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Irish Standard
I.S. EN ISO 18739:2016

Dentistry - Vocabulary of process chain for CAD/CAM systems (ISO 18739:2016)

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 18739

April 2016

ICS 11.060.01

English Version

Dentistry - Vocabulary of process chain for CAD/CAM systems (ISO 18739:2016)

Médecine bucco-dentaire - Vocabulaire de la chaîne de procédé applicable aux systèmes de CFAO (ISO 18739:2016)

Zahnheilkunde - Vokabular der Prozesskette für CAD/CAM-Systeme (ISO 18739:2016)

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European foreword

This document (EN ISO 18739:2016) 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.

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INTERNATIONAL STANDARD

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Dentistry — Vocabulary of process chain for CAD/CAM systems

Médecine bucco-dentaire — Vocabulaire de la chaîne de procédé applicable aux systèmes de CFAO

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Foreword

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The committee responsible for this document is ISO/TC 106, *Dentistry*, Subcommittee SC 9, *CAD/CAM-Systems*.

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Introduction

Terms and designations for individual system parts and process steps used in product descriptions and instructions for use provided by the manufacturers of dental CAD/CAD systems differ from each other, thus creating confusion among dentists and dental technicians. In order to overcome these ambiguities, it was decided to prepare an International Standard for terminology used in the process chain for CAD/CAM systems.

For the purposes of illustrating the logic sequence of the process chain for CAD/CAM systems, a flow chart of this process chain is shown in Annex A.

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Dentistry — Vocabulary of process chain for CAD/CAM systems

1 Scope

This International Standard specifies terms, synonyms for terms and definitions used in the process chain for CAD/CAM systems in dentistry.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 5725-1, *Accuracy (trueness and precision) of measurement methods and results — Part 1: General principles and definitions*

ISO 16443, *Dentistry — Vocabulary for dental implants systems and related procedure*

ISO/ASTM 52900, *Additive manufacturing — General principles — Terminology*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1942, ISO 5725-1, ISO 16443, ISO/ASTM 52900 and the following apply.

NOTE In the following, first the preferred term and then the synonyms which have been in use so far are given. For the future it is recommended to use the preferred terms instead of the synonyms.

3.1 Process step terms

3.1.1
3D data acquisition
three dimensional data acquisition
3D digitization and generation of a digital data set

3.1.2
3D data acquisition system
three dimensional data acquisition system
hardware and software used for 3D data acquisition

3.1.3
3D scanning
3D digitizing
raw data acquisition
method of acquiring the shape and size of an object as a 3-dimensional representation by recording x,y,z coordinates on the objects surface and through software the collection of points is converted into digital data

Note 1 to entry: This collection of data via the scanning process creates a raw *data set* (3.1.14).

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