

Second edition
2005-12-15

AMENDMENT 1
2012-07-15

**Motorcycles — Test and analysis
procedures for research evaluation of
rider crash protective devices fitted to
motorcycles —**

Part 1:

**Definitions, symbols and general
considerations**

**Amendment 1: MATD test helmet, ground
impact, and injury costs**

<https://standards.iteh.ai/catalog/standards/sist/dea0760a-58af-4799-aab6-48e36a012669/Amd.1:2012>

*Motorcycles — Méthodes d'essai et d'analyse de l'évaluation par la
recherche des dispositifs, montés sur les motos, visant à la
protection des motocyclistes contre les collisions —*

Partie 1: Définitions, symboles et généralités

Amendement 1: Casque d'essai MATD, impact au sol et coûts



Reference number
ISO 13232-1:2005/Amd.1:2012(E)

© ISO 2012

iTeh STANDARD PREVIEW (standards.iteh.ai)

[ISO 13232-1:2005/Amd 1:2012](https://standards.iteh.ai/catalog/standards/sist/dea0760a-58af-4799-aab6-48e36a00a44a/iso-13232-1-2005-amd-1-2012)
<https://standards.iteh.ai/catalog/standards/sist/dea0760a-58af-4799-aab6-48e36a00a44a/iso-13232-1-2005-amd-1-2012>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2012

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published 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 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to ISO 13232-1:2005 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 22, *Motorcycles*.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[ISO 13232-1:2005/Amd 1:2012](https://standards.iteh.ai/catalog/standards/sist/dea0760a-58af-4799-aab6-48e36a00a44a/iso-13232-1-2005-amd-1-2012)

<https://standards.iteh.ai/catalog/standards/sist/dea0760a-58af-4799-aab6-48e36a00a44a/iso-13232-1-2005-amd-1-2012>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 13232-1:2005/Amd 1:2012](https://standards.iteh.ai/catalog/standards/sist/dea0760a-58af-4799-aab6-48e36a00a44a/iso-13232-1-2005-amd-1-2012)

<https://standards.iteh.ai/catalog/standards/sist/dea0760a-58af-4799-aab6-48e36a00a44a/iso-13232-1-2005-amd-1-2012>

Motorcycles — Test and analysis procedures for research evaluation of rider crash protective devices fitted to motorcycles —

Part 1: Definitions, symbols and general considerations

Amendment 1: MATD test helmet, ground impact, and injury costs

Global changes

Add consequential amendments to this and others of ISO 13232, as needed.

Page 2, 3.1 General terms

Insert a new numbered item as follows:

3.1.n ground impact

first point in time when any portion of the dummy's head or helmet surfaces is in contact with the ground

Page 6, 3.3

Insert a new numbered item as follows:

3.3.n MATD test helmet

motorcyclist helmet which meets special performance requirements noted in ISO 13232-3

Page 10, 3.5

Insert new numbered items as follows:

3.5.n economic costs

costs including medical and ancillary costs

3.5.n quality of life costs

non-economic costs such as pain, suffering, and changes in lifestyle

3.5.n comprehensive costs

costs including economic and quality of life costs

Page 15, Table 3

Insert the following new subscripts:

eco	economic (when used in conjunction with injury cost variables)
co	comprehensive (when used in conjunction with injury cost variables)

Page 26, Bibliography

Add the following references:

- [94] UN/ECE Regulation 22 - Uniform provisions concerning the approval of protective helmets and of their visors for drivers and passengers of motor cycles and mopeds.
- [95] MILLER T.R. "The Comprehensive Cost of Motor Vehicle Injuries by Body Region and AIS Severity", 35th Annual Proceedings of the Association for the Advancement of Automotive Medicine, Toronto, October 7-9, 1991, pp 421-437.
- [96] MILLER T. et al. "Harm 2000: Crash Cost and Consequence Data for the New Millennium", 45th Annual Proceedings, Association for the Advancement of Automotive Medicine, San Antonio, September 24-26, 2001, pp 159-184.
- [97] BLINCOE L. et al., The Economic Impact of Motor Vehicle Crashes, 2000, DOT HS 809 446, US DoT, NHTSA, Washington, D.C., May 2002.
- [98] US DEPARTMENT OF COMMERCE. Price Indexes for Gross Domestic Product, Table 1.1.4, Washington, 2004.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 13232-1:2005/Amd 1:2012](https://standards.iteh.ai/catalog/standards/sist/dea0760a-58af-4799-aab6-48e36a00a44a/iso-13232-1-2005-amd-1-2012)
<https://standards.iteh.ai/catalog/standards/sist/dea0760a-58af-4799-aab6-48e36a00a44a/iso-13232-1-2005-amd-1-2012>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 13232-1:2005/Amd 1:2012](https://standards.iteh.ai/catalog/standards/sist/dea0760a-58af-4799-aab6-48e36a00a44a/iso-13232-1-2005-amd-1-2012)

<https://standards.iteh.ai/catalog/standards/sist/dea0760a-58af-4799-aab6-48e36a00a44a/iso-13232-1-2005-amd-1-2012>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 13232-1:2005/Amd 1:2012](https://standards.iteh.ai/catalog/standards/sist/dea0760a-58af-4799-aab6-48e36a00a44a/iso-13232-1-2005-amd-1-2012)
<https://standards.iteh.ai/catalog/standards/sist/dea0760a-58af-4799-aab6-48e36a00a44a/iso-13232-1-2005-amd-1-2012>

ICS 43.140

Price based on 2 pages