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**Tractors for agriculture and forestry —  
Safety —**

**Part 1:  
Standard tractors**

*Tracteurs agricoles et forestiers — Sécurité —*

*Partie 1: Tracteurs standards*



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## 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.

ISO 26322-1 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 4, *Tractors*.

This first edition of ISO 26322-1 cancels and replaces ISO 4254-3:1992, of which it constitutes a technical revision. Additional requirements have been included in order to take account of the technical evolution of the tractors and changes in their use that have occurred since publication of the replaced International Standard.

ISO 26322 consists of the following parts, under the general title *Tractors for agriculture and forestry — Safety*:

- *Part 1: Standard tractors*
- *Part 2: Narrow-track and small tractors*

# Tractors for agriculture and forestry — Safety —

## Part 1: Standard tractors

### 1 Scope

This part of ISO 26322 specifies general safety requirements and their verification for the design and construction of standard tractors used in agriculture and forestry. These tractors have at least two axles for pneumatic-tyred wheels, with the smallest track gauge of the rear axle exceeding 1 150 mm, or tracks instead of wheels, with their unballasted tractor mass being greater than 600 kg.

NOTE Tractors having an unballasted mass not greater than 600 kg and a smallest adjustable track gauge of the axle bearing the larger tyres of  $\leq 1\,150$  mm are dealt with in ISO 26322-2.

In addition, this part of ISO 26322 specifies the type of information on safe working practices (including residual risks) to be provided by the manufacturer, as well as technical means for improving the degree of personal safety of the operator and others involved in a tractor's normal operation, maintenance and use.

It is not applicable to vibration or braking.

### 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 500-1, *Agricultural tractors — Rear-mounted power take-off types 1, 2 and 3 — Part 1: General specifications, safety requirements, dimensions for master shield and clearance zone*

ISO 3463, *Tractors for agriculture and forestry — Roll-over protective structures (ROPS) — Dynamic test method and acceptance conditions*

ISO 3600, *Tractors, machinery for agriculture and forestry, powered lawn and garden equipment — Operator's manuals — Content and presentation*

ISO 3776-1, *Tractors and machinery for agriculture — Seat belts — Part 1: Anchorage location requirements*

ISO 3776-2, *Tractors and machinery for agriculture — Seat belts — Part 2: Anchorage strength requirements*

ISO/OECD 3776-3, *Tractors and machinery for agriculture — Seat belts — Part 3: Requirements for assemblies*<sup>1)</sup>

ISO 3795, *Road vehicles, and tractors and machinery for agriculture and forestry — Determination of burning behaviour of interior materials*

ISO 4252, *Agricultural tractors — Operator's workplace, access and exit — Dimensions*

1) To be published.

ISO 4413:1998, *Hydraulic fluid power — General rules relating to systems* <sup>2)</sup>

ISO 5131:1996, *Acoustics — Tractors and machinery for agriculture and forestry — Measurement of noise at the operator's position — Survey method*

ISO 5700, *Tractors for agriculture and forestry — Roll-over protective structures (ROPS) — Static test method and acceptance conditions*

ISO 7216, *Acoustics — Agricultural and forestry wheeled tractors and self-propelled machines — Measurement of noise emitted when in motion*

ISO 8759-1, *Agricultural wheeled tractors — Front-mounted equipment — Part 1: Power take-off and three-point linkage*

ISO 10998, *Agricultural tractors — Requirements for steering*

ISO 11684, *Tractors, machinery for agriculture and forestry, powered lawn and garden equipment — Safety signs and hazard pictorials — General principles*

ISO 12100-1:2003, *Safety of machinery — Basic concepts, general principles for design — Part 1: Basic terminology, methodology*

ISO 13854:1996, *Safety of machinery — Minimum gaps to avoid crushing of parts of the human body*

ISO 13857:2008, *Safety of machinery — Safety distances to prevent hazard zones being reached by upper and lower limbs*

ISO 15077, *Tractors and self-propelled machinery for agriculture — Operator controls — Actuating forces, displacement, location and method of operation*

ISO 23205, *Agricultural tractors — Instructional seat*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

#### 3.1

##### **normal operation and service**

use of the tractor for the purpose intended by the manufacturer by an operator familiar with the tractor characteristics and complying with the information for operation, service and safe practices, as specified by the manufacturer in the operator's manual and by signs on the tractor

#### 3.2

##### **three-point contact support**

system which permits a person to simultaneously use two hands and a foot or two feet and one hand when boarding, or dismounting from, a tractor

#### 3.3

##### **guarded by location**

guarding where a hazard is guarded by other parts or components of the tractor that are not themselves guards, or when the hazard cannot be reached by the upper and lower limbs

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2) Under revision.