
Hand-held portable power tools - Measurement of vibrations at the handle - Part 3: Rock drills and rotary hammers - Amendment A1 (ISO 8662-3:1992)

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Handgehaltene motorbetriebene Maschinen - Messung mechanischer Schwingungen am Handgriff - Teil 3: Gesteinsbohrmaschinen und Bohrhämmer (ISO 8662-3:1992)

Machines a moteur portatives - Mesurage des vibrations au niveau des poignées - Partie 3: Marteaux perforateurs et marteaux rotatifs (ISO 8662-3:1992)

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Ta slovenski standard je istoveten z: EN 28662-3:1994/A1:1995

ICS:

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

SIST EN 28662-3:2000/A1:2000**en**

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EUROPEAN STANDARD

EN 28662-3:1994/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1995

ICS 13.160; 25.140.10

Descriptors: tools, power-operated tools, portable equipment, portable electric machine tools, pneumatic equipment, hydraulic equipment, hand tools, drill hammers, rotary hammers, vibration, tests, vibration tests

English version

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This amendment 1 modifies the European Standard EN 28662-3:1994. This amendment was approved by CEN on 1995-05-18. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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.

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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

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EN 28662-3:1994/A1:1995

Foreword

The text of this Amendment EN 28662-3:1994/A1:1995 to the European Standard EN 28662-2:1994 has been prepared by the Technical Committee CEN/TC 231 "Mechanical vibration and chock" the secretariat of which is held by DIN.

This Amendment to the European Standard EN 28662-3:1994 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 Amendment to the European Standard EN 28662-3:1994 shall be given the status of a National Standard, either by publication of an identical text or by endorsement, at the latest by February 1996, and conflicting national standards shall be withdrawn at the latest by February 1996.

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, United Kingdom.

Endorsement Notice

The text of the International Standard ISO 8662-3:1992 has been approved by CEN as a European Standard with the following common modifications:

The following common modifications have to be made to EN 28662-3:1994.

- Replace the last paragraph of the scope by the following: *It is intended that the results obtained can be used to compare different power tools or different models of the same type of power tools.*
- Subclause 5.1, delete the 2nd sentence, note 3 and the corresponding annex A.
- Subclause 6.1, modify the 5th paragraph as follows: *The inserted test tool shall rotate during the test*
- Figure 1, modify the title into: *Position and example of fastening of the transducer and measurement direction*
- Subclause 6.2.1, delete the last sentence.
- Subclause 6.2.2, modify the 2nd and 3rd paragraphs and note 4 as follows:
The energy absorber consists of a steel tube which is firmly mounted on a rigid base plate having a minimum mass of 300 kg to prevent the tool from jumping, and filled with balls of hardened steel. At the top of the steel tube resting on the balls is inserted a test tool on which the power tool works. The test tool should be preferably made in one part but it is acceptable for vibration measurements to have this tool made of two parts as shown in figure 4. The steel tube shall have a hardness of 60 HRC ± 2 HRC, the anvil and test tool shall have a hardness of 55 HRC ± 2 HRC and the steel balls shall have a hardness of 62 HRC ± 3 HRC.

NOTE 4 — A cooling device may be provided with the energy absorber.

Figure 4 illustrates an energy absorber (loading device) and a test tool. The diameter, D, of the steel tube shall be 60 mm ± 1 mm, the nominal diameter of the steel balls 3,96 mm or 4 mm and the height, H, of the steel ball column 150 mm ± 4 mm.

- Figure 4, replace the text *Concrete block having a minimum mass of 300 kg* by *Heavy block having a minimum mass of 300 kg* and, on the drawing, enlarge the height of the anvil up to D.
- Subclause 6.3, replace the 2nd sentence of the 2nd paragraph by the following: *The feed force should be chosen within the range 80 N to 200 N, and shall be maintained within a tolerance of ± 10 % of the chosen value.*
- Table 1, delete the limitation of the shank diameter of 20 mm.
- Add a new subclause 7.5 as follows:

7.5 Evaluation of results

The base for declaration is the arithmetic mean of the mean value obtained for each of the three operators.

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 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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Annex ZB (informative)

Bibliography

- ENV 25349 Mechanical vibration — Guidelines for the measurement and the assessment of human exposure to hand-transmitted vibration (ISO 5349:1986)