INTERNATIONAL STANDARD

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Fifth edition
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Metric series for agricultural, forestry machines and construction tyres —

Part 1: Tyre designation, dimensions and marking, and tyre/rim coordination

Pneumatiques de la série millimétrique pour machines agricoles, engins forestiers et engins de construction —

Partie 1: Désignation dimensionnelle de pneumatiques, cotes, marquages et couples pneumatiques-jantes

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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.

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).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 5, *Agricultural tyres and rims*.

This fifth edition cancels and replaces the fourth edition (ISO 7867-1:2005), which has been technically revised. The main changes compared to the previous edition are as follows:

— the title has been revised to reflect the content of the document;

— the Scope now includes the design guides for tyres for forestry and construction applications with metric designation;

— definitions and markings for tyres for forestry and construction applications have been added;

— coefficients for the calculation of tyre dimensions have been added;

— data already contained in ISO 4223-1 have been removed and reference has been made to them;

— tables have been revised to reflect the latest evolution in regional regulations as well as industrial International Standards;

— data for rolling circumference index and speed radius index have been added.

A list of all parts in the ISO 7867 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.

Metric series for agricultural, forestry machines and construction tyres —

Part 1:
Tyre designation, dimensions and marking, and tyre/rim coordination

1 Scope

This document establishes the tyre size designation, the dimensional calculation formulae, the markings and the tyre and rim coordination for the metric series of tyres primarily intended for use on agricultural and forestry tractors, machines, equipment and trailers and for construction machines.

It applies to diagonal, bias-belted and radial tyres mounted on 5° and 15° tapered rims.

NOTE Code designated series of:

— diagonal (ply rating marked) tyres for agricultural tractors and machines are specified in ISO 4251-1 and ISO 4251-2;

— radial (service description marked) tyres for agricultural tractor-drive-wheel tyres are specified in ISO 8664;

— tyres for logging and forestry machines are specified in ISO 18807[1)];

— tyres for construction/industrial tractors are specified in ISO 13442.

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 4251-5, *Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 5: Logging and forestry service tyres*

ISO 7867-2, *Metric series of agricultural, forestry and construction tyres — Part 2: Tyres for agricultural tractors, machines and equipments - Service description and load ratings*

ISO 13442, *Tyres and rims for construction machines*

ISO 18807, *Tyres and rims for logging and forestry service*

3 Terms and definitions

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

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

— ISO Online browsing platform: available at https://www.iso.org/obp

1) Under preparation. Stage at the moment of publication ISO/DIS 18807:2018.