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ASTM E4 - 01 Standard Practices for Force Verification of Testing Machines

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Abbreviation
ASTM E4 - 01
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American Society of Testing and Materials
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Description

These practices cover procedures for the force verification, by means of standard calibration devices, of tension or compression, or both, static or quasi-static testing machines (which may, or may not, have force-indicating systems).

Scope

These practices cover procedures for the force verification, by means of standard calibration devices, of tension or compression, or both, static or quasi-static testing machines (which may, or may not, have force-indicating systems). These practices are not intended to be complete purchase specifications for testing machines. Testing machines may be verified by one of the three following methods or combination thereof:

1. Use of standard weights,
2. Use of equal-arm balances and standard weights, or
3. Use of elastic calibration devices.

Note 1--These practices do not cover the verification of all types of testing machines designed to measure forces, for example, the constant-rate-of-loading type which operates on the inclined-plane principle. This type of machine may be verified as directed in the applicable appendix of Specification D76.

The procedures of 1, 2, 3 apply to the verification of the force-indicating systems associated with the testing machine, such as a scale, dial, marked or unmarked recorder chart, digital display, etc. In all cases the buyer/owner/user must designate the force-indicating system(s) to be verified and included in the report.

Since conversion factors are not required in this practice, either inch-pound units, SI units, or metric values can be used as the standard.

Forces indicated on displays/printouts of testing machine data systems-be they instantaneous, delayed, stored, or retransmitted-which are verified with provisions of 1, 2, or 3, and are within the 1 % accuracy requirement, comply with Practices E4.

This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

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