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Mechanical vibration in rotating machinery —

Part 2: Requirements for instruments for measuring vibration severity

[ISO title: Mechanical vibration of rotating and reciprocating
machinery — Requirements for instruments for measuring
vibration severity]

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Cooperating organizations

The Mechanical Engineering Standards Committee, under whose direction this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:

Associated Offices Technical Committee	Department of Trade (Marine Division)
Association of Consulting Engineers	Electricity Supply Industry in England and Wales*
Association of Hydraulic Equipment Manufacturers	Engineering Equipment Users' Association*
Association of Mining Electrical and Mechanical Engineers	Federation of Manufacturers of Construction Equipment and Cranes
British Compressed Air Society	Health and Safety Executive*
British Electrical and Allied Manufacturers' Association (BEAMA)	Institution of Gas Engineers
British Gas Corporation	Institution of Mechanical Engineers*
British Gear Manufacturers' Association	Institution of Plant Engineers
British Internal Combustion Engine Manufacturers' Association*	Institution of Production Engineers
British Pump Manufacturers' Association	London Transport Executive
British Steel Corporation	Machine Tool Trades Association
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Department of the Environment	Telecommunication Engineering and Manufacturing Association (TEMA)
	The Society of Motor Manufacturers and Traders Limited
	Water-tube Boilermakers' Association

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this British Standard:

British Ship Research Association	North East Coast Institution of Engineers and Shipbuilders
Institution of Electronic and Radio Engineers	Power Generation Association (BEAMA)
Lloyd's Register of Shipping	Rotating Electrical Machines Association (BEAMA)
Machine Tool Industry Research Association	Society of British Aerospace Companies Limited
Motor Industry Research Association	Society of Environmental Engineers
National Institute of Agricultural Engineering	United Kingdom Atomic Energy Authority
Navy and Vickers Gearing Research Association	Yarrow-Admiralty Research Department
	Individual experts

This British Standard, having been prepared under the direction of the Mechanical Engineering Standards Committee, was published under the authority of the Executive Board on 29 December 1978

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National foreword

This British Standard is identical with International Standard ISO 2954:1975 “*Mechanical vibration of rotating and reciprocating machinery — Requirements for instruments for measuring vibration severity*”. It has been prepared under the direction of the Mechanical Engineering Standards Committee and is one of a series of standards concerned with mechanical vibration and shock.

Terminology and conventions. The text of the international standard has been approved as suitable for publication, without deviation, as a British Standard. Some terminology and certain conventions are not identical with those used in British Standards; attention is especially drawn to the following.

The comma has been used throughout as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever the words “International Standard” appear, referring to this standard, they should be interpreted as “British Standard”.

Cross-references. The following international standards are referred to in the text and for each there is a corresponding British Standard; these are as listed below:

International standard	Corresponding British Standard
ISO 2041:1975	BS 3015:1976 <i>Glossary of terms relating to mechanical vibration and shock</i> (Technically equivalent, though with the omission of some terms, mostly concerned with acoustics or mathematics, and with some changes)
ISO 2372:1974	BS 4675 <i>Mechanical vibration in rotating machinery</i> Part 1:1976 <i>Basis for specifying evaluation standards for rotating machines with operating speeds from 10 to 200 revolutions per second</i> (Identical)
ISO 2373:1974	BS 4999 <i>General requirements for rotating electrical machines</i> Part 50:1978 <i>Mechanical performance — vibration</i> (Section 1) (Identical except that the recommended limits of vibration severity which are included in the International Standard for guidance purposes only are a requirement of the British Standard)

NOTE The references to IEC 184 and IEC 222, for which there are no corresponding British Standards, constitute informative matter only, and since no mandatory requirements are involved the validity of this British Standard is not affected.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.