INTERNATIONAL STANDARD

ISO 11001-3

Second edition
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Agricultural wheeled tractors and implements — Three-point hitch couplers —

Part 3: Link coupler

Tracteurs agricoles à roues et instruments — Coupleurs rapides trois points —

Partie 3: Coupleur à rotules

Reference number
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Foreword

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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 11001-3 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 4, *Tractors*.

This second edition cancels and replaces the first edition (ISO 11001-3:1993), which has been technically revised.

ISO 11001 consists of the following parts, under the general title *Agricultural wheeled tractors and implements — Three-point hitch couplers*:

— *Part 1: U-frame coupler*

— *Part 2: A-frame coupler*

— *Part 3: Link coupler*

— *Part 4: Bar coupler*

Agricultural wheeled tractors and implements — Three-point hitch couplers —

Part 3: Link coupler

1 Scope

This part of ISO 11001 specifies the essential dimensions for the attachment of three-point hitch implements to agricultural wheeled tractors equipped with a three-point linkage according to ISO 730 or ISO 8759-1 and a link coupler.

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 286-2:1988, *ISO system of limits and fits — Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts*

ISO 730:2009, *Agricultural wheeled tractors — Rear-mounted three-point linkage — Categories 1N, 1, 2N, 2, 3N, 3, 4N and 4*

ISO 2332:2009, *Agricultural tractors and machinery — Connection of implements via three-point linkage — Clearance zone around implement*

ISO 8759-1:1998, *Agricultural wheeled tractors — Front-mounted equipment — Part 1: Power take-off and three-point linkage*

3 Link coupler

3.1 Principle of link coupler

The three-point hitch coupler system constitutes a special method of implement mounting. A hitch coupler is an additional component located between the three-point linkage and the implement making it possible to hitch and unhitch from the operator's seat.

A link coupler system is a two-phase implement coupler where the three-point linkage of the tractor is fitted with devices (e.g. hooks) able to connect to an implement provided with two balls on the lower hitch attachments and one ball on the upper hitch attachment. Hitching and unhitching can be operated from the tractor operator's seat.

In general, the dimensions associated with the tractors and the implement for use with hitch couplers are the same as those for the three-point linkage specified in ISO 730 or ISO 8759-1 and those for the clearance zone specified in ISO 2332.

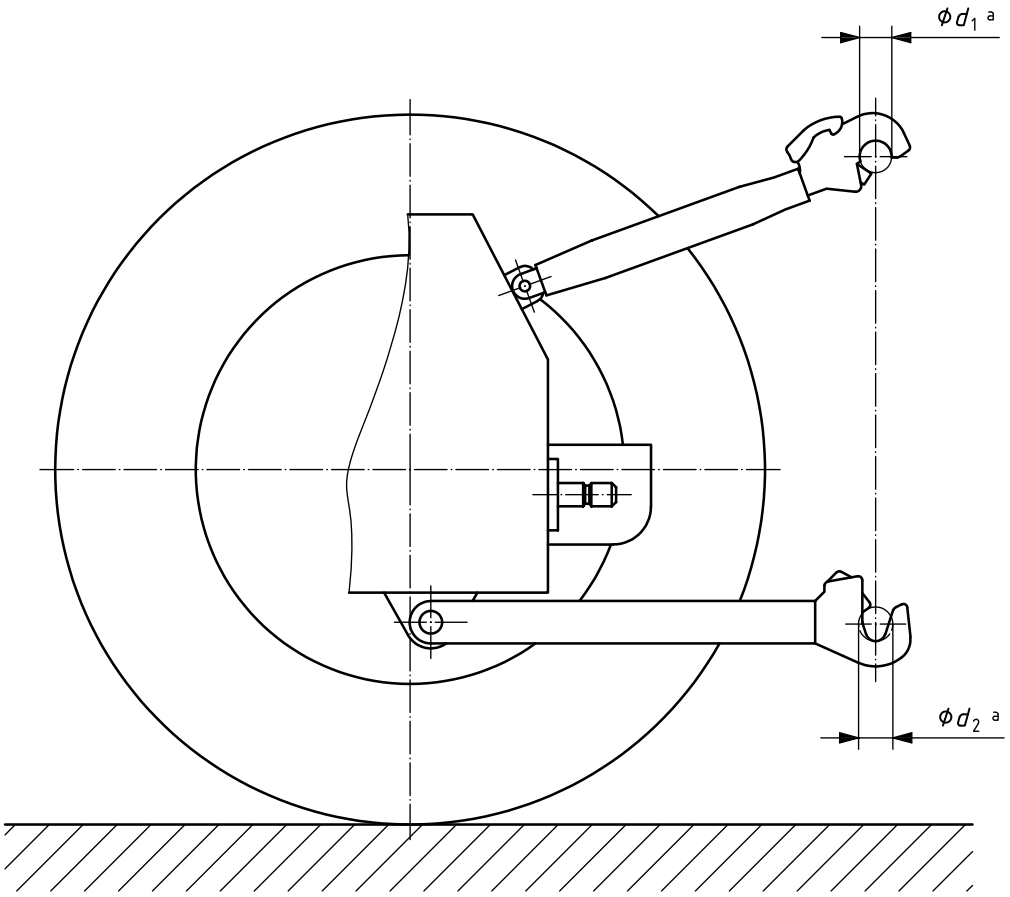
3.2 Locking device

A positive latch shall be provided at the upper and lower hitch points to prevent an unintentional separation of the implement.

4 Dimensions and clearance zone

4.1 Dimensions associated with tractor

The dimensions associated with the tractor shall comply with Figure 1 and Table 1. For three-point linkage clearances, see ISO 2332.



a Ball.

Figure 1 — Dimensions associated with tractor

Table 1 — Dimensions associated with tractor

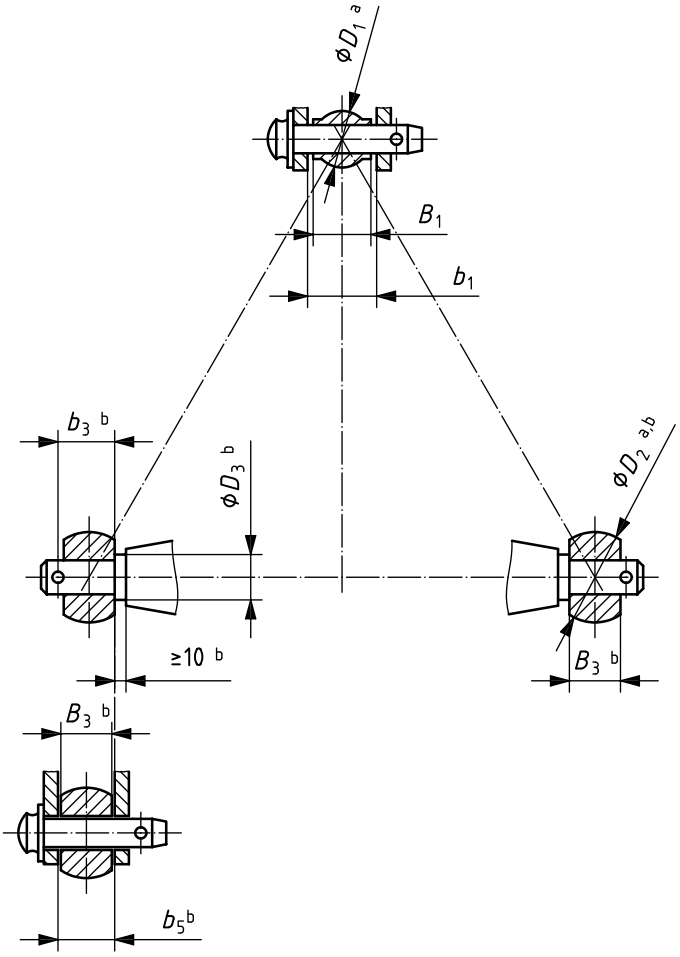
Dimensions in millimetres

Category	d_1 A12[a]	d_2 A12[a]
1N/1	38	44
2N/2	50	56
3N/3	60	64
4N/4	78	85
a See ISO 286-2.		

4.2 Dimensions associated with implement

The dimensions associated with the implement shall comply with Figure 2 and Table 2. For three-point linkage clearances, see ISO 2332.

Dimensions in millimetres



a Ball.

b Both sides.

NOTE For dimensions b_1, b_3 and b_5, see ISO 730.

Figure 2 — Dimensions associated with implement

Table 2 — Dimensions associated with implement

Dimensions in millimetres

Category	D_1 e11[a]	D_2 e11[a]	D_3 ± 1	B_1[b]	B_3[b]
1N/1	38	44	28	$44_{-0,5}^{0}$	$35_{-0,5}^{0}$
2N/2	50	56	35	$51_{-0,5}^{0}$	$45_{-0,5}^{0}$
3N/3	60	64	45	$51_{-0,5}^{0}$	$45_{-0,5}^{0}$
4N/4	78	85	65	$64_{-0,5}^{0}$	$57,5_{-0,5}^{0}$

a See ISO 286-2.

b See also ISO 730.

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