

STN	Kovové materiály Kalibrácia a overovanie skúšobných strojov na jednoosovú statickú skúšku Časť 1: Trhacie stroje a lisy Kalibrácia a overovanie systému merania sily (ISO 7500-1: 2018)	STN EN ISO 7500-1 42 0322
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Metallic materials - Calibration and verification of static uniaxial testing machines - Part 1: Tension/compression testing machines - Calibration and verification of the force-measuring system (ISO 7500-1:2018)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/18

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Metallic materials - Calibration and verification of static uniaxial testing machines - Part 1: Tension/compression testing machines - Calibration and verification of the force-measuring system (ISO 7500-1:2018)

Matériaux métalliques - Étalonnage et vérification des machines pour essais statiques uniaxiaux - Partie 1: Machines d'essai de traction/compression - Étalonnage et vérification du système de mesure de force (ISO 7500-1:2018)

Metallische Werkstoffe - Kalibrierung und Überprüfung von statischen einachsigen Prüfmaschinen - Teil 1: Zug- und Druckprüfmaschinen - Kalibrierung und Überprüfung der Kraftmesseinrichtung (ISO 7500-1:2018)

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EN ISO 7500-1:2018 (E)

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European foreword

This document (EN ISO 7500-1:2018) has been prepared by Technical Committee ISO/TC 164 “Mechanical testing of metals” in collaboration with Technical Committee ECISS/TC 101 “Test methods for steel (other than chemical analysis)” the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2018, and conflicting national standards shall be withdrawn at the latest by September 2018.

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Endorsement notice

The text of ISO 7500-1:2018 has been approved by CEN as EN ISO 7500-1:2018 without any modification.

**INTERNATIONAL
STANDARD**

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**Metallic materials — Calibration and
verification of static uniaxial testing
machines —**

Part 1:
**Tension/compression testing machines
— Calibration and verification of the
force-measuring system**

*Matériaux métalliques — Étalonnage et vérification des machines
pour essais statiques uniaxiaux —*

*Partie 1: Machines d'essai de traction/compression — Étalonnage et
vérification du système de mesure de force*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 164, *Mechanical testing of metals*, Subcommittee SC 1, *Uniaxial testing*.

This fifth edition cancels and replaces the fourth edition (ISO 7500-1:2015), of which it constitutes a minor revision. The changes compared to the previous edition are as follows:

- the definitions of ΔF , Δm , Δg , E , E' , U , and U' in [Table 1](#) have been editorially revised.

A list of all parts in the ISO 7500 series can be found on the ISO website.

Metallic materials — Calibration and verification of static uniaxial testing machines —

Part 1:

Tension/compression testing machines — Calibration and verification of the force-measuring system

1 Scope

This document specifies the calibration and verification of tension/compression testing machines.

The verification consists of:

- a general inspection of the testing machine, including its accessories for the force application;
- a calibration of the force-measuring system of the testing machine;
- a confirmation that the performance properties of the testing machine achieve the limits given for a specified class.

NOTE This document addresses the static calibration and verification of the force-measuring systems. The calibration values are not necessarily valid for high-speed or dynamic testing applications. Further information regarding dynamic effects is given in the Bibliography.

CAUTION — Some of the tests specified in this document involve the use of processes which can lead to a hazardous situation.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 376, *Metallic materials — Calibration of force-proving instruments used for the verification of uniaxial testing machines*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN