



SLOVENSKI STANDARD
SIST EN ISO 7785-1:2000
01-januar-2000

Dental handpieces - Part 1: High-speed air turbine handpieces (ISO 7785-1:1997)

Dental handpieces - Part 1: High-speed air turbine handpieces (ISO 7785-1:1997)

Zahnärztliche Handstücke - Teil 1: Schnellaufende luftbetriebene Turbinen-Handstücke (ISO 7785-1:1997)

Pieces a main dentaires - Partie 1: Pieces a main a turbines a air comprimé pour grandes vitesses (ISO 7785-1:1997)

Ta slovenski standard je istoveten z: EN ISO 7785-1:1999

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ICS:

11.060.20 Z[à[ç@ã}æ]|^ { æ Dental equipment

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 7785-1

May 1999

ICS 11.060.20

Supersedes EN 27785-1:1994

English version

Dental handpieces - Part 1: High-speed air turbine handpieces
(ISO 7785-1:1997)

Pièces à main dentaires - Partie 1: Pièces à main à turbines à air comprimé pour grandes vitesses (ISO 7785-1:1997)

Zahnärztliche Handstücke - Teil 1: Schnellaufende luftbetriebene Turbinen-Handstücke (ISO 7785-1:1997)

This European Standard was approved by CEN on 16 April 1999.

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

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Foreword

The text of the International Standard from Technical Committee ISO/TC 106 "Dentistry" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 55 "Dentistry", the secretariat of which is held by DIN.

This European Standard replaces EN 27785-1:1994.

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 November 1999, and conflicting national standards shall be withdrawn at the latest by November 1999.

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 7785-1:1997 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

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ALTERNATIVE AXIOM
QUALITY SYSTEMS
SOLUTIONS



Annex ZA (normative)
Normative references to international publications
with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 1797-1	1992	Dental rotary instruments - Shanks - Part 1: Shanks made of metals	EN ISO 1797-1	1995
ISO 1942-3	1989	Dental vocabulary - Part 3: Dental instruments	EN 21942-3	1993
ISO 3696	1987	Water for analytical laboratory use - Specification and test methods	EN ISO 3696	1995
ISO 6507-2	1983	Metallic materials - Vickers hardness test - Part 2: Verification of testing machines	EN ISO 6507-2	1997
ISO 9168	1991	Dental handpieces - Hose connectors	EN 29168	1994
ISO 9687	1993	Dental equipment - Graphical symbols	EN ISO 9687	1995

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INTERNATIONAL
STANDARD

ISO
7785-1

Second edition
1997-08-01

Dental handpieces —

Part 1:

High-speed air turbine handpieces

Pièces à main dentaires —

Partie 1: Pièces à main à turbines à air comprimé pour grandes vitesses

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Reference number
ISO 7785-1:1997(E)

ISO 7785-1:1997(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 7785-1 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 4, *Dental instruments*.

This second edition cancels and replaces the first edition (ISO 7785-1:1992), which has been technically revised.

ISO 7785 consists of the following parts, under the general title *Dental handpieces*.

— Part 1: *High-speed air turbine handpieces*

— Part 2: *Straight and geared angle handpieces*

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Introduction

This part of ISO 7785 takes priority over IEC 601-1:1988 as specified in the individual clauses of this part of ISO 7785.

Only the specifications laid down in this part of ISO 7785 are applicable.

This part of ISO 7785 refers to IEC 601-1:1988, the basic standard on safety of medical electrical equipment wherever relevant, by stating the respective clause numbers of IEC 601-1:1988.

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Dental handpieces —

Part 1:

High-speed air turbine handpieces

1 Scope

This part of ISO 7785 specifies requirements and test methods for the application of high-speed air turbine dental handpieces (hereafter termed handpieces) to patients. It also contains specifications on manufacturer's instructions, packaging and marking.

This part of ISO 7785 is not applicable to single-use dental handpieces.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 7785. 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 7785 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 554:1976,	Standard atmospheres for conditioning and/or testing - Specifications.
ISO 1797-1:1992,	Dental rotary instruments - Shanks - Part 1: Shanks made of metals.
ISO 1942-3:1989,	Dental vocabulary - Part 3: Dental instruments.
ISO 3696:1987,	Water for analytical laboratory use - Specification and test methods.
ISO 6507-2:1983,	Metallic materials - Hardness test - Vickers test - Part 2: HV 0,2 to less than HV 5.
ISO 9168:1991,	Dental handpieces - Hose connectors.
ISO 9687: 1993,	Dental equipment - Graphical symbols.
ISO 13402:1995,	Surgical and dental hand instruments - Determination of resistance against autoclaving, corrosion and thermal exposure.
IEC 651:1979,	Sound level meters.
IEC 601-1:1988,	Medical electrical equipment - Part 1: General requirements for safety.

3 Definitions

For the purposes of this part of ISO 7785, the definitions given in ISO 1942-3 apply.

4 Classification

High-speed air turbine handpieces are dental handpieces with a minimum free-running speed of 160 000 min⁻¹ (r/min).

Dental handpieces are classified according to their gear ratio (see table 1).

High-speed air turbine handpieces are usually type 2 handpieces.

Table 1 - Gear ratio

Type	Gear ratio
1	1 : < 1
2	1 : 1
3	1 : > 1