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BRITISH STANDARD 4078 : 1966

**SPECIFICATION FOR
CARTRIDGE-OPERATED
FIXING TOOLS**



BRITISH STANDARDS INSTITUTION

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FIXING TOOLS**

B.S. 4078: 1966

BRITISH STANDARDS INSTITUTION

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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 11th November, 1966.

The Institution desires to call attention to the fact that this British Standard does not purport to include all the necessary provisions of a contract.

In order to keep abreast of progress in the industries concerned, British Standards are subject to periodical review. Suggestions for improvements will be recorded and in due course brought to the notice of the committees charged with the revision of the standards to which they refer.

A complete list of British Standards, numbering over 4000, indexed and cross-indexed for reference, together with an abstract of each standard, will be found in the Institution's Yearbook.

This standard makes reference to the following British Standards:

B.S. 381C. Colours for specific purposes.

B.S. 2092. Industrial eye-protectors for general purposes, excluding radiation and high speed impact hazards.

B.S. 2095. Industrial safety helmets (light duty).

British Standards are revised, when necessary, by the issue either of amendment slips or of revised editions. It is important that users of British Standards should ascertain that they are in possession of the latest amendments or editions.

The following B.S.I. references relate to the work on this standard:
Committee reference: MEE/172 Draft for comment D65/11812

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:

Associated Offices' Technical Committee
Association of Consulting Engineers
Association of Mining Electrical and Mechanical Engineers
Board of Trade
British Chemical Plant Manufacturers' Association
British Compressed Air Society
British Electrical and Allied Manufacturers' Association
British Gear Manufacturers' Association
British Internal Combustion Engine Manufacturers' Association
British Iron and Steel Federation
British Mechanical Engineering Federation
British Railways Board
Crown Agents for Oversea Governments and Administrations
Ministry of Technology, National Engineering Laboratory
Electricity Council, The Generating Board and the Area Boards in England and Wales
Engineering Equipment Users' Association
Gas Council
Institute of Marine Engineers
Institution of Civil Engineers
Institution of Gas Engineers
Institution of Heating and Ventilating Engineers
Institution of Mechanical Engineers
Institution of Mechanical Engineers, Automobile Division
Institution of Production Engineers
Locomotive and Allied Manufacturers' Association of Great Britain
London Transport Board
Machine Tool Trades Association
Ministry of Defence, Army Department
Ministry of Defence, Navy Department

*Ministry of Labour, H.M. Factory Inspectorate
Ministry of Power
*Ministry of Public Buildings and Works
Ministry of Transport
National Coal Board
National Physical Laboratory (Ministry of Technology)
Radio Industry Council
Royal Institute of British Architects

The Government departments 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:

Birmingham Gun Barrel Proof House
Federation of Associations of Specialists and Sub-Contractors
Federation of Master Builders
Greater London Council
Gun Trade Association Ltd.
Heating and Ventilating Contractors' Association
Home Office
Hounslow and District Chamber of Commerce
Ministry of Technology, Building Research Station
National Federation of Building Trades Employers
National Federation of Ironmongers
Reinforced Concrete Association
Worshipful Company of Gunmakers
Individual manufacturers

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BRITISH STANDARD SPECIFICATION FOR CARTRIDGE-OPERATED FIXING TOOLS

FOREWORD

This British Standard, prepared at the request of the Builders Plant and equipment Industry Standards Committee, under the authority of the Mechanical Engineering Industry Standards Committee, applies to cartridge-operated fixing tools used mainly in the building industry.

SPECIFICATION

1. GENERAL

1.1 Scope

1.1.1 This British Standard specifies the design, construction, safety and performance requirements for cartridge-operated fixing tools.

1.2 Definitions

1.2.1 For the purposes of this British Standard, the following definitions apply:

(1) *Cartridge-operated fixing tools*. Instruments for driving pins and similar objects into appropriate materials, the driving force being from a propellant gas producing cartridge.

(2) *Direct-acting tools*. Tools in which the driving force on the pin or similar object comes directly from the compressed gases from the cartridge.

(3) *Indirect-acting tools*. Tools in which the driving force is transmitted to the pin or similar object by means of an intervening piston with limited axial movement.

1.3 Marking

1.3.1 Every tool shall be clearly and permanently marked, either on the tool or on a plate attached to it, as follows:

(1) Manufacturer's name or trade mark.

(2) Type and serial number.

(3) A mark showing that it has been passed by a Proof House, in accordance with the Gun Barrel Proof Act, 1868.

(4) The number of this British Standard, i.e. B.S. 4078.

NOTE. The mark B.S.4078 on or in relation to the product is a claim by the manufacturer that it complies with the requirements of the standard.

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