



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

GB/T 41604-2022

**Agricultural vehicles - Steering systems for agricultural trailers
- Interface for articulated steering device of semi-mounted
trailers**

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Table of Contents

foreword
1 Scope
2 Normative references
3 Terms and Definitions

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 of Standardization Documents"

drafted.

This document is equivalent to ISO 26402.2008 "Agricultural Vehicle Steering System of Agricultural Trailer Semi-trailer Articulated Steering Device Connection".

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the dimensions and clearance area of the connection between the articulated steering gear tractor and the trailer of the agricultural semi-trailer, and also specifies the

Maximum allowable force at the joint of the articulated steering gear.

This document is only applicable to use with GB/T 19408.5 and specifies a spherical (mechanical) connection device with a nominal diameter of 80mm.

This document does not apply to the verification of the mechanical strength of articulated steering gear connections, nor does it apply to mechanical connection devices; this document does not cover hinged

The technical requirements of the connected steering device itself.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for

undated references, the latest edition (including all amendments) applies to this document.

ISO 730 Agricultural wheeled tractors, rear mounted three-point hitches 1N, 1, 2N, 2, 3N, 3, 4N and 4 (Agricultural

Note. GB/T 1593-2015 Agricultural wheeled tractor rear mounted three-point hitch 0, 1N, 1, 2N, 2, 3N, 3, 4N and 4 categories (ISO 730.2009,

MOD)

ISO 1103.2007 Dimensions of coupling balls for road vehicle trailers and light trailers (Roadvehicles-Couplingballs

Note. GB/T 25980-2010 Dimensions of connecting balls for road vehicle resident trailers and light trailers (ISO 1103.2007, IDT)

ISO 17900.2002 Determination of payload, vertical static load and axle load of fully and semi-trailer agricultural trailers (Agricul-
axleload)

Note. GB/T 21160-2007 Determination of payload, vertical static load and axle load of full-trailer and semi-trailer of agricultural trailers (ISO 17900.2002,

IDT)

ISO 24347.2005 Mechanical connections for trailers and tractors of agricultural vehicles - Part 5.Ball connections [Agriculturalvehi-

Note. GB/T 19408.5-2009 Mechanical connections of agricultural vehicle trailers and tractors - Part 5.Ball connections (ISO 24347.2005, IDT)

3 Terms and Definitions

The terms and definitions defined in ISO 17900 and the following apply to this document.

3.1

Articulated steering articulatedsteering

A device for generating a steering force by changing the direction of the tractor, wherein the rotation of the steering wheel of the trailer is between the tractor and the longitudinal axis of the trailer