INTERNATIONAL STANDARD

ISO 10261

Second edition
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Earth-moving machinery — Product identification numbering system

Engins de terrassement — Système de numérotation pour l'identification des produits

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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

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

This second edition cancels and replaces the first edition (ISO 10261:1994), which has been technically revised.

Annex A forms a normative part of this International Standard.

Earth-moving machinery — Product identification numbering system

1 Scope

This International Standard specifies the requirements, content, structure and identification location of a product identification numbering system for earth-moving machinery as defined in ISO 6165.

It is not applicable to the identification of components or attachments.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

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

3 Terms and definitions

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

3.1
product identification number
PIN
unique set of 17 alphanumeric characters assigned to a complete machine by the manufacturer for identification purposes

NOTE The PIN consists of four fields as defined in 3.1.1 to 3.1.4.

3.1.1
world manufacturer code
WMC
first field of the PIN, alphanumeric code designating the manufacturer of the machine

3.1.2
machine descriptor section
MDS
second field of the PIN, comprising information describing the machine

3.1.3
machine indicator section
MIS
last field of the PIN, distinguishing, in conjunction with the WMC and MDS, one machine from another by designation

3.1.4
check letter section
CL
third field of the PIN, consisting of an alpha character in the ninth position based on a calculation of the remaining 16 characters in the PIN and determining its validity or assigned, non-calculated, alpha character

3.2
primary marking
PIN placed on a machine in a visible location

3.3
concealed marking
PIN, or derivative consisting of the MIS, placed on the machine in a concealed location

3.4
product label/plate
means of displaying the PIN and machine details on the machine

3.5
field
set of one to eight character positions reserved for specific information

EXAMPLES WMC, MDS, MIS, CL.

3.6
manufacturer
individual, partnership or company responsible for ensuring the uniqueness of the PIN

NOTE The manufacturer may be a single entity even when several factories produce the product.

4 General requirements

4.1 Characters in the PIN

The primary marking on the machine and on the product label/plate shall consist of 17 characters on a single horizontal line without breaks or separations between the characters. There shall be no additional signs, letters or characters before or after the preceding and ensuing symbols specified in 4.2. Zero (0) shall be used in the first positions of a field whenever fewer than the required number of characters is used.

EXAMPLE In the MDS, for model “AF3”, write 00AF3, not AF3.

4.2 Protection against adding characters

An acceptable symbol shall immediately precede the first numeral or letter of the PIN and immediately follow the last numeral of the PIN.

The acceptable symbol shall be

— an asterisk (*),

— greater-than and less-than signs (> <),

— a corporate symbol, or

— a company logo.

Instead of greater-than and less-than signs, angular brackets or similar “vee” symbols horizontally pointing inwards may be placed on either side of the PIN.

4.3 Allowed characters

The following characters only shall be used in the PIN:

1234567890

ABCDEFGHIJKLMNOPQRSTUVWXYZ

Characters conforming to ISO 1073-2 [1] are recommended.

4.4 World manufacturer code (WMC)

The WMC shall consist of three alphanumeric (alpha or numeric) characters in positions 1, 2 and 3. The manufacturer shall follow the procedure in annex A to secure a WMC listing. The registration process will require sufficient information to identify a manufacturer.

4.5 Machine descriptor section (MDS)

The MDS shall consist of five alphanumeric characters in positions 4, 5, 6, 7 and 8. The manufacturer is to determine the coding and sequence of the information. This field may be comprised of general descriptive attributes of the machine. It is recommended that this field make use of information that is readily visible on the machine.

EXAMPLE For a model 493C, a suitable character sequence would be 00493 or 0493C.

4.6 Machine indicator section (MIS)

The MIS shall designate a unique manufacturing number and consist of eight alphanumeric characters in positions 10, 11, 12, 13, 14, 15, 16 and 17. Alpha or numeric characters may be used in positions 10, 11, 12 and 13. Only numerals shall be used in positions 14, 15, 16 and 17. The content of the MIS is at the discretion of the manufacturer. The manufacturer may choose to designate the year of manufacture. It is recommended that the year be indicated by the first character of the MIS (position 10). The recommended code to be used to identify the year is given in Table 1.

4.7 Check letter (CL)

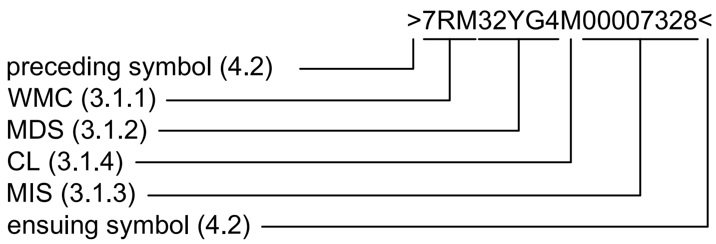
The calculation to determine the CL shall be based on a formula provided by the website manager to the manufacturer (see annex A). As an alternative, the website manager may provide a non-calculated letter that the manufacturer may use in this position for machine models having a volume of less than 100 units per year.

4.8 Duplication

The manufacturer shall ensure that the same 17-character PIN number shall not be reissued for 30 years. The manufacturer is responsible for maintaining a complete file of PIN records for all machines using the assigned WMC.

4.9 PIN format

The following example shows a PIN meeting the requirements of this International Standard.



5 Product label/plate

5.1 Components

The product label/plate (see Figure 1) shall contain at least the following information:

a) name and address of manufacturer;

b) machine model designation, or designation of series or type (if any), which shall be arranged according to the manufacturer’s specifications;

c) the words “Product Identification Number” written in full;

d) PIN.

The brand name or company-trademarked logo may be included. The sample label/plate shown in Figure 1 meets the requirements of this International Standard.

Text on the product label/plate shall be in a colour that contrasts with the colour of the background. Product label/plate materials shall be selected to maintain legibility during the expected life of the machine.

The product label/plate shall be constructed in a manner that makes it difficult to alter or remove without detection or mutilation.

5.2 Location

The product label/plate shall be placed in such a location as to minimize the risk of damage during machine operation or from weathering.

The preferred location of the product label/plate is on the left-hand side of the machine and on the frame or other permanent structure of the machine not considered a replaceable item. The location should be adjacent to the operator’s access area in a clearly visible and accessible position.

The product label/plate shall be visible without removing any part of the machine and shall be readable under daylight conditions.

5.3 Fixation

The product label/plate shall be affixed to the machine in a manner that makes it difficult to alter or remove without detection or mutilation.

6 Marking

6.1 Primary marking

The PIN shall be embossed, stamped or engraved on a frame or other permanent structure not subject to replacement and in a clearly visible and accessible position, readable from outside the machine. For large machines, the preferred primary marking location is on the right-hand side near the front of the machine.

6.2 Optional marking

6.2.1 Product label/plate

The label/plate shall be in accordance with clause 5.

6.2.2 Concealed marking

The machine may also have a concealed marking consisting of the PIN or a derivation of the PIN. The aim of this marking is to make identification of the machine possible if the primary marking is destroyed or becomes unreadable. The concealed marking location shall not be published in the operator's or service manuals; it is to be divulged only to authorized law enforcement officers and others on a need-to-know basis.

The concealed marking location shall be

a) difficult to discover accidentally,

b) possible to read by use of a flashlight or mirror,

c) placed on a permanent structure or a part of the machine not susceptible to damage or repair, and

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

7 PIN character readability

PIN characters on the product label/plate shall be embossed, stamped, engraved, impressed, laser-cut or printed in a durable manner.

PIN characters on the machine structure shall be stamped, laser-cut or engraved in accordance with 6.1 or 6.2.2.

For stamped characters, the minimum depth shall be 0,2 mm.

The minimum height of characters (numerals and letters) shall be

a) at least 4 mm for characters marked in the empty spaces on the product label/plate, and

b) at least 6 mm for characters marked directly on the machine structure.