

Australian Standard[®]

**Calibration and classification of
force-measuring systems**



This Australian Standard® was prepared by Committee MT-006, Mechanical Testing of Metals. It was approved on behalf of the Council of Standards Australia on 2 March 2005. This Standard was published on 18 March 2005.

The following are represented on Committee MT-006:

- Australasian Railway Association
 - Bureau of Steel Manufacturers of Australia
 - Institute of Materials Engineering Australasia
 - National Association of Testing Authorities
 - National Measurement Institute
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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through public comment period.

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2193—2005

Calibration and classification of force-measuring systems

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Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 20 March 2017.

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Australian Chamber of Commerce and Industry
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Galvanizers Association of Australia
Galvanizing Association of New Zealand
New Zealand Metal Roofing Manufacturers

NOTES

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PREFACE

This Standard was prepared by the Standards Australia Committee MT-006, Mechanical Testing of Metals, to supersede AS 2193—2002, *Calibration and classification of force-measuring systems*.

This Standard incorporates Amendment No. 1 (August 2006). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this revision is to introduce a specification for calibrating load rings and similar force measuring devices.

During the preparation of this edition, cognizance was taken of the following Standards:

ISO

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

7500 Metallic materials—Verification of static uniaxial testing machines

7500-1 Part 1: Tension/compression testing machines—Verification and calibration of the force-measuring system

ASTM

E74 Standard practice of calibration of working force standards for verifying the load indication of testing machines

AS ISO/IEC

17025 General requirements for the competence of testing and calibration laboratories

ISO

GUM Guide to the Expression of Uncertainty in Measurement

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.