

# INTERNATIONAL STANDARD

**ISO**  
**10261**

First edition  
1994-08-01

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## Earth-moving machinery — Product identification numbering system

**iTeh STANDARD PREVIEW**  
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*Engins de terrassement — Système de numérotation pour l'identification  
des produits*

ISO 10261:1994

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Reference number  
ISO 10261:1994(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 10261 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 3, *Operation and maintenance*.

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# Earth-moving machinery — Product identification numbering system

## 1 Scope

This International Standard specifies the requirements, content, location and structure of uniform identification marking of earth-moving machinery, as defined in ISO 6165, to facilitate identification.

It does not cover the label/plate for identification of for example the operator's station, components or attachments.

## 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 3098-1:1974, *Technical drawings — Lettering — Part 1: Currently used characters*.

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

## 3 Definitions

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

**3.1 Product Identification Number (PIN):** Unique identification, referred to as an "end-product serial number", assigned to a complete earth-moving machine by the manufacturer for identification purposes.

**3.2 primary marking:** PIN placed on the machine frame in a visible location.

**3.3 concealed marking:** PIN placed on the machine frame in a concealed location.

**3.4 product label/plate:** Means of displaying the PIN and the machine details as specified in clause 5 on the machine.

**3.5 manufacturer:** Person, company or subsidiary under whose responsibility an earth-moving machine has been assembled to form a unit ready for delivery and who is responsible for the uniqueness of the PIN.

**3.6 serial number:** Unique number of the individual machine.

## 4 General requirements

### 4.1 Number of characters

All marking (primary and concealed) and on the product label/plate shall consist of at least six but not more than 17 characters on one single horizontal line without breaks or separations between the characters. There shall be no additional signs, letters, characters, etc. before or after the preceding and ensuing symbols specified in 4.3.

### 4.2 Minimum characters

The numeral zero (0) shall be used to fill out the leading positions of the number whenever less than six characters are used. As examples, the numeral "101" shall read "000101" and "AF3" shall read "000AF3".

### 4.3 Protection against adding characters

A proper symbol shall immediately precede the first numeral or letter and an ensuing proper symbol follow the last numeral or letter of the PIN. The proper symbol shall be the symbol  $\times$ , an asterisk (\*), a caret mark (> and <), a company logotype or a corporate symbol only.

Instead of caret marks, two letter "V"s sideways and pointing towards the PIN may be used. See 6.2.

### 4.4 Placement of characters

To facilitate reading of the acronym "PIN" on the product label/plate, the first letter of each word shall be in bold letters; vertical stacking of the three words **Product Identification Number** is preferred (see figure 1, line D), although horizontal placement is satisfactory.

### 4.5 Characters

The PIN shall consist of numerals and capital letters in roman (upright) lettering according to ISO 3098-1. It may be alphanumeric in any combination of

1 2 3 4 5 6 7 8 9 0

A B C D E F G H J K L M N P R S T U V W X Y Z

The letters I, O and Q, and dashes and other special signs shall not be used for the PIN.

## 5 Product label/plate

The product label/plate shall have text and field in contrasting colours, or printed in white over black background, e.g. bare metal. Materials shall be selected so as to minimize the risk of losing the information.

The product label/plate shall contain the following information in the order listed:

- the name and address of manufacturer, importer or subsidiary: this name is shown even if it is the same as the brand-name (see figure 1, lines A and B);
- the model/type and a space for the machine model or type designation which shall consist only of characters (numerals and letters) in roman (upright) lettering and punctuation marks (e.g. dash or dot) arranged according to the manufacturer's requirements (see figure 1, line C);

- the words "**Product Identification Number**" and a space for the PIN (see 6.2 and figure 1, line D);
- the brand-name or company logotype optionally added at the bottom (see figure 1, line E).

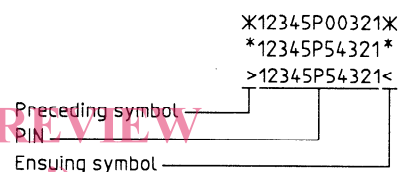
## 6 PIN content

### 6.1 Duplication

The manufacturer shall ensure that non-duplicative numbers are used and that the same PIN number will not be re-issued for 30 years.

### 6.2 Examples

The PIN shall comprise solely the necessary information for a clear and unique machine identification.



## 7 Marking, location and fixation

### 7.1 Primary marking

**7.1.1** The PIN shall be placed on a frame or other similar structure not subject to replacement and in a clearly visible and accessible position, readable from outside the machine. It shall be displayed in a manner which precludes obliteration or alteration.

**7.1.2** It shall be embossed, stamped, engraved or hammered.

**7.1.3** The preferred location is on the front right-hand side of the machine.

### 7.2 Product label/plate

**7.2.1** The preferred location is on the outer left-hand side of the machine and on a permanent structure adjacent to the operator's access area in a clearly visible and accessible position, and not likely to be subject to replacement.

**7.2.2** It shall be legible and indelible under daylight conditions, and visible without removing any part of the machine.

**7.2.3** The product label/plate shall be placed in such a location as to minimize the risk of damage.

**7.2.4** The product label/plate shall be constructed and affixed to the machine in order to make it difficult to alter or remove it without detection or mutilation.

### 7.3 Concealed marking

Earth-moving machinery shall also have a PIN concealed marking identical to the primary marking, located in a concealed area on the rear frame, or the rear portion of an articulated machine. The aim of this marking is to make identification of the machine possible if the primary marking is destroyed or unreadable.

The concealed marking location shall not be published in the operator's or service handbook; it is divulged only to authorized law enforcement officers and others on a need-to-know basis.

The PIN concealed marking location shall be

- a) difficult to discover accidentally;
- b) possible to read by use of a flashlight and/or mirror;
- c) on a permanent structure or on a part of the machine which is not susceptible to damage and repair;

- d) visible without removing, detaching or dismantling any major part of the machine (except for light-weight guards, shields, etc.).

## 8 Instruction handbook reference

The places where the primary marking and the product label/plate appear on the earth-moving machine shall be shown and described in the instruction handbook for operation and maintenance, or equivalent product publications.

## 9 Size of PIN characters

**9.1** The depth of characters (numerals and letters) shall be as follows:

- a) for the PIN primary marking in accordance with 7.1.2, on the machine to a depth of minimum 0,2 mm;
- b) for the PIN on the product label/plate, it shall be embossed, stamped or engraved to a depth of minimum 0,2 mm, or impressed or printed in a durable manner.

**9.2** The minimum height of characters (numerals and letters) shall be as follows:

- a) for characters marked directly on the machine frame(s), 7 mm;
- b) for characters marked in the empty spaces on the product label/plate, 4 mm;

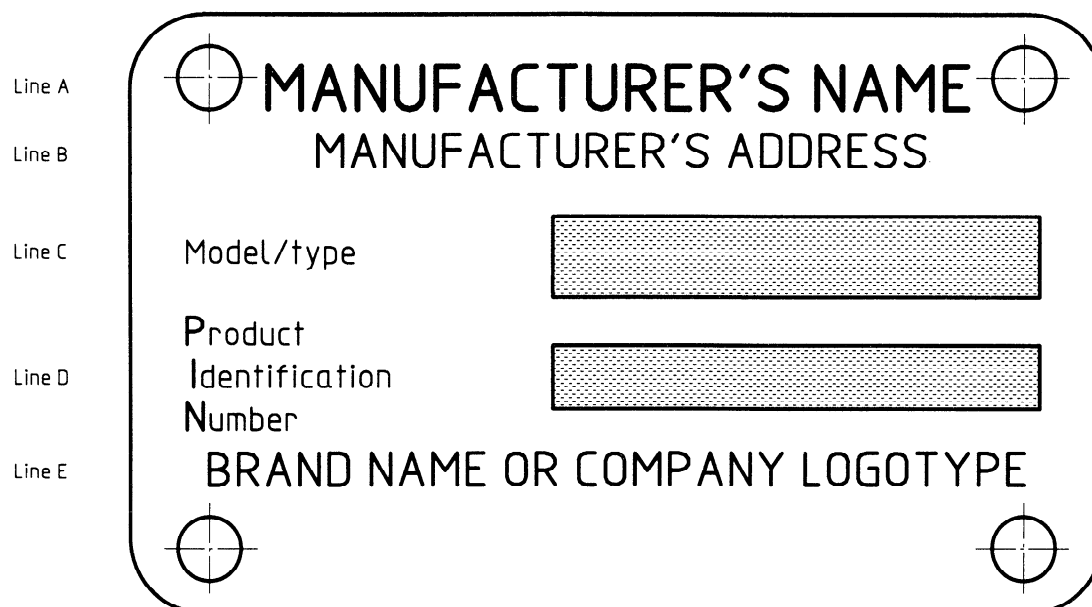


Figure 1 — Example of design of product label/plate

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