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

GB/T 25619-2023

Replacing GB/T 25619-2010

**Earth-moving machinery - Coupling of attachments to skid
steer loaders**

土方机械 滑移转向装载机附属装置的联接

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Table of Contents

1 Scope	1
2 Normative reference documents	1
3 Terms and Definitions	1
4 General requirements	2
5 Safety requirements	3
6 Accessory device coupling size	3
Appendix A (Informative) Mechanical Characteristics of Skid Steer Loader Quick Connector	6
Appendix B (informative) Width dimensions of quick coupling device for small skid steer loader	8

Foreword

This document was issued on 7 September 2023 by the State Administration for Market Regulation; Standardization Administration of the PRC and takes effect on 7 September 2023.

It is a GB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies when assessing a submission.

It is classified under ICS 53.100, Chinese classification P97.

It replaces GB/T 25619-2010, which is superseded.

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1. Structure and Drafting Rules of Standardization Documents"

Drafting.

This document replaces GB/T 25619-2010 "Connection of Attachment Devices for Skid Steer Loaders of Earthmoving Machinery" and is consistent with GB/T 25619-

Compared with.2010, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

---Changed the scope (see Chapter 1, Chapter 1 of the.2010 edition);

---Added terms and definitions such as "quick connection device" (see Chapter 3);

---Added general requirements (see Chapter 4);

---Added safety requirements (see Chapter 5);

---Changed the schematic diagram (see Chapter 6, Chapter 4 of the.2010 edition).

This document is equivalent to ISO 24410.2020 "Connection of attachments to skid steer loaders for earthmoving machinery".

Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents.

This document is proposed by China Machinery Industry Federation.

This document is under the jurisdiction of the National Earthmoving Machinery Standardization Technical Committee (SAC/TC334).

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This document was first published in.2010 and this is the first revision.

Introduction

Quick couplings typical of skid steer loaders are being used in other types of small products, such as compact loaders, compact tractors

and small off-road forklifts. As the use of this type of quick connect device in other products increases, there is a need to provide information about this type of quick connect device.

Documentation guidance on system design principles.

The.2010 version of this document only provides the dimensional requirements for attachment fittings and does not provide the connection dimensions for the quick connect device itself.

dimensions, as these dimensions depend on the design of the quick connect device. This document also does not provide dimensional requirements for the quick connect device itself, but

Yes, this document provides guidance for quick connect device coupling systems.

Earthmoving machinery

Skid steer loader attachment attachments

1 Scope

GB/T 25619-2023 covers the coupling by which an attachment is hung on a skid steer

loader - the general requirements, the safety requirements, and the coupling dimensions of the attachment interface, with informative appendices on the mechanical characteristics of the skid steer loader quick coupler and on the width dimensions used on small machines. It applies to the skid steer loaders defined in ISO 6165. The dimensional limits are what make attachments interchangeable, which is the stated purpose of the document: a bucket, a broom or a grapple bought from one supplier has to sit on a carrier built by another, and the two only meet reliably if both worked to the same interface. Safety requirements sit beside the dimensions because the same connection that has to be easy to make and break in the field is the one holding the tool on the machine while it works. The coupler is now being fitted to products outside its original family - compact loaders, compact tractors and small off-road forklifts - so the design principles behind it are documented rather than left implicit. It replaces the 2010 edition. Used by loader manufacturers, attachment makers and fleet buyers running one carrier across many tools.

This document regulates attachments on skid steer loaders by specifying the requirements for skid steer loaders, including size limits for attachment attachments.

The attached devices are interchangeable.

This document applies to skid steer loaders specified in ISO 6165.

Note 1. Skid steer loaders can use other quick-connect devices, but these devices are not interchangeable with accessories designed in accordance with this document.

Note 2. The requirements of this document also apply to quick connection devices used on other small machines.

Note 3. Quick coupling devices used on small skid steer loaders and some small implement carriers may have width requirements different from those provided in this document, see attachment

Record B.

2 Normative reference documents

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

For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to

this document.

GB/T 38181-2019 Safety of quick connection devices for earthmoving machinery (ISO 13031.2016, IDT)

ISO 6165 Earth-moving machinery basic types identification, terms and definitions
(Earth-moving machinery - Basic types -

Note. GB/T 8498-2017 Basic type identification, terms and definitions of earthmoving machinery (ISO 6165:2012, IDT)

3 Terms and definitions

The terms and definitions defined in ISO 6165 and below apply to this document.

3.1

attachment

Components mounted on the lift arm of a skid steer loader for a specialized purpose.

[Source. GB/T 18577.2-2008, 3.5, with modifications]

3.2

Quick coupling device quickcoupler

Parts of a skid steer loader that allow the attachment (3.1) to be easily and quickly replaced.

[Source. GB/T 38181-2019, 3.1, with modifications]

3.3

Attachment parts to facilitate quick installation and removal of attachments (3.1) to quick couplings (3.2).

3.4

Engagement system engagement system

A mechanical system of quick-connect devices (3.2) that engages an accessory device coupling (3.3) and maintains an accessory device (3.1) in the operating position.