



SLOVENSKI STANDARD

SIST EN 28662-2:2000

01-april-2000

Hand-held portable power tools - Measurement of vibrations at the handle - Part 2: Chipping hammers and riveting hammers (ISO 8662-2:1992)

Hand-held portable power tools - Measurement of vibrations at the handle - Part 2: Chipping hammers and riveting hammers (ISO 8662-2:1992)

Handgehaltene motorbetriebene Maschinen - Messung mechanischer Schwingungen am Handgriff - Teil 2: Meißelhämmer und Niethämmer (ISO 8662-2:1992)

Machines a moteur portatives - Mesurage des vibrations au niveau des poignées - Partie 2: Marteaux burineurs et marteaux riveurs (ISO 8662-2:1992)

Ta slovenski standard je istoveten z: EN 28662-2:1994

ICS:

13.160	Vpliv vibracij in udarcev na ljudi	Vibration and shock with respect to human beings
25.140.01	Ü[} a[] [a[a[] [z] [Hand-held tools in general

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EUROPEAN STANDARD

EN 28662-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 1994

UDC (621.974./976)-182.4:534.1.08

Descriptors: Power-operated tools, portable equipment, portable electric machine tools, hammers, electric hammers, handles, vibration tests, measurements, vibration

English version

Hand-held portable power tools - Measurement of vibrations at the handle - Part 2: Chipping hammers and riveting hammers (ISO 8662-2:1992)

Machines à moteur portatives - Mesurage des vibrations au niveau des poignées - Partie 2: Marteaux burineurs et marteaux riveurs (ISO 8662-2:1992)

Handgehaltene motorbetriebene Maschinen - Messung mechanischer Schwingungen am Handgriff - Teil 2: Meißelhämmer and Niethämmer (ISO 8662-2:1992)

This European Standard was approved by CEN on 1994-05-20. 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.

The European Standards exist 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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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Ref. No. EN 28662-2:1994 E

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EN 28662-2: 1994

Foreword

According to Resolution 13/1992, taken in April 1992 at the third meeting of CEN/TC 231 "Mechanical vibration and shock", the International Standard

ISO 8662-2:1992 Hand-held portable power tools; Measurement of vibrations at the handle;
Part 2: Chipping hammers and riveting hammers

was submitted under the Unique Acceptance Procedure for approval as European Standard.

The result of the Formal Vote was positive.

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 EC Directive(s).

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 1994, and conflicting national standards shall be withdrawn at the latest by November 1994.

In accordance with the CEN/CENELEC Internal Regulations, 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 United Kingdom.

Endorsement notice

The text of the International Standard ISO 8662-2:1992 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in annex ZA (normative).

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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 (including amendments).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 2787	1984	Rotary and percussive pneumatic tools - Performance tests	--	--
ISO 8662-1	1988	Hand-held portable power tools - Measurement of vibrations at the handle - Part 1: General	EN 28662-1	1992

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INTERNATIONAL
STANDARD

ISO
8662-2

First edition
1992-07-01

**Hand-held portable power tools — Measurement
of vibrations at the handle —**

Part 2:
Chipping hammers and riveting hammers

*Machines à moteur portatives — Mesurage des vibrations au niveau des
poignées —*

Partie 2: Marteaux burineurs et marteaux riveurs

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Reference number
ISO 8662-2:1992(E)

ISO 8662-2:1992(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 8662-2 was prepared by Technical Committee ISO/TC 118, *Compressors, pneumatic tools and pneumatic machines*, Sub-Committee SC 3, *Pneumatic tools and machines*.

ISO 8662 consists of the following parts, under the general title *Hand-held portable power tools — Measurement of vibrations at the handle*:

- Part 1: *General*
- Part 2: *Chipping hammers and riveting hammers*
- Part 3: *Rock drills and rotary hammers*
- Part 4: *Grinding machines*
- Part 5: *Pavement breakers and hammers for construction work*
- Part 6: *Impact drills*
- Part 7: *Impact wrenches*
- Part 8: *Orbital sanders*

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Annex A forms an integral part of this part of ISO 8662. Annexes B and C are for information only.

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Introduction

This part of ISO 8662 specifies how a type test for the measurement of vibrations at the handles of chipping hammers and riveting hammers shall be performed. It supplements ISO 8662-1 which gives the general specifications for the measurement of vibrations at the handles of hand-held portable power tools. It specifies the operation of the tool under type test and other requirements for the performance of the type test.

The principle of the operation of these power tools is that a driving medium causes a piston to transmit energy periodically to a chisel or a die. The piston also generates a reaction force on the housing of the power tool, which makes it necessary to apply a certain minimum static force on the tool to produce a stationary operating condition.

The reproducibility determined from a great number of tests in which these tools were operated in typical work situations (i.e. chipping steel and riveting) was found to be poor and the possibility of improving it is small. It was therefore concluded that the type test must be carried out using a dummy load, so chosen that the values measured correspond to those found in typical work situations. The reproducibility of the proposed method has been found to be good.

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Hand-held portable power tools — Measurement of vibrations at the handle —

Part 2:

Chipping hammers and riveting hammers

1 Scope

This part of ISO 8662 specifies a laboratory method for measuring the vibrations at the handles of hand-held power driven chipping hammers and riveting hammers. It is a type test procedure for establishing the magnitude of vibration in the handle of a power tool operating under a specified load.

The power tools covered by this part of ISO 8662 may be electrically, pneumatically or hydraulically driven, or driven by means of an internal combustion engine.

It is intended that the results obtained can be used to compare different power tools or different models of the same power tool. Although the levels measured are obtained in a simulated work operation they give an estimation of the levels that would be found in a real work situation.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 8662. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 8662 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 2787:1984, *Rotary and percussive pneumatic tools — Performance tests*.

ISO 8662-1:1988, *Hand-held portable power tools —*

Measurement of vibrations at the handle — Part 1: General.

3 Quantities to be measured

The quantities to be measured are as follows:

- the root-mean-square (r.m.s.) acceleration in accordance with ISO 8662-1:1988, subclause 3.1, presented as a weighted acceleration in accordance with ISO 8662-1:1988, subclause 3.3, and as a frequency analysis in accordance with ISO 8662-1:1988, subclause 3.2;

NOTE 1 The frequency analysis may be omitted if the absence of d.c.-shift can be proved by other means.

- the supply voltage, and the air or hydraulic pressure;

- the blow frequency;

- the feed force.

4 Instrumentation

4.1 General

The specifications for the instrumentation given in ISO 8662-1:1988, subclauses 4.1 to 4.6, apply.

4.2 Transducer

The specification for the transducer given in ISO 8662-1:1988, subclause 4.1, applies.

NOTE 2 For light handles, for example made of plastic, care must be taken not to load the handle with too large

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