

# INTERNATIONAL STANDARD

**ISO**  
**6489-1**

Second edition  
1991-09-15

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## **Agricultural vehicles — Mechanical connections on towing vehicles —**

### **Part 1: Hook type**

*Véhicules agricoles — Liaisons mécaniques sur véhicules  
remorquants —*

*Partie 1 Type crochet*



Reference number  
ISO 6489-1:1991(E)

## 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.

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.

International Standard ISO 6489-1 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 6489-1:1980), requirements for hook location having been added.

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

- Part 1: Hook type
- Part 2: Clevis type — Dimensions
- Part 3: Tractor drawbar

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# Agricultural vehicles — Mechanical connections on towing vehicles —

## Part 1: Hook type

### 1 Scope

This part of ISO 6489 specifies the dimensional requirements and location for a hook-type coupling on agricultural towing vehicles to allow the mechanical connection to be made with towed vehicles that are fitted with a hitch ring complying with ISO 5692.

It applies to hooks where the vertical static load does not exceed 30 kN.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 6489. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 6489 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 500:1991, *Agricultural tractors — Rear-mounted power take-off — Types 1, 2 and 3.*

ISO 5692:1979, *Agricultural vehicles — Mechanical connections on towed vehicles — Hitch-rings — Specifications.*

### 3 Dimensions

The hook shall comply with the dimensions shown in figure 1.

**3.1** No part of the hook shall lie outside the radius marked  $r$  between points X and Y (maximum metal condition illustrated).

**3.2** The maximum width of gap  $a$  between the hook and the keeper shall be 10 mm when subjected to the maximum design load.

### 4 Location

The location of the hook shall comply with the dimensions shown in figure 2.

**4.1** The hook shall be mounted in the plane of the tractor longitudinal axis.

**4.2** The centre of the hook sphere shall be located at the distance shown rearwards from the end of the PTO-shaft and as high as possible without any part of the hook or its construction, keeper-plate, etc. entering the clearance zone specified for the PTO in ISO 500.

**4.3** In its lowered position, the point of the hook shall be no more than 150 mm above the ground level.

Dimensions in millimetres

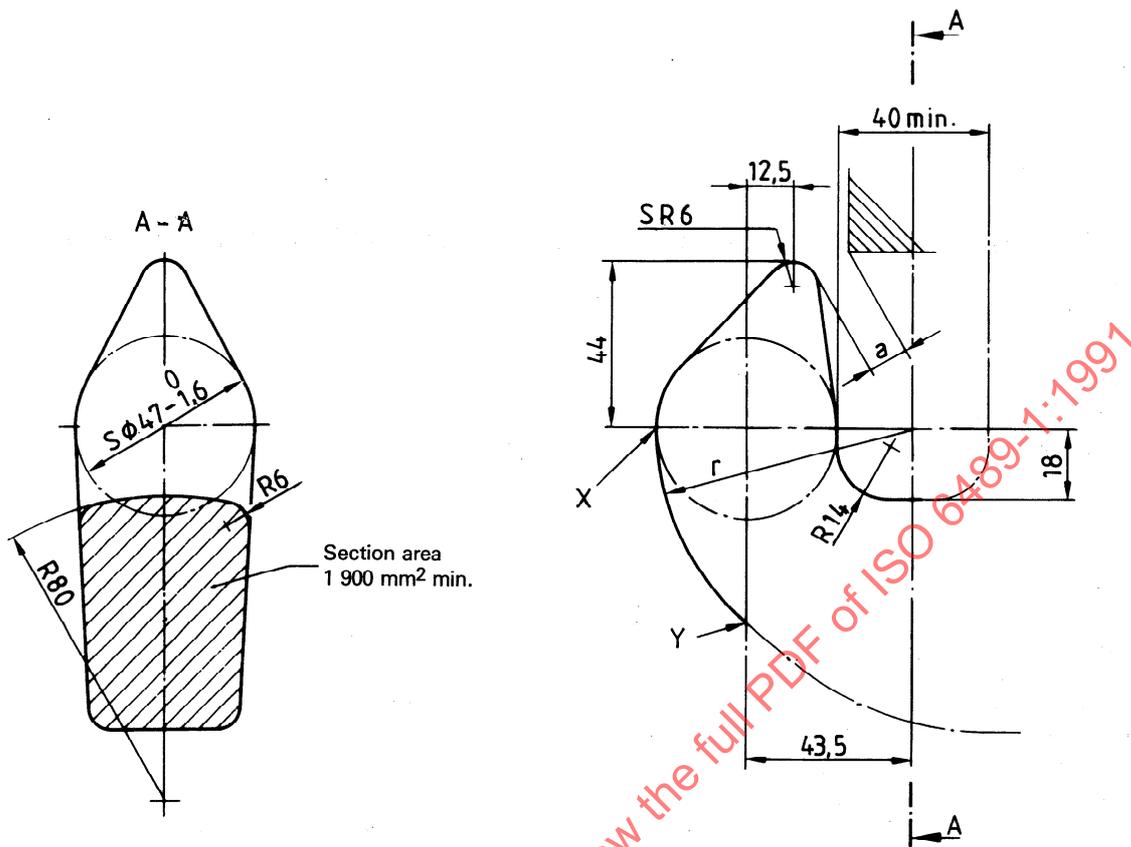


Figure 1 — Dimensions of hook

Dimensions in millimetres

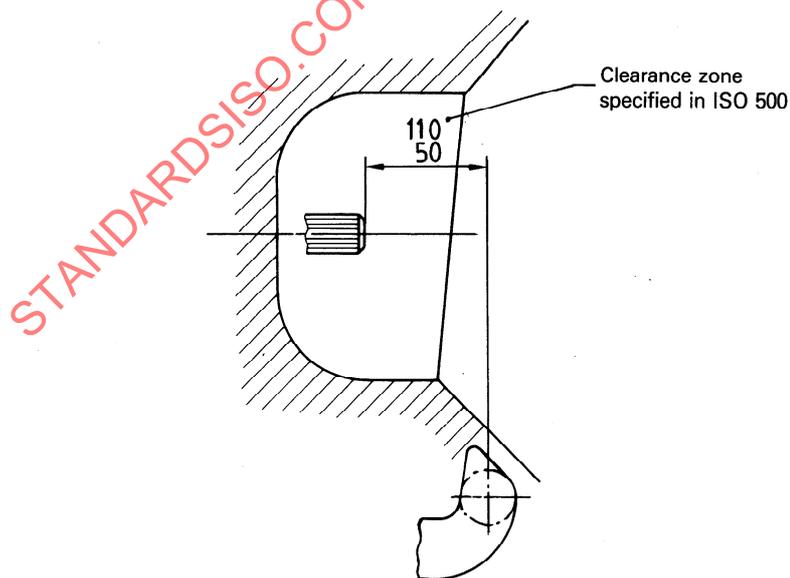


Figure 2 — Location of hook

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