
**Agricultural tractors — Rear-mounted
power take-off types 1, 2, 3 and 4 —**

**Part 3:
Main PTO dimensions and spline
dimensions, location of PTO**

*Tracteurs agricoles — Prises de force montées à l'arrière des types 1,
2, 3 et 4 —*

*Partie 3: Dimensions principales de la prise de force et dimensions des
cannelures, emplacement de la prise de force*



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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.

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).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 4, *Tractors*.

This second edition cancels and replaces the first edition (ISO 500-3:2004), of which it constitutes a minor revision.

ISO 500 consists of the following parts, under the general title *Agricultural tractors — Rear-mounted power take-off types 1, 2, 3 and 4*:

- *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*

Agricultural tractors — Rear-mounted power take-off types 1, 2, 3 and 4 —

Part 3:

Main PTO dimensions and spline dimensions, location of PTO

1 Scope

This part of ISO 500 specifies the manufacturing requirements for, and the location of, rear-mounted power take-offs (PTOs) of types 1, 2, 3, and 4 on agricultural tractors.

2 Normative references

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

ISO 6508 (all parts), *Metallic materials — Rockwell hardness test*

3 PTO location

The location of the PTO axis shall lie within the shaded rectangle shown in [Figure 1](#) and in accordance with [Table 1](#), parallel to the longitudinal axis of the tractor and should be parallel to the ground within $\pm 3^\circ$.

The values of the dimension h are for normal agricultural applications (see [Figure 1](#) and [Table 1](#)). On tractors especially designed for high ground clearance, such as working in standing vegetable crops or sugar cane, h_{\max} , can exceed the given values. On agricultural tractors designed for low ground clearance, such as lawn mowing or ground care which require a low centre of gravity, for narrow-track tractors, and for track-laying tractors, h_{\min} , can be less than the given values.

For tractors that can accommodate multiple PTO types, h_{\max} shall be the value for the largest PTO type specified for the tractor.