
**Varjenje - Splošne tolerance za varjene konstrukcije - Dolžinske in kotne mere - Oblika in položaj (ISO 13920:1996)
(prevzet standard EN ISO 13920:1996 z metodo platnice)**

Welding - General tolerances for welded constructions - Dimensions for lengths and angles - Shape and position (ISO 13920:1996)

Soudage - Tolérances générales relatives aux constructions soudées - Dimensions des longueurs et angles - Formes et positions (ISO 13920:1996)

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

Deskriptorji: varjene konstrukcije, merske tolerance

ICS 25.160.01

Referenčna številka
SIST EN ISO 13920:1998 ((sl),de)

Nadaljevanje na straneh II do III in od 1 do 8

SIST EN ISO 13920 : 1998

NACIONALNI UVOD

Standard SIST EN ISO 13920 ((sl),de), Varjenje - Splošne tolerance za varjene konstrukcije - Dolžinske in kotne mere - Oblika in položaj (ISO 13920:1996), prva izdaja, 1998, ima status slovenskega standarda in je z metodo platnice prevzet evropski standard EN ISO 13920 (de), Schweißen - Allgemeintoleranzen für Schweißkonstruktionen - Längen- und Winkelmaße - Form und Lage (ISO 13920:1996), 1996-08-00.

NACIONALNI PREDGOVOR

Evropski standard EN ISO 13920:1996 je pripravil tehnični odbor Evropskega komiteja za standardizacijo CEN/TC 121 Varjenje.

Odločitev za prevzem tega standarda po metodi platnice je dne 1997-05-14 sprejel tehnični odbor USM/TC VAR Varjenje.

Ta slovenski standard je dne 1998-03-03 odobril direktor USM.

OPOMBI

- Poved, kjer se v besedilu standarda uporablja izraz evropski standard, v SIST EN ISO 13920:1998 to pomeni slovenski standard.
- Nacionalni uvod in nacionalni predgovor nista sestavni del standarda.

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VSEBINA	Stran
Predgovor	3
1 Področje uporabe	4
2 Zveza s standardi	4
3 Definicije	4
4 Splošne tolerance	4
4.1 Tolerance dolžinskih mer	4
4.2 Tolerance kotnih mer	5
4.3 Tolerance ravnosti, ravnosti ploskev in vzporednosti	6
5 Podatki na risbah	7
6 Preskušanje	7
6.1 Splošno	7
6.2 Ravnost	7
6.3 Ravnost ploskev	7
6.4 Vzporednost	8
7 Neskladnosti	8

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EUROPEAN STANDARD

EN ISO 13920

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1996

ICS 25.160.00

Descriptors: see ISO document

English version

**Welding - General tolerances for welded
constructions - Dimensions for lengths and angles
- Shape and position (ISO 13920:1996)**

Soudage - Tolérances générales relatives aux
constructions soudées - Dimensions des
longueurs et angles - Formes et positions
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Schweißen - Allgemeintoleranzen für
Schweißkonstruktionen - Längen- und Winkelmaße
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SIST EN ISO 13920:1998

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This European Standard was approved by CEN on 1996-06-20. 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.

The European Standards exist 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 United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Content

	page
Foreword	3
1 Scope	4
2 Normative references	4
3 Definitions	5
4 General tolerances	5
4.1 Tolerances for linear dimensions	5
4.2 Tolerances for angular dimensions	5
4.3 Straightness, flatness and parallelism tolerances	7
5 Indications on drawings	8
6 Testing	8
6.1 General	8
6.2 Straightness	8
6.3 Flatness	9
6.4 Parallelism	9
7 Non-conformities	9

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Foreword

The text of EN ISO 13920:1996 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, at the latest by February 1997, and conflicting national standards shall be withdrawn at the latest by February 1997.

According to the CEN/CENELEC 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.

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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.

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2 Normative references

SIST EN ISO 13920:1998

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This European Standard incorporates by dated or undated reference, provisions from other publications. These normative 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.

ISO/DIS 463	Geometrical Product Specifications (GPS) - Dimensional measuring instruments; Dial gauges - Design and metrological requirements
prEN ISO 1101	Technical drawings - Geometrical tolerancing Tolerances of form, orientation, location and run-out - Generalities, definitions, symbols, indications on drawings (ISO/DIS 1101:1995)
ISO 3599	Vernier callipers reading to 0,1 and 0,05 mm
ISO 6906	Vernier callipers reading to 0,02 mm
ISO 8015	Technical drawings - Fundamental tolerancing principle

3 Definitions

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

4 General tolerances

4.1 Tolerances for linear dimensions

See table 1.

Table 1: Tolerances for linear dimensions

Range of nominal sizes l in mm											
Tolerance class	2 to 30	Over 30 up to 120	Over 120 up to 400	Over 400 up to 1000	Over 1000 up to 2000	Over 2000 up to 4000	Over 4000 up to 8000	Over 8000 up to 12000	Over 12000 up to 16000	Over 16000 up to 20000	Over 20000
	Tolerances t in mm										
A	± 1	± 1	± 1	± 2	± 3	± 4	± 5	± 6	± 7	± 8	± 9
B		± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16
C		± 3	± 4	± 6	± 8	± 11	± 14	± 18	± 21	± 24	± 27
D		± 4	± 7	± 9	± 12	± 16	± 21	± 27	± 32	± 36	± 40

4.2 Tolerances for angular dimensions

The length of the shorter angle leg shall be used to determine in accordance with table 2 which tolerances are to apply. The length of the leg may also be assumed to extend to a specified reference point. In this case, the reference point concerned shall be indicated on the drawing.

See table 2 for the relevant tolerances.

Figures 1 to 5 show examples of how the shorter angle leg, l , is represented.