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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

*Motorcycles — Méthodes d'essai et d'analyse de l'évaluation par la
recherche des dispositifs, montés sur les motocycles, 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
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Foreword

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

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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.

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