
Akustika - Emisija hrupa naprav in opreme - Smernice za uporabo temeljnih standardov za ugotavljanje emisijske ravni zvočnega tlaka na mestu delovanja in na drugih opredeljenih mestih (ISO 11200:1995)

Acoustics - Noise emitted by machinery and equipment - Guidelines for the use of basic standards for the determination of emission sound pressure levels at a work station and other specified positions (ISO 11200:1995)

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Akustik - Geräuschabstrahlung von Maschinen und Geräten - Leitlinien zur Anwendung der Grundnormen zur Bestimmung von Emissions-Schalldruckpegeln am Arbeitsplatz und an anderen festgelegten Orten (ISO 11200:1995)

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Acoustique - Bruit émis par les machines et équipements - Guide d'utilisation des normes de base pour la détermination des niveaux de pression acoustique d'émission au poste de travail et en d'autres positions spécifiées (ISO 11200:1995)

Ta slovenski standard je istoveten z: EN ISO 11200:1995

ICS:

17.140.20	Emisija hrupa naprav in opreme	Noise emitted by machines and equipment
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EUROPEAN STANDARD

EN ISO 11200

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 1995

ICS 17.140.00

Descriptors: acoustics, operating stations, human factors engineering, noise:sound, engine noise, acoustic measurements, sound pressure, level quantity

English version

Acoustics - Noise emitted by machinery and equipment - Guidelines for the use of basic standards for the determination of emission sound pressure levels at a work station and at other specified positions (ISO 11200:1995)

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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

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EN 11200:1995

Foreword

The text of the International Standard ISO 11200:1995 has been prepared by the Technical Committee ISO/TC 43 "Acoustics" in collaboration with the Technical Committee CEN/TC 211 "Acoustics".

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of an identical text or by endorsement, at the latest by June 1996, and conflicting national standards shall be withdrawn at the latest by June 1996.

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).

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

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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 3741	1988	Acoustics - Determination of sound power levels of noise sources - Precision methods for broad-band sources in reverberation rooms	EN 23741	1991
ISO 3742	1988	Acoustics - Determination of sound power levels of noise sources - Precision methods for discrete-frequency and narrow-band sources in reverberation rooms	EN 23742	1991
ISO 3743-1	1994	Acoustics - Determination of sound power levels of noise sources - Engineering methods for small, movable sources in reverberant fields - Part 1: Comparison method for hard-walled test rooms	EN ISO 3743-1	1995
ISO 3744	1994	Acoustics - Determination of sound power levels of noise sources using sound pressure - Engineering method in an essentially free field over a reflecting plane	EN ISO 3744	1995
ISO 3746	1995	Acoustics - Determination of sound power levels of noise sources using sound pressure - Survey method using an enveloping measurement surface over a reflecting plane	EN ISO 3746	1995
ISO 9614-1	1993	Acoustics - Determination of sound power levels of noise sources using sound intensity - Part 1: Measurement at discrete points	EN ISO 9614-1	1995
ISO 11201	1995	Acoustics - Noise emitted by machinery and equipment - Measurement of emission sound pressure levels at a work station and at other specified positions - Engineering method in an essentially free field over a reflecting plane	EN ISO 11201	1995
ISO 11202	1995	Acoustics - Noise emitted by machinery and equipment - Measurement of emission sound pressure levels at a work station and at other specified positions - Survey method in situ	EN ISO 11202	1995

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Foreword

The text of the International Standard ISO 11200:1995 has been prepared by Technical Committee ISO/TC 43 "Acoustics" in collaboration with Technical Committee CEN/TC 211 "Acoustics", the secretariat of which is held by DS.

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 11203	1995	Acoustics - Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions from the sound power level	EN ISO 11203	1995
ISO 11204	1995	Acoustics - Noise emitted by machinery and equipment - Measurement of emission sound pressure levels at a work station and at other specified positions - Method requiring environmental corrections	EN ISO 11204	1995

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INTERNATIONAL
STANDARD

ISO
11200

First edition
1995-12-15

**Acoustics — Noise emitted by machinery
and equipment — Guidelines for the use
of basic standards for the determination of
emission sound pressure levels at a work
station and at other specified positions**

*Acoustique — Bruit émis par les machines et équipements — Guide
d'utilisation des normes de base pour la détermination des niveaux de
pression acoustique d'émission au poste de travail et en d'autres positions
spécifiées*



Reference number
ISO 11200:1995(E)

ISO 11200:1995(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.

International Standard ISO 11200 was prepared by Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 1, *Noise*.

Annex A forms an integral part of this International Standard. Annex B is for information only.

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Introduction

0.1 Control of noise from machinery or equipment requires effective exchange of acoustical information among the several parties concerned. These include the manufacturer, installer and user of the machinery or equipment. This acoustical information is obtained from measurements. These measurements are useful only if the conditions under which they are carried out are specified, if they yield defined acoustical quantities, and if they are made using standardized instruments.

Two quantities which complement one another can be used to describe the sound emission of machinery or equipment. One of them is the sound power level and the other is the emission sound pressure level at a specified position. The International Standards which describe the basic methods of determining the sound power level are ISO 3740 to ISO 3747 and ISO 9614-1 and ISO 9614-2. This International Standard introduces a series of four International Standards describing various methods for determining emission sound pressure levels of machinery and equipment. Emission sound pressure levels are sound pressure levels at one or more positions located in the vicinity of an item of machinery or equipment, which arise solely from the noise emitted by that machinery or equipment when it performs a specified function under given operating conditions, on a particular mounting in a defined acoustic environment. The operating and mounting conditions are the same as those used in the determination of sound power levels. The positions with which this series of International Standards is concerned include work stations, normally specified in a noise test code (if one exists), occupied by one or more operators of the machinery, and other positions which may be occupied from time to time by other persons. The positions may be located in the vicinity of the machinery, or in a cab, or in some other enclosure more or less remote from the machinery. Emission sound pressure levels may arise from continuous, steady operational machinery or they may be averages for a defined work cycle; they are not averages over a total working day during which the machinery might perform different functions, operate at different control settings, or undergo changes of work load.

Emission sound pressure levels in conjunction with sound power levels are used for declaration of the noise emitted under the defined conditions, verification of declared values, comparison of the noise emitted by machinery of various types and sizes, comparison with limits specified in a purchasing contract or a regulation, engineering work to reduce the noise emission of machinery, and prediction of noise exposure at the specified positions.

For many products, the sound power level is the primary metric for comparison of noise emissions. Noise test codes and specific declaration codes should state the primary metric for comparison.