

## Machine capability tests in accordance with standards

**At the end of January, Atlas Copco Tools became the first tool producer to be accredited by DAkkS (the German Accreditation Body) for machine capability tests in accordance with the industry standard VDI/VDE 2645-2. Users of rotating power tools in the torque range from 1 to 1000 Newton-meters now have an accredited service provider for the tests of their equipment which have become mandatory.**

**ZWIJNDRECHT/ESSEN, February 26, 2020.** In order to safeguard their assembly processes, industrial users are called upon to carry out machine capability tests on the tightening tools they use at regular intervals. For example, this requirement is stated in standard IATF 16949:2016 for the automotive and supplier industries and in VDI/VDE code of practice 2862, Part 2 for general industry, which have been in force for several years.

“However, to date, there has been no approved service provider, which is why the equipment concerned only received factory or ISO calibration or was subjected to non-accredited testing,” says Emil Gümüşdagli, Business Manager Calibration Services with Atlas Copco Tools Central Europe GmbH of Essen, Germany. “Thanks to our recent accreditation by Deutsche Akkreditierungsstelle GmbH (DAkkS – the German Accreditation Body) in accordance with DIN EN ISO/IEC 17025, we can now provide customers with support to meet the requirements of IATF 16949:2016 and VDI/VDE 2862, Part 2, for example if this is required in connection with an audit,” Gümüşdagli explains.

### Stability and reproducibility

The standards are based on the assumption that industrial production processes are subject to a variety of different effects. These parameters are often referred to in German as the five “Ms”, for the German words denoting human, machine, method, material and environment (ambient effects). A machine capability test verifies the stability and reproducibility of the factor “machine”, allowing an assessment of process errors to be expected as a result of machine effects. In turn, this provides a benchmark for comparing the quality of different machines. “Atlas Copco is accredited for procedures M201 to M208 in accordance with VDI/VDE 2645-2. On this basis, we can test power tools with continuous rotation in the torque range between 1 N·m (Newton-meter) and 1000 N·m “, Emil Gümüşdagli reports.

### Final clarity

“For tool users, the DAkkS accreditation of Atlas Copco Tools means that they can reliably and comprehensively meet the current requirements, which is one of the key elements of quality management,” laboratory engineer Johannes Klicker emphasizes: “Under code of practice VDI/VDE 2862, Part 2, tools used in production must be tested by an accredited test laboratory. Section 7.1.5.3.2 of standard IATF 16949:2016, which came into force some time ago, also states that “The laboratory shall be accredited and include the relevant inspection, test, or calibration service in the scope of the accreditation (certificate); the

certificate of calibration or test report shall include the mark of a national accreditation body.”

It is important for Atlas Copco Tools to ensure that tool users in all branches of industry can meet these conditions. Emil Gümüşdagli and Johannes Klicker sum up: “This is also why we are working to extend the measurement range of our accreditation and to include further procedures and locations.”

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The photo and English and Dutch text can be downloaded here:

<https://www.atlascopco.com/nl-nl/media/nieuws/vdi-vde-2645-2>



*Accreditation by Deutsche Akkreditierungsstelle GmbH (DAkKS) gives users security: “The machine capability tests which have become mandatory for shut-off tools are carried out by Atlas Copco Tools in accordance with the applicable standards,” say (from left to right) – Johannes Klicker (laboratory engineer), Emil Gümüşdagli (Business Manager Calibration Services) and Dirk Scharnowski (deputy manager of test laboratory). Atlas Copco Tools is the first manufacturer to be accredited in the torque range from 1-1000 N·m and is already working to extend the measurement range of its accreditation and to include further procedures and locations. (Photo: Atlas Copco Tools Central Europe)*

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