

# INTERNATIONAL STANDARD

ISO  
9269

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ORGANISATION INTERNATIONALE DE NORMALISATION  
МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

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## **Implants for surgery — Metal bone plates — Holes and slots corresponding to screws with conical under-surface**

*Implants chirurgicaux — Plaques métalliques pour os — Chambrages et alésages pour vis à  
embase conique*

Reference number  
ISO 9269: 1988 (E)

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 9269 was prepared by Technical Committee ISO/TC 150, *Implants for surgery*.

This first edition of ISO 9269 cancels and replaces the first edition of ISO 5836-4 : 1984, of which it constitutes a minor revision.

Annexes A and B of this International Standard are for information only.

# Implants for surgery — Metal bone plates — Holes and slots corresponding to screws with conical under-surface

## 1 Scope

This International Standard specifies the dimensions and tolerances of holes and slots in bone plates used as surgical implants so as to facilitate correct fixing using screws complying with ISO 9268.

### NOTES

- 1 This International Standard does not deal with the shape and dimensions of the plates or with the spacing (centre-to-centre distance) of the holes and slots.
- 2 The interrelationship of International Standards dealing with bone screws, bone plates and relevant tools is shown in annex A.

## 2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 9268 : -<sup>1)</sup>, *Implants for surgery — Metal bone screws with conical under-surface of head — Dimensions.*

## 3 Dimensions and tolerances

### 3.1 Holes and slots in bone plates for use with screws of 2,9 mm nominal diameter (HC2,9 screw in accordance with ISO 9268)

Holes and slots in plates for HC2,9 screws shall be in accordance with figures 1 and 2 and table 1.

The depth of the countersink for holes or slots in flat plates having a thickness of 2 mm or greater shall be such that at least half of the parallel depth of the head of the HC2,9 screw shall be below the superficial surface of the plate.

The depth of the countersink for holes or slots in flat plates having a thickness of 1,6 mm or 1,4 mm shall be such as just to accommodate the countersunk surface of the screw head.

For bone plates having a curved surface, the depth of the countersink for holes or slots shall be such that the land of the HC2,9 screw lies between the upper and lower countersunk surfaces of the plates.

### 3.2 Holes and slots in bone plates for use with screws of 3,5 mm, 3,9 mm and 4,2 mm nominal diameters (HC3,5, HC3,9 and HC4,2 screws in accordance with ISO 9268)

Holes and slots in plates for HC3,5, HC3,9 and HC4,2 screws shall be in accordance with figures 1 and 2 and table 1.

The depth of the countersink for holes or slots in flat plates having a thickness of 2,8 mm or greater shall be such that at least half of the parallel depth of the head of the HC4,2 screw shall be below the external surface of the plate.

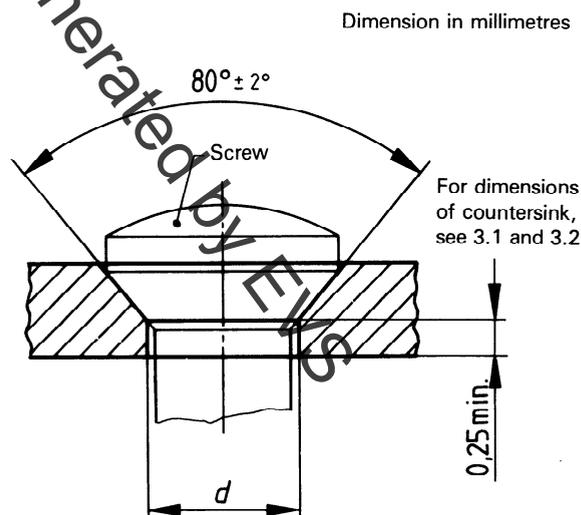


Figure 1 — Hole for HC screws

1) To be published; will cancel and replace ISO/DIS 5835-3 and ISO 5835-4 : 1983.