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Dentistry — Endodontic instruments —

Part 6: Numeric coding system

Médecine bucco-dentaire — Instruments d'endodontie —
Partie 6: Système de codification numérique

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CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Foreword

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This document was prepared by Technical Committee ISO/TC 106, *Dentistry,* Subcommittee SC 4, *Dental instruments*.

A list of all parts in the ISO 3630 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

This document replaces the number coding of endodontic instruments of ISO 3630-5 and provides a modified number coding format.

This document also makes provisions for the information on endodontic instruments in the ISO 3630 series.

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Dentistry — Endodontic instruments —

Part 6:
Numeric coding system

1 Scope

This document specifies a coding system for specific characteristics of endodontic instruments, with a 12-digit code identifying general and specific characteristics of instruments or groups of instruments. The numerals identify the type of instrument, nominal size, taper, length, working part material, type and material of handle or shank.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1942, *Dentistry — Vocabulary*

ISO 3630-1, *Dentistry — Endodontic instruments — Part 1: General requirements*

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3 Terms and definitions

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For the purposes of this document, the terms and definitions given in ISO 1942 and ISO 3630-1 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/

— IEC Electropedia: available at https://www.electropedia.org/

3.1
unspecified
characteristics which are not clearly stated and left to the discretion of the manufacturer

4 Numeric coding system for endodontic instruments

The coding system for endodontic instruments consists of 12 digits in six groups, as follows:

000	000	00	00	0	0
A	**B**	**C**	**D**	**E**	**F**

Table 1 and Figure 1 show the groupings.

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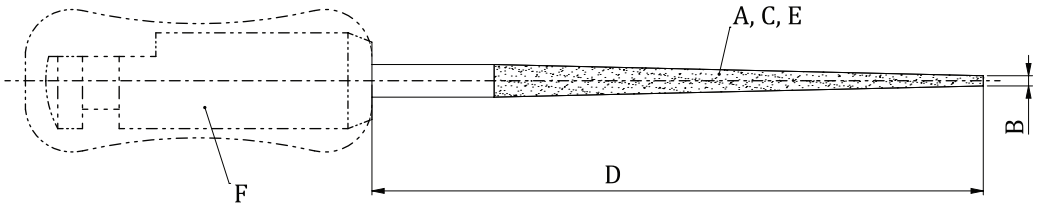
Table 1 — Numeric groups

Group	Description	Subclause
A	type of instrument	5.1
B	nominal size of the working part	5.2
C	taper of the working part	5.3
D	designated length of the instrument	5.4
E	material of the working part	5.5
F	type of handle or shank	5.6



Key

A type of instrument
B nominal size of the working part
C taper of the working part
D designated length of the instrument
E material of the working part
F type of handle or shank

Figure 1 — Coding key

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5 Numeric code for specific characteristics of endodontic instruments

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5.1 Type of endodontic instrument

5.1.1 General

Group A consists of three digits which identify the type of the instrument as specified in Table 2.

The group is subdivided into three elements, illustrating the cross-section of the active part, the tip of the instrument and the movement of the instrument during its usage. The movement is the one carried out by the clinician when using the instrument during an endodontic procedure.

5.1.2 Cross-sections

Digit 1 describes the cross-section of the instrument from “0” to “9”.

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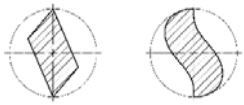
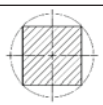
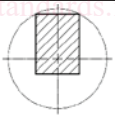
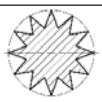
Table 2 — Description of the cross-sections of the instrument

Cross-sections			
Digit 1	**Pictorial illustration**	**Description**	**Example**
0		circular cross-section	plugger /spreader
1		1 flute	H-file
2		2 flutes, diamond shape or parallelogram cross-section	B2 / Enlarger
3		3 flutes, triangular cross-section	K-file / K-reamer
4		4 flutes, square and/or rectangular cross-section	K-file
5		spiral cross-section	paste carrier
6		3 flutes with recessed core	NiTi engine driven instrument
7		eccentric cross-section	NiTi engine driven instrument
8		star	barbed broach
9	unspecified cross-section	—	—

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5.1.3 Tips

Digit 2 in Table 2 describes the tip design of the instruments from “0” to “9”, as defined in ISO 3630-1, ISO 3630-2, ISO 3630-3, ISO 3630-4, ISO 3630-5 and ISO 3630-7[1)].

1) Under preparation. Stage at the time of publication: ISO/PWI 3630-7:2023.

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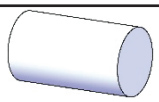
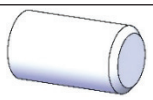
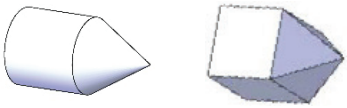
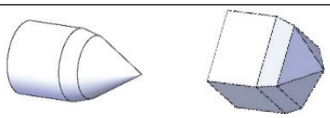
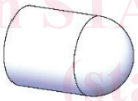
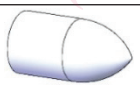
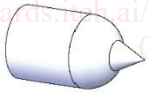
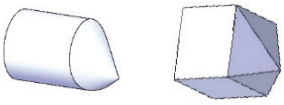
Table 3 — Description of the tips of the instrument

Tips		
Digit 2	**Pictorial illustration**	**Description**
0		flat tip
1		flat tip with bevel or chamfer
2		conical or pyramidal tip
3		conical or pyramidal tip with a reduced transition angle
4		conical or pyramidal blunt tip
5		hemispherical tip
6		ogival tip
7		hemispherical or ogival with a guiding tip
8		eccentric tip
9		unspecified tip

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5.1.4 Movement

Digit 3 in Table 4 describes the most preferred movement during the usage of the instrument from “0” to “9”.

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