

**Keevitus. Keeviskonstruktsioonide üldtolerantsid.  
Pikkuste ja nurkade väärtused. Kuju ja asendid**

**Welding - General tolerances for welded constructions -  
Dimensions for lengths and angles - Shape and position**

<b>EESTI STANDARDI EESSÕNA</b>	<b>NATIONAL FOREWORD</b>
See Eesti standard EVS-EN ISO 13920:1999 sisaldab Euroopa standardi EN ISO 13920:1996 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 13920:1999 consists of the English text of the European standard EN ISO 13920:1996.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 01.08.1996.	Date of Availability of the European standard is 01.08.1996.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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ICS 25.160.01

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ICS 25.160.00

Descriptors: Tolerances, welding.

**English version**

Welding

**General tolerances for welded constructions**

Dimensions for lengths, angles, shape and position

(ISO 13920:1996)

Soudage – Tolérances générales relatives  
aux constructions soudées – Dimensions  
des longueurs et angles, formes et posi-  
tions (ISO 13920:1996)

Schweißen – Allgemeintoleranzen für  
Schweißkonstruktionen – Längen und  
Winkelmaße, Form und Lage  
(ISO 13920:1996)

This European Standard was approved by CEN on 1995-06-20 and is identical to the ISO Standard as referred to.

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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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

**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 prepared by Technical Committee CEN/TC 121 'Welding', the Secretariat of which is held by DS, in collaboration with Technical Committee ISO/TC 44 'Welding and allied processes'.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by February 1997 at the latest.

In accordance with the CEN/GENELEC Internal Regulations, the national standards organizations of 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, and the United Kingdom.

## 1 Scope

This European Standard specifies general tolerances for linear and angular dimensions and for shape and position of welded structures in four tolerance classes, these being based on customary workshop accuracy. The main criterion for the selection of a particular tolerance class should be the functional requirements which are to be met.

The applicable tolerances are always those which are stated in the drawing. Instead of specifying individual tolerances, the tolerance classes according to this standard may be used.

General tolerances for linear and angular dimensions and for shape and position as specified in this standard apply for weldments, welding assemblies and welded structures etc.

Special provisions may be necessary for complex structures.

The specifications given in this standard are based on the principle of independency as specified in ISO 8015, according to which the dimensional and geometrical tolerances apply independently of each other.

Manufacturing documentation in which linear and angular dimensions or indications for shape and position are presented without individually indicated tolerances shall be deemed incomplete if there is no, or inadequate, reference to general tolerances. This does not apply to temporary dimensions.

## 2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These nor-

mative references are cited at the appropriate place 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 last edition of the publication referred to applies.

prEN ISO 1101

Technical drawings – Geometrical tolerancing – Tolerances of form, orientation, location and run-out – Generalities, definitions, symbols, indications on drawings

ISO/DIS 463

Geometrical Product Specifications (GPS) – Dimensional measuring instruments – Dial gauges: design and metrological requirements

ISO 3599:1976

Vernier callipers reading to 0,1 and 0,05 mm

ISO 6906:1984

Vernier callipers reading to 0,02 mm

ISO 8015:1985

Technical drawings – Fundamental tolerancing principle

## 3 Definitions

For the purposes of this standard, the definitions given in prEN ISO 1101 apply.

## 4 General tolerances

### 4.1 Tolerances for linear dimensions

See table 1.