



MALAYSIAN STANDARD

MS ISO 7500-1:2003

METALLIC MATERIALS – VERIFICATION OF STATIC UNIAXIAL TESTING MACHINES – PART 1: TENSION/COMPRESSION TESTING MACHINES – VERIFICATION AND CALIBRATION OF THE FORCE-MEASURING SYSTEM (ISO 7500-1:1999, IDT)

ICS: 77.040.10

Descriptors: metallic materials, static uniaxial testing machines, tension/compression, verification and calibration, force measuring machines

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Jabatan Keselamatan dan Kesihatan Pekerjaan Malaysia
Jabatan Standard Malaysia
Kementerian Pertahanan Malaysia
Lembaga Kemajuan Perindustrian Malaysia
Malaysian Iron and Steel Industry Federation
Suruhanjaya Tenaga
Universiti Malaya
Universiti Teknologi Malaysia

The Technical Committee on Test Methods for Metallic Materials which developed this Malaysian Standard consists of representatives from the following organisations:

Hicom Engineering Sdn Bhd
Institusi Jurutera Malaysia
Jabatan Kerja Raya
Lembaga Pembangunan Industri Pembinaan Malaysia
Malaysian Iron and Steel Industry Federation
Metallurgical Consultancy and Services Sdn Bhd
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SIRIM Berhad (National Metrology Centre)
SIRIM Berhad (Secretariat)
SIRIM QAS Sdn Bhd (Construction and Building Material Testing Section)
Universiti Malaya
Universiti Teknologi Malaysia

NATIONAL FOREWORD

This Malaysian Standard was developed by the Technical Committee on Test Methods for Metallic Materials under the authority of the Mechanical Engineering Industry Standards Committee.

This standard is identical with ISO 7500-1:1999 Metallic materials – Verification of static uniaxial testing machines – Part 1: Tension/compression testing machines – Verification and calibration of the force-measuring system, published by the International Organization for Standardization (ISO), which has the same title. The text of the International Standard is recommended for publication as a Malaysian Standard without deviation. However, for the purposes of this Malaysian Standard, the following apply:

- a) in the source text, “this International Standard” should read “this Malaysian Standard”; and
- b) the comma which is used as decimal sign (if any), to read as a full point.

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.

NOTE. IDT on the front cover indicates an identical standard i.e. a standard where the technical content, structure, wording and presentation of a Malaysian Standard is exactly the same as in an International Standard or is identical in technical content and it may contain the minimal editorial changes specified in clause 4.2 of ISO/IEC Guide 21

**Metallic materials — Verification of static
uniaxial testing machines —**

Part 1:

Tension/compression testing machines —
Verification and calibration of
the force-measuring system

*Matériaux métalliques — Vérification des machines pour essais statiques
uniaxiaux —*

*Partie 1: Machines d'essai de traction/compression — Vérification et
étalonnage du système de mesure de charge*



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Printed in Switzerland

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 7500-1 was prepared by Technical Committee ISO/TC 164, *Mechanical testing of metals*, Subcommittee SC 1, *Uniaxial testing*.

This second edition cancels and replaces the first edition (ISO 7500-1:1986) which has been technically revised.

ISO 7500 consists of the following parts, under the general title *Metallic materials — Verification of static uniaxial testing machines*:

- *Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system*
- *Part 2: Tension creep testing machines — Verification of the applied load*

Annex A forms a normative part of this part of ISO 7500. Annexes B and C are for information only.