



**SLOVENSKI STANDARD**  
**SIST EN ISO 13397-4:2000**  
**01-januar-2000**

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**Periodontal cures, dental scalers and excavators - Part 4: Dental excavators - Discoid-type (ISO 13397-4:1997)**

Periodontal cures, dental scalers and excavators - Part 4: Dental excavators - Discoid-type (ISO 13397-4:1997)

Parodontalküretten, Zahnreiniger und Exkavatoren - Teil 4: Zahnärztliche Exkavatoren - Runder Typ (ISO 13397-4:1997)

Cures parodontales, instruments dentaires pour détartrage et excavateurs dentaires - Partie 4: Excavateurs dentaires - Type discoïde (ISO 13397-4:1997)

<https://standards.iteh.ai/catalog/standards/sist/2f830d58-a5af-4754-b4ae-0c0e889000e9/sist-en-iso-13397-4-2000>

**Ta slovenski standard je istoveten z: EN ISO 13397-4:1997**

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**ICS:**

11.060.20      Z[ à[ c @ ã } æ ] ! ^ { æ      Dental equipment

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN ISO 13397-4

December 1997

ICS 11.060.20

Descriptors: see ISO document

English version

Periodontal curettes, dental scalers and excavators - Part 4:  
Dental excavators - Discoid-type (ISO 13397-4:1997)

Curettes parodontales, instruments dentaires pour  
détartrage et excavateurs dentaires - Partie 4: Excavateurs  
dentaires - Type discoïde (ISO 13397-4:1997)

Parodontalküretten, Zahnreiniger und Exkavatoren - Teil 4:  
Zahnärztliche Exkavatoren - Runder Typ (ISO 13397-  
4:1997)

This European Standard was approved by CEN on 11 December 1997.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Page 2  
EN ISO 13397-4:1997

## Foreword

The text of the International Standard ISO 13397-4:1997 has been prepared by Technical Committee ISO/TC 106 "Dentistry" in collaboration with Technical Committee CEN/TC 55 "Dentistry", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 1998, and conflicting national standards shall be withdrawn at the latest by June 1998.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

### Endorsement notice

The text of the International Standard ISO 13397-4:1997 was approved by CEN as a European Standard without any modification.

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# INTERNATIONAL STANDARD

**ISO**  
**13397-4**

First edition  
1997-12-15

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## Periodontal curettes, dental scalers and excavators —

### Part 4: Dental excavators — Discoid type

*Curettes parodontales, instruments dentaires pour détartrage et  
excavateurs dentaires —*

*Partie 4: Excavateurs dentaires — Type discoïde*

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Reference number  
ISO 13397-4:1997(E)

**ISO 13397-4:1997(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 voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 13397-4 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee 4, *Dental instruments*.

ISO 13397 consists of the following parts, under the general title *Periodontal curettes, dental scalers and excavators*:

— *Part 1: General requirements*

— *Part 2: Periodontal curettes — Gr-type*

— *Part 3: Dental scalers — H-type*

— *Part 4: Dental excavators — Discoid-type*

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It is anticipated that additional types of instruments will form the subject of future parts.

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# Periodontal cures, dental scalers and excavators —

## Part 4:

### Dental excavators — Discoid type

#### 1 Scope

This part of ISO 13397 specifies the dimensions for dental excavators with discoid working ends.

#### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 13397. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 13397 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1942-3:1989, *Dental vocabulary — Part 3: Dental instruments*.

ISO 13397-1:1995, *Periodontal cures, dental scalers and excavators — Part 1: General requirements*.

#### 3 Definitions

For the purposes of this part of ISO 13397, the definitions given in ISO 1942-3 apply.

#### 4 Design and dimensions

##### 4.1 General

General requirements for dental excavators are specified in ISO 13397-1.

The classification of forms of dental excavator is given in table 1.

Table 1 — Classification of excavator forms

Form	Shape	Classification
A	Straight	100
B	Angled	200
C	Contra-angled	300
D	Angled, complex	400

Dental excavators shall have the designs shown in figures 1 to 4 and the dimensions as given in table 2. The points of measurement associated with the dimensions are listed in table 3.

Annex A of ISO 13397-1:1995 provides details of one method of measurement applicable to most types of dental hand instrument.

#### 4.2 Overall length

The maximum overall length, irrespective of the design of the instrument, shall be 178 mm.

#### 5 Test under torque

For dental excavators, subject the union between the working end and the handle to a torque of 200 N · cm for a duration of at least 5 s.

#### 6 Designation and marking

The manufacturer should include in the catalogue and on the package of the product the number of this International Standard (ISO 13397-4) followed by an oblique stroke and the number indicating the type of excavator as shown in table 2.

EXAMPLE: an excavator of form C, type 301, should be designated as follows:

**ISO 13397-4/301**



Table 2 — Dimensions of discoid-type excavators

Dimensions in millimetres  
(angular dimensions in degrees)

Type	$b_1$ $\pm 0,1$	$b_2$ $\pm 0,1$	$b_3$ $\pm 0,1$	$b_4$ $\pm 0,1$	$h_1$ $\pm 0,3$	$h_2$ $\pm 0,3$	$<\alpha$ $\pm 5$	$<\beta$ $\pm 5$
<b>Form A: 100 = Straight</b>								
101	2,5	0,9	—	1,2	—	—	40	—
102	1,7	0,7	—	0,9	—	—	40	—
<b>Form B: 200 = Angled</b>								
201	1,1	0,5	—	0,7	6,4	—	35	72
202	1,0	0,5	—	0,7	6,4	—	35	72
<b>Form C: 300 = Contra-angled</b>								
301	2,5	0,8	—	1,2	2,0	3,7	35	30
302	2,5	0,7	—	1,2	2,0	3,7	35	40
303	2,0	0,7	—	1,1	2,1	3,4	35	30
304	1,7	0,7	—	0,9	1,9	3,5	35	30
305	1,4	0,6	—	0,8	1,7	3,5	35	30
306	1,1	0,6	—	0,7	1,6	3,6	35	30
307	1,0	0,5	—	0,7	2,5	1,8	35	30
308	0,8	0,5	—	0,6	2,7	3,6	35	35
<b>Form D: 400 = Angled, complex</b>								
401	1,4	0,7	2,5	0,8	2,9	3,0	35	83