BS EN 12096:2026

BSI Standards Publication

Mechanical vibration — Declaration and verification of vibration emission values



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This British Standard is the UK implementation of EN 12096:2026. It supersedes BS EN 12096:1997, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee GME/21/6, Human exposure to mechanical vibration and shock.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Mechanical vibration - Declaration and verification of vibration emission values

Vibrations mécaniques - Déclaration et vérification des valeurs d'émission vibratoire

Mechanische Schwingungen - Angabe und Nachprüfung von Schwingungskennwerten

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 12096:2026) has been prepared by Technical Committee CEN/TC 231 “Mechanical vibration and shock”, the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by January 2027, and conflicting national standards shall be withdrawn at the latest by January 2027.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 12096:1997.

EN 12096:2026 includes the following significant technical changes with respect to EN 12096:1997:

— the document has been fundamentally adapted to the state of the art;

— repeated shock vibrations have been included;

— the structure has been revised so that a distinction can be made between declaration and verification.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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Introduction

Information on vibration emission of vibrating machinery is needed by users, planners, manufacturers and authorities, for example to comply with the obligations described in the EU Machinery Regulation (EU) 2023/1230. This information is important for comparing the vibration emissions from different products and for assessing the vibration against vibration requirements.

In order for vibration emission values to be useful, uniform methods are necessary for following purposes:

— measurement of the vibration values;

— determination of the vibration emission values to be declared;

— presentation of the declared vibration emission values;

— verification of the declared vibration emission values.

The obligations to control risks arising from exposures to vibration are specified in Europe by Directive 2002/44/EC which uses a daily vibration exposure value $A(8)$, that is not to be confused with the vibration emission used in this document.

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