



SLOVENSKI STANDARD SIST EN ISO 15744:2003

01-september-2003

Hand-held non-electric power tools - Noise measurement code - Engineering method (grade 2) (ISO 15744:2002)

Handgehaltene nicht-elektrisch betriebene Maschinen - Geräuschmessverfahren - Verfahren der Genauigkeitsklasse 2 (ISO 15744:2002)

Machines a moteur portatives non électriques - Code pour le mesurage du bruit - Méthode d'expertise (classe de précision 2) (ISO 15744:2002)

Ta slovenski standard je istoveten z: EN ISO 15744:2002

ICS:

17.140.20	Emisija hrupa naprav in opreme	Noise emitted by machines and equipment
25.140.01	Ü[} a[] [a[a[] [z] [Hand-held tools in general

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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 15744

March 2002

ICS 17.140.20; 25.140.01

English version

**Hand-held non-electric power tools - Noise measurement code -
Engineering method (grade 2) (ISO 15744:2002)**

Machines à moteur portatives non électriques - Code pour
le mesurage du bruit - Méthode d'expertise (classe de
précision 2) (ISO 15744:2002)

Handgehaltene nicht-elektrisch betriebene Maschinen -
Geräuschmessverfahren - Verfahren der
Genauigkeitsklasse 2 (ISO 15744:2002)

This European Standard was approved by CEN on 11 March 2002.

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 Management Centre 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 Management Centre 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, Malta, 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

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 15744:2002 (E)

CORRECTED 2002-04-24

Foreword

This document (ISO 15744:2002) has been prepared by Technical Committee ISO/TC 118 "Compressors, pneumatic tools and pneumatic machines" in collaboration with Technical Committee CEN/TC 255 "Hand-held, non-electric power tools - Safety", the secretariat of which is held by SIS.

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 September 2002, and conflicting national standards shall be withdrawn at the latest by September 2002.

This document 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 document.

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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 15744:2002 has been approved by CEN as a European Standard without any modifications.

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 (including amendments).

NOTE Where an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
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 4871	1996	Acoustics - Declaration and verification of noise emission values of machinery and equipment	EN ISO 4871	1996
ISO 8662-2	1992	Hand-held portable power tools - Measurement of vibrations at the handle - Part 2: Chipping hammers and riveting hammers	EN 28662-2	1994
ISO 8662-3	1992	Hand-held portable power tools - Measurement of vibrations at the handle - Part 3: Rock drills and rotary hammers	EN 28662-3	1994
ISO 8662-7	1997	Hand-held portable power tools - Measurement of vibrations at the handle - Part 7: Wrenches, screwdrivers and nut runners with impact, impulse or ratchet action	EN ISO 8662-7	1997
ISO 8662-8	1997	Hand-held portable power tools - Measurement of vibrations at the handle - Part 8: Polishers and rotary, orbital and random orbital sanders	EN ISO 8662-8	1997
ISO 8662-14	1996	Hand-held portable power tools - Measurement of vibrations at the handle - Part 14: Stone-working tools and needle scalars	EN ISO 8662-14	1996
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

EN ISO 15744:2002 (E)

Annex ZB
(informative)**Relationship of this document with EC Directives**

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association and supports essential requirements of EC Directive(s) :

Machinery Directive 98/37/EC, amended by Directive 98/79/EC.

Compliance with this document provides one means of conforming with the specific essential requirements of the Directive concerned and associated EFTA regulations.

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

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INTERNATIONAL
STANDARD

ISO
15744

First edition
2002-03-15

**Hand-held non-electric power tools —
Noise measurement code — Engineering
method (grade 2)**

*Machines à moteur portatives non électriques — Code pour le mesurage
du bruit — Méthode d'expertise (classe de précision 2)*

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Reference number
ISO 15744:2002(E)

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Printed in Switzerland

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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.

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 15744 was prepared by Technical Committee ISO/TC 118, *Compressors, pneumatic tools and pneumatic machines*, Subcommittee SC 3, *Pneumatic tools and machines*.

Annexes A, B and C of this International Standard are for information only.

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Introduction

The noise test code presented by this International Standard gives methods for determining and declaring the noise emission values of hand-held non-electric power tools: i.e. the total noise level from the power tool expressed as sound power level and as the emission sound pressure level at the work station. These methods have been designed to give results that make it possible to compare the acoustic performance of various power tools.

The power tools are either run at no load, when this gives a representative value, or in an on-load condition but with the process noise muffled so that it is well below the noise level of the power tool. The methods were chosen to give a satisfactory reproducibility of results and are based on present practice in industry.

For many power tools in a real work situation the noise from the process dominates the total noise emission in actual use. The process noise varies within very wide limits and cannot be predicted. Users are cautioned that the emission sound pressure level as determined by this code may not be representative of actual operator exposure levels, which are unique characteristics of individual applications and environmental factors beyond the control of the manufacturers of the equipment covered by this International Standard, and are under the exclusive control (and therefore the responsibility) of the users of the equipment.

This International Standard was prepared with the assistance of both PNEUROP, the European body representing manufacturers of compressors, vacuum pumps, pneumatic tools, pneumatic machines and allied equipment, and CAGI, the compressed air and gas institute, in the United States.

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