
**Heavy commercial vehicles and
buses — Emergency braking on a
defined path — Test method for
trajectory measurement**

*Véhicules utilitaires lourds et autobus — Freinage d'urgence sur un
passage défini — Méthodes d'essai pour la mesure de trajectoire*

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 19377:2017

<https://standards.iteh.ai/catalog/standards/iso/886bacde-4056-4823-9a90-5a48684543bb/iso-19377-2017>



iTeh Standards
(<https://standards.itih.ai>)
Document Preview

ISO 19377:2017

<https://standards.itih.ai/catalog/standards/iso/886bacde-4056-4823-9a90-5a48684543bb/iso-19377-2017>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Variables	2
6 Measuring equipment	3
7 Test conditions	3
7.1 General	3
7.2 Test track and ambient conditions	4
7.3 Test vehicle	4
7.3.1 General vehicle condition	4
7.3.2 Loading condition	4
7.3.3 Number of test runs	4
8 Test methods	4
8.1 Test method for braking straight ahead	4
8.1.1 Initial driving condition	4
8.1.2 Definition of the desired path and track	4
8.1.3 System intervention	5
8.2 Test method for braking in a constant radius curve	5
8.2.1 Initial driving condition	5
8.2.2 Definition of the desired path and track	5
8.2.3 System intervention	6
9 Data evaluation and presentation of results	6
9.1 General	6
9.2 Characteristic values	7
9.2.1 Maximum path deviation, $D_{P,max}$	7
9.2.2 Maximum rear axle path deviation, $D_{PR,max}$	7
9.2.3 Maximum trailer path deviation, $D_{PT,max}$	8
9.2.4 Deceleration at full braking	8
9.2.5 Maximum articulation angle(s) (optional)	8
9.2.6 Corrective steering action, $\delta_{H,C}$ (for closed-loop test)	8
9.2.7 Indication of leaving the desired track (optional)	8
Annex A (normative) Test report — General data and test conditions	9
Annex B (informative) Example of test reports	10
Bibliography	12

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by ISO/TC 22, *Road vehicles*, Subcommittee SC 33, *Vehicle dynamics and chassis components*.

ISO 19377:2017

<https://standards.iteh.ai/catalog/standards/iso/886bacde-4056-4823-9a90-5a48684543bb/iso-19377-2017>