

---

---

**Earth-moving machinery — Basic  
types — Identification and terms and  
definitions**

*Engins de terrassement — Principaux types — Identification et  
termes et définitions*



This document is a preview generated by EVS



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2012

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

Page

Foreword .....	iv
1 <b>Scope</b> .....	1
2 <b>Normative references</b> .....	1
3 <b>Terms and definitions</b> .....	1
4 <b>Machine families</b> .....	4
<b>Annex A (informative) Identification procedure</b> .....	8
<b>Annex B (informative) Earth-moving machinery operator control configurations</b> .....	10
<b>Bibliography</b> .....	11

## 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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 6165 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 4, *Terminology, commercial nomenclature, classification and ratings*.

This sixth edition cancels and replaces the fifth edition (ISO 6165:2006), which has been technically revised.

# Earth-moving machinery — Basic types — Identification and terms and definitions

## 1 Scope

This International Standard gives terms and definitions and an identification structure for classifying earth-moving machinery designed to perform the following operations:

- excavation;
- loading;
- transportation;
- drilling, spreading, compacting or trenching of earth, rock and other materials, during work, for example, on roads and dams, in quarries and mines and on building sites.

The purpose of this International Standard is to provide a clear means of identifying machines according to their function and design configurations.

Annex A provides a procedure based on the identification structure used by this International Standard for classifying the machinery and for introducing detailed identifications consistent with the logic implied by the structure.

Annex B provides a hierarchy of the operator control configurations for earth-moving machinery.

The Bibliography provides a list of terminology standards for many of the machine families identified in this International Standard. Included in those terminology standards are figures depicting different configurations of the machine types in each machine family.

## 2 Normative references

The following referenced documents are indispensable for the application 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 10261, *Earth-moving machinery — Product identification numbering system*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### **earth-moving machinery**

self-propelled or towed machine on wheels, crawlers or legs, having *equipment* (3.9) or *attachment* (3.10) (working tool), or both, primarily designed to perform excavation, loading, transportation, drilling, spreading, compacting or trenching of earth, rock and other materials

Note to entry: Earth-moving machinery can be of a type either directly controlled by an operator riding or not riding on the machine, or can be remotely controlled by wired or wireless means with or without direct view on the working area. See Annex B for types of operator control configurations.