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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 20340.2-2024

Replacing GB/T 20340-2006; GB/T 20340-2006

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

农用挂车和被牵引设备 牵引杆千斤顶 第2部分：应用安全、试验方法和验收条件
(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting:

This document is part 2 of GB/T 20340 "Drawbar jacks for agricultural trailers and towed equipment": GB/T 20340 has been the following parts were published:

- Part 1: Design safety, test methods and acceptance conditions;
- Part 2: Application safety, test methods and acceptance conditions:

This document partially replaces GB/T 20340-2006 "Agricultural machinery, agricultural trailers and towed equipment drawbar jacks" and Compared with GB/T 20340-2006, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- Changed the scope of application (see Chapter 1, Chapter 1 of the:2006 edition);
- Added tools, tool traction frame, traction rod, tool jack support, jack support system, maximum vertical static load, positive 7 terms and definitions such as normal working length (see 3.1 to 3:7);
- Changed the ground pressure, protection against contact with the ground when not in use, and safety requirements for working positions (see 4.1~4:3,:2006 Version 4:1, 4:4, 4:5);
- Added requirements for hydraulic components and assembly, working performance, and working tests of jack support systems (see 4.4 to 4:6);
- Changed the load holding requirements for hydraulic jack support systems (see 4.7, 4:8 of the:2006 edition);
- Changed the information on the use of jacks (see Chapter 5, Chapter 7 of the:2006 edition):

This document is modified to adopt ISO 12140-2:2020 "Drawbar jacks for agricultural trailers and towed equipment - Part 2: Application and safety standards" Safety, test methods and acceptance conditions:

The technical differences between this document and ISO 12140-2:2020 and their reasons are as follows:

--- ISO 12140-1 (see Chapter 3) has been replaced by the normative reference GB/T 20340.1 to adapt to my country's technical conditions, and Increase operability;

--- ISO 4413 (see 4.4) has been replaced with the normative reference GB/T 3766 to adapt to my country's technical conditions and increase operability Acting nature:

The following editorial changes were made to this document:

--- Corrected the printing error of the international standard, and changed the unit of the reference symbol "G---ground contact pad area" in Figure 1 from "square "Meter" was changed to "square centimeters":

Introduction

GB/T 20340 "Drawbar jacks for agricultural trailers and towed equipment" specifies the jacks for drawbars for agricultural trailers and towed equipment:

The safety requirements for the design, manufacture and use of jacks and the corresponding test methods and acceptance conditions are planned to consist of two parts:

--- Part 1: Design safety, test methods and acceptance conditions: The purpose is to establish the traction Manufacturing requirements, performance test methods and acceptance conditions for jacks used as original equipment and replacement equipment on the rack:

--- Part 2: Application safety, test methods and acceptance conditions: The purpose is to establish the traction Safety requirements, test procedures and minimum acceptance criteria for jacks installed as original equipment on a stand or installed with a coupling condition:

Drawbar jacks for agricultural trailers and towed equipment Part 2: Application safety, test methods and acceptance conditions

1 Scope

This document specifies the requirements for telescopic mechanical screw drawbar jacks and Safety requirements, test procedures and minimum acceptance conditions for hydraulic drawbar jacks, or jacks mounted in conjunction with a coupling:

These jacks are designed for:

---Hitching points to support implements during storage;

--- Raise and lower the implement drawbar to facilitate connection or disconnection of agricultural tractors;

---Machinery used for leveling and fixing:

This document applies to implements with jacks installed or jacks with docking stations installed:

Note: In this document, "general purpose towed machinery" is hereinafter referred to as "implement": The drawbar is a device designed to be connected to the mechanical connection of the towing vehicle:

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document:

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document:

GB/T 3766 General rules and safety requirements for hydraulic transmission systems and their components (GB/T 3766-2015, ISO 4413:

2010,MOD)

GB/T 20340.1 Drawbar jacks for agricultural trailers and towed equipment Part 1: Design safety, test methods and acceptance Conditions (GB/T 20340.1-2024, ISO 12140-1:2020, MOD)

3 Terms and definitions

The terms and definitions defined in GB/T 20340.1 and the following apply to this document:

Implement

A machine or equipment used for agricultural field work, usually equipped with wheels for transportation, and pulled by an agricultural tractor or other agricultural machinery:

device:

Implementtongue

A machine part designed to be connected to the drawbar (3:3) or hitch of a towing machine:

Drawbar

A connecting device mounted on the rear of an agricultural tractor or a towing machine for mechanical connection with an implement (3:1):

Implement jack mount Part of the implement drawbar (3:2) designed to mount or house the jack: