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STANDARD

**10532**

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**Earth-moving machinery — Machine-mounted retrieval device — Performance requirements**

*Engins de terrassement — Dispositif de remorquage monté sur l'engin — Exigences de performance*



Reference number  
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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 10532 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 1, *Test methods relating to machine performance*.

Annex A of this International Standard is for information only.

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# Earth-moving machinery — Machine-mounted retrieval device — Performance requirements

## 1 Scope

This International Standard defines the performance requirements of a retrieval device mounted on an earth-moving machine listed in ISO 6165. Requirements for verification testing, if needed, are included.

Studies have shown that the tow rope, used for retrieving a large disabled or mired earth-moving machine is seldom larger than 40 mm diameter wire rope. This is typically the largest size that can be handled by the person connecting the tow rope to the machine.

Therefore, this International Standard is applicable to machine-mounted retrieval devices of capacities not exceeding  $10^6$  N. This value corresponds to the minimum breaking force of a 40 mm diameter Group 3 wire rope with steel core as listed in ISO 2408.

NOTE 1 In accordance with ISO 6750, information on the location and instructions for proper use of retrieval devices is provided in the operator manual.

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

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

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 machine-mounted retrieval device:** Connector attached to a machine that provides a means to attach a tow rope, a chain, or a tow bar to a disabled or mired machine.

**3.2 capacity** (of a retrieval device): Value, expressed in newtons, of the force applied to a machine-mounted retrieval device that results in a stress level equal to the yield strength of the material that is used to manufacture the retrieval device.

### 3.3 machine mass for calculation

(1) **For tractor-scrappers and dumpers:** Combined mass of the machine's operating mass, as defined in ISO 6016, and the rated payload as specified by the manufacturer.

NOTE 2 This mass is the "loaded mass". (See ISO 7132 and ISO 7133.)

(2) **For all other machines:** Operating mass of the machine, as defined in ISO 6016.

**3.4 maximum pull angle:** Angle of  $20^\circ$  which is the included angle of a cone with an axis that is a horizontal line passing through the tow rope connecting point on the machine-mounted retrieval device and parallel to the longitudinal axis of the machine, but limited by interference with parts of the machine.