INTERNATIONAL STANDARD

ISO 7500-2

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Metallic materials — Verification of static uniaxial testing machines —

Part 2:
Tension creep testing machines — Verification of the applied load

Matériaux métalliques — Vérification des machines pour essais statiques uniaxiaux —

Partie 2: Machines d'essai de fluage en traction — Vérification de la charge appliquée

Reference number
ISO 7500-2:1996(E)

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.

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 7500-2 was prepared by Technical Committee ISO/TC 164, *Mechanical testing of metals*, Subcommittee SC 1, *Uniaxial testing*.

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

— *Part 1: Tensile testing machines*

— *Part 2: Tension creep testing machines — Verification of the applied load*

Annex A forms an integral part of this part of ISO 7500.

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Metallic materials — Verification of static uniaxial testing machines —

Part 2:
Tension creep testing machines — Verification of the applied load

1 Scope

This part of ISO 7500 specifies the verification of testing machines used for uniaxial creep testing in tension in accordance with ISO 204.

The verification consists of

— a general inspection of the testing machine;

— a verification of the load applied by the testing machine.

This part of ISO 7500 applies to dead weight and lever type creep testing machines. The machines with a load measuring system[1)] shall be verified in accordance with ISO 7500-1.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 7500. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 7500 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 204:—[2)], *Metallic materials — Uniaxial creep testing in tension.*

ISO 376:1987, *Metallic materials — Calibration of force proving instruments used for the verification of uniaxial testing machines.*

ISO 7500-1:1986, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tensile testing machines.*

3 Symbols and their meanings

For the purposes of this part of ISO 7500, the symbols given in table 1 shall apply.

For the purposes of this part of ISO 7500 the following types of creep testing machines are recognized:

— deadweight machines, with or without guides (see figures 1 and 2);

— overslung or underslung lever machines (see figures 3, 4 and 5);

— jockey weight machines, either with overslung or underslung lever (see figures 6 and 7);

— any combination of the types of machines mentioned above (see figure 8).

4 General inspection of the testing machine

The verification of the testing machine shall only be carried out if the machine is in good working order. For this purpose, a general inspection of the machine shall be carried out before verification of the load applied by the machine (see annex A).

1) For the purposes of this part of ISO 7500, a force measuring system comprises load cell plus conditioning plus indicator.

2) To be published. (Revision of ISO/R 204:1961 and ISO/R 206:1961)