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**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**

*Tracteurs agricoles — Prises de force montées à l'arrière des types  
1, 2 et 3 —*

*Partie 1: Spécifications générales, exigences de sécurité, dimensions  
du bouclier protecteur et de la zone de dégagement*



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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 500-1 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 4, *Tractors*.

This first edition of ISO 500-1, together with the first editions of ISO 500-2 and ISO 500-3, cancels and replaces ISO 500:1991, which has been technically revised.

ISO 500 consists of the following parts, under the general title *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*
- *Part 2: Narrow-track tractors, dimensions for master shield and clearance zone*
- *Part 3: Main PTO dimensions and spline dimensions, location of PTO*

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# 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

### 1 Scope

This part of ISO 500 gives general specifications, including speeds, safety requirements, the dimensions for the master shield and clearance zones for rear-mounted power take-offs (PTOs) of types 1, 2 and 3 on agricultural tractors with a track setting of more than 1 150 mm (those with a track setting width of 1 150 mm or less are covered in ISO 500-2).

### 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 5673-2, *Agricultural tractors and machinery — Power take-off drive shafts and power-input connection — Part 2: Specifications of PTO draft shaft, and PIC position and clearance for attachments*

ISO 6489 (all parts), *Agricultural vehicles — Mechanical connections on towing vehicles*

### 3 Terms and definitions

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

#### 3.1

**power take-off shaft**

**PTO**

external shaft on the rear of the tractor to provide rotational power to implements

### 4 Specifications

4.1 The tractor rear PTO is classified into three types (see Table 1).

4.2 The direction of PTO rotation shall be clockwise when viewed from behind the tractor.

4.3 The nominal PTO rated rotational frequency may be realized by one or more engine speed ranges.