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Specification for

Dimensions of flywheel housing mounting pads and brackets for I.C. engines

Co-operating organizations

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

Admiralty	Engineering Equipment Users' Association
Air Ministry	Gas Council
Associated Offices' Technical Committee	High Commission of India
Association of Consulting Engineers (Incorporated)	Institute of Marine Engineers
Association of Mining Electrical and Mechanical Engineers	Institute of Petroleum
British Chemical Plant Manufacturers' Association	Institution of Civil Engineers
British Compressed Air Society	Institution of Gas Engineers
British Electrical and Allied Manufacturers' Association*	Institution of Heating and Ventilating Engineers
British Engineers' Association*	Institution of Mechanical Engineers
British Gear Manufacturers' Association	Institution of Mechanical Engineers (Automobile Division)
British Internal Combustion Engine Manufacturers' Association*	Institution of Production Engineers
British Iron and Steel Federation	Locomotive and Allied Manufacturers' Association of Great Britain
British Railways, The British Transport Commission	Machine Tool Trades Association
Crown Agents for Oversea Governments and Administrations	Ministry of Labour (Factory Inspectorate)
D.S.I.R. — National Engineering Laboratory	Ministry of Power
Electricity Council, The Generating Board and the Area Boards in England and Wales	Ministry of Transport
	Ministry of Works
	National Coal Board
	National Physical Laboratory (D.S.I.R.)
	Radio Industry Council
	War Office*

The Government department and scientific and industrial 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 standard:

British Cycle and Motor Cycle Industries Association Ltd.	Diesel Engineers' and Users' Association
British Internal Combustion Engine Research Association	Society of Motor Manufacturers and Traders Limited

This British Standard, having been approved by the Mechanical Engineering Industry Standards Committee and endorsed by the Chairman of the Engineering Divisional Council, was published under the authority of the General Council on 30 July 1962

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The following BSI references relate to the work on this standard:
Committee references MEE/137 and MEE/137/2
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Foreword

This standard makes reference to the following British Standards:

BS 1580, *Unified screw threads (with metric equivalents)*.

BS 1768, *Unified precision hexagon bolts, screws and nuts (UNC and UNF threads) normal series*.

BS 2693, *Screwed studs*.

BS 3092, *Dimensions of main friction clutches, main power-take-off assemblies, and associated attachments for i.c. engines*.

This British Standard has been prepared under the authority of the Mechanical Engineering Industry Standards Committee to assist engine manufacturers and users by specifying certain features of engine mountings applied to flywheel housings. The mounting dimensions specified are related not in any way to the size or power of the engines concerned, but to the flywheel housings, some dimensions of which are specified in BS 3092, “*Dimensions of main friction clutches, main power-take-off assemblies, and associated attachments for i.c. engines*”. The British Standard pad numbers allocated to the range of pad sizes in Table 1 of this standard are related to the flywheel housing code numbers of BS 3092, Table 17, and, although it is generally intended that pads should be used on flywheel housings with matching code numerals, pads of a given size may be matched with housings with larger code numerals (i.e. smaller sizes.) However, in respect of the recommended use of these pads in engine locations other than flywheel housings (Clause 5), it is left to engine designers in cooperation with engine purchasers or manufacturers of overall installations to select from the data specified in this standard which form and size of mountings shall be applied to any particular engine.

The standard is based on SAE practice for mounting pads [set out in the SAE Handbook (1960)] and consists of the following sections:

- Section 1, “Flywheel housing mounting pads”, which gives dimensions of flywheel housing mounting pads; and
- Section 2, “Engine mounting brackets”, which gives dimensions of brackets for attachment to the pads specified in Section 1, for bearer mounted type engines only.

Such differences as exist between the present standard and the information contained in the SAE Handbook (1960) are to permit a range of pads having a size progression.

NOTE Where metric equivalents are stated (see Table 1M) the figures in British units are to be regarded as the standard. The metric conversions are approximate. More accurate conversions should be based on BS 350, “*Conversion factors and tables*”.

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.