
Earth-mover tyres and rims —
Part 1:
Tyre designation and dimensions

Pneumatiques et jantes pour engins de terrassement —
Partie 1: Désignation et cotes des pneumatiques



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Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Tyre designation	1
4.1 General	1
4.2 Tyre size and construction	2
4.2.1 General	2
4.2.2 Nominal section width	2
4.2.3 Nominal aspect ratio	2
4.2.4 Tyre construction code	2
4.2.5 Nominal rim diameter code	2
4.3 Index of tyre strength	2
4.3.1 General	2
4.3.2 Diagonal tyres	2
4.3.3 Radial tyres	2
4.4 Operating condition	3
4.4.1 General	3
4.4.2 Load index	3
4.4.3 Speed symbol	4
4.4.4 Usage	4
4.5 Other service characteristics	5
4.5.1 Preferred direction of rotation	5
4.5.2 Tubeless tyres	5
4.5.3 Code for usage	5
5 Tyre dimensions	6
5.1 General	6
5.2 In-service dimensions	7
6 Dual spacing	7
7 Approved rims	7
8 Method of measurement of tyre dimensions	8
Bibliography	24

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 6, *Off-the-road tyres and rims*.

This seventh edition cancels and replaces the sixth edition (ISO 4250-1:2017), which has been technically revised.

The main changes are as follows:

- Deletion and addition of certain tyre size designations to harmonize with ISO 4250-2 and ISO 4250-3.

A list of all parts in the ISO 4250 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Earth-mover tyres and rims —

Part 1: Tyre designation and dimensions

1 Scope

This document specifies designations and dimensions for earth-mover tyres and gives the recommended rims primarily intended for earth-moving machinery as defined in ISO 6165.

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 edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4223-1, *Definitions of some terms used in the tyre industry — Part 1: Pneumatic tyres*

ISO 4250-2, *Earth-mover tyres and rims — Part 2: Loads and inflation pressures*

ISO 4250-3:2020, *Earth-mover tyres and rims — Part 3: Rims*

3 Terms and definitions

For the purposes of this document, the definitions given in ISO 4223-1 and ISO 4250-2 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

NOTE For a list of equivalent terms for tyres, valves and tubes, see ISO 3877-1.

4 Tyre designation

4.1 General

The designation of the tyre shall be shown on its sidewall and shall include the following details:

- size and construction characteristics (see 4.2);
- index of tyre strength (see 4.3).

The designation can include:

- operating condition (see 4.4);
- various use conditions (see 4.5).

Examples of tyre designation/markings are given in Table 3.