
Earth-mover tyres and rims —
Part 2:
Loads and inflation pressures

Pneumatiques et jantes pour engins de terrassement —
Partie 2: Charges et pressions de gonflage



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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).

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For an explanation on 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 the following URL: 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 sixth edition cancels and replaces the fifth edition (ISO 4250-2:2014), which has been technically revised.

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

Earth-mover tyres and rims —

Part 2: Loads and inflation pressures

1 Scope

The ISO 4250 series consists of three parts laying down the technical designation and dimensions of tyres and rims for earth-movers; it also gives load tables for these tyres.

This document gives working definitions of masses and load cycles and specifies tyre loads and reference inflation pressures for narrow- and wide-base tyres primarily intended for earth-mover machines.

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*

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:

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

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

3.1 Definitions of masses

3.1.1

maximum load

load of individual tyres determined by the manufacturer's rated gross machine mass (GMM) distribution assigned to each axle, divided by the number of tyres for that axle

Note 1 to entry: The maximum GMM includes masses calculated in 3.1.1.1 to 3.1.1.5 inclusive.

Note 2 to entry: If tyre ballast is used, this is also included in the determination of GMM.

3.1.1.1

operating mass

net weight

actual mass of the base machine with equipment specified by the manufacturer, operator (75 kg), full fuel tank and full lubricating, hydraulic and cooling systems