

Dental root-canal instruments —

Part 1: Files, reamers, barbed broaches, rasps, paste carriers, explorers and cotton broaches

The European Standard EN ISO 3630-1:1994 has the status of a
British Standard

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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/52, upon which the following bodies were represented:

- British Dental Association
- British Dental Trade Association
- British Endodontic Society
- British Society for Restorative Dentistry
- British Society for the Study of Orthodontics
- British Society for the Study of Prosthetic Dentistry
- British Society of Periodontology
- Department of Health
- Ministry of Defence
- Scottish Health Services

This British Standard, having been prepared under the direction of the Health Care Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 May 1993

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National foreword

This Part of BS 6815 has been prepared under the direction of the Health Care Standards Policy Committee and is identical with ISO 3630-1:1992 *Dental root-canal instruments — Part 1: Files, reamers, barbed broaches, rasps, paste carriers, explorers and cotton broaches*, published by the International Organization for Standardization (ISO) and prepared within Technical Committee 106, Dentistry, with the active participation of the UK.

In 1994, the European Committee for Standardization (CEN) accepted ISO 3630-1:1992 as European Standard EN ISO 3630-1:1994. As a consequence of implementing the European Standard, this British Standard is renumbered as BS EN ISO 3630-1:1995 and any reference to BS 6815-1:1993 should be read as a reference to BS EN ISO 3630-1:1995.

This Part of BS 6815 supersedes BS 6815:1987 which is withdrawn.

The Introduction to ISO 3630-1:1992 reads as follows:

“This International Standard covers significant features of hand- and power-operated dental root canal instruments which are used by the dentist for the mechanical preparation of root canals for treatment. In dentistry these instruments are also referred to as endodontic instruments.

Part 1, in addition to the specific instruments indicated, includes general specifications, requirements and test methods which are applicable to all types of root-canal instruments.

Attention is drawn to the International Standard on a number coding system, ISO 6360, which specifies a 15-digit number for the identification of dental rotary instruments of all types.”

Cross-references

International Standard	Corresponding British Standard
ISO 3696:1987	BS 3978:1987 <i>Specification for water for laboratory use</i> (Identical)
ISO 6360-1:1985	BS 6828 <i>Dental rotary instruments</i> Section 5.1:1987 <i>Specification for general characteristics</i> (Identical)
ISO 6360-2:1986	Section 5.2:1987 <i>Specification for shape and specific characteristics</i> (Identical)
ISO 8601:1988	BS 7151:1989 <i>Specification for representation of dates and times in information interchange</i> (Identical)

There are no British Standards equivalent to ISO 1797-1:1992 and ISO 1797-2:1992 although BS 6828 *Dental rotary instruments — Part 1:1987 Specification for shanks* is related to the Parts of ISO 1797. The Technical Committee has reviewed the provisions of ISO 1797-1:1992 and ISO 1797-2:1992, to which normative reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard.

For the purposes of the British Standard the final sentence in clause 1 is inapplicable.

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

This document comprises a front cover, an inside front cover, pages i to iv, the EN ISO title page, pages 2 to 20, 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.

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Descriptors: Dentistry, dental equipment, dental instruments, specifications, dimensions, tests, designation, colour codes, marking, packaging

English version

Dental root-canal instruments — Part 1: Files, reamers, barbed broaches, rasps, paste carriers, explorers and cotton broaches

(ISO 3630-1:1992)

Instruments pour canaux radiculaires utilisés en art dentaire —
Partie 1: Limes, alésoirs, broches barbelées, râpes, bourre-pâtes, sondes exploratrices et broches porte-coton
(ISO 3630-1:1992)

Zahnärztliche Wurzelkanalinstrumente —
Teil 1: Wurzelkanalfeilen, Reibahlen, Nervnadeln, Raspeln, Wurzelfüller, Sonden und Wattenadeln
(ISO 3630-1:1992)

This European Standard was approved by CEN on 1994-10-14. 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.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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

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Foreword

This European Standard has been taken over by Technical Committee CEN/TC 55, Dentistry, from the work of ISO/TC 106, Dentistry, of the International Standardization Organization (ISO). ISO 3630 consists of the following Parts, under the general title *Dental root-canal instruments*:

- *Part 1: Files, reamers, barbed broaches, rasps, paste carriers, explorers and cotton broaches;*
- *Part 2: Enlargers;*
- *Part 3: Condensers, pluggers and spreaders.*

Annex A of this part of ISO 3630 is for information only.

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 April 1995, and conflicting national standards shall be withdrawn at the latest by April 1995.

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

NOTE Normative references to international publications are listed in Annex ZA (normative).

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1 Scope

This part of ISO 3630 specifies requirements and test methods for files, reamers, barbed broaches, rasps, paste carriers, explorers and cotton broaches. In addition it covers general specifications, test methods, information on the designation code and identification symbols for root-canal instruments independent of specific types.

The requirements of this part of ISO 3630 shall become effective two years from the date of publication¹⁾.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 3630. 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 3630 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 1797-1:1992, *Dental rotary instruments — Shanks — Part 1: Shanks made of metals*.

ISO 1797-2:1992, *Dental rotary instruments — Shanks — Part 2: Shanks made of plastics*.

ISO 3696:1987, *Water for analytical laboratory use — Specification and test methods*.

ISO 6360-1:1985, *Dental rotary instruments — Number coding system — Part 1: General characteristics*.

ISO 6360-2:1986, *Dental rotary instruments — Number coding system — Part 2: Shape and specific characteristics*.

ISO 8601:1988, *Data elements and interchange formats — Information interchange — Representation of dates and times*.

3 Nominal sizes, designation (code number) and corresponding diameters

Table 1 gives the nominal sizes for the working parts to be used for all dental root-canal instruments regardless of the type of instrument.

The nominal sizes usually correspond to the values of the extended diameters at the tip or the working part in hundredths of a millimetre.

The designation (code number) with three digits is part of the 15-digit identification number laid down in ISO 6360-1.

¹⁾ See national foreword.