

SLOVENSKI STANDARD SIST EN 22768-2:2000

01-december-2000

General tolerances - Part 2: Geometrical tolerances for features without individual tolerance indications (ISO 2768-2:1989)

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Allgemeintoleranzen - Teil 2: Toleranzen für Form und Lage ohne einzelne Toleranzeintragung (ISO 2768 2:1989) DARD PREVIEW

Tolérances générales - Partie 2: Tolérances géométriques pour éléments non affectés de tolérances individuelles (ISO 2768-2:1989)_{768-2:2000}

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Ta slovenski standard je istoveten z: EN 22768-2-2000 Ta slovenski standard je istoveten z: EN 22768-2-2000

<u>ICS:</u>

17.040.10 Tolerance in ujemi

Limits and fits

SIST EN 22768-2:2000

en



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SIST EN 22768-2:2000

EUROPEAN STANDARD

EN 22768-2:1993

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 1993

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Descriptors:

Machine components, geometrical tolerances, machining tolerances, dimensional deviations, specifications

English version

General tolerances - Part 2: Geometrical tolerances for features without individual tolerance indications (ISO 2768-2:1989)

Tolérances générales - Partie 2: Tolérances Allgemeintoleranzen - Teil 2: Toleranzen für géométriques pour éléments non affectés de DARD PRF (ISO 2768-2:1989) tolérances individuelles (ISO 2768-2:1989)

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Foreword

In 1991, the International Standard ISO 2768-2:1989 "General tolerances - Part 2: Geometrical tolerances for features without individual tolerance indications" was submitted to the CEN Primary Questionnaire procedure.

Following the positive result of the CEN/CS Proposal, ISO 2768-2:1989 was submitted to the Formal Vote.

The result of the Formal Vote was positive.

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of an identical text or by endorsement, at the latest by October 1993, and conflicting national standards shall be withdrawn at the latest by October 1993.

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.

Endorsement notice

The text of the International Standard ISO 2768-2:1989 was approved by CEN as a European Standard without any modification ANDARD PREVIEW

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NOTE: The European/references to international publications are given in annex ZA (normative). 3ad07f9a523d/sist-en-22768-2-2000 SIST EN 22768-2:2000

INTERNATIONAL STANDARD



First edition 1989-11-15

General tolerances -

Part 2:

Geometrical tolerances for features without individual iTeh Stolerance indications EVIEW

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Tolérances générales — <u>SIST EN 22768-22000</u> https://standards.itearces.itearces.géométriques.pour_éléments-non affectés de tolérances individuelles add/19a523d/sist-en-22768-2-2000



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 approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at VIEW least 75 % approval by the member bodies voting.

International Standard ISO 2768-2 was prepared by Technical Committee ISO/TC 3, Limits and fits.

Limits and fits. <u>SIST EN 22768-2:2000</u> https://standards.iteh.ai/catalog/standards/sist/c5a7a6c0-c65d-4084-9c7a-This first edition of ISO 2768-2, together with ISO 2768-1c; <u>1989</u>, cancel and replace 0 ISO 2768 : 1973.

ISO 2768 consists of the following parts, under the general title General tolerances:

- Part 1: Tolerances for linear and angular dimensions without individual tolerance indications

 Part 2: Geometrical tolerances for features without individual tolerance indications

Annexes A and B of this part of ISO 2768 are for information only.

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International Organization for Standardization

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Introduction

SIST EN 22768-2:2000

All features on component parts always have a size and a geometrical shape. For the deviation of size and for the deviations of the geometrical characteristics (form, orientation and location) the function of the part requires limitations which, when exceeded, impair this function.

The tolerancing on the drawing should be complete to ensure that the elements of size and geometry of all features are controlled, i.e. nothing shall be implied or left to judgement in the workshop or in the inspection department.

The use of general tolerances for size and geometry simplifies the task of ensuring that this prerequisite is met.

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General tolerances -

Part 2:

Geometrical tolerances for features without individual tolerance indications

1 Scope

This part of ISO 2768 is intended to simplify drawing indications and specifies general geometrical tolerances to control those features on the drawing which have no respective individual indication. It specifies general geometrical tolerances in three tolerance classes. **iTeh STANDARI**

This part of ISO 2768 mainly applies to features which are produced by removal of material. Its application to features manufactured by other processes is possible; however, special examination is required to ascertain whether the customary 68

examination is required to ascertain whether the customary 68-221SO 2768-1 : 1989, General tolerances — Part 1: Tolerances for workshop accuracy lies within the general geometrical tolerance indiances specified in this part of ISO 2768. ances specified in this part of ISO 2768. ad07f9a523d/sist-en-227(cations)00

2 General

When selecting the tolerance class, the respective customary workshop accuracy has to be taken into consideration. If smaller geometrical tolerances are required or larger geometrical tolerances are permissible and more economical for any individual feature, such tolerances should be indicated directly in accordance with ISO 1101 (see clause A.2).

General geometrical tolerances in accordance with this part of ISO 2768 apply when drawings or associated specifications refer to this part of ISO 2768 in accordance with clause 6. They apply to features which do not have respective individual geometrical tolerance indications.

General geometrical tolerances apply to all geometrical tolerance characteristics, excluding cylindricity, profile of any line, profile of any surface, angularity, coaxiality, positional tolerances and total run-out.

In any event, general geometrical tolerances in accordance with this part of ISO 2768 should be used when the fundamental tolerancing principle in accordance with ISO 8015 is used and indicated on the drawing (see clause B.1).

3 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of

ISO 2768. 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 2768 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 1101 : 1983, Technical drawings — Geometrical tolerancing — Tolerancing of form, orientation, location and run-out — Generalities, definitions, symbols, indications on drawings.

ISO 5459 : 1981, Technical drawings – Geometrical tolerancing – Datums and datum-systems for geometrical tolerances.

ISO 8015 : 1985, Technical drawings — Fundamental tolerancing principle.

4 Definitions

For the purposes of this part of ISO 2768, the definitions for geometrical tolerances given in ISO 1101 and ISO 5459 apply.

5 General geometrical tolerances

(see also clause B.1)

5.1 Tolerances for single features

5.1.1 Straightness and flatness

The general tolerances on straightness and flatness are given in table 1. When a tolerance is selected from table 1, it shall be based, in the case of straightness, on the length of the corresponding line and, in the case of flatness, on the longer lateral length of the surface, or the diameter of the circular surface.