SLOVENSKI STANDARD
SIST EN ISO 2860:2000

01-april-2000

Earth-moving machinery - Minimum access dimensions (ISO 2860:1992)

Earth-moving machinery - Minimum access dimensions (ISO 2860:1992)

Erdbaumaschinen - Öffnungen - Mindestmaße (ISO 2860:1992)

Engins de terrassement - Dimensions minimales des passages (ISO 2860:1992)

Ta slovenski standard je istoveten z: **EN ISO 2860:1999**

ICS:

53.100 Stroji za zemeljska dela Earth-moving machinery

SIST EN ISO 2860:2000 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

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EN ISO 2860

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ICS 53.100

Supersedes EN 22860:1985

English version

Earth-moving machinery - Minimum access dimensions (ISO 2860:1992)

Engins de terrassement - Dimensions minimales des passages (ISO 2860:1992)

Erdbaumaschinen - Öffnungen - Mindestmaße (ISO 2860:1992)

This European Standard was approved by CEN on 15 April 1999.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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.

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

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

Ref. No. EN ISO 2860:1999 E

Foreword

The text of the International Standard from Technical Committee ISO/TC 127 "Earth-moving machinery" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 151 "Construction equipment and building material machines - Safety", the secretariat of which is held by DIN.

This European Standard replaces EN ISO 22860:1985.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 1999, and conflicting national standards shall be withdrawn at the latest by November 1999.

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 EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZB, which is an integral part of this standard.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 2860:1992 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

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.

Publication	Year	Title	EN	Year
ISO 3411	1995	Earth-moving machinery - Human physical dimensions of operators and minimum operator space envelope	EN ISO 3411	1999
ISO 6165	1997	Earth-moving machinery – Basic types - Vocabulary	EN ISO 6165	1999

Annex ZB (informative)

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

This Europrean 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.

INTERNATIONAL STANDARD

ISO 2860

Fourth edition
1992-02-15

Earth-moving machinery — Minimum access dimensions

Engins de terrassement — Dimensions minimales des passages

Reference number
ISO 2860:1992(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 2860 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Sub-Committee SC 2, *Safety requirements and human factors*.

This fourth edition cancels and replaces the third edition (ISO 2860:1983), of which it constitutes a technical revision.

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Earth-moving machinery — Minimum access dimensions

1 Scope

This International Standard specifies the minimum access openings on earth-moving machinery as defined in ISO 6165 for

a) hand access,

b) head access,

c) body access,

d) arm access,

e) two-handed access.

It provides engineers and designers with information in order that the access openings provided on equipment and machinery for purposes of inspection, adjustment and maintenance have sufficient dimensions for the intended function by personnel in the field or shop.

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 3411:1982, *Earth-moving machinery — Human physical dimensions of operators and minimum operator space envelope.*

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

3 Minimum access openings

The dimensions shown in 3.1 to 3.4 are the recommended minimum for limited activity through the opening. Larger openings will be needed in specific instances, depending upon the nature of the task, size and mass of the parts, etc. Such larger openings can be more useful and allow greater efficiency.

The larger openings for access with arctic clothing are for earth-moving machines and equipment intended for use in cold environments.

Based on available anthropometric data, the recommended openings, in figures 1 to 5, are the smallest that will accommodate the 95th percentile operator as defined in ISO 3411.

In all cases in 3.1 to 3.4, all corners may have an optional maximum 25 mm radius.