

# INTERNATIONAL STANDARD

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**13333**

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## **Earth-moving machinery — Dumper body support and operator's cab tilt support devices**

*Engins de terrassement — Dispositifs de support de la benne ou de la  
cabine de l'opérateur en position inclinée*



Reference number  
ISO 13333:1994(E)

## 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 13333 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 2, *Safety requirements and human factors*.

# Earth-moving machinery — Dumper body support and operator's cab tilt support devices

## 1 Scope

This International Standard specifies the performance and test requirements for mechanical support devices for dumper bodies, dumper body substitutes and operator's cabs on earth-moving machines as defined in ISO 6165, equipped with a lift support where it is required that the dumper body, dumper body substitute or operator's cab be held in a raised or tilted position for maintenance, servicing or other non-operational purposes.

It also specifies installation instructions, storage and colour requirements for such dumper body and operator cabin tilt support devices.

## 2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was 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 edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 6165:1987, *Earth-moving machinery — Basic types — Vocabulary*.

## 3 Definitions

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

**3.1 dumper body:** Body of a dumper which transports earth or other loose materials.

**3.2 dumper body substitute:** Device which can be used in place of the dumper body, e.g. tanks, unit-load-handling devices equipped with a hook.

**3.3 operator's cab:** Enclosure on the earth-moving machine from where the machine is operated.

**3.4 mechanical support device(s):** One or more links, cables, bars or structures including attachment points and parts, designed to support the dumper body, dumper body substitute or operator's cab.

**3.5 working circuit pressure:** That nominal pressure applied to the specific circuit by the pump(s).

**3.6 dumper body mass; dumper body substitute mass; operator's cab mass:** Mass of the dumper body, dumper body substitute or operator's cab which is supported by the device.

## 4 Performance requirements

The mechanical support device for the dumper body, dumper body substitute and/or operator's cab shall be designed:

- to withstand the static load imposed by the lowering force, i.e. 1,2 times the working circuit pressure, plus a force which corresponds to the mass of the empty dumper body, dumper body substitute or operator's cab, and the mass of any attachments, arms and linkage acting on the support device;
- for systems that do not have a lowering force other than gravity and have the tipping device mechanically locked, to withstand a force which corresponds to twice the mass of the empty dumper body, dumper body substitute or operator's cab.