

ASABE/ISO 12140-2:2020 JUN2024

Agricultural trailers and trailed equipment — Drawbar jacks — Part 2: Application safety, test methods and acceptance criteria



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History of ASAE S485: Developed by the ASAE Implement Jacks Committee; approved by the Power and Machinery Standards Division Committee; adopted by ASAE October 2001; reaffirmed February 2006; revised April 2007, revised November 2010; revised April 2011.

ASAE S485 was used as the basis document for ISO 12140:2013. Agricultural machinery — Agricultural trailers and trailed equipment — Drawbar jacks. ASAE S485 replaced by an identical adoption of ISO 12140:2013 and approved as an American National Standard June 2014.

ASABE/ISO 12140:2013 JUN2014 replaced by identical adoption of ISO 12140-1:2020 and ISO 12140-2:2020 and approved as American National Standards June 2024.

Keywords: Implement, Jack, Safety, Trailer

0 Foreword

0.1 ASABE/ISO 12140-2:2020 JUNE2024, Agricultural trailers and trailed equipment — Drawbar jacks — Part 2: Application safety, test methods and acceptance criteria, is an adoption without modification of the identically titled ISO 12140-2:2020, Agricultural trailers and trailed equipment — Drawbar jacks — Part 2: Design safety, test methods and acceptance criteria.

0.2 ASABE/ISO 12140-2:2020 JUN2024 specifies safety requirements, test procedures, and establishes minimum acceptance criteria for the application of telescopic mechanical screw- and nut-type drawbar jacks and hydraulic drawbar jacks intended to be fitted on the implement tongue of interchangeable towed machinery and hereafter referred to as “implement(s)” as original equipment or jacks fitted with a jack attachment mount.

This document applies to implement mounted jacks or jacks fitted with a jack attachment mount. 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 of machinery for stationary use.

The drawbars are those which are designed to couple with the mechanical connections of towing vehicles.

0.3 Two normative references are listed in ISO 12140-2:2020. These references have been reviewed and accepted as part of the adoption of the ISO 12140-2:2020 in ASABE/ISO 12140-2:2020.

0.3.1 Please note that Normative Reference ISO 12140-1, Agricultural trailers and trailed equipment — Drawbar jacks — Part 1: Design safety, test methods and acceptance criteria, has been identically adopted by ASABE. ASABE adoption number is ASABE/ISO 12140-1:2020.

0.4 This standard has been approved as an American National standard by ANSI (American National Standard Institute). The original content of ISO 12140 was based on ASAE S485.3, Implement Mounted, Screw-Type Jacks.

Text of ISO 12140-2:2020, Agricultural trailers and trailed equipment — Drawbar jacks — Part 2: Application safety, test methods and acceptance criteria, follows.

Agricultural trailers and trailed equipment — Drawbar jacks — Part 2: Application safety, test methods and acceptance criteria

1 Scope

This document specifies safety requirements, test procedures, and establishes minimum acceptance criteria for the application of telescopic mechanical screw- and nut-type drawbar jacks and hydraulic drawbar jacks intended to be fitted on the implement tongue of interchangeable towed machinery and hereafter referred to as “implement(s)” as original equipment or jacks fitted with a jack attachment mount.

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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 4413, Hydraulic fluid power — General rules and safety requirements for systems and their components

ISO 12140-1, Agricultural trailers and trailed equipment — Drawbar jacks — Part 1: Design safety, test methods and acceptance criteria

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 12140-1 and the following 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](https://www.iso.org/obp)

— IEC Electropedia: available at [http:// www .electropedia .org/](http://www.electropedia.org/)

3.1 implement

machine or device that is designed to perform agricultural field operations and is pulled by an agricultural tractor or other agricultural machine and is usually equipped with wheels required for transport

3.2 implement tongue

portion of the machine designed to be attached to the drawbar (3.3) or hitch of the towing machine