

SVENSK STANDARD

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Lantbruksmaskiner – Kopplingar mellan dragfordon och bogserade maskiner – Del 5: Specifikation för fixerad dragkoppling (ISO 6489-5:2011, IDT)

Agricultural vehicles – Mechanical connections between towed and towing vehicles – Part 5: Specifications for non-swivel clevis couplings (ISO 6489-5:2011, IDT)

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Den internationella standarden ISO 6489-5:2011 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av ISO 6489-5:2011.

The International Standard ISO 6489-5:2011 has the status of a Swedish Standard. This document contains the official version of ISO 6489-5:2011.

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Denna standard är framtagen av kommittén för Lantbruksmaskiner, SIS/TK 228.

Har du synpunkter på innehållet i den här standarden, vill du delta i ett kommande revideringsarbete eller vara med och ta fram andra standarder inom området? Gå in på www.sis.se - där hittar du mer information.

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 6489-5 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 4, *Tractors*.

ISO 6489 consists of the following parts, under the general title *Agricultural vehicles — Mechanical connections between towed and towing vehicles*:

- *Part 1: Dimensions of hitch-hooks*
- *Part 2: Specifications for clevis coupling 40*
- *Part 3: Tractor drawbar*
- *Part 4: Dimensions of piton-type coupling*
- *Part 5: Specifications for non-swivel clevis couplings*

Agricultural vehicles — Mechanical connections between towed and towing vehicles —

Part 5: Specifications for non-swivel clevis couplings

1 Scope

This part of ISO 6489 specifies the requirements for non-swivel clevis couplings used for the attachment of agricultural trailers and implements equipped with a swivel hitch ring as specified in ISO 5692-3 to the rear of self-propelled agricultural vehicles.

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 286-1:1988, *ISO system of limits and fits — Part 1: Bases of tolerances, deviations and fits*

ISO 2768-1:1989, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

ISO 5692-3:2011, *Agricultural vehicles — Mechanical connections on towed vehicles — Part 3: Swivel hitch rings*

3 Terms and definitions

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

3.1

non-swivel clevis coupling

hitching device, not rotating around the horizontal longitudinal axis (roll), for the mechanical connection of trailers and implements

3.2

coupling reference centre

point along the pin centreline crossing the horizontal symmetry centreline of the drawbar housing

3.3

D value

D

mathematically established representative force for the horizontal component of the force acting on the coupling in the longitudinal axis of the machine

NOTE It is expressed in kilonewtons (kN).

3.4 vertical load on the coupling point

S
load transmitted, under static conditions, on the reference centre of the mechanical coupling

NOTE It is expressed in kilograms (kg).

4 Constructional requirements

Constructional requirements not given in this part of ISO 6489 shall be specified as appropriate. Tolerances on dimensions without individual tolerance indications shall be in accordance with ISO 2768-1:1989, tolerance class c. Limits and fits shall be in accordance with ISO 286-1.

The dimensions of trailer or implement couplings of shapes w, x, y and z shall be in accordance with Figure 1 and Table 1.

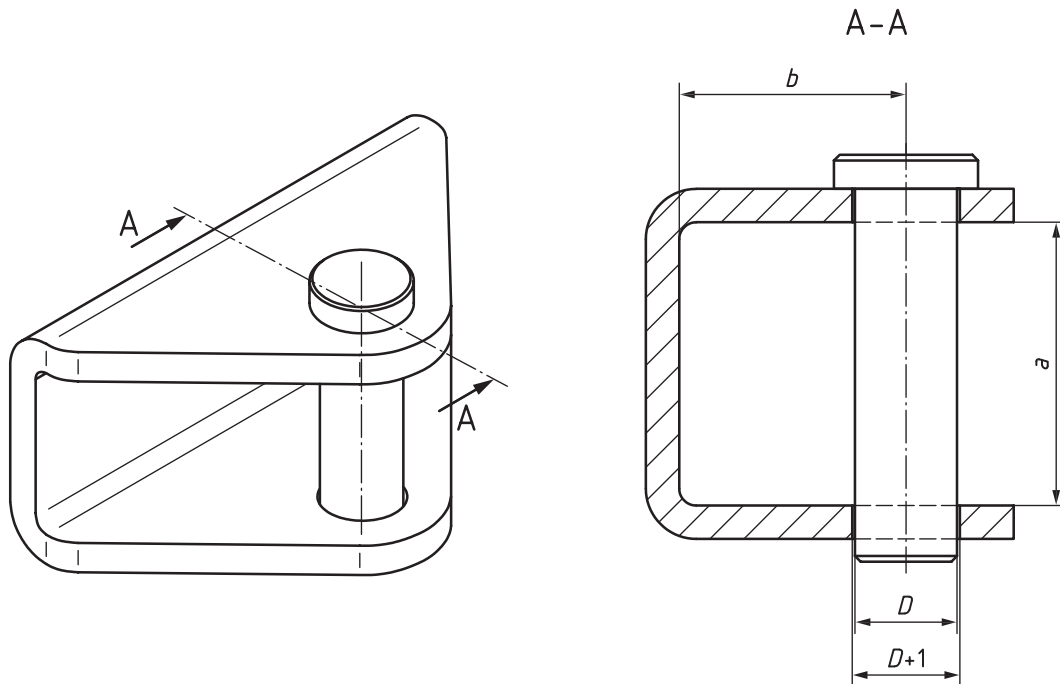
5 Calculation of D value

The D value shall be calculated, in kilonewtons, using the following equation, where the values of m_r and m_t are known:

$$D = g \times \left(\frac{m_t \times m_r}{m_t + m_r} \right)$$

where

- g is the acceleration due to gravity, 9,81 m/s²;
- m_r is the allowable mass of the trailer or towed implement, in tonnes;
- m_t is the allowable total mass of the tractor or towing vehicle, in tonnes.



NOTE Dimensions are given in Table 1.

Figure 1 — Non-swivel clevis coupling