

Specification for

Flameproof hand-held electric drilling machines primarily for use in mines

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Co-operating organizations

The Mining and Quarrying Requisites Industry Standards Committee, under whose supervision this British Standard was prepared, consists of representatives from the following Government department and scientific and industrial organizations:

- Association of Mining Electrical and Mechanical Engineers*
- British Electrical and Allied Manufacturers' Association
- British Steel Industry*
- Engineering Equipment Users' Association
- Federation of Associations of Mining Equipment Manufacturers
- Federation of Manufacturers of Construction Equipment and Cranes
- Institute of Quarrying
- Institution of Mechanical Engineers
- Institution of Mining Engineers*
- Mechanical Handling Engineers' Association
- Ministry of Technology
- National Coal Board*

The 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 British Standard:

- British Compressed Air Society
- British Mining and Quarrying Tools Association
- Council of Underground Machinery Manufacturers
- Ministry of Defence (Army Department)
- National Union of Mineworkers

This British Standard, having been approved by the Mining and Quarrying Requisites Industry Standards Committee, was published under the authority of the Executive Board on 11 December 1970

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The following BSI references relate to the work on this standard:
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Amendments issued since publication

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Foreword

This standard makes reference to the following British Standards:

BS 229, *Flameproof enclosure of electrical apparatus*.

BS 309, *Whiteheart malleable iron castings*.

BS 310, *Blackheart malleable iron castings*.

BS 970, *Wrought steels in the form of blooms, billets, bars and forgings*.

BS 1400, *Copper alloy ingots and copper and copper alloy castings*.

BS 2593, *Rotary drill rods and tungsten carbide tipped rotary drill bits for dry drilling, principally in coal*.

BS 2613, *The electrical performance of rotating electrical machinery*.

BS 2757, *Classification of insulating materials for electrical machinery and apparatus on the basis of thermal stability in service*.

BS 3101, *Intrinsically-safe remote-control circuits associated with restrained plugs and sockets for use in coal mines*.

This British Standard, prepared under the authority of the Mining and Quarrying Requisites Industry Standards Committee, was first published in 1943. This revised edition takes cognizance of current practice and in accordance with United Kingdom policy, is appropriately written in metric units.

The prime requirements of this standard relate to flameproof hand-held electric drilling machines used principally in coal mines in the United Kingdom, but certain provisions have been made to admit apparatus of this type as used in other industries.

The drilling machine handle incorporates a grip-operated switch by which the machine can be started and stopped. It is current practice in the UK for the switch in the handle to make and break a control circuit through a pilot conductor in the flexible cable, the circuit being completed by the earthing conductor. This British Standard, however, provides for an alternative design of switch for making and breaking the load current.

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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.