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INTERNATIONAL STANDARD

ISO 3450

Third edition 1996-04-01

Earth-moving machinery — Braking systems of rubber-tyred machines — Systems and performance requirements and test procedures

Engins de terrassement — Dispositifs de freinage des engins sur roues équipés de pneumatiques — Exigences relatives aux dispositifs et à leurs performances, et méthodes d'essai



Reference number ISO 3450:1996(E)

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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.

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.

International Standard ISO 3450 was prepared by Technical Committee ISO/TC 127, Earth-moving machinery, Subcommittee SC 2, Safety requirements and human factors.

This third edition cancels and replaces the second edition (ISO 3450:1985), of which it constitutes a technical revision.

Annex A of this International Standard is for information only.

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International Organization for Standardization

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Earth-moving machinery — Braking systems of rubber-tyred machines — Systems and performance requirements and test procedures

1 Scope

This International Standard specifies minimum performance and test criteria for brake systems to enable uniform assessment of the braking capability of earth-moving machinery which operates on work sites or travels on public roads. Service secondary, and parking brake systems, and retarders are covered by this International Standard.

This International Standard applies to self-propelled, rubber-tyred loaders, tractors, graders, backhoe loaders, tractor-scrapers, excavators and dumpers as defined in ISO 6165.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 6014:1986, Earth-moving machinery — Determination of ground speed.

ISO 6016:1982, Earth-moving machinery — Methods of measuring the masses of whole machines, their equipment and components.

ISO 6165:—1), Earth-moving machinery — Basic types — Vocabulary.

ISO 7132:1990, Earth-moving machinery — Dumpers — Terminology and commercial specifications.

ISO 9248:1992, Earth-moving machinery — Units for dimensions, performance and capacities, and their measurement accuracies.

3 Definitions

For the purposes of this International Standard, the following definitions apply.

- **3.1 earth-moving machine:** Rubber-tyred machine as defined in ISO 6165 which operates on work sites or travels on public roads.
- **3.2 brake system:** All the components which combine together to stop and/or hold the machine, consisting of a control, means of brake actuation, the brake(s) and, if the machine is so equipped, the retarder.
- **3.2.1 service brake system:** Primary system used for stopping and holding the machine.
- **3.2.2** secondary brake system: System used for stopping the machine in the event of any single failure in the service brake system.
- **3.2.3 parking brake system:** System used to hold a stopped machine in a stationary position.

3.2.4 Brake system components

3.2.4.1 brake control: Component directly activated by the operator to cause a force to be transmitted to the brake(s).

¹⁾ To be published. (Revision of ISO 6165:1987)