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**Agricultural trailers and trailed  
equipment — Drawbar jacks —**

Part 1:  
**Design safety, test methods and  
acceptance criteria**

*Remorques agricoles et matériel traîné — Béquilles d'attelage —*

*Partie 1: Sécurité par conception, méthode d'essai et critères  
d'acceptation*



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ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

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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](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 3, *Safety and comfort*.

This first edition of ISO 12140-1, together with ISO 12140-2, cancels and replaces ISO 12140:2013, which has been technically revised.

The main changes compared to the previous edition are as follows:

- the application requirements have been moved to a separate part (i.e. ISO 12140-2);
- the term used for describing machinery types has been clarified.

A list of all parts in the ISO 12140 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

# Agricultural trailers and trailed equipment — Drawbar jacks —

## Part 1:

## Design safety, test methods and acceptance criteria

### 1 Scope

This document specifies criteria for construction, establishes performance test methods and defines acceptance criteria for telescopic mechanical screw- and nut-type drawbar jacks and hydraulic drawbar jacks intended to be fitted on the implement tongue of interchangeable towed machinery [here after referred to as "implement(s)"] as original equipment or as replacement jacks. In addition, it specifies minimum markings and information for use to be provided by the jack manufacturer.

These jacks are used specifically for

- supporting the hitch points of implements during storage;
- lifting and lowering of implement tongues to facilitate attaching to or disconnecting from an agricultural tractor; and
- levelling an implement for stationary use.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests*

### 3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

#### 3.1 jack

hand or power-operated telescopic mechanism with a ground contact pad (base) or wheel and fixing point [*jack mount* (3.11) or mounting point] designed for controlled vertical movement

Note 1 to entry: A hand-operated jack typically uses mechanical means to control vertical movement. A powered-operated jack typically uses hydraulic fluid displacement to control vertical movement.

#### 3.2 static compressive load

vertical force used to support the intended application under static conditions