

Reference procedure

Force reference standard facilities for the calibration
of force transducers

Proof of competence

ISO/IEC 17025 accreditation

Testing quantities and objects

Force transducers for tensile and compression forces
Maximum object size according to DIN EN ISO 376 Annex A

Testing range

10 N to 5 MN

Expanded measurement uncertainty ($k = 2$)

10 N to 2 kN $U(F) = 0.01 \%$

2 kN to 5 MN $U(F) = 0.02 \%$

Field of application

Investigation and calibration of force-reference transducers
Generation of precision force values in tension and compression for measuring
and testing applications

References

DIN EN ISO 376:2011-09, Metallic materials - Calibration of force-proving instruments
used for the verification of uniaxial testing machines (ISO 376:2011); German version
EN ISO 376:2011, <https://dx.doi.org/10.31030/1751519>

DKD-R 3-3:2018-09, Calibration of Force Transducers (in German),
<https://doi.org/10.7795/550.20180823F>

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