

Implants for osteosynthesis —

Part 5: Bone screws and auxiliary equipment —

Section 5.2 Specification for screwdrivers for screws having heads with single slot, cruciate slot or cross-recess

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Health Care Standards Policy Committee (HCC/-) to Technical Committee HCC/22, upon which the following bodies were represented:

- British Institute of Surgical Technologists
- British Investment Casting Trade Association
- British Medical Association
- British Orthopaedic Association
- British Steel Industry
- British Surgical Trades Association Incorporated
- Department of Health
- Institute of Sterile Services Management
- Medical Sterile Products Association
- Ministry of Defence
- National Association of Theatre Nurses
- Royal College of Surgeons of England
- Royal Veterinary College
- Scottish Office
- Coopted members

This British Standard, having been prepared under the direction of the Health Care Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on 31 May 1990

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National foreword

This Section of BS 3531-5 has been prepared under the direction of the Health Care Standards Policy Committee and is identical with ISO 8319-2:1986 “*Orthopaedic Instruments — Drive connections — Part 2: Screwdrivers for single slot head screws, screws with cruciate slot and cross-recessed head screws*”, published by the International Organization for Standardization (ISO).

BS 3531-5 was first published in 1982 and gave requirements for particular types of bone screw, for taps, drills and screwdrivers, and for holes and slots in bone plates. The revision of BS 3531-5:1982 offered the opportunity to facilitate the implementation of published and forthcoming International Standards, and to separate, in different Parts of BS 3531, requirements for screws and auxiliary equipment from those for bone plates. Accordingly therefore, requirements for bone screws and auxiliary equipment are retained in BS 3531-5, which is now published in a number of Sections, whilst requirements for bone plates are specified in BS 3531-23, also to be published in Sections.

The requirements for screwdrivers in this Section of BS 3531-5 supersede those in BS 3531-5:1982, which is withdrawn. The screwdrivers specified in this Section of BS 3531-5 are suitable for use with the bone screws specified in BS 3531-5.4.

It is strongly recommended that the products specified in this Section of BS 3531 should be manufactured according to the recommendations given in the “Guide to Good Manufacturing Practice for Orthopaedic implants”¹⁾.

Cross-references

International Standard	Corresponding British Standard
ISO 5832-5:1975	BS 7252 <i>Metallic materials for surgical implants</i> Part 5:1990 <i>Specification for wrought cobalt-chromium-tungsten-nickel alloy</i> (Identical)
ISO 6508:1986	BS 891 <i>Method for Rockwell hardness test</i> Part 1:1962 <i>Testing of metals</i> (Technically equivalent)

The Technical Committee has reviewed the provisions of ISO 683-13, ISO 2380 and ISO 9268, to which reference is made in the text, and has decided that they are acceptable for use with this standard. Note that the first edition of ISO 9268 was published in 1988.

The publications and drafts referred to in the annex are for information only, and do not affect the validity of this standard. Note that the first edition of ISO 6475 (referred to in footnote 3 to the Annex), and the first edition of ISO 9269 were published in 1988. It is expected that corresponding British Standards will be prepared in due course to implement ISO 5836, ISO 6475, ISO 9268 and ISO 9269.

The relationship between British Standards and the other ISO Standards and drafts mentioned in the annex are as follows:

International Standard	British Standard
ISO 5835-1:1985	BS 3531 <i>Implants for osteosynthesis</i> Part 5 <i>Bone screws and auxiliary equipment</i> Section 5.3:1990 <i>Specification for screws having asymmetrical thread and spherical under-surfaces</i> (Previously BS 3531-18:1986) (Identical)

¹⁾ Compiled by the Department of Health and Social Security; published and available from Her Majesty’s Stationary Office.
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International Standard	British Standard
ISO 5835-1:1978 (now withdrawn)	No related or corresponding British Standard
ISO 5835-2:1978 (now withdrawn)	No related or corresponding British Standard
ISO/DIS 5835-3:1983	No related or corresponding British Standard
ISO 5835-4:1983 (now withdrawn)	BS 3531 <i>Surgical implants</i> Part 5:1982 <i>Specification for surgical bone screws of 4 mm, 3.5 mm and 3 mm nominal sizes, countersunk surfaces on bone plates, twist drills, taps and screwdrivers</i> Clause 3 was related and has been superseded by BS 3531-5.4:1990
ISO/DIS 5836-3:1984	No related or corresponding British Standard
ISO 5836-4:1984 (now withdrawn)	BS 3531 <i>Surgical implants</i> Part 5:1982 <i>Specification for surgical bone screws of 4 mm, 3.5 mm and 3 mm nominal sizes, countersunk surfaces on bone plates, twist drills, taps and screwdrivers</i> Clauses 4 and 5 were technically equivalent and have been superseded by BS 3531-23.2:1990
ISO 6475-1:1980	No related or corresponding British Standard
ISO 6475-2:1980	No related or corresponding British Standard
ISO 8319-1:1986	BS 3531 <i>Implants for osteosynthesis</i> Part 5 <i>Bone screws and auxiliary equipment</i> Section 5.1:1990 <i>Specification for keys for use with screws having heads with hexagon sockets</i> (Identical)
ISO 8319-2:1986	This British Standard

Product certification. Users of this British Standard are advised to consider the desirability of third party certification of product conformity with this British Standard based on testing and continuing surveillance, which may be coupled with assessment of a supplier's quality systems against the appropriate Part of BS 5750.

Enquiries as to the availability of third party certification schemes will be forwarded by BSI to the Association of Certification Bodies. If a third party certification scheme does not already exist, users should consider approaching an appropriate body from the list of Association members.

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

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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.