



SLOVENSKI STANDARD
SIST EN ISO 3411:2000
01-april-2000

Earth-moving machinery - Human physical dimensions of operators and minimum operator space envelope (ISO 3411:1995)

Earth-moving machinery - Human physical dimensions of operators and minimum operator space envelope (ISO 3411:1995)

Erdbaumaschinen - Maschinenführer - Körpermaße - Mindest-Freiraum (ISO 3411:1995)

iTeh STANDARD PREVIEW

Engins de terrassement - Dimensions ergonomiques des opérateurs et espace enveloppe minimal des postes de travail (ISO 3411:1995)

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English version

Earth-moving machinery - Human physical dimensions of
operators and minimum operator space envelope (ISO
3411:1995)

Engins de terrassement - Dimensions ergonomiques des
opérateurs et espace enveloppe minimal des postes de
travail (ISO 3411:1995)

Erdbaumaschinen - Maschinenführer - Körpermaße -
Mindest-Freiraum (ISO 3411:1995)

This European Standard was approved by CEN on 16 April 1999.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Annex ZA (normative)
Normative references to international publications
with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 5353	1995	Earth-moving machinery, and tractors and machinery for agriculture and forestry - Seat index point	EN ISO 5353	1998

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Annex ZB (informative)

Clauses of this European Standard addressing essential requirements or other provisions of EU directives.

This European standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association and supports essential requirements of the following EU Directives.

Machinery Directive 89/392/EEC,
its amendments 91/368/EEC and 93/44/EEC

Compliance with the clauses if this international standard provides one means of conforming with the specific essential requirements if the Directive concerned and associated EFTA regulations.

WARNING: Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.

Compliance with the clauses if this international standard provides one means of conforming with the specific essential requirements if the Directive concerned and associated EFTA regulations.

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INTERNATIONAL
STANDARD

ISO
3411

Third edition
1995-12-15

**Earth-moving machinery — Human
physical dimensions of operators and
minimum operator space envelope**

iTeh STANDARD PREVIEW

(standards.iteh.ai)

*Engins de terrassement — Dimensions ergonomiques des opérateurs et
espace enveloppe minimal des postes de travail*

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Reference number
ISO 3411:1995(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.

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International Standard ISO 3411 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 2, *Safety requirements and human factors*.

This third edition cancels and replaces the second edition (ISO 3411:1982), of which it constitutes a technical revision.

Annex A of this International Standard is for information only.

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Earth-moving machinery — Human physical dimensions of operators and minimum operator space envelope

1 Scope

This International Standard defines the dimensions of male operators of earth-moving machinery and specifies the minimum normal operating space envelope around the operator enclosures (cabs, ROPS, FOPS) generally applicable to earth-moving machinery.

It applies to earth-moving machines as defined in ISO 6165.

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 5353:1995, *Earth-moving machinery, and tractors and machinery for agriculture and forestry — Seat index point*.

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

ISO 6682:1986, *Earth-moving machinery — Zones of comfort and reach for controls*.

ISO 6682:1986/Amd.1:1989, Amendment 1.

3 Definitions

For the purposes of this International Standard, the following definitions apply (see figure 1).

3.1 small operator: Operator where only 5 % of the worldwide earth-moving machinery operator population is smaller than the dimensions given.

3.2 medium operator: Operator where 50 % of the worldwide earth-moving machinery operator population is smaller and larger than the dimensions given.

3.3 large operator: Operator where only 5 % of the worldwide earth-moving machinery operator population is larger than the dimensions given.

4 Physical dimensions of operators

4.1 General

The physical dimensions of small, medium and large operators are given in figures 2 and 3 for standing and sitting operators respectively. The body pivot dimensions for small, medium and large operators are given in figure 4.