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Tractors for agriculture and forestry — Roll-over protective structures — Static test method and acceptance conditions

Tracteurs agricoles et forestiers — Structures de protection contre le retournement — Méthode d'essai statique et conditions d'acceptation



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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and abbreviated terms	4
5 Apparatus	4
5.1 Horizontal loading tests.....	4
5.2 Crushing tests.....	8
6 Preparation of tractor and ROPS for testing	9
7 Test procedures	10
7.1 Sequence of tests.....	10
7.2 Horizontal loading from rear, front and side.....	11
7.3 Crushing tests.....	15
7.4 Second longitudinal loading.....	18
8 Determination of seat index point (SIP), seat location and adjustment for test	18
8.1 Seat index point.....	18
8.2 Seat location and adjustment for test.....	18
9 Clearance zone	19
9.1 Determination of the clearance zone.....	19
9.2 Determination of the clearance zone for tractors with a non-reversible seat.....	20
9.3 Determination of the clearance zone for tractors with a reversible driver's position.....	21
9.4 Optional seats.....	22
10 Tolerances	22
11 Acceptance conditions	23
11.1 General.....	23
11.2 Clearance zone.....	23
11.3 Recording permanent deflection.....	23
11.4 Required force.....	23
11.5 Overload test.....	23
11.6 Additional conditions.....	25
11.7 Cold weather embrittlement.....	25
12 Seatbelt anchorage performance	26
13 Labelling	26
14 Extension to other tractor models	26
14.1 Administrative extension.....	26
14.2 Technical extension.....	26
15 Test report	27
Annex A (normative) Optional requirements for providing resistance to brittle fracture of roll-over protective structure at reduced operating temperature	28
Annex B (normative) Test report for roll-over protective structure	30
Annex C (informative) Designation of Maintenance Agency	36
Bibliography	37

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. www.iso.org/directives

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The committee responsible for this document is ISO/TC 23, *Agriculture and forestry machinery*, Subcommittee SC 2, *Common tests*.

This fifth edition cancels and replaces the fourth edition (ISO 5700:2006), which has been technically revised for the technical harmonization with OECD Code 4:July 2012.

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Introduction

Testing of roll-over protective structures (ROPS) for wheeled or tracked tractors for agriculture and forestry aims at avoiding or limiting risks to the driver resulting from accidental overturning during normal operation (e.g. field work) of the tractor. The strength of the ROPS is tested by applying static loads and a static crushing test to simulate actual loads which can be imposed on the cab or frame when the tractor overturns either to the rear or to the side without free fall. The tests allow observations to be made on the strength of the structure and the attachment brackets to the tractor and also of the tractor parts that could be affected by the load imposed on the structure.

Provision is made to cover both tractors with the conventional forward-facing driver's position only, as well as those with a reversible driver's position. For tractors with a reversible driver's position, a clearance zone is defined to be the combined clearance zones for the two driving positions. The point of application of the side loading is determined as the mid-point between the seat index points measured in the two positions.

It is recognized that there could be tractor designs — for example, lawn-mowers, narrow vineyard tractors, low profile tractors used in low buildings with limited overhead clearance, orchards, etc., stilt tractors and certain forestry machines such as forwarders — for which this International Standard is not appropriate.

This International Standard specifies technical performance requirements, associated test procedures and performance test report information. Technical harmonization with OECD is ensured by the Maintenance Agency operating as specified in [Annex C](#).

NOTE For narrow-track wheeled tractors, see ISO 12003-1^[6] and ISO 12003-2.^[7]