-reliable production of application-specific test devices has been appreciated.



Leak testers are used in industrial production lines for 100% inline leak testing as part of quality assurance. The customers work in the automotive industry, medical technology, heating and air conditioning industry, fittings and household appliance industry, packaging industry and e-mobility. They use the test devices to ensure product quality which also includes product tightness. Worldwide, several thousand CETA test devices are in use in production lines. On the customer side, typically several 10,000 to

several million products are manufactured per year and tested in the cycle of the production line. The test devices must be designed to be correspondingly robust and reliable.

After clarifying the technical details of the application and the required functionalities, the test equipment is designed to match the application. They are manufactured order-related. A pre-production is not possible due to the large number of possible variants.

The technical configuration is determined on the basis of 10 main features, whereby there are between 2 and 11 options per feature. Mathematically, this results in more than 400,000 theoretically possible combinations, but not all of them are technically feasible. A set of rules was worked out on the basis of the deliverable properties and the technical specifications. These were included in the variant generator in such a way that only those combinations can be selected that can also be technically produced.

The variant generator is integrated into the SAP Business One ERP system and controls the commercial process (e.g. pricing, dynamic creation of the quotation), the production process

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(creation of the production order, material reservation and debiting) as well as the generation of the technical configuration file, which is imported into the test device as firmware. The device configuration is automatically stored in the digital device file. This enables various evaluations that are important, for example, for material planning as well as for traceability (especially for components for which the serial numbers are tracked).



Further advantages are the acceleration of quotation generation, the simplification of work for the user as well as the reduction of possible errors. In addition to this variant generator, corresponding generators are also in use for the other CETA test device types (mass flow testers, volumetric flow testers). The use of the variant generator allows the process-safe selection and production of the appropriate test device configuration in lot size 1.

CETA press release: 3125 characters with spaces

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CETA Testsysteme GmbH - Solution partner for industrial leak and flow testing

CETA Testsysteme GmbH, based in Hilden near Düsseldorf, was founded in 1988 and has been active for more than 30 years as a manufacturer of physical measurement instruments used in leak tests and flow measurements. Compressed air and hydrogen are used as test media. These testing procedures are characterised by the fact that they can be integrated in the production line with high process reliability.

The test equipment "Made in Germany" is developed in-house and along with the components and accessories (e.g. calibration standards) are manufactured by CETA. This takes into account the high demands on the quality of the internal modules used. A comprehensive range of test devices means that the right solution can be found for almost any testing application.

Semi-automatic test stands are also offered. The test devices are used by customers for quality assurance, quality control and production assurance. The customers are mainly from the automotive industry, medical technology, heating and air conditioning industry, fittings and household appliances industry, packaging industry and e-mobility.

The company is certified according to DIN ISO 9001 and won the NRW Quality Award in 2002 in the industry category. The calibration laboratory was accredited in 2004 by the German Calibration Service (DKD) and in 2014 by the German Accreditation Body (DAkkS) - as the successor to the DKD - as a DAkkS calibration laboratory. The DAkkS calibration (compliant with the DIN EN ISO/IEC 17025 standard) meets the requirements of the IATF 16949 standard applicable in the automotive industry.

CETA Testsysteme GmbH is the first German manufacturer of leak testers to deliver its test equipment with DKD or DAkkS calibration certificate as standard since 2004. Since 2012, CETA has been consistently certified with a very good credit rating. The comprehensive range of services includes consulting, feasibility studies, commissioning, training, maintenance and calibration.

With cooperation partners in China, India, Indonesia, Korea, Mexico, Poland, Portugal, Singapore, Thailand, the Czech Republic, Turkey and Hungary and with thousands of test devices in use all over the world, CETA Testsysteme GmbH presents itself as a competent solution partner for industrial leak and flow testing.

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