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## Building construction machinery and equipment — Classification

*Machines et matériels pour la construction des bâtiments —  
Classification*



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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)

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## Contents

Page

Foreword .....	iv
Introduction.....	v
1 Earth-moving machinery and equipment.....	1
2 Foundation and drilling equipment .....	3
3 Equipment for preparing, conveying and compaction of concrete, mortar and processing reinforcement.....	3
4 Lifting machinery and equipment.....	5
5 Access machinery and equipment .....	6
6 Equipment for installation, finishing work and maintenance .....	6
7 Road construction and maintenance machinery and equipment .....	7
8 Machines and equipment for specialized works and processes in construction .....	8
9 General-use machinery and equipment used in construction .....	9
Bibliography.....	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.

In exceptional circumstances, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example), it may decide by a simple majority vote of its participating members to publish a Technical Report. A Technical Report is entirely informative in nature and does not have to be reviewed until the data it provides are considered to be no longer valid or useful.

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/TR 12603 was prepared by Technical Committee ISO/TC 195, *Building construction machinery and equipment*.

This second edition cancels and replaces the first edition (ISO/TR 12603:1996), which has been technically revised.

## Introduction

This Technical Report classifies the machines and equipment used in building and construction while at the same time presenting a broad list of applicable standards. In doing so, it gives guidance on the appropriate standard to use in a particular case.

The list represents the state of development of standardization work in the field and makes the division of this work within the ISO system comprehensible to the user. To this end, ISO Technical Committees who, in addition to ISO/TC 195, are involved in the development of International Standards applicable to building construction machinery and equipment, are identified. These include the committees responsible for cranes (ISO/TC 96), earth-moving machinery (ISO/TC 127) and elevating work platforms (ISO/TC 214).

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# Building construction machinery and equipment — Classification

## Scope

This Technical Report classifies machinery and equipment used in the building and construction industry into three hierarchical levels, and nine groups and into subgroups. It covers machines and equipment employed in the majority of works in the field, classified according to their specified use. In as far as possible, and where existent, International Standards corresponding to subgroups are specified. The ISO Technical Committees responsible for the International Standards are also given, together with, for the convenience of the user, any related European standards.

NOTE See the Bibliography for the titles of the standards listed.

## 1 Earth-moving machinery and equipment

	Technical Committee	International Standard	European standard
<b>1.1 Tractor-dozers</b>	ISO/TC 127	ISO 6747	EN 474-2
1.1.1 Wheeled dozers			
1.1.2 Crawler dozers			
<b>1.1.3 Loaders</b>	ISO/TC 127	ISO 7131 ISO 6165	EN 474-3
1.2.1 Wheeled loaders			
1.2.2 Crawler loaders			
1.2.3 Digging arm loaders			
<b>1.3 Backhoe loaders</b>	ISO/TC 127	ISO 8812	EN 474-4
1.3.1 Wheeled backhoe loaders			
1.3.2 Crawler backhoe loaders			
<b>1.4 Excavators</b>	ISO/TC 127	ISO 7135 ISO 15219	EN 474-5 EN 474-12
1.4.1 Hydraulic excavators			
1.4.2 Cable excavators			
1.4.3 Wheel excavators			
1.4.4 Bucket chain excavators			
1.4.5 Others			