
Earth-moving machinery — Wheeled loader coupler for attachments

Engins de terrassement — Accouplement pour accessoires de chargeuse à roues



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 23727 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 3, *Machine characteristics, electrical and electronic systems, operation and maintenance*.

Introduction

This International Standard provides for the interchangeability of attachments on wheeled loaders by establishing dimensional and clearance limits for the attachment interface. It is not intended to limit the use of other coupler configurations, but does define a common coupler configuration that will permit broad interchangeability of attachments.

The design of the attachment bracket locking system is not restricted by this International Standard and is left to the discretion of the manufacturer.

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1 Scope

This International Standard provides for the interchangeability of attachments on wheeled loaders by establishing common dimensions and clearances for a coupler. It is applicable to wheeled loaders as defined in ISO 6165 with an operating mass of between 8 000 kg and 17 500 kg. Alternative coupler designs and dimensions are permitted, but might not provide broad interchangeability of attachments.

This International Standard is not intended for, but may be applicable to, other wheeled loaders, skid steer loaders or backhoe loaders if interchangeability of common attachments is desired. It does not require the fitting of a coupler and attachments can be directly mounted to the lifting linkage without the use of one.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6165, *Earth-moving machinery — Basic types — Identification and terms and definitions*

3 Terms and definitions

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

3.1

attachment

assembly of components (bucket, fork, etc.) that can be mounted onto the lifting linkage coupler of a wheeled loader

See Figure 1.

3.2

coupler

equipment installed at the end of the lifting linkage for mounting various attachments using a common interface

See Figure 1.