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# Earth-moving machinery — Sustainability —

## Part 3: Used machines

*Engins de terrassement — Durabilité —*

*Partie 3: Engins d'occasion*



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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](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*.

A list of all parts in the ISO 10987 series, published under the general title, *Earth-moving machinery — Sustainability*, can be found on the ISO website.

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## Introduction

Sustainability has become a concern in relation to earth-moving machinery, as for so many other products. Customers buying the machines are requesting information that can be used to promote sustainability for their work projects. With the increased interest in sustainability, many organizations are preparing sustainability guidelines and manufacturers are providing general sustainability information.

Sustainability covers a wide range of areas related to social, environmental and economic considerations for the development, manufacturing, useful life and end-of-life phases for earth-moving machines.

In addition to large and increasing numbers of new earth-moving machines, many thousands (perhaps hundreds of thousands) of used earth-moving machines are resold worldwide each year. The safety, emissions, noise, energy consumption, working performance and other characteristics of used machines can have problems which could cause potential risks to personal safety and the environment and which cannot be identified by buyers of used machines.

The development of an International Standards can help establish international, scientific, rational, feasible and economic specifications for used earth-moving machines and ensure that used machines meet established technical specifications when resold.

The main purpose and significance of developing this document are the following:

- a) to offer a technical guide for evaluating used earth-moving machines to
  - boost the normative, healthy and orderly development of the used-machine market for earth-moving machines,
  - improve and protect the rights of both sellers and buyers,
  - reduce the customers' purchase and operation costs, and
  - bring the customers more added value;
- b) improve the quality of used machines by
  - increasing the value of those machines,
  - enhancing the sustainable use of earth-moving machines in their lifetime,
  - promoting the application of remanufactured products, and
  - promoting the reasonable utilization of social resources.